

Presented to

The Library

of the

University of Toronto

by

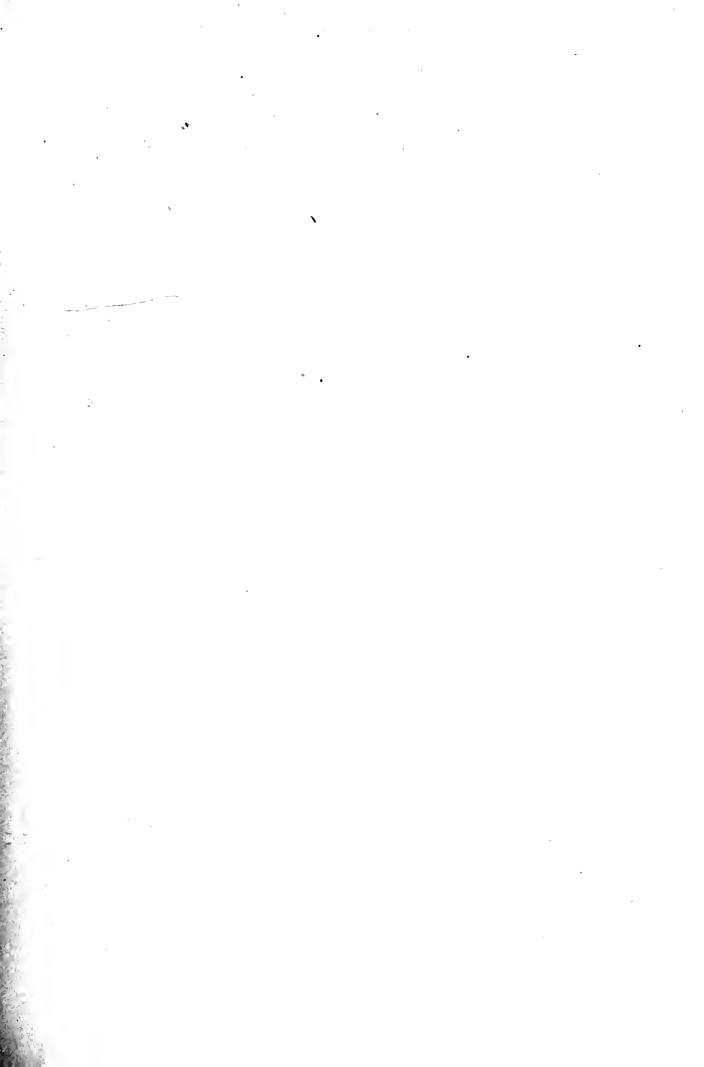
Professor Keys

	.*		
•	.* .		
•			
ř.			
·			
•			
7			
3.			



1				
	•'			
>				
1				
3				
ļ.				
e ³				
	•			
and a				
5				
9,				
4				
14				
at a				
- P. C.				







THE

CENTURY DICTIONARY

AND

CYCLOPEDIA

A WORK OF UNIVERSAL REFERENCE IN ALL DEPARTMENTS OF KNOWLEDGE WITH A NEW ATLAS OF THE WORLD

VOLUME XI



27/4/3

The Century Co.

NEW YORK

PITTO

Copyright, 1889, 1890, 1891, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1909, 1910, By The Century Co.

All Rights Reserved.

PUBLISHERS' NOTE ON THE COMPLETED WORK

The publication of the Atlas, which is incorporated in the present edition, completed the plan of The Century Dictionary and Cyclopedia. As the Cyclopedia of Names grew out of the Dictionary and supplemented it on its encyclopedic side, so the Atlas grew out of the Cyclopedia, and serves as an extension of its geographical material. Each of these works deals with a different part of the great field of words,—common words and names,—while the three, in their unity, constitute a work of reference which practically covers the whole of that field. The two new volumes now issued make the material of the Dictionary and Cyclopedia complete. The total number of words and names defined or otherwise described in the completed work is over 500,000.

The special features of each of these several parts of the book are described in the Prefaces which will be found in the first, ninth, tenth, and eleventh volumes. It need only be said that the definitions of the common words of the language are for the most part stated encyclopedically, with a vast amount of technical, historical, and practical information in addition to a wealth of purely philological material; that the same encyclopedic method is applied to proper names—names of persons, places, characters in fiction, books—in short, of everything to which a name is given; and that in the Atlas geographical names, and much besides, are exhibited with a completeness and serviceableness seldom equaled. Of the Century Dictionary and Cyclopedia as a whole, therefore, it may be said that it is in its own field the most complete presentation of human knowledge—scientific, historical, and practical—that exists.

Moreover, the method of distributing this encyclopedic material under a large number of headings, which has been followed throughout, makes each item of this great store of information far more accessible than in works in which a different system is adopted.

The first edition of The Century Dictionary was completed in 1891, that of the Century Cyclopedia of Names in 1894, that of the Atlas in 1897, and that of the two new volumes in 1909. Each of the works published at the earlier dates has been subjected to repeated careful revisions, and the results of this scrutiny are comprised in this edition.

THE CENTURY DICTIONARY SUPPLEMENT

PREPARED UNDER THE SUPERINTENDENCE OF

BENJAMIN E. SMITH, A.M., L.H.D. MANAGING EDITOR OF THE CENTURY DICTIONARY AND EDITOR OF THE CENTURY CYCLOPEDIA OF NAMES AND THE CENTURY ATLAS



PUBLISHED BY The Century Co. Copyright, 1909, 1910, by The Century Co. All Rights Reserved.

LIST OF COLLABORATORS:

EDITOR-IN-CHIEF, BENJAMIN E. SMITH, A.M., L.H.D.

EDITORIAL CONTRIBUTORS.

CLEVELAND ABBE, A.M., LL.D. Professor of Meteorology, United States Weather Bureau.

Meteorology.

LIBERTY HYDE BAILEY, M.S., LL.D.

Director of the New York State College of Agriculture, Cornell University. Horticulture.

ADOLPH FRANCIS BANDELIER.

Lecturer on American Archæology in Columbia University.

South American Ethnology and Archæology.

EDWIN ATLEE BARBER, A.M., Ph.D.

Director of the Museum of the Pennsylvania Museum and School of Industrial Art. Ceramies; Glass-moking.

CHARLES BARNARD.

Tools and Appliances.

SAMUEL A. BINION, M.D.

Hebrew Terms.

FRANZ BOAS, Ph.D.

Professor of Anthropology in Columbia University.

Anthropology; Ethnology; North American Archæology.

BERTRAM BORDEN BOLTWOOD, Ph.D.

Assistant Professor of Physics in Yale University.

Radioactive Substances.

IRA H. BRAINERD.

Legal Terms, L-Z.

WILLIAM KEITH BROOKS,

Ph.D., LL.D.*

Professor of Zoölogy in Johns Hopkins University.

General Biology.

WALTER CAMP, M.A.

Member of the Yale University Council. Athletics; Foot-ball, and other Outof-door Games (except Golf and

Cricket).

THOMAS JOSEPH CAMPBELL, S.J.

Lately President of St. John's College. Roman Catholic Terms.

JOHN BATES CLARK, Ph.D., LL.D.

Professor of Political Economy in Columbia University.

Political Economy.

* Deceased.

JOHN MASON CLARKE, Ph.D., LL.D.

New York State Geologist and Paleon-tologist; Director of the State Museum and of the Science Division of the De-partment of Education of the State of New York.

Paleontology; Stratigraphy.

FREDERICK VERNON COVILLE, A.B.

Curator of the United States National Herbarium.

Systematic and Economic Botany.

STEWART CULIN.

Numismatics.

EDWARD SALISBURY DANA,

A.M., Ph.D.

Professor of Physics and Curator of Mineralogy in Yale University. Mineralogy.

WILLIAM MORRIS DAVIS

M.E., Sc.D., Ph.D.

Professor of Geology in Harvard University.

Physiography; Glaciology.

THEODORE LOW DE VINNE, A.M.

Printing; Printing Machinery.

CHARLES WRIGHT DODGE, M.S.

Professor of Biology in the University of Rochester,

Invertebrate Zoölogy.

CHARLES AVERY DOREMUS,

A.M., M.D., Ph.D.

Lately Acting Professor of Chemistry in the College of the City of New York.

Photography; Chemical Apparatus.

GUSTAV JOSEPH FIEBEGER,

COLONEL, UNITED STATES ARMY. Professor of Engineering and the Art of War in the United States Military Academy.

Military Engineering and the Art of

War.

ROBERT FREDERICK FOSTER. .

Card Games.

RICHARD GARNETT, LL.D.*

Keeper of Printed Books of the British Museum.

Astrology.

FRANKLIN HENRY GIDDINGS,

Ph.D., LL.D.

Professor of Sociology in Columbia University.

Sociology.

WILLIAM HALLOCK, Ph.D.

Professor of Physics in Columbia University.

Color Photography.

GEORGE BRUCE HALSTED, Ph.D.

Professor of Mathematics in the Colorado State Normal School.

Mathematics.

FRANK E. HOBBS,

LIEUTENANT-COLONEL, ORDNANCE DEPARTMENT, UNITED STATES ARMY.

Commanding Officer of the Rock Island Arsenal.

Ordnance; Mililary Arms; Explosives.

LELAND OSSIAN HOWARD,

M.S., Ph.D.

Chief Entomologist of the United States
Department of Agriculture; Honorary
Curator of the United States National
Museum; Consulting Entomologist of
the United States Public Health and
Marine Hospital Service.

Entomology.

HENRY MARION HOWE, A.M., LL.D.

Professor of Metallurgy in Columbia University.

Metallurgy.

CHARLES W. HULST, A.M.

Legal Terms, A-L.

FREDERICK REMSEN HUTTON, E.M., Ph.D., Sc.D.

Emeritus Professor of Mechanical En-gineering in Columbia University, and lately President of the American So-ciety of Mechanical Engineers.

Mechanical Engineering; Machines; General Technology.

JOSEPH PAXON IDDINGS, Sc.D.

Geologist in the United States Geological Survey.

Petrology.

DAVID STARR JORDAN, Ph.D., LL.D.

President of Leland Stanford Junior University.

Ichthyology.

JAMES FURMAN KEMP, E.M., Sc.D.

Professor of Geology in Columbia University.

Geology.

HENRY GRATTAN KITTREDGE.*

Textiles; Textile Materials, Processes, and Machinery.

GEORGE WILLIAM KNOX, D.D., LL.D.

Professor of Philosophy and the History of Religion in Union Theological Seminary.

Theology; Ecclesiastical History.

LIST OF COLLABORATORS

GEORGE FREDERICK KUNZ, Ph.D., Sc.D.

Special Agent in Charge of Precious Stones, United States Geological Survey and Twelfth United States Census.

Gems; Jewelry.

OLIN HENRY LANDRETH.

A.M., C.E., Sc.D.

Professor of Engineering in Union University,

Civil Engineering.

JOHN A. LESTER, Ph.D. Cricket.

FREDERICK L. LEWTON, A.B.

Assistant Botanist, United States Department of Agriculture. Economic Botany.

JOSEPH H. LINNARD.

Naval Constructor, United States Navy. Naval Construction.

FREDERIC AUGUSTUS LUCAS, D.Sc.

Curator-in-Chief of the Museums of the Brooklyn Institute.

Vertebrate Zoölogy; Comparative

.Inatomy; Ostcology.

R. E. B. McKENNEY, Ph.D. Plant Physiology.

JOHN WILLIAM MALLET,

Ph.D., LL.D.

Professor of Chemistry in the University of Virginia. Inorganic Chemistry; Industrial

WILLIAM RALPH MAXON, A.B.

Assistant Curator of Botany, United States National Museum.

Cryptogamic Botany.

Chemistry.

JOHN ROBBINS MOHLER, V.M.D.

Chief of the Pathological Division of the United States Bureau of Animal Industry.

Animal Pathology.

GEORGE THOMAS MOORE, Ph.D.

Physiologist and Algologist, United States Bureau of Plant Industry.

Algology.

EDWARD WILLIAMS MORLEY. Ph.D., LL.D.

Emeritus Professor of Chemistry in Western Reserve University.

Physical Chemistry; Weights and Measures.

HENRY SMITH MUNROE, Ph.D., Sc.D. Professor of Mining in Columbia University.

Mining.

FREDERICK HAYNES NEWELL, B.S.

Director of the United States Reclamation Service,

Irrigation.

* Deceased.

EDWARD LEAMINGTON NICHOLS, Ph.D., LL.D.

Professor of Physics, Cornell University.

Physics (with Electricity, in part); Physical Units; Physical Appa-

WILLIAM ALBERT NOYES.

A.M., Ph.D.

Professor of Chemistry in the University of Illinois; Editor of the Journal of the American Chemical Society. Organic Chemistry.

LOUIS ATWELL OLNEY, A.C., M.S.

Professor of Chemistry and head of the Department of Textile Chemistry and Dyeing in the Lowell Textile School. Dyes and Dyeing.

HOWARD PATTERSON.

Formerly of the United States Navy, President of the New York Nautical College.

Nautical Terms.

CHARLES SANDERS PEIRCE, A.M., Sc.B.

Logic; Metaphysic.

GIFFORD PINCHOT, A.M.

Chief of the Forest Service in the United States Department of Agriculture. Forestry; Lumbering.

WALDO SELDEN PRATT, A.M., Mus.D.

Professor of Music and Hymnology in Hartford Theological Seminary. Music; Musical Instruments.

CHARLES BINGHAM REYNOLDS,

Lately Editor of "Forest and Stream." Field Sports.

CEORGE WILLIS RITCHEY, A.M.

Astronomer and Superintendent of In-strument Construction of the Solar Observatory of the Carnegie Insti-tution tution.

Astronomical Instruments.

ABBOTT LAWRENCE ROTCH,

S.B., A.M.

Professor of Meteorology in Harvard University. Aëronautics.

WILLIAM EDWIN SAFFORD,

Assistant Botanist, United States Bureau of Plant Industry.

Tropical Botany.

CHARLES PAYSON GURLEY SCOTT, Ph.D., Litt.D.

Etymologist of the Century Dictionary. Etymologics.

CORNELIUS LOTT SHEAR, Ph.D.

Pathologist of the United States Bureau of Plant Industry.

Vegetable Pathology; Mycology.

CHARLES EDMUND SIMON, M.D.

Professor of Clinical Pathology in Baltimore Medical College.

Physiological Chemistry; Immunity; Serumtherapy.

EDWARD R. SMITH, A.M.

Librarian of the Avery Architectural Library, Columbia University.

Painting; Sculpture; Engraving; Decoration.

EDWIN CHAPIN STARKS.

Assistant Profèssor of Zoölogy in Leland Stanford Junior University. Assistant in Ichthyology.

THOMAS LATHROP STEDMAN. A.M., M.D.

Editor of the "Medical Record." Medicine; Surgery; Human Anatomy.

EDWARD STRIEBY STEELE.

United States National Herbarium. Agricultural Botany; Agriculture.

CHARLES PROTEUS STEINMETZ, A.M., Ph.D.

Electrician of the General Electric Com-pany and Professor of Electrical En-gineering in Union University. Electricity (in part).

CHARLES WARDELL STILES,

Ph.D., D.Sc. Zoölogist of the United States Public Health and Marine Hospital Service, and Lecturer on Medical Zoölogy in Johns Hopkins University.

Medical Zoölogy.

RUSSELL STURGIS, A.M., Ph.D.* Architecture.

EDWARD BRADFORD TICHENER,

Ph.D., D.Sc., LL.D. Professor of Psychology in Cornell University.

Psychology.

WALTER J. TRAVIS, Golf.

LESTER FRANK WARD, A.M., LL.D.

Geologist, United States Geological Survey; Honorary Curator of Fossil Plants, United States National Museum. General Editor of the Botanical

Terms.

WILLIAM MORTON WHEELER, Ph.D.

Professor of Economic Entomology in Harvard University.

Cytology; Embryology.

WILLIAM FRANKLIN WIGHT, A.M. Assistant Botanist, United States Department of Agriculture.

Systematic Botany.

CHARLES AUGUSTUS YOUNG, Ph.D., LL.D.*

Professor of Astronomy in Princeton University. Astronomy.



PREFATORY NOTE.



HE CENTURY DICTIONARY (1889-91) was much the largest collection of the words of the English language that had been published. In it the number of words and 'phrases' at that time defined in general dictionaries of English was increased by upward of one hundred and twenty thousand. This additional collection included not a few words which had appeared in special glossaries and technical dictionaries, but much the greater

part of it was obtained by a systematic search through English literature, especially the literature of science and the arts. The labor and cost of effecting this very notable enlargement of the recorded English vocabulary have amply been justified by its utility to the many thousands of users of the book during the past twenty years.

The compilers of the Century were, however, aware that a dictionary record, whatever might be its degree of completeness at the date of publication, would in the future need to be enlarged on account of the continuous and rapid increase of the vocabulary of English, both common and technical. It was, in particular, very obvious that in many branches of science and technology the coinage of new terms and the development of new meanings would proceed—as they have in fact done—at a greatly accelerated pace. Accordingly, the work of collection was not ended by the publication of the dictionary, but has been continued ever since.

The result of this labor is presented in these two volumes, which supplement the original work. They contain additional words, senses, and defined 'phrases' representing the increase in scientific and technological terminology, as well as in the 'common' vocabulary, during the past twenty-five years, and possessing a high degree of technical importance and general interest. During this period — a period probably more productive of neologisms than any other of the same length in the history of the language - not only have many special sciences, or branches of sciences, been created, and remarkable extensions of the older sciences been effected, but the practical arts also (with commerce, exploration, and the like) have found innumerable new applications, methods, and objects; and with all of these advances have come new vocabularies, often of great extent, or new uses of old terms, which the dictionary must It is necessary to mention only such topics as radioactivity, aëronautics, immunity and serumtherapy, experimental psychology, the recent studies in heredity and organic development, the advances in cytology and embryology, and the progress in telegraphy and electrical technology in general, in order to indicate the extent and importance of these accretions. Much the same is true of the increase in the vocabularies of scientific and practical agriculture, of physiological chemistry, of medicine, and of many other subjects, scientific or practical. It should also be noted that a very considerable number of foreign (Spanish, French, etc.) words (names of plants, fabrics, materials, implements, institutions, and so on), especially terms in use in Hawaii, the Philippines, Porto Rico, and Spanish America generally, have of late acquired a quasi-English value (or, at least, interest) which the dictionary must recognize. In addition to this superabundant new growth there have also been included many words and senses of earlier origin, and also extensions of many encyclopedic articles and definitions. The total number of words, senses, and 'phrases' thus collected and here defined is about one hundred thousand —an addition comparable to that made by the original edition of the dictionary. It should be added, however, that the words and forms included, great as their number is, are still a selection, made under the

general rules stated in the preface to the original edition (Vol. I.), to which for this and other prefatory matter the reader is referred. Many chemical and mineralogical terms, for example, have been added, but, of course, not all; important New Latin names in zoölogy and botany have been admitted, but (relatively) only a few; the obvious derivatives (which — actual and possible — are many thousands in number) from names of families, orders, etc., in zoölogy and botany are, with a few exceptions, not given; and provincialisms (except Americanisms and Australianisms) and obsolete words and expressions have, as a rule, been excluded.

As regards method of treatment and typographical style, it is enough to say that in these matters the plan of the main work has been closely followed. The various definitions and articles are designed to fit into the text of the earlier volumes without diversity of form, interruption of continuity, or repetition of matter. In accordance with this plan the fact that a given word in the supplementary vocabulary is additional or 'new' is indicated simply by the fact that it is followed by the respelling for pronunciation and, generally, by an etymological note; in the case of an additional sense or phrase, on the other hand, the title-word is not followed by the pronunciation and derivation; and the same is true of mere additions to articles in the main text. Cross-references to material in the supplementary volumes are distinguished by a star (*) placed before the word under which the material will be found. References not so distinguished are to the original volumes.

The various definitions and articles have been written by the contributors whose names are given in the list of collaborators and in the second paragraph below. Of the etymologies it should be said that in only a few cases has more than a brief explanatory statement been necessary, since most of the words are scientific coinages or other terms of simple and often obvious formation, or are foreign words (introduced into English in some special sense) of which, as a rule, in accordance with the custom of the dictionary, only the proximate source (as French or Italian or Spanish, etc.) is indicated.

During the progress of the work upon these volumes, but after the completion of their portions of it, several of the contributors have been removed by death. Dr. Richard Garnett, keeper of printed books of the British Museum, an early friend of the dictionary, died on April 12, 1906. On January 6, 1907, the eminent astronomer Professor Charles A. Young, also a kind and helpful friend of the Century from its earliest days, passed away. The death of Professor William K. Brooks, of the Johns Hopkins University, long distinguished for his services to biology, followed on November 12, 1908. On February 11, 1909, came the announcement of the death of Mr. Russell Sturgis, a learned student of architecture and connoisseur of art, one of the earliest and most important contributors to the dictionary. Mr. Henry G. Kittredge, an authority upon the textile industries, died on June 5, 1909. They were men eminent for scientific and scholarly attainments and all that makes for nobility of character.

It remains only to thank the very numerous helpers who have contributed special items of information or material, or have aided in the work of the editorial office or the press. Without the assistance of all, such completeness and accuracy as may have been attained would have been impossible. Special mention should be made of the assistance of Professor John Dewey, of Columbia University, in the defining of pragmatism and related terms; of the Bureau of Forestry and the Society of American Foresters, in granting through Mr. Gifford Pinchot the use of the manuscript of their glossary of terms in forestry and lumbering; of Dr. Robert Lilley, in contributing many definitions of Oriental (especially Chinese and Japanese) and other terms, and in aiding editorially in putting a part of the first volume through the press; of Mr. David White, of the United States Geological Survey, and Dr. Herbert J. Webber, of the United States Department of Agriculture, in defining various botanical terms; of Professor J. Bishop Tingle, of McMaster University, and Dr. Campbell E. Waters, of the United States Bureau of Standards, in assisting in the work on organic chemistry; of Dr. Whitman Cross, of the United States Geological Survey, in writing certain of the earlier definitions in petrography; of Professor Pierre A. Fish, of Cornell University, in defining various neurological terms; of Dr. Frank H. Chittenden, of the United States Department of Agriculture, in giving valued aid in the work on the entomological terms and illustrations; of Professor Harold Jacoby, of Columbia University; of Mr. H. C. Cassell, in contributing the definitions relating to chess; of the late Mr. W. N. Fitzgerald, editor of "The Hub," in defining a large number of terms relating to vehicles and harness; of Mr. Benjamin Garno, in supplying definitions in billiards; of Mr. Charles De Kay, in defining terms in fencing; of Professor Edmund K. Alden, of the Packer Institute, in the definition of terms in general and political history; of Mr. Herbert H. Smith, in contributing, with definitions, a number of West Indian words; of Mr. E. C. Hinckley, in supplying the definitions of terms relating to tanning and leather-making; of Professor J. O. Schlotterbeck, of the University of Michigan, in defining a number of pharmaceutical terms; of Miss Edith M. Greer, of Pratt Institute, in defining terms in cooking; of Mrs. C. A. M. Hall of the Drexel Institute, in furnishing information with regard to needlework and embroidery; of Mr. James Means and Mr. Angustus Post, in furnishing valuable material relating to aëronanties; of Mr. Philip S. Smith, in the subject of physiography; of Miss Katharine B. Wood, in collecting much valuable material relating to common words; and of Miss Margaret Jackson and Miss Florence Gilmour, in most efficiently aiding in the work of the editorial office.

In the selection and criticism of the illustrations, which are about one thousand nine hundred in number, aid has been given by nearly all of the collaborators and also by many others. For the use of valuable material especial acknowledgment is due to Macmillan and Company, who have granted the use of cuts from their English edition of von Zittel's "Palæontology"; to the Metropolitan Museum of Art; to the American Museum of Natural History; to the Mount Wilson Solar Observatory; to the New York Institute for the Blind; to the Westinghouse Company; to the Forest Service, Washington; to the British School at Athens; to the British Museum; and to the Journal of Hellenic Studies.

To the second volume has been added a supplement to the Cyclopedia of Names (Vol. IX. of the Dictionary and Cyclopedia) of ninety-two pages, comprising a large number of new articles and also of additions to the articles contained in the various editions of that work.

BENJAMIN E. SMITH.

November 1, 1909.

ABBREVIATIONS

USED IN THE ETYMOLOGIES AND DEFINITIONS.

a disstina	enginengineering.	mech mechanica, mechani-	photog photography.
a., adjadjective. abbrabbreviation	entomentomology.	cal.	phren phrenology.
ablablative.	EpisEpiscopal.	mcdmedicine.	physphysical.
accaccusative.	equivequivalent.	mensur mensuration.	physiol pnysiology.
accomaccommodated,accom-	espespecially.	metalmetallurgy.	pl., plur plural.
modation.	Eth Ethiopic.	metaphmetaphysics.	poetpoetical.
act active.	ethnogethnography.	mcteormeteorology.	politpolitical.
advadverb.	ethnolethnology.	MexMexican.	Pol Polish.
AFAnglo-French.	etymetymology.	MorMiddle Greek, medie-	poss possessive. pp past participle.
agriagriculture.	Eur European.	val Greek.	
ALAnglo-Latin.	eyclamexclamation.	M11G Middle High German.	pprpresent participle.
algalgebra.	f., fem feminine.	militmilitary.	Pr Provençal (usual meaning Old Pr
AmerAmerican.	F French (usually mean-	mineralmineralogy.	
anatanatomy.	ing modern French).	MLMiddle Latin, medie-	vençal).
ancancient.	FlemFlemish.	val Latin.	prefprefix.
antiq antiquity.	fortfortification.	MLG Middle Low German.	preppreposition.
aoraorist.	freq frequentative.	modmodern.	pres present.
apparapparently.	Fries Friesic.	mycol mycology.	pret preterit.
ArArabic.	futfuture.	mythmythology.	privprivative.
archarchitecture.	GGerman(usually mean-	nnoun.	probprobably, probable.
archæol archæology.	ing New High Ger-	n., neutneuter.	pronpronoun.
aritharithmetic.	man).	NNew.	pronpronounced, pronur
art article.	Gael Gaelic.	NNorth.	ciation.
AS Anglo-Saxon.	galvgalvanism.	N. Amer North America.	propproperly.
astrolastrology.	gengenitive.	natnatural.	pros prosody.
astronastronomy.	geog geography.	nantnautical.	ProtProtestant.
attribattributive.	geolgeology.	navnavigation.	provprovincial
augaugmentative.	geom geometry.	NGrNew Greek, modern	paychol psychology.
BavBavarian.	Goth Gothic (Mœsogothic).	Greek.	q. vL. quod (or pl. quo
Beng Bengali.	GrGreek.	NHGNew High German	vide. which see.
biolbiology.	gramgrammar.	(usually simply G.,	reflreflexive.
Bohem Bohemian.	gungunnery.	German).	regregular, regularly.
botbotany.	Heb Hebrew.	NL New Latin, modern	reprrepresenting.
BrazBrazilian.	herheraldry.	Latio.	rhetrhetoric.
Bret Breton.	herpetherpetology.	nomnominative.	RomRoman.
bryolbryology.	Hind	Norm Norman.	Rom Romanic, Romance
Bulg Bulgarian.	histhistory.	northnorthern.	(languages).
carpcrrpentry.	horolhorology.	NorwNorwegian.	Russ
CatCatalan.	hort horticulture.	numis numismatics.	SSouth.
CathCatholic.	Hung	001d.	S. AmerSonth American.
cans cansative.	hydraul hydraulics.	obsobsolete.	ac L. scilicet, understa
ceramceramica.	hydroshydrostatics.	obstetobatetrics.	supply.
cfL. confer, compare	Icel Icelandic (usually	OBulg Old Bulgarian (other-	Sc Scotch.
chchurch.	meaning Old Ice-	wise called Church	Scand Scandinavian.
ChalChaldee.	landic, otherwise call-	Slavouic, Old Slavic,	ScripScripture.
chemchemical, chemistry.	ed Old Norse).	Old Slavonic).	sculpaculpture.
Chin	ichthichthyology.	OCat,Old Catalan.	Serv Servian.
chronchronology.	i. e L. id est, that is.	ODOld Dutch.	aing singular.
colloqcolloquial, colloquially.	impersimpersonal.	ODanOld Danish.	Skt Sanskrit.
com commerce, commer-	lmpfimperfect.	odontog odontography.	Slav Slavic, Slavonic.
cial.	impv imperative.	odontolodontology.	SpSpaoish.
compcomposition, com-	impropimproperly.	OFOld French.	subjaubjunctive.
pound.	1ndIndian.	OFlemOld Flemish.	superlauperlative.
comparcomparative.	indindicative.	OGaelOld Gaelic.	aurgsurgery.
conch conchology.	Indo-Eur Indo-European.	OHGOld High German.	enrysurveying.
conj conjunction.	indef indefinite.	OIrOld Irish.	SwSwedish.
contrcontracted, contrac-	infinfinitive.	OItOld Italian.	aynsynonymy.
tion.	instrinstrumental.	OL Old Latin.	Syr
Corn Cornish.	interjinterjection.	OLGOld Low German.	technoltechnology.
craniol craniology.	Intr., intrans intransitive.	ONorthOld Northumbrian.	telegtelegraphy.
craniom craniometry.	Ir Irish.	OPrnss Old Prnssian.	teratolteratology.
crystalcrystallography.	irregirregular, irregularly.	orig original, originally.	termtermination.
DDutch.	ItItalian.	ornithornithology.	Tent Tentonic.
Dan Danish.	JapJapanese.	OSOld Saxon.	theattheatrical.
datdative.	L Latin (usually mean-	OSp Old Spanish.	theol theology.
def definite, definition.	ing classical Latin).	osteol osteology.	thersp therapeutics.
derlyderivative, derivation.	LettLettish.	OSwOld Swedish.	toxicoltoxicology.
dial dialect, dialectal.	LO Low German.	OTeut,Old Teutonic.	tr., transtransitive.
diffdifferent.	tichenollichenology.	p. aparticipial adjective.	trigon trigonometry.
dimdiminutive.	litliteral, literally.	paleonpaleontology.	Turk Turkish.
distrib distributive.	litliterature.	part participle.	typogtypography.
dramdramatic.	Lith, Lithuanian.	passpassive.	ult ultimate, ullimstely
dynamdynamics.	lithoglithography.	pathol pathology.	vverb.
E East.	lithollithology.	perf perfect.	varvariant.
E English (usually mean-	LLLate Latin.	Pera Persian.	vetveterinary.
ing modern English).	m., masc masculine.	pera person.	v. i intransitive verb.
eccl., ecclesecclesiastical.	MMiddle.	persp perspective.	v. t transitive verb.
econconomy.	mschmachinery.	Peruv Peruvian.	WWelsh.
e. g L. exempli gratia, for		petrogpetrography.	Wall
**	mammalmammalogy.		
example.	mammalmammalogy. manufmanufacturing.	PgPortuguese.	Wallsch Wallachian.
example. Egypt Egyptian.	manufmanufacturing.	Pg Portuguese. phar pharmacy.	W. Ind West Indian.
Egypt Egyptian.	manufmanufacturing. mathmathematica.	PgPortuguese.	W. Ind West Indian. zoögeogzoögeography.
Egypt Egyptian. E. Ind East Indian.	manufmanufacturing. mathmathematics. MDMiddle Dutch.	Pg. Portuguese. phar. pharmacy. Phen. Phenlciau. philol. philology.	W. Ind West Indlan. zoögeog zoögeography. zoöl zoölogy.
Egypt. Egyptian. E. Ind. East Indian. elect. electricity.	manufmanufacturing. mathmathematica.	Pg Portuguese. phar pharmacy. Phen Phenlciau. philol philology. philos	W. Ind West Indian. zoögeogzoögeography.
Egypt Egyptian. E. Ind East Indian.	manufmanufacturing. mathmathematics. MDMiddle Dutch. MEMiddle English (other-	Pg. Portuguese. phar. pharmacy. Phen. Phenlciau. philol. philology.	W. Ind West Indlan. zoögeogzoögeography. zoölzoölogy.

KEY TO PRONUNCIATION.

- a as in fat, man, pang.
- ā as in fate, mane, dale.
- as in far, father, guard.
- å as in fall, talk, naught.
- a as in lair, turn, mugi
- a as in ask, fast, ant.
- ã as in fare, hair, bear.
- e as in met, pen, bless.
- ē as in mete, meet, meat.
- è as in her, fern, heard.
- i as in pin, it, biscuit.
- i as in pine, fight, file.
- o as in not, on, frog.
- o as in not, on, 1rog. o as in note, poke, floor.
- ö as in move, spoon, room.
- as in move, spoon, room
- å as in nor, song, off.
- u as in tub, son, blood.
- ū as in mute, acute, few (also new, tnbe, duty: see Preface, pp. ix, x)
- as in pull, book, could.
- ü German ü, French u.

oi as in oil, joint, boy.
on as in pound, proud, now.

A single dot under a vowel in an unaccented syllable indicates its abbreviation and lightening, without absolute loss of its distinctive quality. See Preface, p. xi. Thus:

- ā as in prelate, courage, captain.
- ē as in ablegate, episcopal.
- o as in abrogate, eulogy, democrat.
- ū as in singular, education.

A donble dot under a vowel in an unaccented syllable indicates that, even in the mouths of the best speakers, its sound is variable to, and in ordinary utterance actually becomes, the short u-sound (of but, pun, etc.). See Preface, p. xi. Thus:

- a as in errant, republican.
- e as in prudent, difference.
- i as in charity, density.
- g as in valor, actor, idiot.

- ä as in Persia, peninsula.
- ē as in the book.
- ū as in nature, feature.

A mark (\smile) under the consonants t, d, s, z indicates that they in like manner are variable to ch, j, sh, zh. Thus:

- t as in nature, adventure.
- d as in arduous, education.
- s as in pressure.
- z as in seizure.

th as in thin.

TH as in then.

- ch as in German ach, Scotch lech.
- n French nasalizing n, as in ton, en.
- ly (in French words) French liquid (mouillé) l. 'denotes a primary, "a secondary accent. (A secondary accent is not marked if at its regular interval of two syllables from the primary, or from another secondary.)

SIGNS.

- < read from; i. e., derived from.</pre>
- > read whence; i. e., from which is derived.
- + read and; i. e., compounded with, or with suffix.
- = read cognate with; i. e., etymologically parallel with.
- √ read root.
- * read theoretical or alleged; i.e., theoretically assumed, or asserted but unverified, form.
- * read obsolete.
- $\boldsymbol{\texttt{\pm}}$ references so marked are to the supplementary volumes.

SPECIAL EXPLANATIONS.

A superior figure placed after a title-word indicates that the word so marked is distinct etymologically from other words, following or preceding it, spelled in the same manner and marked with different numbers. Thus:

back¹ (bak), n. The posterior part, etc.
back¹ (bak), a. Lying or being behind, etc.
back¹ (bak), v. To furnish with a back, etc.
back¹ (bak), adv. Behind, etc.
back² (bak), n. The earlier form of bat².
back³ (bak), n. A large flat-bottomed boat, etc.

Various abbreviations have been used in the credits to the quotations, as "No." for number, "st." for stanza, "p." for page, "l." for line, I for paragraph, "fol." for folio. The method used in indicating the subdivisions of books will be understood by reference to the following plan:

Section only	6 5
Chapter only	xiv
Canto only	
Book only	iii

Book and chapter Book and line Book and page iii. 10. Chapter and verse No. and page..... Volume and page II. 34. Volume and chapter 1V. iv. Part, book, and chapter II. iv. 12. Part, caute, and stanza H. iv. 12. Chapter and section or \P vii. \S or \P 3. Volume, part, and section or ¶ . I. i. § or ¶ 6. Book, chapter, and section or ¶ . . l. i. § or ¶ 6.

Different grammatical phases of the same word are grouped under one head, and distinguished by the Roman numerals 1., 11., 111., etc. This applies to transitive and intransitive uses of the same verb, to adjectives used also as nouns, to nouns used also as adjectives, to adverbs used also as prepositions or conjunctions, etc.

The capitalizing and italicizing of certain or all of the words in a synonym-list indicates that the words so distinguished are discriminated in the text immediately following, or under the title referred to.

The figures by which the synonym-lists are sometimes divided indicate the senses or definitions with which they are connected.

The title-words begin with a small (lower-case) letter, or with a capital, according to usage. When usage differs, in this matter, with the different senses of a word, the abbreviations [eap.] for "capital" and [l. c.] for "lower-case" are used to indicate this variation.

The difference observed in regard to the capitalizing of the second element in zoölogical and botanical terms is in accordance with the existing usage in the two sciences. Thus, in zoölogy, in a scientific name consisting of two words the second of which is derived from a proper name, only the first would be capitalized. But a name of similar derivation in botany would have the second element also capitalized.

The names of zoölegical and botanical classes, orders, families, genera, etc., have been uniformly italicized, in accordance with the present usage of scientific writers.



ENTURY DICTIONAR SUPPLEMENT



val music, the final of the Eolian and hypoxedian abasic (a-bā'sik), a. [abasia + -ic.] Of, permodes. (g) In chem., the taining to, or affected with abasia. symbol for argon.—3. Also abask (a-bāsk'), adv. [\(\alpha\) a \(\beta\) bask, v.] Baskan abbreviation of ampere and of *.1-lerel (which see).

Gr. ava, used in sense of 'throughout,' that is, 'of each one.'] In recipes, an abbreviation equivalent, when used after the names of several ingredients, to 'of each one take.'

A, & (â). A Swedish letter representing an original long a (ä), now sounded as English

long open o in form or a in fall. **a-a** (ä'ä), n. [Hawaiian.] A form of eooled lava-stream of which the surface consists of lava-stream of which the surface consists of jagged and irregular blocks. The blocks represent the childed and solidified crust of a motten mass, and were formed during a pause. When the onward movement was resumed the frozen cakes were piled one upon another. Contrasted with pahochoe, which refers to amouth or fluted surfaces. Both words are of Hawaiian origin, but are occasionally used in English writings on volcanoes. C. E. Dutton, Ann. Rep. Director U. S. Geol. Survey 1881, p. 95.

Aachenian (ii-kē'ni-an), a. and n. [G. Aachen (F. Aix-la-Chapelle) + -ian.] In stratigraphy, noting formations underlying the Chalk in Belgilm: now known as * Bernissartian (which see).

A. A. G. An abbreviation of Assistant Adjutant-General.

aal, n. See *all

Aalenian (ä-le'ni-an), a. and n. [G. Aalen in Würtemberg.] In stratigraphy, noting European subdivision of the Lower Oölite beds of the Jurassic.

aalii (ä'ä-lē'ē), n. [Hawaiian; ⟨aa (≡ Maori aka, etc.), roots, + lii (≡ Maori riki), small.] In Hawaii, a small tree, Dodonæa riscosa, 12 to 25 feet high. It is one of the commonest trees of that 23) left lingu. It is one of the commoneat grees of mar-region and is found on all the islands. It also occurs in tropical America, New Zealand, and Australia, and on probably all of the volcanic island groups of Polynesia, It is valued for its hard-grained, dark wood. Called apiri in Tahiti

aannerodite, n. See *annerodite.

aback¹, adr. All aback (nant.), said of sails when they are all flattened against the masta by the wind act-ing on them from in front. All aback forward (naut.), said of the square sails on the foremast when the wind coming from shead has laid the sails against the mast.— Plat aback (naut), said of sails when the wind is nearly at a right angle to them, so that they are neither belied forward nor pressed against the mast, but just fluttering or lifting.

Abacola (a-bak'ō-lä), n. [NL.: origin not obvious.] The typical genus of the family Abavious.]

Edwards, 1891.

Abacolidæ (ab-a-kol'i-dē), n. pl. [NL., < Abacola + -idæ.] A family of parasitic copepod erustaceans found in holothnrians. They have simple mouth parts adapted for piercing, and 5-jointed antennæ. The typical genus is Abacola.

abbey or, in Italian architecture, more often an abbey church. Also badia.

abadejo (ä-bä-dā'hō), n. [Sp., a codfish, poor-jack, = Pg. abadejo, badejo: origin uncertain.]

A Cuban name for the seamp Musternament. A Cuban name for the seamp Mycteroperca falcata, a large species of grouper.

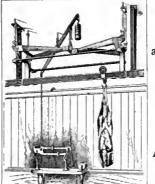
, **2** (a). In music, the A **abasia** (a-bā'si-ā), n. [NL., < Gr. *àβασία (ef. next above middle C has åβατος, not trodden), < à- priv. + βάσις, step-(atFreneh piteh) 435 vibrations per second. In medicture through defect of museular action, not necessity. sarily paralysis or incoördination.

ing; bathed in sunlight or genial warmth.

M. Nealc.

[Prop. aa, which stands for ana, abastard (a-bas'tard), r.t. [OF. abastardir, to stigmatize as bastard or degenerate.] To bastardize; render spurious or corrupt; debase.

Tardize: render spurious or corrupt; debase. Donne, Psendo-Martyr, p. 226. N. E. D. abaton (ab'a-ton), n.; pl. abata (-tā). [NL., \langle Gr. $\dot{a}\beta a\tau oi$, prop. neut. of $\dot{a}\beta a\tau oi$, not to be trodden, \langle \dot{a} - priv. + $\beta a\tau \delta i$ \langle $\beta airen$, go, walk,



step.] A place sacred from common entry: a shrine. Same as adytum.

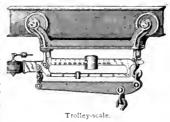
abat-gon(a-bä'son). n. [F.,< abattre, throw down (see abate), + son, sound.] A deing downward sound, as that of a bell.

Abattoir scales, scales adapted to

Abattoir Scales.

Anattoir Sca

er system may be allove the track, with the weighing sec-tion anspended from the lev-ers, and the weighing-beam may be below at a convenient distance from the floor. A single troiley with its load



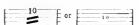
with its load hay be weighted, or as many as the weighing-section of track will hold may be weighted together. Another form of scale employs a trolley for weighing materials in transit, with a seale-beam attached directly to the trolley and traveling with it. This is called a trolley-scale.

abaxile, a. 2. In bot., turned away from the axis: said of lateral organs.

Abbe-Fizeau dilatometer. See *dilatometer.

lar.] Not affecting the joints; not articular. abbreviation, n., 4. Other marks of abbreviation—Abarticular gout. See *jout 1.

measures, and consisting either of a general character in the staff with a figure above, or simply of a figure in the staff denoting the intended number of measures, thus:



(2) Various horizontal dashes, lines, rows of dots, etc., indicating that the force of some preceding character is to continue as far as the dashes, lines, or dots extend, thus:



abciss (ab'sis), n. Same as *complement, 8, abcoulomb (ab'kö-lom"), n. [ab(solute) + coulomb.] A name proposed for the c. g. s. electromagnetie unit of electrical quantity; 10 coulombs. Also abscoulomb.

Abdominal brain, the solar plexus (which see, under plexus).—Abdominal ganglion, the semilunar ganglion (which see, under ganglion).—Abdominal gestation, gestation occurring outside of the uterus.—Abdominal mat, a padded framework, with a stretcher for the feet, used in gymnasiums for exercising the abdominal muscles.—Abdominal phthisis, unberculosis of the peritoneum, meanteric glands or mucous coar of the intesting. cles.—Abdominal phthisis, tuberculosis of the peritoneum, mesenteric glands, or mucous coat of the intestine.

—Abdominal pregnancy. Same as *abdominal yestation.—Abdominal stalk, in embryol., the tube of nesoblast which envelops the stem of the allantois in the
young human and mammalian embryo.—Abdominal
sweetbread, the pancreas. See *wreetbread.

abdominalian (ab-dom-i-nā'li-an'), a. [Abdominales + -iam.] Pertaining to or having the

characteristics of the Abdominales.

abdominothoracic (ab-dom"i-nō-thō-ras'ik), a. Relating to both the abdomen and the thorax. abdominovesical (ab-dom'i-nō-ves'i-kal), a. Relating to the abdominal wall and to the minary bladder.—Abdominovesical ponch, the concave surface of the peritoneum where it is deflected from the anterior abdominal wall to the distended blad-

Abducens muscle, the external rectus muscle of the eyeball.—Abducens nucleus, the center in the medulla oblongata from which the abducens nerve seems take its origin.

abduction, n. 3. In the logical system of C. S. Peirce, reasoning from consequent to ante-eedent; the acceptance on probation (or more absolutely) of a hypothesis to explain observed facts; the deriving of a suggestion from observation.—Formal abduction, a logical process which has the form of abduction but does not involve any posi-

has the form of abduction but does not involve any positive assertion, and is not, therefore, like positive abduction, subject to error. Such is the process of adopting a new word and that of forming an abstraction.

Abelicea (ab - e - lis ' ē - ā). n. [NL. (Rafinesque, 1836), < Gr. ἀπελίκεα, the name of the Cretan species.] A genus of dieotyledonous plauts of the family Ulmaceæ. See Zelkova.

Abe Lincoln bug, See *bng².

aberglaube (ā 'ber-glau'' be). n. [G. aberglaube.

aberglaube (ä'ber-glou"be), n. [G. aberglaube, for "oberglaube", überglaube, D. overgeloof, 'over-belief.' The first element simulates aber, but.] Belief beyond what is justified by experience and knowledge. See the extract.

Our word 'superstition' had by its derivation this same meaning, but it has come to be used in a merely bad sense, and to mean a childish and craven religiosity. With the German word it is not so: therefore Goethe can say with propriety and truth: 'Aberglaube is the poetry of life.' . . Extra-belief, that which we hope, augur, imagine, is the poetry of life.

M. Arnold, Lit. and Dogma, p. 87.

Aberrant duct of the liver, a bile-duct nnconnected with the other portions of the biliary apparatus.

[Rare.]
Aberration constant. See constant of aberration, under constant.—Lateral aberration, in the theory of lenses, the product of the spherical aberration and the relative aperture of the lens; the radius of the circle formed by ravs passing through the edge of a lens and falling upon a screen placed at the focal point.—Lateral spherical aberration. Same as circle of aberration—Longitudinal aberration, in the theory of lenses, the distance between the points in which rays passing through the central zone and the edges of the lens, respectively, cut the axis; spherical aberration.—Negative spherical aberration, in optics, spherical aberration in a divergent lens, where the focal length of the outer zones is greater than that of the center of the lens.—Positive spherical aberration, in optics, spherical aberration of a convergent lens, where the focal length of the outer zones is less than that of the center of the lens.

Aberrational ellipse. See *ellipse. aberrometer (ab-e-rom'e-ter), n. [Irreg. < L. aberrore, aberrate. + Gr. μέτρον, measure.] An instrument for measuring deviations or errors in delicate experiments or observations. G. E. Davis, Pract. Microscopy, p. 183.

abevacuation n. 2. Evacuation through an

Abhidharma (ab-i-der'mä), n. [Skt. abhidharma, (abhi, near, to, + dharma, order, rule, The Buddhistic philosophy.

precept.] The abia (ä'biä), n. A Polish silver coin of the value of one shilling sterling or twenty-five

abidal (a-bi'dal), n. [abidel, v. i., + -al.] Abiding-place; abode. N. E. D. abidi (ä-bi-dē'), n. [E. Ind.] The silver half-

rupee of Mysore. Abieteæ (ab-i-ē'tē-ē), n. pl. [NL. (Spach, 1842), ⟨L. Abies(Abiet-) + -eæ.] Same as Abietineæ. abilious (a-bil'yus), a. Indicating or marked

by an absence of bile, as in the stools.

ability, n.— General ability, in polit. econ., "those faculties and that general knowledge and intelligence which are in varying degrees the common property of all the higher grades of industry." Alfred Marshall, Principles of Economics, I. 266.—Gracious ability, the semi-Pelagian and Arminian teaching that though man by the fall lost the ability to keep the moral law, yet God by his grace restores it to all men.—Natural ability, a term used in New England theology in distinction to moral ability; i. e., man since the fall has all the natural powers needed to obey God's law, but he is morally unable so to do since his will is opposed to rightcousness.—Plenary ability, the Pelagian doctrine that responsibility is measured by ability, so that every man has full power all times to obey God's law.—Specialized ability, "that manual dexterity and that acquaintance with particular materials and processes, which are required for the special purposes of individual trades." Alfred Marshall, Principles of Economics, 1. 266.

abilo (ä-be'lō), n. [Tagalog name?] A name in the Philippines of Garuga floribunda, a tree by an absence of bile, as in the stools.

in the Philippines of Garuga floribunda, a tree belonging to the Balsameaceae, with pinnate leaves crowded at the ends of the branches and with fruit in the form of small, fleshy drupes. It is fragrant and yields a gnm which is soluble in water, but only slightly so in abnormative (ab-nôr'ma-tiv), a. [ab+nor-

alcohol.

abiochemistry (ab"i-ō-kem'is-tri), n. [Gr. ἀ-priv. + βίος, life, + Ε. ehemistry.] Inorganic chemistry as contrasted with the chemistry of vital processes.

abiogenetical (ab-i-o-je-net'i-kal), a. Same as

abiology (ab-i-ol'ô-ji), n. [Gr. à- priv. + βίος, life, + -λογία, < λέγεω, speak; cf. biology.] The sejentific study of things that are not alive; all science except biology. Hacekel (trans.),

all science except biology. Haceket (trans.), Planktonic Studies, p. 578.

abion (ab'i-on), n. [Gr. άβιον, neut. of άβιος, taken in the literal sense 'without (physical) life,' ζ ά- priv. + βίος, life.] Lifeless things eonsidered collectively, as distinguished from living things. Haceket (trans.), Planktonic Studies, p. 578.

abiophysiology (ab"i-ō-fiz-i-ol'ō-ji), n. [Gr. aβιος, without life, + φυσιαλογία, physiology.]
The study of the inorganie or purely physical and chemical phenomena in living organisms as distinguished from the biological phenomena

abiosis (ab-i-ō'sis), n. [Gr. à-priv. + βίωσις, abnumeral (ab-nū 'me-ral), a. way of life.] Absence of vital force.

abnumeral (ab-nū 'me-ral), a. meral.] Same as *abnumerable.

trans.). Wonders of Life, p. 27. [Rare.] abiotrophy (ab-i-ot 'rō-fl), n. [Gr. α- priv. + βιος, life, + -τροφία, ζτρέφειν, nourish.] Degeneration due to congenital deficiency of vital

Abispa (a-bis'pä), n. [NL. (Mitchell, 1838), Sp. abispa, now usually arispa, < L. vespa, a wasp?] A peculiar genus of Australian solitary wasps comprising several species. A single female constructs a nest with a funnel-shaped entrance, so large that it appears to be the nest of a colony of social wasps.

abjoint (ab-joint'), v. t. [ab- + joint.] In mycol., to separate by a septum, as in the case of the spores of some fungi. Plow, Brit. Ured.

and Ustil. Gloss., p. 305.

abjunction (ab-jungk'shon), n. [NL. *abjunetio(n-), $\langle L. abjungere$, disjoin, separate: see abjunctive.] In mycol., the separation of spores

junctive.] In mycot., the separation of spotes by means of a septam. ablastic (a-blas'tik), a. Same as ablastous. ablastozoa (a-blas'tō-zō'ä), n. pl. [NL., < Gr. à-priv. + βλαστός, germ, + ζῷον, animal.] Animals without germ-layers; Protozoa. Eimer, Organie Evolution, p. 70.

abnormal channel.
abfarad (ab'far'ad), n. [ab(solute) + farad.]
A name proposed for the c. g. s. unit of electrical capacity; 1×10^{-9} farads or 1×10^{-15} microfarads.

bhanry (ab'hen'ri), n. [ab(solute) + henry.]

hand abevacuation, n. [ab(solute) + farad.]

organic Evolution, p. 70.

ablation, n. 4. (b) The washing away by rains of the lighter particles yielded by the decay and weather-waste of rocky ledges, whereby the heavier and more resistant minerals are left behind in a state of residual concentration, sometimes affording a body of ore.

able, a.—To spell able, to be able; to have all the ability or strength needed (for some particular purpose).

ablepharia (ab-le-fā'ri-ä), n. [NL., < Gr. ἀβλέφαρος, without eyelids: see ablepharon.] Same as *ablepharon.

ablepharon (a-blef'a-ron), n. [Gr. ἀβλέφαρος, without eyelids, < ά-priv. + βλέφαρον, eyelid.] Absence, through disease or congenital defect, of one or both eyelids.

abmho (ab'mō), n. [ab(solute) + mho.] name proposed for the c. g. s. electromagnetic unit of conductance, admittance, or susceptance; $I \times 10^9$ mhos.

abmodality (ab-mō-dal'i-ti), n. $\Gamma^*abmodal +$ -ity.] Exception to or deviation from a statistical normal or mode when this is considered, for statistical purposes, as a fixed standard which living beings or their measurable qualities may approach or from which they may recede. See model, 4.

eede. See model, 4.

Statistical Biology seeks to determine the exact status of species as regards variation, expressed in modes, abmodalities and abnormalities; the direction, rate, and causes of variation in species; the suppression of old modes, the rise of new ones, and the shifting of modes; and the inheritance and permanency of these characters and changes. With such data, accurately determined for a number of species for a period of years, it will be possible to test the validity and broad application of some of the fundamental theories upon which modern Biology is built.

Showertal (ab-mar'tal) a. [ab-+ mortal.]

abmortal (ab-môr'tal), a. [ab- + mortal.] In med., situated or directed away from the injured or dead part: applied to the course of the

electrical current in an injured muscle.

abneural (ab-nū'ral), a. [ab- + neural.] Relating to or situated on the side of the body

farthest from the neural axis.

abnormative (ab-nör ma-tiv), a. [ab + normative.] Not normative. Applied by Cross, Iddings, Pirsson, and Washington (1902), in their quantitative classification of igneous rocks, to the minerals other than those which go to make up the norm or standard mineral composition by which a rock is classified. When the actual mineral composition of a rock differs from its theoretical or standard composition, the rock is said to have an abnormative mode. See quantitative classification of igneous rocks, under *rock.abnumerable (ab-nū/mera-hl) a. Not nu-

abnumerable (ab-nū'me-ra-bl), a. Not numerable; either having (as a collection) or being a multitude greater than that of all the integer numbers taken collectively. The multitude of all the quantities whose values (like that of π) can be expressed to indefinitely close approximation by means of indefinitely extended decimals is the first abnumerable multitude. There is a second, third, etc. (up to any finite ordinal number), abnumerable multitude, and there is no highest abnumerable multitude. There is no multitude greater than all abnumerable multitudes, since beyond them the individual members of the collection lose their separate identity and merge into one another in true continuity. The multitude of all the numbers considered in the calculus and theory of functions is the first abnumerable multitude, and of higher multitudes mathematicians as yet know little more than that they are logically and mathemstically possible. Also abnumeral.

(ab - nū'me-ral), a. [ab + nuabnumerable (ab-nū'me-ra-bl), a.

[ab- + nu-

aberrate, r.i. 2. In optics, to refract, as a lens, in such a manner that rays varying in wavelength or passing through different zones will have different foci. See aberration, 4. Dolland. [Rare.]

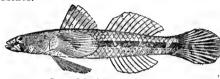
Aberration constant. See constant of aberration, under constant.—Lateral aberration, in the theory of lenses, the product of the spherical aberration and the relative spectrus of the lenst the radius of the circle formed such rates and the starboard tacks aboard (naut.), to bring the weather close of the aboard (naut.), to bring the weather close of the tack-trons in the deck by means of the tack-trons about the tack-tack-trons about the tack-tack-trons about the tack-tack-tro

member of the family Cucurbitaeeæ, from Brazil, grown both for its much-divided foliage and its scarlet, gourd-like fruit. aboideau (a-boi-dô'), v. t. [aboideau, n.] To

improve (a tidal river or stream) and prevent the tidal overflow of its marshes and tidal meadows by placing tide-gates at its mouth.

At first sight it might seem wise to aboideau all rivers at their mouths. Bot. Gazette, Sept., 1903, p. 180.

aboma, n. 2. [cap.] A genus of gobies found in Mexico and Japan, having more than 6 dorsal spines.



Darter Goby (Aboma Etheostoma), (From Bull, 47 U. S. Nat. Museum.)

abondance (a-bon-däns'), n. [F.: see abundanee.] In solo whist, the naming of the trump suit and winning of 9 tricks without the assistance of a partner.—Abondance déclarée. Same as *abondance in trumps.—Abondance in trumps, in solo whist, the winning of 9 tricks with the trump that is turned up, without the assistance of a partner.

Aboral pore, an opening or pore at the end of the body farthest from the month-opening, as in a few Anthozoa. aboriginalism (ab-ō-rij'i-nal-izm), n. The rec-

ognition of the rights of aboriginal races.

abort, v. t. To render abortive; check or arrest the development of: as, to abort a fever.

abortient, a. and n. In pathol., same as abortically

tifacient.

abortion, n.—Missed abortion, expulsion of a fetns sometime after its death.

abortive, a. 8. Preventing full development; arresting the course of, as of a disease: as, abortive treatment.

Aboth (ä'bōt), n. pl. [Heb., pl. of 'āb, father.]
'The Fathers,' otherwise Pirke aboth, 'Chapters of the Fathers': a treatise in the Mishnah consisting of maxims and aphorisms of ancient 'fathers' or rabbis: analogous to the Book of Proverbs in the Old Testament.

aboulic, a. See *abulie.

abrachiocephalus (a-brā*ki- $\bar{\phi}$ -sef'a-lus), n.; pl. abrachiocephali (-lī). [NL., < Gr. ά- priv. + βραχίων (L. brachium), arm, + κεφαλή, head.] A monster without head and arms.

abrader (ab-rā'der), n. [abrade; v. t., + -er1.] Any tool or machine used for abrading; a file, emery-wheel, grinding-, sandpapering-, or de-polishing-machine.

Abrahamt, a. See Abram. Abrahamitic (ā"bra-ham-it'ik), a. Same as Abrahamitical

Abramt, Abrahamt, a. Corrupted forms of auhurn

abranchial (a-brang'ki-al), a. [Gr. ἀ- priv. + βράγχια, gills, + -al.] Having no branchiæ or gills, as certain worms, for example the earthworm, in which respiration is carried on by the moist skin.

abranchialism (a-brang'ki-al-izm), n. [abran-ehial + -ism.] The condition of being abranchial, or without gills, as the Firoloida among

mollusks. Eneyc. Brit., XXX. 796.

Abranchiata, n. pl. 2. A group of macrurous erustaceans having the gills rudimentary or absent. It includes the Mysidæ, or opossumshrimps.

abrastol (a-bras'tol), n. [Gr. \dot{a} - priv. + βραστ-, $\langle \beta \rho \dot{a} \zeta \varepsilon \iota \nu$, boil, ferment, + -ol.] A technical name given to the ealcium salt of β -naphtholsulphonie acid, $(C_{10}H_6(OH)SO_3)_2Ca+3H_2O$.

It is used as a preservative in wines. abrest, prep. phr. A simplified spelling of

abrotine (ab'rō-tin), n. [abrot(anum) + -ine².] A crystalline alkaloid, $C_{21}H_{22}ON_2$, found in Artemisia Abrotanum. Its solutions give a blue fluorescenee.

absampere (abs'am-par"), n. ampere.] A name proposed for the c.g. s. electromagnetic unit of current; 10. amperes. absarokite (ab-sä'rō-kīt), n. [Absarok(a) (see def.) + -ite².] In petrog., a name applied by

Abysmal clay. Same as *abyssal clay.

Iddings (1895) to a group of igneous rocks oe- absorption-tube curring in the Absaroka mountains in the eastenring in the Assaroka monitarins in the easi-ern part of the Yellowstone Park. Absarokite is usually porphyritic in texture, containing phenocrysts of sugite and olivin in a ground-mass of orthoclase, leucite, augite, olivin, and magnetite. The ground-mass may be glassy and the texture aphanitic or phanerocrystalline. It occurs in dikes and flows. Absarokite is the basaltic end of a series containing, in addition, shoshonite and banakite.

banakite.

abscess, n.—Acute abscess, an abscess occurring as the result of acute inflammation.—Cold abscess, a collection of pus not associated with the ordinary signs of inflammation. It is usually located at some distance from the original point of suppuration, the matter burrowing along lines of fascia or within the sheath of a nussele: in this case also called gravitation abscess.—Dubois's abscesses, nuitiple areas of necrosis occurring in the thymus gland in young children with congenital syphilis.—Gravitation abscess, as form of cold *abscess.—Sterile abscess, tornation of pus after closure of a wound at the points where the sutures are inserted.

Decision (ph. sis*) n. [See abscissen] A part out

absciss (ab-sis'), n. [See abscissa.] A part eut off; specifically, in conic sections, an abscissa (which see). Also abscisse.

abscission, n. 7. In bot., the separation of spores from a sporophore on the disappear anee of the connecting layer.

absciss-layer (ab-sis'la"er), n. In bot., a layer or plane along which separation takes place, abstathenry (ab'stat-hen'ri), n. [See abstat-.] as in the fall of leaves.

abscoulomb (abs'kö-lom"), n. Same as *ab-

absentee, n. 3. An escaped or runaway eonviet: a euphemistic term formerly in use in Anstralia

absohm (abs'ōm), n. [abs(olute) + ohm.] A name proposed for the e.g. s. electromagnetic unit of resistance: 1×10^{-9} ohms.

netic unit of resistance: 1×10^{-9} ohms.

Absolute differential limen or absolute threshold

of difference, in psychol., the just noticeable difference
of sensory atimulus stated absolutely, that is, without regard to the original stimulus of which it is an increment.

— Absolute forest land, land fit only for forest growth.

Also called absolute forest soil.— Absolute form factor.

See *form factor.— Absolute geometry, scale. See
*geometry, *scale.— Absolute sensibility or absolute
sensitivity, in psychol., Fechnera term for sensitivity as
measured by the inverse magnitude of the atimuli applied
to the sense-organ.

absolv, v. t. A simplified spelling of absolve.

absorbd, p. a. A simplified spelling of absorbed. Absorbent screen, in optics, a screen which absorbs certain or all of the rays of light falling upon it. Thus ruby glass is an absorbeut screen cutting off all but the red rays of the visible spectrum.

absorber, n. 2. In a hot-air engine, a part which absorbs heat from the air at one time and gives it out at another; a regenerator.

and gives it out at another; a regenerator.

absorptiometric (ab-sôrp'shi-ō-met'rik), a.

[L. absorptio(n), absorption, + Gr. μέτρον, measure.] Measuring or determining the amount of absorption, as of a gas in a given quantity of a liquid or of radiation in an opaque medium.

— Absorptiometric equilibrium, the relation between the amounts of two or more gases absorbed by the same portion of a liquid with which they are simultaneously in contact.

absorption, n. 1. (e) In elect., the property of the solid dielectric of an electrostatic condenser by which it takes up a part of the charge and retains a part of the absorbed charge, after discharge, as residual charge.

2. In Herbart's pedagogie system, the gradual process of the apprehension of the manifold: a translation of the German vertifing. Otherwise ealled concentration and self-extrangement.

— Acoustic absorption, the absorption of sound-waves either by abody which does not perfectly transmit or reflect such waves or by a body whose frequency of vibration corresponds to that of the waves, so that it is thrown into sympathetic oscillation byresonance.—Atmospheric absorption, the loss of aunlight in passing through the atmosphere. It increases in proportion to the distance of the sun from the zenith, and also in proportion to the shortness of waves of heat or light. Besides the general absorption there is also a so-called "selective absorption" (see selective), in accordance with which each component of the earth's atmosphere absorbs with special intensity certain specific wave-lengths, thus causing dark lines in the optical spectrum, inert bands in the photographic spectrum, ad coid bands in the bolographic spectrum. Absorption is to be distinguished from selective reflection.—Coefficient of absorption, a physical constant used to express the specific absorbing power of a substance. Specifically—(a) In the absorption of gases, the volume of a gas which one volume of a liquid will dissolve. (b) In optics, the constant K in the equation $\frac{A_0}{A_0} = \frac{1}{2\pi K}$ where A_0 is the wise ealled concentration and self-estrangement.

stant K in the equation $\frac{A_0}{A_1} = \frac{1}{e^{-2\pi K_1}}$ where A_0 is the

amplitude of an incident ray, A_1 its amplitude after penetrating to a depth of one wave-length in the absorbing medium, and ϵ the base of natural logarithms.—Disjunctive absorption, in med, a process by which a slough is separated from healthy tissue, a thin layer of the latter in immediate contact with the necrosed portion being absorbed.—Fluorescence absorption, the increased absorption of light by a substance which occurs when the latter iarendered fluorescent.—Selective absorption. See selective. absorption. See selective.

(ab-sôrp'shonstub), n. An instrument for the ab- sorption of gases, consisting of a vertical tube filled with glass beads which are wet with the absorbing material. It has been modified by various experimenters. **abstat**-. [ab(solute) + (electro)stat-

(ie).] In elect., a prefix which it has been proposed to place before the practical electrical units such as the ohm, ampere, volt, and conlomb, to designate the corresponding absolute electrostatic units.

abstatampere (ab'stat-am-par"),
n. [See abstat-.] A name proposed for the absolute electrostatic unit of current; about 3.3×10^{-10}

abstatcoulomb (ab'stat-kö-lom"), n. [See abstat.] A name proposed for the absolute electrostatic unit of elec-

trical quantity; about 3.3 × 10-10 eoulombs. abstatfarad (ab'stat-far'ad), n. [See abstat-.] A name proposed for the electrostatic absolute unit of electrical capacity; about 1.1×10^{-6} microfarads.

A name proposed for the absolute electrostatic unit of inductance; about 9×10¹¹ henrys. abstatohm (ab'stat-ōm), n. [See abstat-.] name proposed for the absolute electrostatic unit of resistance; about 9×10^{11} ohms.

Abstemii (ab-stē'mi-ī), n. pl. A sect of the early church, so called from their use of water instead of wine in the eucharist. They also instead of wine in the eucharist. They also abstained from all use of wine, and from meat and marriage, regarding these things as intrinsically impure. They were followers of Tatian.

abstinence, n. 4. The act of abstaining from specifically, in economics, voluntary abstention from the consumption of anything which one has the power of consuming or using, with the purpose of increasing one's resources or accumulating wealth for future enjoyment.

abstract, r. i.—To abstract from. (b) To separate itself from; occupy a plane or position apart; pursue an independent course.

an independent course.
Physics, which is whofly the science of the senses, abstracts from religion, from morality, and from every kind of knowledge as far as the latter is independent of sense. I say "abstracts from"; I do not say "rejects," or "repudiates," or "denies." Physical science merely attends to its own business.

W. S. Lilly, On Right and Wrong, p. 262.

abstract-concrete (ab "strakt-kon 'krēt), a. Relating both to the abstract and to the concrete; in the Spencerian philosophy, noting those sciences which study abstractly concrete phenomena (physics and chemistry).

Molar physics, molecular physics, and chemistry, dealing with abstract laws of motion and force that are gained from experience of concrete phenomena, and appealing at every step to the concrete processes of observation and experiment, may be distinguished as abstract-concrete sciences.

J. Fiske, Cosmic Philos., 11. 44.

abstraction, n. 6. In gcol., the tapping of the head waters of one stream by another the erosive action of which is more rapid.

betractional demonstration, a demonstration which treats characters, relations, operations, and the like as themselves objects having characters, relations, opera-

abub (ä-böb'), n. [Syr. *abûb !] An ancient Syrian musical instrument, probably a Pan's-

abulic (a-bö'lik), a. Relating to or suffering from abulia. Also aboulie.

abundance, n. 3. In card-playing, same as

*abondanee.

aburahaye (ä"bö-rä-hä'ye), n. [Jap., < abura, oil, fat, + haye, said to mean 'minnow.'] A Japanese name of a fish of the family Cyprinidæ, Sarcocheilichthys variegatus, found in the waters of Japan. Also known as higai.

abusefulness (ab-ūs'ful-nes), u. Capability of being abused or put to a wrong use. Ruskin,

Unto this Last, p. 124.

Abutilon, u. 2. [l. c.] A plant of this genus, generally of a cultivated species. See velvet-leaf, 3, and American jute, under jute².

abutment, n. 2. (c) In a rotary engine, a part provided to cut off the steam pressure from the back or exhanat side of the piston.

abuttal, n. 2. The fact of abutting or of lying

contiguous: as, the abuttal of the land on a highway.

abuv, adv. and prep. A simplified spelling of



sorption-tube

Abysmal clay. Same as *abyssal clay.

abyssal, a. 3. In petrol., applied by Brögger and others to deep-seated or plutonic igneous rocks.

Abyssal benthos. See *benthos and *hypobenthos.— Abyssal clay, fine clay now being deposited on the seafoor in depths exceeding 600-700 fathoms. This material is generally red, purple, chocolate, or brown in color, is made up of impalpable particles free from organic remains, and is regarded by Murray as constituted of fine volcanic materials which have been decomposed in seawater and have accumulated with excessive slowness during immense periods of time. Intermingled with the clay are particles of metallic iron and concretions of manganess oxid. Some geologists regard it as doubtful whether rocks representing such profound occanic deposits are present in existing continental masses; others find parallel conditions suggested in some of the barren and highly colored Silurian and Cambrian slates.

Abyssinian church, gold. See *church, *yold.—Abys-

lel conditions suggested in some of the barren and highly colored Silurian and Cambrian slates.

Abyssinian church, gold. See ★church, ★gold.—Abyssinian church, gold. See ★church, ★gold.—Abyssinian languages, the languages of Abyssinia, some Semitic and others Hamitic. The Semitic class includes: (a) Amiliaric, derived from the sucient Sahean or Himyaritic, introduced from Yemen in southern Arabia, and closely related to Geëz or Ethiopic. (See next.) It has been the official language of Abyssinia since about the year 1300 (when the capital of Ethiopia was removed to Shoa), gradually superseding the ancient Geëz, but adopting its syllabic alphabet (with some modifications and many additions) and a large number of its words, It is the popular language; its literature is comparatively modern and slight. (b) Ethiopic, called by its users the Ge'ez, usually written Geëz, the language of the Aga'azi, 'emigrants' from southern Arabia who had settled in Tigré (now a province of Abyssinia) about 335 A. D. Superseded by Amharica as the official language of the itingic language of the Abyssinian Church, somewhat as Latin in the Roman Catholic Church. Originally written, like the other Semitic languages, from right to left, the direction was early changed, under Greek influence, to the European order (from left to right). The alphabet consists of peculiar characters of Himyaritic origin. There is considerable literature, including an ancient translation of the Bible. The two principal modern representatives of Geëz are the dialects known as (1) Tigré, (Tigré, Tigrai, native Tigrai), spoken by nomadic tribes in the extreme north, and (2) Tigriña, a more corrupt form largely mixed with Amharic words, as spoken in the old province of Tigré. The Hamitic family is represented in Abyssinian by Aggau (Agou), spoken by a large number of Abyssinians and Tigré people, by Galla, and by many others.

A. C. (3) In elect., an abbreviation for alternatby many others.

A. C. (3) In elect., an abbreviation for alternating current. (4) An abbreviation of Analytical Chemist.

ac₀, ac₁, ac₂, ac₃, etc. Points of flexure in the heating curves of iron and steel. The point The point ac1 on heating is the same as ar1 on cooling,

acacanthrax (ak-a-kan'thraks), n. [NL., \langle Gr. $\dot{a}\kappa\kappa\kappa\rho_{\mathcal{G}}$, not bad (\dot{a} - priv. $+ \kappa\kappa\kappa\dot{\rho}_{\mathcal{G}}$, bad), $+ \dot{a}\nu\theta\rho\sigma\xi$, carbuncle: see anthrax.] Non-specific anthrax; carbunele.

acacetin (a-kā'se-tin), n. [acacia + -et- + in^2 .] A compound, $C_{16}H_{12}O_5$, found in the leaves of Robinia Pseudacacia. It is probably the monomethyl ether of *apigenin (which see).

acacia, n.— Parasol acacta, a variety of the common locust or false acacia. It forms a compact spherical head and, though not producing flowers, is much cultivated in central and northern Europe for decoration and shade.

academic, n. 3. A member of an academy or learned society; an academist or academician. Swinburne, Essays and Studies, p. 372. N. E. D.

academicalism (ak"a-dem'i-kal-izm), n. [academical, a., + -ism.] Adherence to academic rules or methods; conventionalism; formalism. Athenæum (quoted in N. and Q., 8th ser.,

academicism, n. 2. A tendency toward Platonic opinions.

academize (a-kad'em-īz), v. t.; pret. and pp. academized, ppr. academizing. [academy + -ize.] To form into an academy, or subject to the rules of an academy. Daily Telegraph, May 4, 1868. N. E. D.

4, 1868. N. E. D.

Academy of music. (a) A local musical society or corporation, founded either for the support of musical education or for research connected with musical science. (b) An operatic company or choral club organized for the study and rendering of musical works. (c) A building devoted to the rendering of musical works. The most tamous of the many Italian academies is that of Bologna, founded in 1482. The French Academy, which is a royal subvention for the performance of opera, really dates from the privilege granted in 1669. The earlier operas of Handel were largely written for an operatic association called the Royal Academy.

See relret- Acadian. I. a.—Acadian hairstreak. See *hairstreak.—Acadian owl. Sec *outl.

II. n. 2. In geol., the middle division or stage of the Cambrian system of castern North America, named from its typical development in Nova Scotia and New Brunswick, but extending into Newfoundland, Cape Breton, and eastern Massachusetts, and perhaps farther south in the Appalachian region. Pale-ontologically it is known as the Paradoxides horizon, contrasting with the Olenellus horizon, or Georgian stage, below, and with the Dicellocephalus horizon, or Saratogian stage, above. Its rocks are chiefly slates and shales.

Acajon oil, a fat oil obtained from the acajou or cashewnut, Anacardium occidentale, used for food and in cooking in Brazil and the West Indies.

Acalephæ, n. pl. 2. A class of Calenterata, including medusæ of considerable size, with gastral filaments, endodermal gonads, and lobed umbrella-edge, and without true velum: contrasted with Hydromedusæ and Actinozoa. Same as Acraspeda, acalyptrate (ak-a-lip'trāt), a.

tratr.] In bot., not furnished with a calyptra; in entom., of or belonging to the Acalyptratæ. acamp (a-kamp'). adr. [a3 + camp.] To the eamp; campward. J. Barlow, Columbiad, vi.

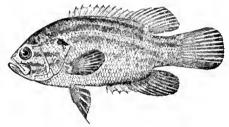
a candelliere. 2. Said of a style of decoration frequently found on the majolica of Urbino, Castel Durante, and other manufactures, consisting of animal grotesques arranged symmetically around the border or on either side of a central design.

acanth (a-kanth'), n. [acanthus.] Same as acanthus.

acanthas, 2.

acanthad (a-kan'thad), n. [NL., $\langle Acanthus + -ad. \rangle$] A plant of the Acanthus family.

Acantharchus (ak-an-thär'kus), n. [NL., $\langle Gr. \ \dot{a}\kappa a r \theta a.$ a thoru, $+ \langle ? \rangle \ \dot{a}\rho \chi \rho c.$ rectum.] A



Mud.sunfish (Irantharchus nomatic). (From Bull, 47 U. S. Nat. Museum.)

Acantharia, n. pl. 2. One of the four sub-orders into which Haeekel divides the Radioorders into which Haeckel divides the Analogue laria: characterized by having the capsule-membrane uniformly perforated and the skeleton composed of acanthine spicules.

The species is A. exoletus. of anal spines. The species is A. exoletus. thorn, spine, $+\lambda o \gamma ia$, $\langle \lambda i \gamma e \nu \rangle$, speak.] The study of the structure and functions of spines, study of the structure and functions of spines,

Acanthephyra (ak-an-thef'i-ra), n. [NL.] The typical genus of the family Acanthephyride. Milne-Edwards, 1881.

Acanthephyridæ (a-kan-the-fī'ri-dē), n. pl.

[N1., \ Acanthephyra + -idw.] A family of macrurous podophthalmous crustaceans mainly inhabiting the deep sea. They have the body laterally compressed, the first antenne with 2 long flagella, and the first two pairs of trunk-legs slender and subequal. The typical genus is Acanthephyra. Also Miersiide.

Acantherpestes (a-kan-thèr-pes'tēz), u. [Gr. άκανθα, spine, + ἐρπηστής, a reptile.] A genus of Carboniferous myriapods, some of the members of which attained a length of a foot. They were armed with brauching spines and appear to have had lateral branchial pores; hence they are regarded by Sendder as amphilibions.

acanthin, acanthine (a-kan'thin), u. $\frac{\partial \kappa a v \theta a}{\partial t}$, thorn, $\frac{1}{2} - i n e^2$.] An organic substance, allied to horn or chitin, which enters into the composition of the spicules in the nonsilicious Radiolaria.

acanthine, a. 3. In ichth., spine-like; bearing

acanthinic (ak-an-thin'ik). a. Composed of

or containing *acanthin (which see).
acanthinous (a-kan'thi-nus), a. [acauthin + Consisting of or resembling acanthin, -ous.] Consisting of or resembling acanthin, acanthion (a-kan'thi-on), u. [NL., \langle Gr. $\dot{a}\kappa\dot{a}v$] θ tor, dim. of $\dot{a}\kappa\alpha\nu\theta a$, a spine.] In craviom, the extreme point of the nasal spine. Von Török. Acanthistius (ak-an-this'ti-us), n. [NL., <

Gr. ἀκανθα, spine, + ἰστίον, dim. of ἰστόν, a web.] A genus of serranoid fishes allied to Plectropoma: found in South America and elsowhere.

Acanthobatis (ak-an-thob'a-tis), n. [Gr. akav- θa , spine. $+ \beta aric$, skate, roach.] A genus of acanthophraetæ. acanthopodous (ak-an-thop' δ -dus), a. [Gr. akav- θa , spine and Würtemberg. acanthopodous (ak-an-thop' δ -dus), a. [Gr. akav θa , spine, $+ \pi ai \varsigma$ (πab -), foot, + -ous.] 1. In bot., bearing spines on the petiole or pe-

[NL., \(\lambda\), \(\lambda\) A family of tetrabranchiate cephalopods or ammonites which have evolute or loosely coiled whorls

The species are from the Cretaceous system. **Acanthochætodon** (a-kan-thō-kē'tō-don), u.

[NL., \(\rightarrow\) Gr. akarba, spine, \(\pm\) \(\alpha\tau\), hair (bristle), \(\ph\) books, tooth (see Chætodou).] A genus of chætodontids, the butterfly-fishes of the East

Indies. **Acanthocladia** (a-kan-thō-klā'di-ā). *n.* [Gr. Acanthocladia (a-kan-thō-klā'di-ā). *n.* [Gr. The typiάκανθα, spine. + κλάδος, a branch.] The eal genus of the family Acanthocladiidæ.

Acanthocladiidæ (a-kau#thō-kla-dī'i-dē), u.pl. A family of eryptostomatons Bryozoa, represented by genera which occur in geologic formations from the Silurian to the Permian.

Acanthocottus (a-kan-thô-kot'us). n. [NL., Gr. $\delta \kappa a r \theta a$, spine, $+ \kappa \delta \tau \tau o \varsigma$, a river-fish (the bullhead?): see Cottus.] A genns of sea-scul-

pins. Earlier called Myoxocephalus.

Acanthocybium (a-kan-thō-sī 'vi-um), u. [NL.,
⟨ Gr. ἀκαιθα, spine, + (?) κύβος, a die, a vertebra.] A genus of mackerels, family Scombridæ, of the tropics, remarkable for the elongate form and serrate teeth. The peto or wahoo of the West Indies, A. petus or A. solandri, belongs to this genus.

acanthocyst (a-kan'thō-sist), n. [Gr. ἀκανθα, thorn, + κεστες, bladder.] In the Nemertini, a sae or an enormous cell containing one or

more calcureous stylets.

Acanthodei, n. pl. 2. In Agassiz's classification, an order of selachians or sharks having the endoskeleton and parts of the skull ealei-fied; pterygoquadrate articulated with the eranium and sometimes bearing teeth; fins, except the caudal, with stout anterior spines; and shagreen scales quadrate and compactly arranged. The members of this order are all fossil and belong wholly to the Paleozoic formations. Two families are distinguished, the Acanthodidæ and the Diplacanthide

acanthodian (ak-an-thō'di-an), a. and n. [Acanthodes.] I. a. Belonging to or having the characters of the genus Acanthodes or the order

Acanthodei.

II. n. A fossil fish of the genus Acanthodes. genus of sunfishes of the family Centrarchidæ, Acantholabrus (a-kan-tho-labrus), n. [NL., including the mud-sunfish, 1. pomotis.
Acantholabrus (a-kan-tho-labrus), n. [NL., including the mud-sunfish, 1. pomotis.
Acantholabrus (a-kan-tho-labrus), n. [NL., including the mud-sunfish, 1. pomotis.
Acantholabrus (a-kan-tho-labrus), n. [NL., including the mud-sunfishes of the four sub-labrus).] A genus of labroid fishes of the north of Europe, having an increased number of anal spines. The species is A. croletus.

especially of those of sea-urchins.

Acanthomeridæ (a-kan"thō-mer'i-dē), n. pl. Acanthomeria (a-kan*tho-ner 1-te), n. μ . [Nl., \langle Acanthomera, a genus (\langle Gr. $\dot{a}\kappa a \nu b a$, a thorn, spine, $+ \mu \dot{\epsilon} \rho o c$, a part (or $\mu \eta \rho \dot{\phi} c$, thigh $\dot{\tau}$)), $+ -i d \bar{x}$.] A family of dipterous insects confined to America and containing only two genera, Acanthomera and Rhaphiorhynchus. They are allied to the gaddies of the family Tabanidæ. The family contains the largest Diplera known, some of them reaching a length of two inches.

acanthometran (a-kan-thō-met'ran), a. and n. I. a. Pertaining or relating to the genus Acanthometra.

II. n. A member of the genus Acanthometra. acanthometridan (a-kan-thō-met'ri-dan), a. and n. **I.** a. Pe Acanthometridæ. I. a. Pertaining to or resembling the

II. u. A member of the family Acanthometridæ.

Acanthonida (ak-an-thon'i-dä), n. pl. [NL., ⟨Gr. ἀκανθα, thorn, + -an- + -ida.] An order or a family of acantharian radiolarians having 20 spines arranged according to Müller's law (4 equatorial, 8 tropical, and 8 polar). As an order it includes the families Astrolouchidæ, Quadrilonchidæ, and Amphilonchidæ.

Acanthonidæ (ak-an-thon'i-dē), n. pl. Same as *Acanthonida.

acanthophore (a-kan'thō-fōr), n. [Gr. $\dot{a}\kappa a \nu \theta a$, thorn, + -φορος, < φέρειν, bear.] A somewhat conical granular mass which bears the median stylet in the bottom of the eversible portion of the proboscis in certain Metanemertini.

acanthophract (a-kan'thō-frakt), n. One of

Acanthoceras (ak-an-thos'e-ras), n. [Gr. åκαν- $\theta\alpha$, spine, $+\kappa \epsilon \rho \alpha c$, horn.] The typical genus of the family Acanthoceratidæ.

Acanthoceratidæ (ak-an-thos-e-rat'i-dē), n. pl. corals of the family Chætitidæ, one of a set of pores which emerge on the surface in small tubercles. Contrasted with *autopore and \star mesopore.

bearing more or less continuous transverse ribs. acanthopous (a-kan'thφ-pus), σ. [Gr. ἀκανθα, a spine, $+ \delta \psi (\omega \pi)$, eye.] Having spines on or about the eye.

Acanthosoma (a-kan-thō-sō'mä), n. (Curtis, 1824), \langle Gr. ἀκανθα, spine, + σωμε, body.] An interesting genus of pentatomid bugs common to the old and new worlds. A. griseum of Europe is remarkable for the solicitude shown by the female for her young. She not only protects the eggs, but cares for the young for a considerable period after hatching.

acanthosphenote (a-kan-thō-sfē'nōt), a. [Gr. ακαιθα, spine, + *σφηιωτός, < σφηιοῖν, v., < σφήν, a wedge.] A term applied by Mackintosh to the spines of Echinoidea, which are shown by transverse section to consist of a number of wedge-shaped portions radiating from a central axis and separated by bands of porous tissue.

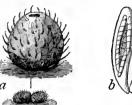
axanthosphere (a-kan'thō-sfēr), κ. [Gr. ἀκατθα, lhorn, + σφαῖρα, sphere.] One of the peculiar spiny bodies contained in the cells of Nitella: the Stachelkügeln of the Germans.

Acanthostigma (a-kan-thō-stig'mä), n. (De Notaris, 1863), named in allusion to the spine - like

the perithecium, < ἄκαν-Gr. thorn, στίγμα, mark, dot, spot.] A of genus pyrenomycetous funhav-

ing superficial

bristles of





Acanthostigma perpusillum. a, two perithecia (below), one enlarged (above); two spore-cases cut longitudically to show the small b, two spore-cases cut in fusiform septate spores.

perithecia beset with short, stiff bristles. spores are mostly fusiform and hyaline with several septa.

The species are mostly saprophytic. *A. parasiticum* is said to cause a disease of the silver fir, *Abies Picea*, in Europe.

Acanthostracion (a-kan-thō-strā'si-on), n. [Nl., ⟨Gr. ἀκανθα, spine, + ὁστράκων, dim. of ὁστρακον, a shell.] A generic name applied to the three-angled box-fishes with horn-like spines above the eyes.

Acanthotelson (a-kan-thō-tel'son), n. [Gr. $\delta \kappa a v \theta a$, spine, $+\tau \ell \lambda \sigma v$, limit: see telson.] A genus of extinet amphipod Crustacca from the

Carboniterous rocks.

acanthozoöid (a-kan-thō-zō'oid), n. [Gr. aκανθα, thorn, + zoöid.] The narrow hookbearing posterior end of the proscolex of certain Cestoidea, as Dipylidium caninum. See *custozoöid.

a cappella. 2. In music, noting a species of time which employs four minims or half-notes

in each measure.

acapulco (ä-kä-půl'kō), n. acapulco (ä-kä-pul'kō), n. [Acapulco, a Mexican seaport.] A name in the Philippine Islands and Guam of Herpetica alata, an introduced plant of Mexican origin, the leaves of which are used as a remedy for ringworm and other

parasitie skin-diseases. See ringcorm-shrub. acara (ä-kä-rä'), n. [Tupi acará.] A name applied to different cichloid fishes found in South America. From the common name the genus Acara was named.

acari (ak'a-ri), n. pl. [Plural of acarus.] The order Acarina as a whole, or any number of species or individuals of the order. See Acarus and Acarina.

acarine (ak'a-rin), a. and n. [NL. *acarinus. (acarus, acarus.] I. a. Like an acarian; of or relating to the order Acarina.

II. n. A member of the order Acarina or of the genns Acarus.- Acarine diseases, diseases such as mange or the itch

acarocecidium (ak a-rō-sē-sid'i-um), n.; pl. acarocecidia (-ä). A plant-gall made by mites: practically the same as *phytoptocecidium

The analogy of these organs to the acaro-cecidia (that is to say, to galls eaused by certain acarids) of laurels and various other plants is striking.

Smithsonian Report, 1896, p. 452.

acarodomatia, n. Plural of *acarodomatium. acarodomatium (ak a-rō-dō-mā'shi-um), n.; pl. acarodomatia (-shi-ā). [NL., ζ Acarus + Gr. δωμάτιον, dim. of δωμα, a house: see domc.] A shelter formed on certain tropical plants for the protection of mites (acari) when they are of service to the host.

acarologist (ak-a-rol'ō-jist), n. [acarolog-y +
-ist.] One who is versed in the study of the

-ist.] One who is versed in Acarina, or mites and ticks.

If that he so, then it appears to me that Dr. Oudemans has proved conclusively that the sense in which acarologists use the genus Oribata is correct.

Annals and May. Nat. Hist., April, 1902, p. 311.

acarology (ak-a-rol'o-ji), n. [NL. acarus + Gr. -λογία: see -ology.] The scientific study of

acatalepsy, n. 3. A weak understanding; mental deficiency.

acatamathesia (a-kat"a-ma-thē'si-ä), n. [NL.. (Gr. a-priv. + καταμάθησις, thorough knowledge, ζκαταμαιθάνειν, learn thoroughly, ζκατό, intens., + μανθάνειν, know well.] Inability to comprehend ordinary conversation, accompanied by a blunting of the perceptions. Buldicin, Diet. of Philos, and Psychol.

acatastasia (a-kat-a-stā'si-ā), n. [NL., ζ Gr. άκαταστασία, instability. ζ ά- priv. + κατόστασις, stability: see catastasis.] In med., irregularity in the symptoms or course of a disease

acatastasis (ak-a-tas'ta-sis), n. [See *acatastasia.] 1. An unsettling, as of the mind. E. Hooker.—2. In med., same as *acatastasia. Syd. Soc. Lex.

acatastatic (a-kat-a-stat'ik), a. Unsettled; in-

determinate; irregular.

acategorical (a.kat-ë-gor'i-kal), a. [a-, not, + categorical.] Illogical; loose; inexact: as, acategorical arguments. [Rare.] N. E. D.

acategorical arguments. [Rare.] N. E. D.
acatharsia, n. (c) Amenorrhea.
acatholic (a-kath'o-lik), a. [a-18 + catholic.]
Un-Catholic; not Catholic; hence, sectarian.
Encyc. Brit., XXX. 525.
A. C. C. In elect., an abbreviation of Anodic
Closure Contraction.

accelerant (ak-sel'e-rant), a. and n. [L. accelerans, ppr. of accelerare, hasten: see accelerate.]

I. a. That accelerates; accelerating.

II. n. That which quickens; specifically, one of the nerves stimulation of which causes increased rapidity of the heart's action.

accelerate, v. t. 3. To assign a date earlier than the true or real one; give an earlier date to; antedate. Milman, Hist. Latin Christianitv. I. 72.

acceleration, n. (e) In hiol., the supposed acquisition of new characters by adults, and their inheritance hy descendants at earlier and carlier stages of their life; the time-rate of angular velocity. It is measured numerically as radians per second per second.— Equation of acceleration. The acceleration of about second per second.— Equation of acceleration of a body is equal to the force acting on it divided by its mass. The acceleration of a moving body at any instant is the rate at which its velocity is changing at that instant: $a = \frac{dv}{dt} = \frac{d^2s}{dt^2}$.

Its velocity is changing at that instant: $a = \frac{a - a}{ct} = \frac{a - a}{ct}$. Equatorial acceleration of the sun, the diminution of the rotation period for points on the sun's equator as compared with the period at points in higher latitudes. Between the equator and latitude 40° the difference is about two days.—Linear acceleration, rate of change of linear velocity: usually expressed in centimeters per second per second.—Parallelogram of accelerations, a vector diagram for the resolution or composition of accelerations, similar in construction and principle to the parallelogram of forces. See force!—Secular acceleration, in astron., a slow increase in the mean orbital motion of a heavenly body. In the case of the moon it amounts to about 8 seconds in a century. See acceleration.—Triangle of accelerations, a vector diagram for the resolution and composition of accelerations, similar to the triangle of velocities or of forces. See *polygon of cectors.—Unit of acceleration, the acceleration which produces unit change of velocity in unit time; usually to the triangle of velocities or of forces. See *polygon of vectors.—Unit of acceleration, the acceleration which produces unit change of velocity in unit time: usually one centimeter per second per second.—Unit of angular acceleration, the acceleration which produces unit change in the angular velocity of a body in unit time: usually a radian in a second.

accelerative, a. 2. In philol., indicating a notion of acceleration.

notion of acceleration: applied to certain verb-forms in some agglutinative languages. See the extract.

The highly agglutinating character of this language [the Kuki-Lushal of North Kachar Hills and parts of

Nagaland] is evident from the numerous conjugations given by Mr. Soppitt, for some of which he has no names, but which may be called Acceleratives, Retardatives, Combut which may be called the Combut which which which may be called the Combut which which plementatives, and so on. Keane, Man Past and Present,

Accelerative force, in physics, a force which produces positive acceleration and consequently increases the velocity of a moving body: opposed to retarding force, the acceleration due to which is negative.

acceleration due to which is negative.

accelerator, n. (e) A device in a motor-car by which the operator may render inoperative the speed governor of the motor. If the governor is of the centrifugal type, as the speed increases the balls or weights fly outward against the action of a spring. The accelerator increases the tension of the spring or draws the balls inward directly, so that the governor ceases to act to close the throttle or regulate speed as the motor increases its number of revolutions above the limit set by the normal tension of the springs.

accelerator-nedal (ak-sel/a-re-tor-ned/fel)

accelerator-pedal (ak-sel'e-rā-tor-ped gl), n. A pedal used to actuate the rods of the accelerator mechanism in many forms of motor-car.

See *accelerator (e).

accelerograph (ak-sel'e-rō-graf), n. paratus designed for measuring the succession of pressures developed in a powder-chamber by the combustion of a charge. The powder may be exploded in an inclosed vessel or be placed in the bore of a gun and act on a projectile.

acceptate cause: a use of the word proposed by J. M. Baldwin. instrument for measuring the force required accipenserin, n. See *acipenserin. to start a train and keep it going and the cenacclimatable (a-kli'mā-ta-bl), a. Acclimatizatrifugal force when the train rounds a curve. The instrument consists of two class weaches are trained by J. M. Baldwin.

[Rare.] N. E. D. accelerometer (ak-sel-e-rom'e-ter), n. 1. The instrument consists of two glass vessels connected by a tube, one containing a liquid such as mercury and the other red alcohol. Amer. Inventor, July 15, 1904, p. 312. 2. An apparatus for showing by direct registry

the law of the movement, in the function of time, of a piston subjected to the action of powder gases.

accensor, n. 2. In the early Christian church, the one who lighted and extinguished the candles on or about the altar. This office is now

dles on or about the altar. This office is now performed by an altar-boy.

accent, n., 8. Musical accent in general is said to be transferred, or false, when for esthetic reasons it is placed in some unusual place, contrary to the simple rhythm: thus in a syncopated passage (see syncopation, 2) the accents are systematically transferred. In ridin-taying, an accent is called deat when the bow is held firmly against the strings after beginning an emphatic tone, so as to choke the sound.

10. In decorative art, an added relieving or

10. In decorative art, an added relieving or contrastive tonch or tint: as, deep blue or crimson, with accents of gold.—Logical accent.

(a) The accent or stress placed by the voice on the root-syllable of a word, as in Anglo-Saxon and other Teutonic languages: as, for example, Anglo-Saxon and other Teutonic languages: as, for example, Anglo-Saxon giran, to give, forgivenes, forgiveness, etc. (b) The special stress or example, on 'us' in the line, "Better for us, perhaps, it might appear" (Pope, Essay on Man, I. 169). Latham, English, II. 45.—Primary accent. (a) The principal accent or stress in a word of several syllables. In English, as a rule, it falls on a root-syllable, as in shep'herdess, nunnt'-ural, impos'sible; or on the first syllable; but the fact depends upon the history of the word in question, and cannot be reduced to one or two rules. (b) A character, nsually (), used to mark such an accented syllable.—Rhythmical accent, accent depending on rhythm as associated with quantity or pitch.—Secondary accent. (a) A second or minor accent or stress heard in the pronuciation of some words with two or more syllables, preceding or following that bearing the primary accent. (b) A character, usually ("), used to mark such an accent. (b) A character, usually ("), used to mark such an accent. (b) A character, usually ("), used to mark such an accent. (b) A character, usually ("), used to mark such an accent. (b) A character, usually ("), used to mark such an accent. (b) A character, usually ("), used to mark such an accent. (b) A character, usually ("), used to mark such an accent. (b) A character, usually ("), used to mark such an accent. contrastive touch or tint: as, deep blue or

accentualist (ak-sen'tū-al-ist), n. [accentual + -ist.] One who holds to a particular theory [accentual of accent.

acceptance, n. 4. Acceptableness; the quality of being acceptable. Browning, Ring and Book, ii. 835.—Acceptance of persons, favoritism; partiality.—Proposal and acceptance. See *proposal. acceptive, a. 2. Fitting; appropriate. Mrs. Browning, Loved Once.

access, u. 8. In the Rom. Cath. Ch., same as accession, 6.

accession (ak-sesh'on), r. t. To enter in the accession-book of a library. See *accessionbook.

accession-book (ak-sesh'on-buk), n. A blankbook in which the titles of the books or vol-umes received by a library are entered in the order of their receipt, with all the necessary details regarding them, such as date of entry, accession-number, class-number, author, name of publisher, place and date of publication, size, number of pages, etc. J. C. Dana, Library Primer, p. 77.

accession-number (ak-sesh'on-num'ber). n. The number given to a volume when it is entered in the accession-book of a library, showing the order of its receipt.

accessorius, a.—Lateralis accessorius, the accessory lateral line; in fishes, one or more series of mucous tubes in addition to the usual series called the *lateral line*.

the matter of thought a notion of the ground of its coherence. See the extract.

That peculiarity of thought which will govern the whole of our subsequent exposition lies in the production of those accessory and justificatory notions which condition those accessory and justificatory notions which the form of our apprehension.

Lotze (trans.), Logic, Introd., §7.

4. In geol., noting those minerals which are present in relatively small quantities in a rock and are not mentioned in its definition, such as and are not mentioned in its definition, such as zircon, apatite, and magnetite in granite: contrasted with essential.—Accessory germ-plasm. See *germ-plasm. Accessory ldioplasm. See *idioplasm.—Accessory parts or voices, in music, parts or voices which supply an accompaniment to those which are principal or essential.—Accessory signs, in pathol., customary or constantly attendant signs.

II n 4 In expan. In pathol.

II. n. 4. In organ-building, same as accessory *stop.

Accident yield. See *yield.
Accidental variations. See *rariation.
accidentalism, n. 4. In philos., the opinion that events are sometimes modified without adequate cause: a use of the word proposed

ble. [Raro.] N. E. D.

Acclimation fever. See *fever¹.

acclimatize, v. II. intrans. To become cli-

matically accustomed or habituated to a new locality or to new conditions.

accolent (ak'ō-lent), a. and u. [L. accolens (-ent-), ppr. of accolere, awell by, \(\) ad, to, \(+\) colere, till, dwell: see cult. \(\) Dwelling near by; one who dwells near by.

The close resemblance between the skulls of the ancient The close resemblance between the skulls of the ancient Cibolans and those of the accolents of the Gilu-Salado has been commented on by others. J. W. Fewkes, in Smithsonian Report, 1896, p. 519.

accommodation, n. 5. In biol., a change which is brought about in a living being by its own activity and is not transmitted to its descendants, as contrasted with a variation regarded as a congenital change which is not the effect of the activity of the organism and is transmitted to descendants; an acquired character.—6. In genetic psychology, the reverse of habit. It implies modification of function or type, and finds expression in selective thought, interest, etc. Baldwin, llandbook of Psychol., p. 49.
7. In theol., the theory that God in his revela-

tion so modifies its teaching that it meets the needs of man, who is limited in knowledge and holiness. So God's law is accommodated to the hardness of man's heart, and his truth to ignorance.—8. A public coach with seats inside for twelve persons, and with an entrance on each side. The body was hung on leather thorough-braces after the manner of the post-chaise. It was first used in New York on Broadway between Wall and Bleecker streets. Its successors were the sociable and the omnibus. streets. Its successors were the sociable and the omnibus,
—Absolute accommodation, that of one eye aeting
independently of its fellow.—Accommodation phosphenes. See *phosphene.—Limits of accommodation, in physiol, and psychological optive, the nearest and
farthest points at which an object can be seen single; also
termed range of accommodation.—Line of accommodadation, in psychological optive, the portion of the line of
sight for points in which the same degree of accommodation is sufficient.—Range of accommodation. See
limits of *accommodation.—Relative accommodation, that effected by the two eyes acting together.

tion, that effected by the two eyes acting together.

accompaniment, n. (a) An accompaniment is said to be obbligate when it so far differs from that which is accompanied that it is necessary for the intended effect, but ad libitum when it so nearly coincides with that which is seconpanied that it may or may not be used, at will. The form of an accompaniment is specifically described by terms such as arpeggio, jagured, pulsatile, harmonic, contrapanial, running, etc., and its character is indicated by naming the instrument or other apparatus by which it is provided: as, a piano accompaniment, a chorus accompaniment, etc.—Accompaniment figure, in music, a small pattern of notes which is used again and again, with but slight modifications, so as to form a continuous background or framework for a solo or other principal melody. The so-called Alberti buss is one variety of accompaniment figure; but the term is extended to cover melody. The so-called Alberti buss is one variety of accompaniment figure; but the term is extended to cover much more elaborate melodic figures which are repeated in accompaniments.

accordatura (a-kôr-dä-tö'rä), n. [It., < accordare, accord, v.] The normal series of tones to which the strings of a stringed instrument, such as the violin, are tuned: any deviation from this series is called scordatura. Sometimes written accord.

according, adv.—According to Gunter, reckoned, determined, ascertained, or laid down in accordance with, or by means of, the rule, scales, tables, or instruments devised by Edmund Gunter (1581-1626), a noted English mathematician; hence, exact or exactly; accurate or according

accordion, n. II. a. Resembling in its folds

the bellows of an accordion: as, an accordion camera (one that is extensible), accordion

accordment (a-kôrd'ment), n. -ment.] Accord; agreement; reconcilement. N. E. D.

Joint account, n.—Bureau of accounts. See *bureau.—
Joint account, an account, as in a bank or in some particular course of business dealings, in which two or more persons are conjointly interested, as distinguished from an account in which only one person, tirm, or corporation is interested.—To square accounts, to ascertain, and to pay or receive, the balance due in any particular course of business dealings; settle up by paying or receiving the balance due. account. n_{ij} ceiving the balance due.

accountant, n.—Chartered accountant, a certified public accountant. [British.]

The fiftieth anniversary of the incorporation of chartered accountants in Scotland. Athenæum, Dec. 19, 1903.

accounter (a-koun'ter), n. faccount, v., + countant; a 'teller.'—2. One who keeps or renders, or is required to render, an account,

as a steward of his stewardship.

accounting (a-koun'ting), n. [account, v., +
ing.] It. Reckouing; computation; counting.] 1†. Reckouing; computation; countries.—2. An examination, reckoning, rendering.—2. ing, or balancing of accounts so as to arrive at the true state of any transaction or course of transactions: as, the court ordered an accountg; the parties came to an accounting.—3. aceitillo (ä-sā"i-tēl'yō), n. [Porto Rico Sp., the art or science of keeping accounts; the dim of Sp. accite, oil.] In Porto Rico, a small rinciples or methods of account-keeping; actree, Simarouba Tutæ, the wood of which is The art or science of keeping accounts; the principles or methods of account-keeping; accountancy: as, manufacturing accounting; mercantile accounting. Amer. Accountant's accounting. Manuat, 1, 183.

accountment (a-kount'ment), n. Eaccount v. + ment.] Accounting; responsibility. [Rare.] accouplement, n. 3. In arch., the act of placing two pillars, columns, or pilasters close together gether, so as to form a pair, in contrast with similar pieces which are spaced more widely. Accouplement is rare in classical buildings as we know them, but is common in modern work.

Accra rubber. See *rubber. over red-hot lead oxid. accrete, u. 2. In biol., grown together: said of Acentrogobius (a-sen-trō-gō'bi-us), n. [NL., parts normally separate but naturally grafted.

See accretion, 2.
Accretion, n. 5. In forestry, increase in diameter or height: distinguished from increment, accretion, n. increase in volume.—6. In petrot., a term proposed by Johnstou-Lavis for a mass formed in solution by deposition about a nucleus, as in solution by deposition about a nucleus, as in colite, or upon the walls of a cavity. It standa in contrast to concretion, which is defined by the author named as a mechanical agglomeration about a nucleus.—Accretion borer. See *borer.—Accretion cutting. Same as *accretion thinning.—Accretion thinning, in forestry, a thinning made specifically to increase the rate of growth in diameter of the trees which are left standing.

accultural (a-kul'tū-ral), u. [L. ac- for ad-+ cultura, culture, + -ul.] Obtained by acculturation, or by the adoption of foreign cultural elements.

The invention is at first individual, but when an inven-tion is accepted and used by others it is 'accultural, and the invention of the individual may be added to the in-vention of others, so that it may be the invention of many men.

J. W. Powell, in Rep. Bur. Am. Ethnology, 1897-98, p. xxi.

acculturation (a-kul-tū-rā'shon), n. [L. acfor ad- + cultura, eniture, + -ation.] The process of adopting and assimilating foreign cultural elements.

The process of culture in all the five departments is by invention and acculturation.

J. W. Powell, in Rep. Bur. Am. Ethnology, 1897-98, p. xxi.

acculture (a-kul'tūr), n. [See accultural.] The cultural elements acquired by contact with foreign forms of culture. G. S. Hall, Adolescence, II. 726. acculturize (a-kul'tūr-īz), v. t.; pret. and pp.

acculturized, ppr. acculturizing. [acculture + -ize.] To make the culture of a people similar to that of another; to bring about assimilation of culture.

The arts and industries of the partially acculturized Papago Indians. Smithsonian Report, 1895, p. 44.

accumbent, a. 3. In entom., lying closely, as the scales on a butterfly's antenna.

accumpaniment, n. A simplified spelling of accompaniment.

accumpany, v. t. A simplified spelling of ac-

accumulator, n. 3. (c) In the pressure accumula-tor the displacement plunger is forced into the hydraulic cylinder by a piston which fits a second cylinder and on whose acting face a pressure of steam or air is main-tained from a steam-boller or from a compressed-air pump or reservoir of large capacity. The name accumulator is also given to a storage battery, in electrical engineer-

ing, since the battery may be charged and discharged at different rates, and in the chemical reaction caused by the charging enrrent an electrical energy is accumulated which is discharged when the circuit is completed through the line. The energy may also be accumulated or atored in the form of heat in steam or other heat-transferring medium. In what has been called the regenerative accumulator, for example, steam from the exhaust-pipe of an intermittent non-condensing engine, such as a hammer, a hoisting-engine, or a rolling-mill, is received in a sheet-steel cylinder containing cast-iron plates. The metal mass acts to condense and reëvaporate this exhaust steam, and to accumulate the varying energy of the exhaust, so as to deliver a constant flow of low-pressure ateam to some other form of steam-motor, preferably a condensing some other form of steam-motor, preferably a condensing

Ace in the pot, a dice game in which each player gets rid of a counter for every ace thrown.

rid of a counter for every acc thrown. **a.-c.-e. mixture.** See *mixture. **aceconitic** (as-e-k\overline{0}-\text{nit}' ik), a. [ace(tic) + (a)conitic?] Noting an acid, $C_6H_6O_6$, which is formed by the action of sodium on the ethyl ester of bromacetic acid. It is isomeric with aconitic acid.

acedia (ä"sā-dē'ā), n. [Cuban use of Sp. acedia, a flounder.] A Cuban name for a species of tongue-fish or sole, Symphurus plagusia.

acediamine (as-e-di-am'in), n. [Appar. ace(tic) + di-2 + umine.] A substance CH₃C(NH)-NH2. Also acetamidine.

acefalous, a. A simplified spelling of ucepha-

strong, durable, and well suited to all kinds of coarse carpenter-work.

ace-line (ās'līn), n. ln hand-ball and similar sports, a line used in marking the courts.

acenaphthene (as-e-naf'thën), n. [aec(iic) + naphthene.] A hydrocarbon, $C_{12}H_{10}$, obtained from coal-tar and also prepared artificially by heating a-ethylnaphthalene.

acenaphthylene (as-e-naf'thi-len), n. [ace(tic) + naphthylene.] A hydrocarbon, C₁₂H₃, formed when the vapor of acenaphthene is passed

ζ Gr. ἀκεντρος, without sting, spine, or spur, + L. gobins, goby.] A genus of Asiatic river gobies, little different from Ctenogobius.

Acentropus (a-sen'trō-pus), n. [NL. (Westwood, 1835), < Gr. ά-priv. + κέντρον, spine, + ποίς, foot.] An anomalous genus of pyralid ποίς, foot.] An anomalous genus of pyralid moths of the subfamily Schænobiinæ, which contains the most completely aquatic forms of the order Lepidoptera. The larvæ live below the surface of the water on the leaves of aquatic plants, but have no air-gills. Their method of respiration is unknown.

acentrous (a-sen'trus), a. [Gr. à- priv. κέντρον, center.] Without a center; specifically, noting a condition of the vertebral column found in some batrachians and fishes, in which bony neural arches are associated with a persistent notochord which shows no trace of segmentation: said also of cells in which a centrosome or centrosphere cannot be detected.

acephal, n. 2t. An animal or living being supposed to be headless; one of the Acephali. Topsett, Four-footed Beasts. N. E. D.

1ts evolution has been acephalic, diffuse, or headless.

L. H. Bailey, Survival of the Unlike, p. 16.

Acephalina (a-sef'a-li'nä), n. pl. [NL., as acetaldehyde acephal(ous) + -ina².] A group of Eugrega- (as-et-al'dērinæ, or a suborder of Gregarinida, in which hīd), n. [ace the body is non-septate and there is no epimerite at any stage. They are chiefly cœlomic parasites. Monocystis is an example. Same as Monocystidea.

acephaline (a-sef'a-lin), a. [NL. acephalinus (neut. pl. Acephalina), (Gr. ἀκέφαλος, headless: see acephalous.] Resembling the Acephalina, or having no epimerite, as certain Gregarinida.

A small sporozoite penetrates into a blood corpuscle and there grows, assuming all the characters of a small acephaline Gregarine. Encyc. Brit., XXXII. 814.

acephalism (a-sef'a-lizm), n. The opinions and practices of the acephalists, or those who acknowledged no ecclesiastical superior. See Acenhali.

acephalocyst, n. 2. A sterile echinococcus

acephalophorous (a-sef-a-lof'o-rus), a. [Gr. \dot{a} -priv. + $\kappa \epsilon \phi a \lambda \dot{\eta}$, head, + - $\phi o \rho o \varsigma$, $\langle \phi \dot{\epsilon} \rho \epsilon \iota \nu$, bear.] Not bearing a distinct head; resembling the Acephalophora.

aceraceous (as-e-rā'shius), a. [NL. Aceraceæ + -ous.] In bot., having the characters of or belonging to the Aceraceæ or maple family.

Acerata (a-ser'a-tä), n. pl. [Gr. ἀκέρατος, without horns, ζά- priv. + κέρας, horn.] In Kingsley's classification of the Arthropoda, a division given rank as a class and coequal with division given rank as a class and coequal with the Crustucca. It is defined as including branchiate arthropods in which the branchial folds act either as gills or as lungs. The body has a well-defined cephalothorax and abdomen, six segments and their appendages appertaining to the former, and the segments more or less fused; a caudal spine or telson; and no antennæ. The Acerataare divided into two groups, the Merostomata, of which Limulus is the only existing representative, and the Arachnida, or spiders, mites, and scorpious.

and the Aracunau, or sphers, mines, and acorphona.

acerate² (as'e-rāt), a. [L. aceratus, mingled with chaff (taken here as 'like chaff.' that is, 'sharp-pointed,' appar. associated with acus (acu-), a needle), 'acus (acer-), chaff.] Needleshaped or rod-shaped: specifically applied to monaxon spicules found in calcareous sponges;

in bot., same as acerose (b).

a cerquate (ä cher-kwä'te). [It. dial. (Perugian): a, with; cerquate, pl., < cerqua=Sardinian kerku (= it. querce, quercia), \(L. quercus, oak: see Quercus. \)] Said of decoration consisting of conventionalized oak leaves and acorns, usually painted in deep yellow on a blue ground. Such decoration is frequently blue ground. Such decoration is frequently found on Italian majolica wares, particularly those of Urbino.

Acervularia (a-ser-vū-lā'ri-ā), n. [NL., < L. acervulus, a little heap, + -aria.] A genus of extinct tetracorals of the family Cyathophyllidæ, abundant in the Silurian and Devonian formations. They grow in bushy colonies, and have stout septa, tabulæ in the central area, and the peripheral zone filled with vesicular tissue.

acervulus, n. 2. The fruiting pustule of certain fungi, as Glæosporium and related genera, consisting of small dense masses of conidio-phores and conidia formed beneath the epidermis of the host, which bursts and permits the escape of the conidia when they mature.

Acetabularia (as-e-tab-ū-lā'ri-ä), n. [NL., < L. acetabulum, cup. + -aria.] See *acetabu-

acetabulate (as-e-tab'ū-lāt), a. Cup-shaped, as the sucker of certain trematodes.

acetabulum, n. 5. [cap.] A genus of calcareous green algæ, Chlorophyceæ, found in tropical or subtropi-

waters: characterized by an erect axis surmounted by solid cap which consists of numerous radiating chambers.

Also Acetabu-laria. Tourne-fort, 1719. acetabulous

a. See *acetoacetic.

(as - et - al ' dē hīd), n. [acet- a. Acetabulum exiguum, a thallus en-larged; b. Acetabulum exiguum, spores (ic) + alde- with lid. (From Murray's "Introduction hyde.] The al. . . . to Seaweeds.")

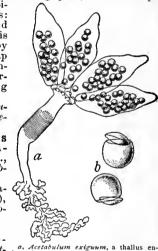
hyde.] The aidehyde CH₃CHO, formed by the oxidation of common or ethyl alcohol. It boils at 21° C., and has a disagreeable penetrating odor.

acetamidine (as-et-am'i-din), n. Same as \star acediamine.

Acetaminoacetic acid. Same as *aceturic

acetaminol (as-et-am'i- \overline{nol}), n. [$acet(ic) + am(monia) + -in^2 + -ol$.] A trade-name for $\pi\text{-acetaminobenzoyleugenol}, \ NH(C_2H_3O)C_6-H_4CO_2.C_6H_3(OCH_3)C_3H_5. \ It is a crystalline substance having antiseptic properties.$

acetanilide (as-et-an'i-lid), n. [acetyl + anilide.] A substance, $C_6H_5NH.C_2H_3O$, formed by heating aniline and glacial acetic acid for several hours, or by the action of acetyl chlo-rid or acetic anhydrid on aniline. Founds.



acetenyl (a-set'e-nil), n. [acet(ic) + -ene + acetoxyl (as-e-tok'sil), n. [acet(ic) + ox(ygen)-yl.] A term used in composition, indicating that a compound contains the group CH:C, derived from acetylene (C_2H_2), as acetenylbenzene, C_6H_5C :CH. It has also been erroneously to designate the group CH2:CH, styrene (C6H5CH:CH2) having also been called acctenulbenzenc.

acetenylbenzene. See *acetenyl. A trade-name for *benzoylacetylperoxid (which acethemin, acethemin (as-et-hē'min), n.

[acet(ic) + Gr. aiµa, blood.] The term applied acetract (as'e-trakt), n. [L. acc(tum), vineto a preparation, $C_{34}H_{33}O_4N_4CIFe$, of hemin gar, + E. (cx)tract.] A selid extract of a drug are time acetract (as'e-trakt), n. said to contain an acetyl group, CH3CO. is derived from the coloring matter of the blood.

Acetin blue. See *blue.

Acetin blue. See *blue.

acetize (as'e-tīz), v. i.; pret. and pp. acetized,
ppr. acetizing. To undergo acetous fermentation; become sour. R. F. Burton.

acetoacetate (as'e-tō-as'e-tāt), n. [acetoacet(ic) + -ate¹.] A salt of acetoacetic acid.

acetoacetic (as'e-tō-a-sē'tik), a. Noting an

acetoacetic (as'e-tō-a-sō'tik), a. Noting an acetaminoacetic acid.

acetylacetonate (as'e-til-a-set'ō-nāt), n. [acetylacetonate (as'e-til-a-set'ō-nāt), n. [acetylacetonete cas'e-til-a-set'o-nāt), n. [acetylacetonete cas'e-til-a-set'o-nāt), n. [acetylacetone + -ate¹.] A saltformed from acetylacetic acid.

Acetoacetic acid.

acetylacetone + -ate¹.] A saltformed from acetylacetone casid.

acetylacetone (as'e-til-a-s'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-to-go (as'e-to-go (a

acetochlorhydrose (as"e-tō-klōr-hī'drōs), [acet(ic) + chlor(in) + hydr(ogen) + -ose.] bitter dextrorotatory compound, C6H7(C2H3-O)₄O₅Cl, formed by the action of acetyl chlo-

rid on d-glucose.

acetol (as'e-tōl), n. [acet(ic) + -ol.] A compound, CH₃COCH₂OH, having the official name I-hydroxypropanone. It is a liquid which boils with decomposition at 147°C. Variously designated as acetylcarbinol, pyroracemic alcohol, hydroxyacetone, and acetone alcohol.

Compound containing a hydroxyl group.

acetylation (a-set-i-lā'shon), n.

-ation.] The treatment of organic with acetic anhydrid in order to de presence and amount of alcoholi presence and amount of alcoholi.

acetolatum (a-set-ō-lā'tum), n. [acetum, vinegar.] An aromatic liquid preparation outained by distilling vinegar containing an es-An aromatic liquid preparation obsential oil.

Acetone alcohol. Same as *acetol.—Acetone chloroform, a compound of acetone and chloroform, (CH₃)₂C-(OH)CCl₃+l₃H₉O. It is crystalline and has an odor resembling that of camphor. Acetone alcohol.

Acetonic acid, a hydroxyisobntyric acid, (CH₃)₂C(OH)-CO₂H, a crystalline acid prepared from acetone. It melts at 79° C.

bisulphid and ammonia on acetone.

acetonitrile (as'e-tō-nī'tril), n. [acctonc + nitrile.] Methyl cyanide, CH₃CN, the nitrile of acetic acid. It is a liquid which boils at

acetonuria (as'e-tō-nū'ri-ā), n. [NL., < acctone + Gr. ovpov, nrine.] The chimination of acetone in the urine: seen notably in diabetes

and in febrile diseases.

acetonyl (a-set'ō-nil), n. [acetone + -yl.] A term used in composition, indicating that a compound contains the group CH3COCH2-, derived from acetone, as acetonylacetone, CH3-COCH₂CH₂COCH₃. It is also used for compounds containing the group (CH₃)₂C., as acetonylurea, (CH₃)₂C.NH

CO.NH

acetonylacetonate (a-set'ō-nil-a-set'ō-nāt), n. [acetonylacetone + -ate¹.] A salt formed from acetonylacetone. See *acetonyl.

acetophenine (as e-tō-fē'nin), n. [acetophen(yl) +-ine².] A weak base, $C_{23}H_{17}N$, formed by the action of ammonia and phosphorus penders.] toxid on acctophenone. It crystallizes in needles which melt at 135° C.

acetophenone (as "e-to-fe'non), n. phen(yl) +-oue.] A compound, C₆H₅COCH₃, formed by the distillation of a mixture of calby the distinction of a mixture of a mixture of a mixture of the distinction of a great variety of compounds. Also **ethylon-phen, *phenylmethylketone, and hypnone.

acetopyrin, acetopyrine (as"e-tô-pi'rin), n. Same as *acopyrin.

aceto-soluble (as "e-tō-sol'ū-bl), a. Soluble in acetic acid: as, aceto-soluble albumin, a form of serum albumin described by Patein as occurring in the urine.

acetoxime (as-e-tok'sim), n. [acet(ic) + oxime.] see achilous.] Congenital absence of one or The oxime ((CH₃)₂C:NOH) of acetone. It is both lips. a volatile solid which melts at 60° and boils at achill (a-chil'), adv. [$a^3 + chill$.] Chilled; 134.8º C.

+ -yl.] 1. Kolbe's name for acetyl.—2. A name for the group CH₂(OH)CO: as, acetoxyl-ylycolic acid, CH₂(OH)CO.CH(OH)CO₂H.—3. A name for the group —O.C₂H₃O: as, acetoxylbutyric ester, CH₃CH₂CH(O.C₂H₃O)CO₂-C₂H₅. [Commonly used as a prefix.] acetozone (a-set'ō-zōn), n. [acet(ic) + ozone.] A trade-name for *benzoylacetylperoxid (which

made with a menstruum containing acetic acid. Buck, Med. Handbook, I. 65.

acetum, n. 2. A pharmaceutical preparation

usually made by percolating a drng with di-

lute acetic acid.

aceturic (as-e-tū'rik), a. [acct-ic + uric.] Noting an acid, the acetyl derivative (C₂H₃-O.NHCH₂CO₂H) of glycocoll or glycin. It melts at 206° C. Also called acetylglycin and aceturic (as-e-tū'rik), a. acetaminoacetic acid.

acetylate (a-set'i-lat), v. t.; pret. and pp. acetylated, ppr. acetylating. [acetyl + -atcl.] To introduce the acetyl group into; especially, to prepare an acetyl derivative of an organic compound containing a hydroxyl- or amino-

-ation.] The treatment of organic substances with acetic anhydrid in order to determine the presence and amount of alcoholic hydroxyl. Same as acctylization.—Acetylation test, the application of this process to glycerol and fatty substances as a part of their chemical examination.

acetylcarbinol (as "e-til-kär'bi-nōl), n. Same as *acetol.

acetylene, n. This gas, C₂H₂, prepared by the action of water on calcium carbide, is now largely used as an illuminant and to increase the illuminating value of coalgas and water-gas of poor quality.

acetylglycin (as "e-til-glī'sin), n. Same as *aceturic acid.

acetonine (a-set'ō-nin), n. [$acctone + -ine^2$.] A very unstable base, $C_9H_{18}N_2$, whose thiocarbonate is formed by the action of carbon or both of the hydrogen atoms of acetylene by a metal. Cuprous acetylide (Cu₂C₂) and silver acetylide (Ag₂C₂) are highly explosive, while the acetylide of alkall and alkaline earth-metals are not explosive.

Achæmenian, a. II. n. A Persian of the time of Achæmenes or the Achæmenidæ; also, the Persian language of that period (recorded in

conciform inscriptions).

achascophytum (a-kas-kof'i-tum), n.; pl. achascophyta (-tä). [Nl., ζ Gr. ά- priv. + χάσ-κειν, to open, dehisce, + φντότ, a plant.] In bot., a plant having an indehiscent fruit.

bot., a plant having an indehiseent fruit.

Achatinellidæ (a-kat-i-nel'i-dē), n. pl. [NL., Achatinella + -idæ.] A family of stylommatephorous, pulmonate Gasteropoda. They have a small bulmod shell, indifferently dextral or sinistral, and a radula of two typea, one having the teeth in very oblique rows, central, laterals, and marginals all of the same type, base marrow, head rather broad, with numerous small denticles (as in Achatinella proper, Auriculella, and Toragelilius). and Tornatellina), the other having the central tooth small and narrow, laterals bleuspid, and marginals as in Helix (Amastra and Carelia).

achenocarp, u. Same as achænocarp

Achernian (a-ker'ni-an), a. and n. [Achernar, the name of a star, + -ian.] I. a. Noting stars similar to Achernar, in the spectrum of which hydrogen, helium, asterium, oxygen, nitrogen, and carbon are predominant: supposed by Lockyer to be cooling.

II. n. An Achernian star.

Acheson graphite, process. See *graphite, moccss

Acheulian (ä-shė'li-an), a. Of or pertaining to Saint-Acheul, in the Somme valley, northern France.—Achellian deposits, in geol. and archæol., paleolithic deposits containing carefully worked flint implements of more recent date than the rude flints found in the Chelléan beds: so named by Mortillet from the occurrence of such relics at Saint-Acheul.

achiev, v. t. A simplified spelling of achieve. achiev, v. t. A simplified spenning of achilia (a-ki'li-a), n. [NL., < *achilus, lipless: see achilous.] Congenital absence of one or

Had . . . the warm breeze grown achill!

Morris, Earthly Paradise, III. iv. 39

Achilles (a-kil'ēz), n. An argument, otherwise called 'Achilles and the Tortoise,' which was proposed by Zeno of Elca to prove that was proposed by Zeno of Elca to prove that motion is impossible. suppose that Achilles runs parallel to the tortoise, which is moving slowly in the same direction and is at the start some distance ahead of Achilles. The argument is that Achilles never will overtake the tortoise, because in order to do so he must first move to the point at which the tortoise started, and when he arrives there the tortoise will again be a certain distance ahead and the same condition of things will be repeated. Hence Achilles will not overtake the tortoise until he has completed or ended a series of advances which has no completion or end. The argument is absurd from both the logical and the mathematical point of view.

achilletin (ak-i-le'tin), n. $\lceil achill(cin) + -ct \rceil$ + -in².] A compound, $C_{11}H_{17}O_4N$, formed by the action of dilute sulphuric acid on achillein. It is a dark-brown powder and is not bitter. achillodynia (a-kil-ē-din'i-ii), n. [Achill(cs tendon) + Gr. odivn, pain.] Pain in the heel.

Achirinæ (ak-i-ri'në), n. pl. [NL., < Achirus + -inæ.] A subfamily of soles, typified by the genus Achirus.

achlorhydria (a-klör-hī'dri-ä), n. [NL., < Gr. a- priv. + chlorhydric + -ia.] Absence of

a- priv. + cutornytric + -a.] Absence of hydrochloric acid from the gastric jnice.

achocon (ä-chō-kōn'), n. [Per. Sp., < a native name.] A name in Peru of a large tree of the violet family, Leonia glycycarpa. It hears a rough yellow edible fruit the aize of a peach, filled with a soft aweet pulp of the same color, and is held in much esteem by the Peruvians. esteem by the Peruvians.

acholic (a-kol'ik), a. [Gr. \dot{a} - priv. + $\chi o \lambda \dot{\eta}$, bile: see *cholic*.] Marked by the absence of bile: see cholic.] bile; free from bile. Lancet, May 30, 1903,

p. 1,498.

achondrite (a-kon'drīt), n. [a-18 + chondrite,]A meteoric stone, or aërolite, containing little or no iron and essentially free from chon-

drules. See *meteorite.

achondroplasia (a-kon-drō-plā'si-ā), n. [NL., ⟨ Gr. ā- priv. + χοιδρος, cartilage, + πλόσις, molding, conformation.] An anomaly of de-velopment marked by deficient cartilaginous growth resulting in a form of dwarfism. The aubject of this affection is very abort and "atocky," with large head and well-developed muscles.

achondroplastic (a-kon-drō-plas'tik), a. [achondro(plasia) + plastic.] Relating to or affected with substantial and the statement of th

affected with achondroplasia.

achordal (a-kôr'dal), α. [Gr. ά-priv. + χορδή, a cord.] 1. Not connected with or developed a cord.] 1. Not connected with or developed from the notechord.—2. Having no spinal

achordate (a-kôr'dāt), a. and n. [NL. *achordates, ζ Gr. ά- priv. + χορδή, chord.] I. a. Having no notochord; invertebrate; belonging to the Achordata.

II. n. One of the Achordata.

achoresis (ak-ō-rē'sis), n. [NL. achorēsis, <

achoresis (ak-ō-rō'sis), n. [NL. achorēsis, ζ Gr. a- priv. + χωρεῖν, make room, eontain.] A cendition of diminished capacity of any one of the hollow viscera, as the bladder.

Achorutes (ak-ō-rū'tēz), n. [NL. (Templeton, 1835), ζ Gr. a- priv. + χωρευτής, a dancer, jumper, ζ χωρεῖευ, dance.] A genus of collembolan insects of the family Poduridæ. It is remarkable for the fact that certain of its species, as A. nivicola of the United States and A. nurorum of Europe, occur frequently in great numbers on the surface of snow. occur frequently in great numbers on the surface of snot They are sometimes called snow-fleas.

achrematite (a-krē'ma-tīt), n. [Gr. ἀχρήματος, without money, ζ ά- priv. + χρῆμα, money: see chrematistic.] A mineral of doubtful character found at the mines of Guanaceré, Mexico. It occurs in masses varying from yellow to red, and consists of the arseniate and molybdate of lead.

Achroma unguinm, in pathol., the presence of white

achromat (ak'rō-mat), n. [G. achromat, < Gr. ἀχρώματος, colorless: see achromatic.] In opties, a lens or system of lenses corrected for chromatic aberration .- New achromat, an achrochromatic aberration.— New achromat, an achromat constructed on modern principles (the theory being far advanced beyond those which determined the construction of the old achromats) and made of the new Jena glass, which renders it possible to give the achromat a flat field.—Old achromat, an achromat made of old-fashioned crown- and filnt-glass, and necessarily having a field which is not flat.

achromatic.

2. In biol.: (a) Colorless;

achromatic, a. 2. In biol.: (a) Colorless; hvaline. (b) Difficult to stain: a term applied to the portion of the cell-nucleus which exhibits little or no tendency to stain in carmine, hæmatoxylin, or certain aniline dyes used in histologic and cytologic technic.—
Achromatic figure, in cytol., the non-staining as opposed to the ataning portion of the karyokinetic figure. See achromatin.—Achromatic mass, in cytol., any non-ataining portion of the karyokinetic figure, such as the substance which accumulates about the poles of the achromatic spindle.—Achromatic *mirror *objective, *ocular, *refractivity, *stereoscope. See the nome.—Achromatic apindle, the protoplasmic threads between the poles of the spindle in karyokinesis, which do not stain.

achromatistous (a-krō/ma-tis/tus), a. Of the nature of or characterized by achromatosis; deficient in coloring matter. Syd. Soc. Lex.

achromatizable (a-krō'mg-tī-zg-bl). a. Capable of being corrected for chromatic aberration. Also spelled achromatisable.

achromatolysis (a-krō-ma-tol'i-sis), u. ά τρωματος, not colored, + λίσις, dissolution.] In cytol., the breaking down or dissolution of the achromatic substance of the cell: opposed to chromatolusis.

achromic (a-krō'mik), a. [Gr. à- priv. + χρῶμα, color.] Devoid of color; colorless. When starch is inverted by diastatic ferments a point is reached where the solution no longer gives a blue color with iodine; this is termed the achromic point of the starch captain. starch solution.

achromin (a-krō'min), n. The achromatin or linin of the nucleus of the cell, as contrasted with the chromatin.

The most common division of the caryoplasm in the cells of the animal and plant body is into two chemically different substances, which are usually called chromatin (or nuclein) and achromin (or linin).

Hacckel (trans.), Wonders of Life, p. 140.

achronism (ak'rō-nizm), n. [Gr. a-priv. + xρότος, time, +-ism.] Lack or deficiency of time; absence of time (in which to accomplish anything). [Rare.] N. E. D. achrooglycogen (ak-rō-ō-gli'kō-jen), n. [Gr. hypergalorles + through 1 A colloid as rho-

άχροος, colorless, + glycogen.] A colloid carbo-hydrate which results from snail-mucin on prolonged boiling with dilute acids or alkalis. On

decomposition it is said to yield glucose.

achylia (a-kī'li-ā), n. [NL., \(achylus, without chyle: see achylous.] Absence of chyle.—

Achylia gastrica, a disease marked by deficient secretion or absence of the gastric juice.

achymous (a-kī'mus), a. [NL. *achymus. \(\) Gr.

ā- priv. + χυμός, juice: see chymc.] Having no chyme.

achyrophytum (ak-i-rof'i-tum), n.; pl. achyrophyta (-tä). [NL., (Gr. aχυρου, chaff, glume + φυτόν, a plant.] In bot., a glumaceous plant,

as grasses, sedges, etc. acicula, n. 5. In bot.: (a) The bristle-like prolongation of the rachilla of a grass-spike. (b) A tooth-like process in the hymenium of certain fungi.

Aciculina (a-sik-ū-lī'nä), n. pl. [NL., < L. acicula. a needle. + -ina.] A suborder of monaxonidan Demospongiæ of the order Hadromerina, having diactine megascleres. cludes the families Epallacidæ, Stylocordylidæ,

and Tethyidæ. Also Aciculinæ.

aciculite (a-sik'ū-līt), n. [L. acicula, a needle,
+-ite².] Same as aikinite.

+ -ite².] Same as aikinite.

aciculus, n. 2. Same as aciculum.

acid, a. and n. I. a.— Acid alizarin blue, brown, green. See *blue, *brown, *green.— Acid color. See *color. For specific acid colors see *acid-blue, acid-green, *acid-red, etc.— Acid dyestuff. Same as acid *color.— Acid intoxication. Same as *acidosis.— Acid leather. See *leather.— Acid mordant color. Same as mordant acid *color.— Acid or acidic oxid. See *xoid.— Acid sap. See *soap.— Acid steel. See *steel.— Acid tar, impure aulphuric acid which has been used in refining petroleum. Also known as sludge acid.— Acid test, tide. See *test!, *tide!.

II. n.— Schaeffer's acid the commercial name of

See πext, πear.

II. n. - Schaeffer's acid, the commercial name of ene of the seven isomeric monosulphonic acids of β-naphthol. It is an important raw material in the color industry. - Scheefe's acid, a 5 per cent, solution of absolute hydrocyanic acid in water.

Acidanthera (as"i-dan-thē'rä), n. [NL. appar.]

I. acidar sour acid + Gr. inthode, flowering

 $\langle L. acidus, sour, acid, + Gr. av \theta \eta \rho \delta \varsigma$, flowering (or NL. anthera, anther.)] A genus of about 20 African and Australian plants of the family Iridacce, intermediate between Gladiolus and Ixia. They are grown indoors in pots, or in the open in summer. The best-known species is A. bicolor, with creamy white, chocolate-blotched flowers in a simple, lax

Acidaspis (as-i-das'pis), n. [NL., < L. acidus, sharp, + aspis (Gr. ἀσπίς), shield.] A genus of trilobites in which the shield bears numerous spinea: characteristic of the Silurian and Devonian formations.

acid-black (as"id-blak'), n. One of the naphthol blacks.—Anthracene acid-black, a mordant acid coal-tar color. In an acid bath it dyes unmordanted wool a black which becomes much faster when after chromed.— Azo acid-black, the name assigned to a mixture of various dyestuffs. It is largely used on account of its good distributing power and the handsome shade, resembling logwood-black, which it produces.

acid-blue (as"id-blo'), n. Same as cyanol *blue.

—Azo acid-blue, an acid dyestuff of the monoazo type, similar to Victoria *violet.—Biebrich acid-blue, an acid

coal-tar color of unpublished constitution, which does wool blue in an acid bath.—Fast acid-blue, a coal-tar color prepared by the action of paraphenetidine upon flucorescein chlorid and the sulphonation of the product. It does wool and silk violet-blue in an acid bath. Also called acidum, an acid, + Gr. \$\phi(\text{loop}\), loving.] Capable riolamine 3B

acid-brown (as"id-broun'), n. An acid coal-tar color of the diazo type, which dyes wool and silk brown in an acid bath.—Azo actd-brown, an acid coal-tar color of unpublished constitution, which dyes wool very level shades of brown in an acid bath.

acid-carmoisin (as "id-kar'mō-i-sin), n. One of the fast reds. See fast red, under red!.

acid-cell (as'id-sel), n. One of the cells at the cardiac extremity of the stomach which secrete the acid constituent of the gastric juice.

acid-cerise (as "id-se-rez'), n. An impure acid-

acid-egg (as'id-eg), n. A form of pumping apparatus for handling liquors which would act chemically upon the moving parts of an ordinary chemically upon the moving parts of an ordinary costs.] Poisoning by certain acids, such as piston or plunger-pump. Chambers which have an elongated spheroidal or egg shape receive the liquor at a low pressure, and, when they are filled, either air or steam under pressure is admitted to them, displacing the liquor through connecting pipes to the desired point.

The pumping of the acida up to the top of the towers is now always performed by means of compressed air, either in theold "acid-eggs," or more economically in "pulsometers."

Encyc. Brit., XXV. 44.

acid-fast (as'id-fast), a. A literal translation of the German "säurfest": applied to a class of bacteria which, when once stained with acid-fast (as'id-fast), a. basic aniline dyes, tenaciously hold the dye on subsequent exposure to acids or alcohol. most notable representative of this group is the tubercle hacillus, and its recognition in the tissues, the sputum, etc., is essentially based upon this "acid-fastness."

acid-fuchsin (as"id-fök'sin), n. Same as acidmagenta .- Fast acid-fuchsin. Same as fast *acid-

acid-gland (as'id-gland), n. 1. One of certain glands found in the pedipalp Arachnida, secreting an acid liquid.

In connection with the acid-glands he describes a convoluted mass of tubules twisting about on each side of the central or right gland, and succeeded in tracing two of these tubules, apparently opening into the left sac.

Proc. Zool. Soc. London, 1902, 11. 171.

2. In entom., one of the glands, found in the honey-bee and other stinging Humanoptera. which secrete an acid liquid. There are also glands which secrete an acid fiquid. There are also glands which secrete an alkaline fluid; and the poison of the inact is effective only when both fluids are mixed. A. S. Packard, Text-book of Entom., p. 358.

3. One of the glands of the stomach secreting

the acid portion of the gastric juice.

acid-green, n. 2. An acid dyestuff, a sulphonated triphenylmethane derivative, which dyes wool and silk green in an acid bath. Acidic oxid. See acid *oxid.

acidifiant (a-sid'i-fi-ant), a. That acidifies

or renders acid; acidifying. acidimeter, n.— Twichell'a acidimeter, a form of acidimeter shown in the accompany-

acidimetric (as "i-di-met'rik), a. Of or pertaining to the acidimeter or to acidimetry; acidimetrical.

acidite (as'i-dīt), n. [acid + -ite.] A term proposed by Von Cotta (1864) for all igneous rocks which are rich in the acid radical silica, as opposed to those which are poor in it, which he called basites.

acidity, n.—Coefficient of acidity, in petrog., a ratio derived from the chemical analysis of a rock by dividing the number of atoms of oxygen contained in the various oxid bases

by the number of atoms of oxygen belonging to the acid radical silica. This ratio is characteristic of certain groups of igneous rocks.

Twichell's Acidimeter.

acidize (as'id-īz), v.t.; pret. and pp. acidized, ppr. acidizing. [acid + -ize.] To treat with an acid; render acid.—Actdizing process, the trade-name of a method of vulcanizing india-rubber by treating it with a solution of calcium or sodium hypochlorite, with or without the addition of an acid.

chlorite, with or without the addition of an acid.

acid-magenta, ".—Azo acid-magenta, an acid color of unpublished constitution, which dyes wool a color resembling that produced by magenta.—Fast acid-magenta, an acid coal-tar color of the monoazo type. It is prepared by combining diazotized aniline with amido-naphthol-diaulphonic acid, and dyes wool and silk a bluish red in an acid bath. Also called fast acid-tackin.

acid-maroon (as"id-ma-ron'), n. A crude acidmagenta.

of being dyed with acid stains: said of cells or parts of cells.

acidophilic (as"i-dō-fil'ik), a. Same as *acidophil.

Special attention has been called by Rosin (24), to the micro-chemical differentiation of the constituents of the cell body, the Nissl bodies reacting to the basic dyes, while the ground substance is acidophilic in character.

F. R. Bailey, in Jour. Exper. Med., Oct. 1, 1901, p. 555.

acidophilous (as-i-dof'i-lus), a. [NL. acidum. acid, + φιλείν, love.] Same as acidophil. acid-orange (as "id-or' ānj), n. Same as orange

II (which see, under orange1).

+ -osis.] Poisoning by certain acids, such as uric acid or the fatty acids, formed within the body under various morbid conditions, such as cancer, diabetes, or fever. Also called acid intoxication.

acid-ponceau (as"id-pon-so"), n. An acid coaltar color of the monoazo type. It is prepared by combining diazotized β -naphthylamine-sulphonic acid with β -naphthol, and dyes wool and silk scarlet in an acid bath. Also called fast acid-ponceau, acid-scarlet or fast acid-scarlet, and ponceau S.

acid-red (as "id-red'), n. An acid coal-tar color which dyes wool red in an acid bath. Also called fast acid-red.

acid-rosamine (as"id-roz-am'in), n. An acid coal-tar color of the xanthene type, which dyes wool and silk a bluish red. Also called violamine G.

acid-roseine, acid-rubine (as "id-rō'zē-in, -rō'bin), n. Same as acid-magenta.
acid-scarlet (as "id-skär'let), n. Same as *acid-

ponceau. Also called fast acid-scarlet.

acidulation (a-sid-\bar{u}-larshon), n. The act or process of rendering (aomething) acid, or of imparting an acid or subacid quality to it.

Acidulous water, a natural mineral water containing a notable amount of free carbonic acid.

acid-violet (as"id-vi'ō-let), n. A name of two coal-tar colors (fast acid-riolet ARR and B) of the xanthene type, of similar composition. They dye wool and silk reddish violet in an acid bath. Also known as violamine R and violamine B.—Fast acid-violet 10 B, an acid coal-tar color of the triphenyl-methane-carbinol type. It dyes wool violet in an acid bath.

acidyl (as'i-dil), n. [acid + -yl.] Same as *acyl (the preferable form).

Acinetaria (as"i-nē-tā'ri-ä). n. pl. Same as Acinetæ. [NL.]

acinetarian (as-i-nē-tā'ri-an), a. and n. I. a. Pertaining to or having the characters of the Acinetaria.

II. n. One of the Acinetaria. acinetic (as-i-net'ik), a. [Gr. a-priv. + κινητός, moved, movable: see kinetic.] That prevents

motion; that deprives of, or causes the loss of, voluntary motion. acinotubular (as'i-nō-tū'bū-lār), a. [NL. acinus, acinus, + L. tubulus, tubule.] Possessing

both acini and tubules: said of certain glands.

Acinous cancer. See *cancer.

acipenserin (as-i-pen'se-rin), n. [Acipenser (see def.) + -in².] A protamin found in the testicles of a fish, Acipenser stellatus.

Aciprion (a-sip'ri-on), n. [NL., $\langle ? \rangle$ Gr. $\delta \kappa i \varsigma$, a point, $+ \pi \rho i \omega v$, a saw.] A genus of true lizards or *Lacertilia* of Miocene age.

acknowledgeable (ak-nol'ej-a-bl), a. [ack-nowledge + -ablc.] That can be acknowledged, admitted, or recognized: recognizable; noticeable

acknowledgedly (ak-nol'ejd-li), adv. [ack-nowledged + -ly.] Admittedly; confessedly. acleistous. See *actistous. acli (ä'kli), n. [Tagalog and Pampanga acli.]

A name in the Philippine Islands of Xylia A name in the runippine Islands of Agent xylocarpa, a valuable timber-tree. The wood is strong and durable and does not take fire easily. It is used in hoat-building and for posts and beams of houses. The bark is saponaceous. See pyengadu. Also

aclistous, acleistous (a-klī'stus), α. [Gr. ακλειστος, not closed, not fastened, < ά- priv. + κλειστός, closed: see clistocarp, etc.] closed: used in crystallography to designate certain open forms of hemimorphic type; also, certain crystalline groups characterized by these forms. See *form, 2, and *symmetry, 6.

aclythrophytum (ak-li-throf'i-tum), n.; pl. aclythrophyta (-tä). [NL., Gr. ά- priv. + κλεί-

with naked or apparently naked seeds; that is, one destitute of a pericarp.

acmatic(ak-mat'ik), a. [Irreg. < acme + -atic^2.
The normal adj. is acmic.] Of or pertaining to an acme. [Rare.] Hyatt, Biol. Lect., p. 141.
acmic (ak'mik), a. [acm(e) + -ic.] Of or pertaining to an acme, specifically to the acme of a complete corresponding to the acme of a corresponding to the performance of the pe genetic series of organisms, or the period when it is richest in genera and species. [Rare.] Amer. Jour. Sci., Oet., 1903, p. 300. acmite-trachyte (ak"mit-trak'it), n. See

*trachute

acmonoid (ak'mộ-noid), a. [Gr. ἀκμων, an anvil, + eldoc, form.] In anthrop., noting a type of eranium high, long, with straight sides, a slight swelling of the parietal protuberances situated very far back, and the occipital resembling a acorn-gall (a'kôrn-gâl"), n. See gall3 and quadrangular pyramid leaning slightly on its eranial base. Species, p. 42.

Acne agminata, a form of acne in which the lesions are grouped together, forming patches of various sizes.—Acne indurata, a form of acne in which the papules are hard and shot-like, deep-seated, and inflamed, but do not always go on to suppuration.—Acne necrotica, a form of acne, affecting chiefly the forehead, in which the papules break down, leaving depressed scars like pockmarks.—Tar acne, a papular eruption of the skin caused by the external application of tar in susceptible persons. acneform (ak'nē-fôrm), a. [Irreg. < NL. acne, acne, + forma, form.] Resembling acne in appearance. Acne agminata, a form of acne in which the lesions are

appearance.

acnemia (ak-nē'mi-ā), n. [NL., < Gr. ἀκνημος, without the ealf of the leg, < ά- priv. + κνήμη, calf of the leg.] Absence or imperfect formation of the legs.

acocantherin (ak-ō-kan'the-rin), n. [Acocanthera (see def.) + -in².] A poisonous glucoside, $C_{32}H_{50}O_{12}$, obtained from an African arrow-poison which is prepared from Acocanthera Abyssinica. In physiological action it

resembles the glucosides of Digitalis.

Acœla, n. pl. 2. A suborder of Rhabdocælida in which the eavity of the enteron is obliterated by the concrescence of its walls, the mouth leading through a simple pharynx directly into the digestive syncetium. It contains the fam-

liles Porporidæ and Aphanostomidæ.

Acœlomata, n. pl. 2. The cœlenterates and sponges considered collectively as animals without a true cœloma, or body-cavity, as distinct from the enteron or digestive eavity. Many-zoologists regard the Metazoa as consisting of two great primary groups: the Accelemata, or sponges and collenterates, and the Collomata, or all the remaining Metazoa.

The cavities of the Acceloma'a, except certain ectodermal pits, are in all cases continuations of the primary central cavity lined by endoderm, and no cavities exist lined by mesoderm comparable to a ccelom.

A. E. Shipley, Zool. of Invertebrates, p. 36.

acoin (ak'ō-in), n. 1. A trade-name for hydroehlorid of diparanisylmonophenetylguanidin, a local anesthetic introduced in 1899.—2. A general name given to a series of derivatives of guanidin similar to the above.

acolous (ak'ō-lus), a. [Gr. ἀκωλος, limbless, ζ a- priv. + κώλον, limb, member.] In teratol., without limbs.

acomia (a-kō'mi-ä), n. [NL.. < Gr. ἀκομος, without hair, < ά- priv. + κόμη, hair: see coma¹.] Same as alopecia.

aconate (ak'ō-nāt), n. [acon(ic) + -ate1.] A

salt derived from aconic acid. **acone** ($\tilde{a}'k\tilde{o}n$), a. [$a^{-18} + cone$.] In entom., lacking the cone or crystalline lens. In insects having acone eyes the cone or refracting body is represented only by the four primitive cone-cells. Distinguished from *eucone and *pseudocone.

Acone eyes, where the cone or refracting body is w ing, but is represented by the four primitive cone-cells.

A. S. Packard, Text-book of Entom., p. 252.

aconic (a-kon'ik), a. [acon(ile) + -ie.] De-

rived from aconite: distinguished in chemistry from aconitic. Aconic acid, an acid formed by boiling iotadibrompyrotartaric sold with water or with a solution of sodium carbonate. It is easily soluble in water and melts at 164°C.

aconital (ak' ô - ni "tal), a. [aconite + -al.]

Characteristic of aconite: as, aconitul bitter-

aconite, n. 2. An extract or tineture of this plant, used as a poison and as a medicine. acoprosis (ak "o-prō'sis), n. [acopr(ous)

-osis.] Absence of fecal matter from the intestine.

acoprons (a-kop'rus), a. [Gr. ἀκοπρος, with no or little exerement, ζ ἀ- priv. + κόπρος, exerement.] Without feeal matter in the bowels; characterized by acoprosis.

to anarchism. L. F. Ward, Psychic Factors of Civilization, p. 319.

Acræides (a-krē'i-dēz), n. pl. [NL. (perhaps erroneonsly transferred, as if NL., from a F.

θρον, a bar, + φντόν, a plant.] In bot, a plant acopyrin, acopyrine (ak- $\bar{ο}$ -p̄r'rin), n. [ac(etyl) with naked or apparently naked seeds; that is, one destitute of a pericarp. + (anti)pyrine.] The acetyl salicylate of antipyrin, $C_6H_4(OC_2H_3O)CO_2H.C_{11}H_{12}ON_2$. It is used as a remedy for headache.

acoria (a-kō'ri-ä), n. [NL., ζGr. άκορία, ζάκορος, equiv. to ἀκόρεστος, insatiate, ζά- priv. + κορενvivat, sate, satiate, satisfy.] Excessive appe-

acorin (ak'ō-rin), n. [$acor(us) + -in^2$.] A name given to a substance, formerly supposed to be glucoside, obtained from Acorus Calamus. It is of uncertain composition and probably a mixture.

acormus (a-kôr'mus), n. [Gr. ά-priv. + κορμός, trunk.] In teratol., a monster with a head and an undeveloped napiform body, without extremities

G. Sergi, Var. of the Human acosmic (a-koz'mik), a. [a-18 + cosmic.] Sundered; disordered; confused; inharmonious.

Some who have . . . felt utterly lost in this charmed circle of agnosticism . . . despair of building up again the world they have lost out of its acosmic elements.

G. S. Hall, Adolescence, 11. 537.

acospore (ak'ō-spōr), n. [Gr. ἀκη, point, + σπορά, seed.] In phytogeog., a plant (mostly of the grasses) whose fruit is provided with awns to assist dissemination.

Acotylea (a-kot-i-lē'ā), n. pt. [NL., \langle Gr. a-priv. + $\kappa \sigma \tau \dot{v} \dot{v} \eta$, cup, socket.] A group of polyclade *Turbellaria* without suckers and with the [NL.. \ Gr. amouth in the middle of the body or behind it. It includes the families Planocerida, Lepto-

It includes the families Planoceridx, Lepto-planidx, and Cestoplanidx.

acoulation $(a - k\ddot{o} - l\ddot{a}' shon)$, n. [Irreg. \langle Gr. $a\kappa\rho(\beta en)$, $a\kappa\rho(\beta e$ planidæ, and Cestoplanidæ.

acoulation (a - kö-lā 'shon), n. [Irreg. ⟨ Gr.
aκοί (εω), hear, + L. latio(n-), bearing.] The

acoupa (a-kö'pä), n. [Pg.] A kind of weak-

fish, Cynoscion acoupa.

acousma (a·kös'mä), n.; pl. acousmata (-tä). [Gr. ἀκουσμα, a thing heard, ζ άκουτιν, hear.] 1. Things heard or received on authority and without further inquiry or explanation, as among the acousmatici or probationary diseiples of Pythagoras.—2. A form of auditory hallucination. Baldwin, Diet. of Philos. and Psychol.

Psychol.

Acoustic absorption. See *absorption. — Acoustic agraphia. See *agraphia. — Acoustic disk, an instrument for demonstrating the principles of Savart's wheel, the stren, and Newton's disk. — Acoustic organ. Same as organ of Corti. — Acoustic orifice, in entom, an orifice for the admission of air to the acoustic apparatus, as the orifice caudad of the prothorsx in the Locustide. — Acoustic penetration, the earrying power of articulate sound measured by the distance in meters at which, under defined and standard conditions, it is still andible. — Acoustic resonance. See resonance, 2. — Acoustic shadow, See *shadov. — Acoustic strime. Same as strime acustica (which see, under stria). — Acoustic tetanus, muscular contraction induced experimentally by the application of a faradic current, the number of interruptions being measured by the pitch of the sound caused by the vibrations. — Acoustic tubes, a set of tubes designed to illustrate the effect of different length and size on pitch.

acousticolateral (a-kös"ti-kō-lat'c-ral), a. Having the organs of hearing arranged later-

acoustometer (a-kös-tom'e-ter), n. [acoust(ic) + Gr. μέτρον, a measure.] An instrument for determining the acoustic properties of a room or other inclosure.

acquaintt, n. An acquaintance. acquiescence, n. 3. Originally, but now rarely. contentment; satisfaction. In the ethics of Spinoza, acquiescence in one's very self is an ignoble self-satisfaction; but acquiescence of the soul in the knowledge of God is the highest result of virtue.

Acquired character. See *character.
acquisitiveness, n. 3. In psychol.: (a) Tho
proprietary or collecting instinct. W. James,
Princ. of Psychol., II. 422, 679. (b) The capacity for learning or for intellectual acquisition.

Acquittal in law, a judicial act which, in discharging one person from the accusation of a crime, operates to discharge all others who may be accused as accessories in the commission of the same crime: distinguished from acquittal in fact.

acracy (ak'rā-si), n. [Gr. à- priv. + -κρατία, κρατείν, to rule.] The extremest form of physiocracy, which reduces all government to the action of so-called natural laws and amounts

form *acréides) for Acræidæ, < Acræa + -idæ.] A group of butterflies corresponding to the Aerwine. Acraides is the form used by most English entomologists.

acramphibryous (ak-ram-fib'ri-us), α. [Gr. aκρος, at the end, + auφi, on both sides, + βρίοι, a flower or blossom, + auκ.] In bot., producing lateral as well as apical buds. Jackson, Glossary.

Acrasiales (a-krā-si-ā'lēz), n. pl. [NL., < Gr. axpara, bad mixture, + -ules.] The lowest of the three orders of Myxamycetes, consisting of two small families of imperfectly known ameboid organisms, some of which are found in old manure.

acre-foot (ā'ker-fut"), n. A unit of volume of water used in irrigation, equivalent to one acre covered one foot in depth, or 43,560 cubic feet. Water flowing at the rate of one cubic foot a second for 24 hours will cover an acre to a depth of 1.98 feet. In common usage, a cubic foot per second, or second-foot, for 24 hours equals 2 acre-feet.

acreophagist, akreophagist (ak-re-of'a-jist), n. [aercophag-y + -ist.] One who habitually abstains from eating meat; a vegetarian.

acreophagy, akreophagy (ak-rệ-of'a-ji), n. [Gr. ά- priv. + κρεοφαγία, eating of flesh, ζ κρεοφάγος, flesh-eating: see creophagous.] habitual abstention from meat-eating.

national absention from meat-eating. acrepid (a-krep'id), a. [Gr. \dot{a} - priv. $+ \kappa \rho \eta \pi i \varepsilon$, a boot, a foundation.] Having no erepis or foundation-spicule: specifically applied, in sponge-spicules, to desmas in which the crepis is atrophied.

Acridiides (ak"ri-di'i-dēz), n. pl. [NL., irreg. (as if from a F. pl.?) for Acrididæ, < Acridium + -idæ.] In the classification of Brunner von Wattenwyl, the ninth tribe of grasshoppers, of the family Acrididæ, typified by the genus Acridium.

acridine (ak'ri-din), n. [acrid (i) + -inc2.]
An organic compound derived from anthracene by replacing one of its CH-groups with a nitrogen atom, its empirical formula being C14H9N. It is important in the color industry.—Acridine color. See *color.—Acridine orange, red, etc. See *crange1, *red1, etc.

acridinic (ak-ri-din'ik), a. [acridine + -ic.] Derived from acridine .- Acridinic acid. Same as *acridic acid

acridioid (a-krid'i-oid), a. Having the characrimon (a-krid 1-0id), a. Having the characteristies or appearance of grasshoppers or locusts of the family Acrididx.

acridone (ak'ri-dōn), n. [acrid(inc) + -onc.]

CO

A compound, $C_6H_4 \longleftrightarrow C_6H_4$, formed by the NH

oxidation of caridine. It makes at 2542 C.

oxidation of aeridine. It melts at 354° C. acridyl (ak'ri-dil), n. [aerid(inc) + -yl.] The radical or group C₁₃H₈N, derived from *acridine (which see).

acrinyl (ak-n'nil). n. In chem., a hypothetical radical, C₆ll₄.OH.CH₂, of which the sulphocyanide (C₆H₄.OH.CH₂.NCS) is the yellow, pungent, vesicating fixed oil formed by the action of the enzyme myrosin upon the glucoside sinalbin contained in white mustard seed, Brassica alba.

[L. aeris, sharp, + -ite2.] acrite2 (ak'rît), n. The inactive maunite formed by the reduction of acrose or of inactive mannose.

acroæsthesia (ak "rō-es-thē'si-ä), n. $\tilde{a}\kappa\rho\sigma$, a terminal point, an extremity, + $ai\sigma\theta\eta$ - $\sigma\iota\varsigma$, perception, sensation. The second sense is not justified by the meaning of the Gr. άκρου.] 1. Pain in the hands or feet .- 2. Excessive sensibility; hyperæsthesia.

acroasphyxia (ak/rō-as-fik'si-ä), n. [NL., Gr. άκρος, at the end, + ἀσφιξια, asphyxia.] Arrest of the circulation of the blood in the distal portion of the extremities.

acroblast (ak'rō-blast), n. [Gr. άκρον, apex, + βλαστός, germ.] In *embryol.*, that portion of the embryonic germ-layers in vertebrates which gives rise to the blood and connective tissue; the mesenchyme.

acroblastesis (ak-rō-blas-tō'sis), n. [NL., ⟨Gr. ἀκρον, apex, + βιαστός, bud, germ, spore.] In bot., a condition in liehens in which the germtube proceeds from the end of a spore.

acroblastic (ak-rō-blas'tik), a. In bot., arising from a terminal bud: applied to branches of the inflorescence. Celakovsky.

acrocarp (ak'rō-kārp), n. [acrocarp(ous).] An acrocarpons plant: applied mainly to the Ac-

acrocephalous (ak-rō-sef'a-lns), a. Same as

Post

acr, acrocora-coid; prc, pre-coracoid; pnf, pneumatic fora-

acrocerpiatic.

acroceroid (nk-ros'e-roid), a. Having the characteristics or appearance of a moth of the family Acroceridæ.

Acrochilus(nk-rō-kī'lus), n. [NL.,

ζ Gr. άκρον, the farthest point, + χείλος, lip.] A genus of chubs found in the Columbia river, noted for the bony sheath to the

jaws: hence called hardmouth or chisel-mouth jack.
acrocoracoid (ak-rō-kor'a-koid),

n. [Gr. ἀκρος, at the end, + coracoid.] In ornith.. a process or projection from the distal end and internal face of the coracoid, to which the clavicle is usually attached.

acrodontism (ak'rō-don"tizm), n. mina://foramen
[acrodont + -ism.] The property
of being acrodont, or of having teeth ankylosed

to the cutting edge of the jaws. [Rare.] acrodrome (ak'rō-drōm), a. Same as *acrod-

acrodromous (a-krod'rō-mus), α. [Gr. ἀκρον, point, +-δρομος, ζ δραμεῖν, run.] In bot., running to a point: said of a nervation in which the nerves all terminate in or point to the apex of the leaf. See nervation (a) (4) and fig. 4.

Acrodus (ak'rō-dus), n. [NL., ζ Gr. ἀκρος, at the end, + ὁδοίς, tooth.] A genus of cestraciont sharks known chiefly by the pavement-teeth. They occur in the Jurassic and Cretaceous formations.

acrogamous (a-krog'a-mns), a. [Gr. $\delta\kappa\rho\rho_{0}$, at the end, + $\gamma\delta\mu\rho_{0}$, marriage.] In bot., producing the ovules at the summit of the embryosae: the usual condition in angiosperms. Van sac: the usual condition in angiosperms. Tieghem.

Treghem.

acrogamy (a-krog'a-mi), n. [acrogam-ons + -y3.] The state of being acrogamous.

acrogonidium (ak*rō-gō-nid'i-um), n.; pl. acrogonidia (-ä). [Gr. ἀκρος, at the end, + yo-nidium.] A gonidium formed at the terminal end of a fertile hypha.

Acrogynæ (a-kroj'i-nē), n. pl. [NL., ζ Gr. ἀκρον, apex, + γννή, female.] In bot., a suborder of cryptogamic plants of the order Jungermanniales, class Hepaticæ, in which the archegonia are formed from or near the apical cell. See

*Anacroaunæ. acrogynous (a-kroj'i-nus), a. [As Acrogynæ + -ous.] In bot., having the archegonia formed from or near the apical cell, as in the Acrogynæ.

Acrolepis (ak-rol'e-pis), n. [NL., \langle Gr. $\delta\kappa\rho\rho\rho$, at the end, $+ \lambda\epsilon\pi\dot{\nu}\dot{\nu}$, scale.] A genus of ganoid fishes from the Carboniferous and Permian

acrologue (ak'rō-log), n. [Gr. ἀκρος, at the beginning or end, $+\lambda\delta\gamma\sigma_{c}$, word.] An aerologic name, that is, a letter-name beginning with that letter; an alphabetic name formed on or exhibiting the principle of aerology, as the Hebrew ateph beginning with a, beth with b, etc. See the extract.

The alphabetic names, considered as pictorial acrologues, may therefore in some cases receive an easier explanation from the Hieratic characters than from the Semitic letters as we have them.

Isaac Taylor, The Alphabet, I. 169.

acromegalia (ak"rō-me-gā'li-ā), n. Same as

*acromegaly. acromegalic (ak"rō-me-gal'ik), a. and n. [As acromegaly + -ic.] I. a. Of the nature of or relating to acromegaly.

II. n. A victim of the complaint known as acromegaly.

acromegaly (ak-rō-meg'a-li), n. [Gr. ἀκρον, extremity, +*μεγαλία, ζμέγας (μεγαλ-), great.] A disease characterized by hypertrophy of the bones and soft tissues of the face and extremities. It is thought to be due, possibly, to a morbid change in the internal secretion of the pitnitary body, since this structure is also enlarged. Most of the so-called 'giants' owe their size to this disorder. Also called Marie's disease.

acromerostich (ak-rō-mer'ō-stik), n, [Gr. ἀκρος, at the beginning or end, $+\mu\acute{\rho}\rho\varsigma$, part, $+\sigma\acute{\tau}\acute{\chi}\varsigma\varsigma$, line.] A short poem or stanza containing several acrostics, as in the accompanying ex-

ample, in which the name 'Jesus' occurs four times:

I nter cuncta micans I gniti sidera cæl 1, Expellit tenebras E toto Phæbus ut orb E; S ie cæcas removet l ESUS caliginia umbra S V iviticansque simul, V ero precordia mot U S olem Justitiæ se S e probat esse beatf S. N. and Q., Feb. 26, 1887.

acromion, n. 2. In ichth., same as supraclavicle; a shoulder-girdle bone above the claviele. acromiosternal (a-krō"mi-ŏ-ster'nal), a. Relating to the aeromion process and the sternum.

acronus (ak'rō-nus), n.; pl. acroni (-nī). [NL., (Gr. ἀκρον, apex, summit.] In bot., a terminal ovary; that is, one without a basal disk.

Acronycta (ak-rō-nik'tā), n. [NL. (Ochsenheimer, 1816, as Acronicta; Treitsehke, 1825, as Acronycta), Gr. ἀκρόνυκτος, of nightfall: see acronyctous.] A prominent and very large genus of noctuid moths, synonymous with Apatela (Hübner, 1810).

(ak ro-par-es-the'si-ä), n.acroparæsthesia [Gr. $\delta\kappa\rho o\nu$, extremity, $+\pi a\rho \dot{a}$, beside, + $ai\sigma \theta \eta \sigma \iota \varsigma$, perception, sensation (see paræslhesia). See remark under *acroæsthcsia.] 1. Paræsthesia of the hands or feet .- 2. Excessive paræsthesia, or perversion of normal sensation.

acroparalysis (ak/rō-pa-ral'i-sis),n. [Gr. ἀκρον, extremity, + παράλυσις, paralysis.] Paralysis which affects the extremities only.

acropathy (a-krop'a-thi), n. [Gr. $\dot{a}\kappa\rho\sigma v$, extremity, + $\pi\dot{a}\theta\sigma\dot{c}$, disease.] Disease of the tremity, $+\pi$ hands or feet.

Acrophalli (ak-rō-fal'ī), n. pl. [NL., < Gr. ἀκρος, at the extremity, + φαλλος, phallus.] A group of nemathelminths in which the cloacal aperture is at almost the extreme end of the body on the ventral side.

acrophobia (ak-rō-fō'bi-ä), n. [Gr. åκρον, topmost point, $+\phi \sigma \beta e i \nu$, fear.] Morbid fear of great heights.

acrophonic (ak-rō-fon'ik), a. [Gr. åκρον, extremity, $+\phi\omega\eta$, sound.] Same as aerophonetic. acropolitan (ak-rō-pol'i-tan), a. Of or pertaining to the aeropolis or citadel of an ancient Grecian city, especially that of Athens.

acrorhagus (ak-rō-rā'gus), n.; pl. acrorhagi (-jī). [NL., prop. *acrorrhagus, ζGr. ἀκρος, at the end, + ραξ (ραγ-), a grape, a berry.] One of the marginal tubercles on the peristome of Actinia bearing nematocysts or stinging-cells.

acroscopic (ak-rō-skop'ik), a. [Gr. ἀκρον, apex, + σκοπεῖν, see, + -ic.] In bot., looking toward (that is, on the side toward) the apex.

_C

.d e

acrose (ak'ros), n. [L. acris, sharp, + -ose.] A sugar which has been shown to be identical with i-fructose. It has been prepared synthetically in several ways, especially by the action of a dilute solution of sodium hydroxid on glycerol addehyde. It is of special interest as being the first sugar containing six carbon atoms to be prepared synthetically. It was also used for the synthesis of d-glucose.

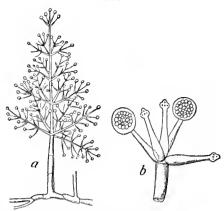
acrosome (ak rō-sōm), n. [Gr. ἀκρον, apex, + σ $\bar{\omega}$ μα, body.] In cytol., the body which forms the extreme anterior portion of the spermatozoon. Von Lenhossek, 1897. In the apermatozoa of some animals the acrosome is apur- or hookshaped and is thus adapted for boring its way into the egg

Acrospeira (ak-rō-spī'rā), n. [NL. (Berkeley and Broome, 1857], \langle Gr. $\dot{a}\kappa\rho\sigma\nu$, tip, $+\sigma\pi\epsilon\bar{\iota}\rho a$, coil.] A monotypic genus of hyphomyeetons fungi having erect branched sporophores spirally bent at the tips, and bearing simple spherical, black, rough spores. A. mirabilis sometimes destroys the ripe fruit of Spanish chestnuts (Castanca). acrosperm (ak'rō-sperm), n. [Gr. ἀκρον, tip, + σπέρμα, seed.] In bot.,

akρον, tip, + σπέρμα, seed.] In bot., an angiosperm of the group or class which are supposed by Treub to have biagram of been originally fertilized through the chalaza instead of the micropyle—to-observe the Acrospermæ. Compare *pleuro-body, oraco-sperm.

Acrostalagmus (ak "rō-sta-lag mus), classic, end-knob; d, mid-n. [NL. (Corda, 1838), referring to depice; e, the drop-like conidia at the tips of the tail; f, axial filam + σταλαγμός, a drop.] A genus of piece, hyphomycetous fungi having erect verticillate-branched conidiophores and simple

verticillate-branched conidiophores and simple conidia collected in globular masses at their



Acrostalarmus cinnabarinus. a, a branching conidiophore, enlarged; &, one of the branchlets, showing the globular masses of conidia, greatly magnified.

A. cinnabarinus is a common species oc-

tips. A. cinnabarinus is a common species occurring on decaying vegetable matter.

Acrosticheæ (a-kros-tik'ē-ē), n. pl. [NL., < Acrostichum + -cæ.] A tribe of polypodiaceous ferns, typified by the genus Acrostichum. It comprises genera of varying habit and venation but readily associated by similarity in fructification, the naked sporangia overspreading at least a portion of the under surface of the wholly or partially metamorphosed fertile frond.

2crostichoid (a-kros'ti-koid), q. Pertaining

acrostichoid (a-kros'ti-koid), a. Pertaining to the fern genus Acrostichum, or to the tribe Acrosticheæ.

Acrostichum (a-kros'ti-kum), n. [NL., so ealled in allusion to the 'acrostic' appearance of the spores: see acrostic.] A genus of tropiof the spores; see acrostic.] A genus of troplcal ferns, largely American. The species are diverse, and are sometimes referred to other genera. In
general they are long-leaved, rather coarse apecies, with
mostly simple or pinnate fronds. No less than twenty
apecles have been advertised in American horticultural
catalogues. They are treated as greenhouse plants.

Acrotidæ (a-krot'i-dē), n. pl. [Acrotus +
-idæ.] A family of deep-sea fishes remotely
allied to the mackerels: notable for the very
soft, rag-like body and the absence of spines
and ventral fins

and ventral fins.

Acrotinæ (ak-rō-tī'nē), n. pl. [Acrotus +-inæ.]
The subfamily of ragfishes, of the family Icostcidæ, typified by Acrotus willoughbyi. acrotonous (a-krot'ō-nus), a. [Gr. ἄκρον, apex,

 $+ \tau \delta v o \varsigma$, cord.] In bot., extending to the apex: applied to the tissue of the pollen-sac of orchids when prolonged to the upper end of the anther.

Acrotreta (ak-rō-trē'tä), n. [NL., ζ Gr. ἀκρος, at the top, + τρητός, bored through, perforated.]
A genus of extinct brachiopods with a flat dor-A genus of extinct oracinopous with a nat dor-sal valve and a subconical ventral valve per-forated at the top: from the Cambrian and Silurian beds of Europe and America. Acrotretidæ(ak-rō-trē'ti-dē), n. pl. [NL., \alpha Ac-rotreta + -idæ.] A family of inarticulate brachiopods of early Paleozoic age, embracing

the genera Acrotreta, Conotreta, Acrothele, and Linnarssonia.

Linearssonia.

Acrotus (ak'rō-tus), n. [NL., given as from Gr. "ἀκροτος, without oars (ventral fins)"; but there is no such form. Cf. Gr. ἀκροτος, without noise, ⟨ ἀ- priv. + κρότος, a rattling, a elάpping.] A genns of deep-sea fishes represented by A. willoughbyi. This species, once taken on the coast of Washington, is usually placed in the family Acrotidæ, next to Icosteidæ.

coast of Washington, is usually placed in the family Acrotidæ, next to Icosteidæ.

3.Ct, n.—Ballot Act. Same as Reform Bill (which see, in Cyclopedia of Names).— Carey Act, an act of Congress donating one million acres of desert land to each State containing such land, upon condition that the land donated be reclaimed by irrigation at the expense of the State.—Desert Act. Same as Carey *Act.—Hatch Act, an act of the United States Congress in 1887 which gave to each State and Territory \$15,000 a year for the establishment of an agricultural experiment station (ace *agricultural), to be a department of the land-grant college (see Morrill *Act), except where a separate station already existed. The fund is maintained by an annual appropriation.—Morrill Act. (a) An act of the United States Congress in 1862 which provided for the maintenance of at least one college in each State, the chief object of which should be instruction in the branches of learning related to agriculture and the mechanic arts, though other scientific and classical studies were not excluded and instruction in military tactics was included. For this purpose a grant was made of 30,000 acres of public land for each senator and representative, the proceeds of sale to be invested as an endowment. (b) A second act (1890) which provided for an annual appropriation, to be increased in ten years from \$15,000 to a permanent sum of \$25,000 from the proceeds of the sale of public land, for the more complete endowment of these institutions. This income could be applied only to instruction (with facilities) in agriculture, the mechanic arts, the English

act language, and other branches directly related to industrial life.—Scalp Act, in the United States, a statute which provides for the payment by a State of a bounty or reward for the destruction of certain animals deemed to be injurious to agriculture. It is usually provided that the reward shall be paid upon the production of the heads or scalps of the animals destroyed.—Sherman Act, an act of Congress of July 14, 1890, directing the secretary of the treasury to purchase monthly 4,500,000 ounces of fine silver bullion, er so much thereof as night be offered, at the market rate, not to exceed \$1 for 371\(\frac{1}{2}\) grains of fine silver. It was repealed in 1893.

Actiad (ak'fi-ad), n. [Gr. 'Ania, the Actian

Actiad (ak'ti-ad), n. [Gr. 'Akria, the Actian games, +-ad'. Cf. Olympiad.] The space of four Actian years; the four years intervening between one celebration of the Actian games

and the next. See Action.

actinally (ak'ti-nal-i), adv. Toward, or having reference to, the actinal or oral side of an

echinoderm; orally.

Actinaria (ak-ti-nā'ri-ā), n. pl. [NL., neut. pl. of *actinarius, ζ Gr. ἀκτίς (ἀκτιν-), a ray.] The flesh-corals, a suborder of Anthozoa, nsnally with 6 (or a multiple of 6) simple tentacles and no skeleton. It includes Actinia, Adamsia, Cerianthus, and other genera.

actine (ak'tin), n. A ray of a monaxon or rodlike megaselere of a sponge.

actinellidan (ak-ti-nel'i-dan), a. and n. I.
a. Pertaining to or having the characters of the Actinellida.

II. n. One of the Actinellida.

acting, p. a. 2. Performing, or used in performing, stage-plays.—Acting edition (of a play).
one which contains full stage-directions for the information of the players.

II. n. The profession of an actor or player.

actinian (ak-tin'i-an), a. and n. [Actinia + -an.] I. a. Pertaining to or resembling an actinia.

actiniarian (ak-tin-i-a'ri-an), a. and n. I. a. Actiniaria.

II. n. One of the Actiniaria.

Actinic *focus, *light, *photometer. See the nouns, — Actinic plane a plane of maximum actinic activity in a system of standing light waves. According to Wiener, anch planes pass through the loops of the system, and at right angles to the path of the waves.—Actinic *ray, *spectrum. See the nouns.

actinicism (ak-tin'i-sizm), n. [actinic + -ism.]

Same as actinism.

actinicity (ak-ti-nis'i-ti), n. Chemical or photographic activity; a property of rays of the spectrum by which chemical reactions are pro-

duced or promoted. Same as actinism.

Actinidia (ak-ti-nid'i-ā), n. [Nl., ζ Gr. ἀκτίς (ἀκτιν-), a ray, + dim. -ιδιον.] A genus of twining shrubs, of about eight species, natives of eastern Asia and members of the family Ternstræmiaccæ. About half of the species are in cultiva-tion for covering arbors and porches, A. arguta being the most common species. The leaves are large and ovate, and are more or less toothed or serrate; the flowers are small and whitish. The species are hardy and useful

Actiniidea (ak-tin-i-id'ē-ä), n. pl. [NL., irreg. (Actinia + -id-ea.] An order of zoantharian Anthozoa consisting of colonial or solitary Zoantharia cryptoparamera, with or without a cache usually consisting of 12 couples of equal size), and the tentacles equal ble mesenteries in number. It contains the Actinidæ, Corallinorphidæ, Hyanthidæ, Liponemidæ, Amphianthidæ, Dendractidæ, and Thalassianthidæ. skeleton The mesenterics are arranged in cycles (each

actinine (ak 'ti-nin), a. [Actinia + -incl.]

actinioid (ak-tin'i-oid). a. [Actinia + -oid.] Resembling a sea-anemone or actinian.

Actiniomorpha (ak-tin'i-ō-môr'fä), n. pl. [NL., ζ Λείινια + Gr. μορφή, form.] A subclass of Anthozoa including Actinaria, Antipa-

tharia, and Madreporaria.

actinism, n. 3. In bot., the chemical action of sunlight on plants.

Actinistia (ak-ti-nis ti-ä), n. pl. [NL., ζ Gr. άκτις. a ray, + ἰστίον, a web (†).] A suborder of extinct ganoid fishes ranging from the Carboniferous to the Jurassic. They are characterized among other things by having the interspinous bones of each dorsal and anal fin fused into a single piece.

each dorsal and aust in tused into a single piece.

actinium, n. 1. This supposed chemical element, of
a metallic character, was announced by Phlyson in 1881
as obtained from a commercial white pigment consisting
mainly of oxid and sulphid of zinc with sulphate of barium. It was described as forming a white sulphid which
became brown and finally black under the action of the
sun's rays, the blackening being prevented by screening
the surface with a plate of glass, and removed when the
darkened surface was exposed to air in the absence of
light.

2. A radioactive substance found by Debierne

to exist in the residues remaining from pitchblende after the extraction of the uranium: a new radio-element closely related in its chemical behavior to lanthanum, from which it has not as yet been found possible to separate it not as yet been found possible to separate it completely. It has not been obtained in a state of sufficient purity to give any characteristic spectrum and is identified and recognized entirely by its radioactive properties. Actinium itself has not been found to emit a radiation but undergoes disintegration with the formation of a series of radioactive products known as radioactinum, actinium. A, actinium emanation, actinium the and actinium C. Of these, the first, second, third, and fifth emit alpha-rays, the fourth beta-rays, and the sixth beta- and gamma-rays (see *obscure rays). These products are present in all ordinary actinium preparations. The occurrence of actinium indicates that it is a disintegration product of uranium, although its genetic relationship to ionium and radium has not yet been established. Actinium is identical with the emanium of Giesel. See *emanation.

M. and Mme. Curie, with the collaboration of MM.

M. and Mme. Curie, with the collaboration of MM. Bemont and Dehierne, succeeded in establishing the existence of three new radio-active substances in pitch-blende: radium associated with the barium in the mineral, and closely resembling it in its chemical properties; polonium associated with the bismuth, and actinium with the thorium.

J. J. Thomson, Elect. and Matter, p. 141. Actinium rays, Becquerel rays emitted by the disintegration products of actinium. See obscure *rays.

actinoblast (ak-tin'ō-blast), n. [Gr. $\dot{a}\kappa\tau\dot{\nu}$ -), ray, $+\beta\lambda a\sigma\tau\dot{\sigma}$ c, germ.] In sponges, the mother-cell, in which is formed each ray of a radiate spicule; a scleroblast.

actinobranch (ak-tin'ō-brank), n. [NL. actinobranchia, ⟨Gr. ἀκτίς (ἀκτω-), ray, + branchia, gill.] One of the gill-like vascular organs found in certain anthozoaus.

actinobranchia (ak*ti-nō-brang'ki-ä), n.; pl. actinobranchiæ (-ĕ). [NL.]. Same as *actinobranch.

II. n. An animal of the family Actinidæ actinocarp (ak-tin'\(\bar{0}\)-k\(\bar{a}\)rp), n. [Gr. \(\bar{a}\)xi\(\bar{c}\)(\(\alpha\)xi\(\nu\)-\), or of the order Actinidea. actiniarian (ak-tin-i-\(\bar{a}'\)ri-an), a. and n. I. a. Pertaining to or having the characters of the central axis of the fruit.

actinocarpic (ak#ti-nô-kär'pik), a. In bot., of the nature of an actinocarp.

Actinocephalidæ (ak"ti-nō-se-fal'i-dē), n. pl. [NL., \ Actinocephalus + -ide.] A family of genera.

Actinocephalus (ak"ti-nō-sef'a-lns), n. [NL., ⟨Gr. ἀκτις (ἀκτιν-), ray, + κεφα'ή, head.] The typical genus of the family Actinocephalidæ.

Actinoceras (ak-ti-nos'e-ras), n. [NL., & Gr. ακτις (άκτιν-), ray, + κέρας, horn.] A genus of nautiloid cephalopods typical of the family Actinoceratidæ.

actinoceratid (ak"ti-nō-ser'a-tid), a. and n. I. a. Pertaining to the Actinoceratida. II. n. One of the Actinoccratidæ.

Actinoceratidæ (ak"ti-nō-se-rat'i-dē), n. pl. [NL., \langle Actinoceras + -ide.] A family of lon-gicone nautiloid cephalopods. They have the si-phuncle more or less filled with calcareous deposits which may radiate into and even fill the chambers of the shell. The family includes several important genera, namely, Actinoceras, Hormoceras, and Tretoceras, chiefly of Si-lurion seg. lurian age.

actinocrinid (ak"ti-nō-krin'id), a. and n. I. a. Pertaining or related to the Actinocrinidæ.

II. n. An encrinite of the family Actino-

pl. 2. In Wachsmith's Actinocrinidæ. classification, the third family of the camerate classification, the third family of the camerate crinoids. They have a monocyclic base, three radial plates in the cup, fixed brachials large and interradials numerous, arms stout, usually biserial and simple, with long pinnules, and food-grooves subtegminal. The family is a large one and is sometimes divided into Actinocrinidæ and Batocrinidæ. It is represented by numerous genera and species of Paleozoic age occurring in the formationa from the Lower Silurian to the Carboniferous.

actinogram (ak-tin' φ-gram), n. [Gr. ἀκτίς (ἀκτιν-), ray, + γράμμα, what is written.] 1. A record of the chemical activity of light made by means of the actinograph.—2. An impression made on a sensitized photographic plate by the Röntgen or Becquerel rays.

actinograph, n. Hurter and Driffield's actinograph, a side-and-roller calculating-machine for determining photographic exposures. A cylinder, carrying a chart which shows geographically the intensity of daylight for every hour of each day of the year, is fitted in a light box. The slide next this cylinder is furnished with two scales, one marked for lens-apertures and the other set out for exposures. Next to this is a small pointer slide which is adjusted to a fixed plate-speed scale and

indicates the exposure for each of six selected typical meteorological conditions. The instrument is plotted for any desired latitude,

actinographic (ak"ti-nō-graf'ik), a. Of or pertaining to actinography or the actinograph;

obtained by means of the actinograph; obtained by means of the actinograph.

actinograph (ak "ti-nog 'ra-fi), n. [As actinograph + -y³.] The registration of actinic power by means of the actinograph.

Actinoidea (ak-ti-noi'dē-ā), n. pl. [NL., ζ Gr. aκτίς (ακτιν-), ray, + είδος, form.] Same as Crinoidea.

actinolite, 2. A trade-name of an apparatus by which the ultra-violet rays may employed in the treatment of cutaneous diseases.

actinologist (ak-ti-nol'o-jist), n. factinology + -1xt.] One who is versed in the study of the Actinozoa, or the sea-anemones, corals, and related forms.

actinologue (ak-tin'ō-log), n. [Gr. ἀκτίς (ἀκτίν-), ray, + λόγος, analogy, proportion (?).] In a radiate animal, as a sea-anomone or an echinoderm, any organ or other part of an actinomere which corresponds to another in a differ-

ent actinomere.

actinology, n. 2. The study of the Actinozoa:
as, the actinology of the South Atlantic.

actinolyte (ak-tin'ō-līt), n. [Gr. άκτίς, ray, + λυτός, (λίειν, dissolve, separate.] 1. A chemical compound analyzable into its components by light. - 2. Any substance in which light effects a marked sensible change. actinolytic (ak*ti-nō-lit'ik), a. Pertaining to

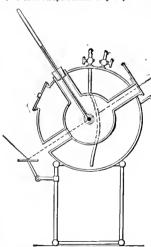
or of the nature of an actinolyte.

Actinomeris (ak"ti-nom'e-ris), n.

Actinomeris (ak*ti-nom'e-ris), n. [NL., \langle Gr. $a\kappa\tau_{ij}$ ($a\kappa\tau_{ij}$ -), a ray, + $\mu\epsilon\rho_{0j}$, a part.] A small genus of North American Compositæ, of which one or two are sometimes grown in gardens. The cultivated species are perennials, to be treated after the manner of perennial sunflowers.

treated after the manner of perennial sunflowers.

actinometer, n. Chemical actinometers measure the energy of radiation by its chemical effects. Bunsen measured the amount of hydrochloric acid made by sunshine from a mixture of hydrogen and chlorin; Marchand measured the amount of carbonic-acid gas literachand measured the amount of carbonic-acid gas literachand measured the nonount of carbonic-acid gas literachand measured the nonount of carbonic-acid gas literachand measured the literachand from a solution of perchlorid of iron and oxalic acid by the use of his antiphotypimeter. Photographic actinometers measure the literachand in the same sensitized plate by an exposure during one unit of time. Vapor actinometers measure the volume of liquid (water, alcohol, or ether) evaporated in a unit of time. Thermal actinometers measure the heating effect of radiation by many different devices: sometimes called pyrheliometers. De Saussure used the simple hot box; Sir John Herschel, a large thermometer-build filled with a blue liquid; Pouillet, a measured volume of water inclosed in a blackened cylinder, the temperature of the water being given by a thermometer within a large spherical inclosure kept at uniform temperature; Arago, as modified by Davy, a pair of bright-and black-build thermometers each inclosed in a plane-glass spherical envelop from which the air has been exhausted: when exposed to the sunshine the black build attains a higher temperature than the bright bulb, and the difference between the two is an index of the amount of heat which penetrates the glass envelop. The complete theory of this action was published by Ferrel in 1885. Langley used a fine wire coated with lamp-black, the intensity of an electric current flowing through the wire being shown by a delicate galvanometer and varying with the temperature of the wire. Hutchins, following Melloni and Tyndall, employed a delicate themo-electric current; and Angstrom, in his electrically compensated actinometer, two thin strips alternately exposed and



them both to the same temperature.—Absolute actinometer, an apparatus for determining in absolute units the total quantity of heat received at any blee during any ceived at any place during any time by radla-tion, as distin-guished from the relative the relative measurements made with an ordinary acti-nometer.— Draper's actinom-eter, an ac-tinometer which measures the action of light by the weight of carbon dioxid

actinometer

disencaged by it from a solution of ferric oxalate. It was devised by Professor Henry Draper.—Richardson's actinometer, aninstrument for measuring and recording the intensity of the chemically active rays of the sum by means of the expansion of dry chlorin gas.—Roseoe's actinometer, an actinometer devised by Sir Henry Roscoe for measuring the action of light by the use of paper sensitized with silver chlorid. The paper, fixed round a drum moved by clockwork, is periodically exposed behind a hole in a thin sheet of brass fastened over the drum.—Stanley's actinometer, an actinometer for measuring the actinicity of light by the length of time required to bring a piece of sensitized paper to a standard tint—Violic's actinometer, a black-bulb thermometer placed at the center of a spherical metallic inclosure which is kept at a known constant temperature by the flow of water within its double walls. A small aperture allows sunshine to fall upon the thermometer-bulb, whose rate of warning is observed. of warming is observed.

Actinometric degrees, the calculated quantity of radiant energy received by an actinometer in any given interval of time as expressed on any arbitrary scale.

actinomyces, v. 2. [cap.] [NL. (Harz. 1877).]
A genus of fungi of doubtful relationship. The type is A. boris, the ray-fungus. See actino-

actinomycotic (ak#ti-nō-mi-kot'ik), a. [*actinomycosis (-at-) + -ic.] Resembling, related to, or caused by the ray-fungus or actinomyces. Jour. Exper. Med., V. 179.

Actinomyxidia (ak#ti-nō-mik-sid'i-a), n. [NL., ζ Gr. ακτίς (ἀκτυ-), ray, + μίξα, slime +-idia.] A group of peculiar parasites found in fresh-water oligochætes. They are regarded by some as being intermediate between Myxosporidia and Mesozoa, while others consider them as belonging to the former group. Stolc, 1899.

Actinonema (ak*ti-uō-nē'mä), n. [NL. (Persoon, 1822), ζ Gr. ακτίς, ray, + νῆμα, thread.] A genus of Fungi Imperfecti characterized by A genus of Fungi Imperjecti enaracterized by pycnidia produced upon a superficial layer of radiating mycelium. The spores are hyaline and mostly two-celled. A. rosæ is a common species which attacks leaves of roses. See *leaf-blotch.

actinophore, n.—Epaxial actinophores, in ichth., nodules of bone or cartilage between the dorsal rays and the interneural spines.—Hypaxial actinophores, in ichth., nodules of bone or cartilage between the anal rays and the interhemal spines.

Actinopoda (ak-ti-nop'ō-dā), n, pl. [NL., ζ (cr. ἀκτις (ἀκτιν-), ray. + ποίς (ποὐ-), foot.] An order of Holothurioidea. The tentacles and podia are supplied by the five radial canals of the water-vascular system springing from the circular canal. The order includes the families Holothuridæ, Cucumariidæ, Molfadtidæ, Elpidiidæ, and Pelagothuriidæ.

Actinopteria (ak"ti-nop-tē'ri-ä), n. [NL. (Gr. ακτίς (ακτιν-), ray, + πτερόν (πτερά), feather (wing).] Agenus of Paleozoie aviculoid shells. They have a well-defined auricle and wing and radial surface-plications which cover the latter. Abundant in the Devonian formations of America and Europe.

Actinopterygia (ak - ti - nop - te - rij'i - ä), n. pl. [NL., & Gr. artic (artiv-), a ray, + \(\pi\text{rep}(\pi\text{rep})\) or, a fin.] A great group of fishes including all of the living bony fishes except the Dipnoi or lung-fishes and, usually, the Crassopterygii or fringe-finned ganoids. The term Teleostomi is fringe-finned ganoids. The term *Teleostomi* is more commonly used and usually embraces all of the living bony fishes.

actinosome (ak'ti-nō-sōm), n. Same as actino-

actinostome, n. 2. The pentagonal area in the center of the oral surface of an echinoderm which is occupied by the peristome and mouth.

actinostomial (ak/ti-nō-stō/mi-al), a. *actinostomialis, (actinostomium, actinostome.]
Pertaining or relating to the actinostome: as, the actinostomial ring in Asteroidea.

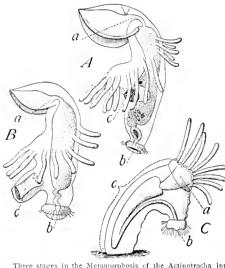
actinostomous (ak-ti-nos'tō-mus), a. [Gr. ἀκτίς, ray, + στόμα, mouth.] In bot., radiating round the mouth: applied specially to the radiate structure round the ostioles of certain lichens.

Actinostroma (ak-ti-nō-strō'mā), n. [NL., < Gr. ακτίς, ray, + στρωμα, bed.] A genus of hydrocoralline hydrozoans. They grew in spreading masses and exhibited, in vertical section, a series of radial pillars extending more or less continuously through successive layers. An abundant reef-building organism in the Devonian.

actinotherapeutic (ak"ti-nō-ther-a-pū'tik), a. Pertaining to the therapeutic use of certain rays of light, especially in the treatment of cutaneous diseases.

actinotherapy (ak"ti-nō-ther'a-pi), n. [Gr. ακτις (ακτιν-), ray, + θεραπεία, cure.] Same as \star radiotherapy.

actinotrocha (ak"ti-nō-trō'kä), n. [NL., < Gr. $a\kappa\tau i\varsigma$ ($a\kappa\tau iv$ -), a ray, $+\tau\rho\sigma\chi\delta\varsigma$ (?), a wheel, a ring.] The peculiar larval form of *Phoronis*, an aberrant genus of marine worms of doubtful affinities, being sometimes classed with the



12

Three stages in the Metanuorphosis of the Actinotrocha Into Phoronis. I., Actinotrocha Iarva with the invagination (e), which will form the trunk of the Phoronis larva, beginning to appear. \mathcal{S}_i stage with the invagination partly extruded. C_i stage when the extrusion is complete and the alimentary canal has passed into it. (C is after Metschnikoff.) a_i mouth; b_i anus; c_i invagination which ultimately forms the greater part of the body of the adult. From "Cambridge Natural History.")

Gephyrca, sometimes with the Molluscoidca, and sometimes with the Hemichordata.

and sometimes with the Hemichordata.

action, n., 11 (b). In the pianoforte the action is said to be heavy or light, hard or easy, according to the amount of resistance to the finger; deep or shallow, according as the dip of the keys is great or small; repeating if the mechanism permits repetition of the stroke without allowing the keys to rise to their original position, etc.; and the word is also extended to the pedal mechanism. In the organ (besides the above usages) the action is called an electric, pneunatic, or tracker action, according as the mechanism connecting the keys with the valves varies in construction; and the word is also extended to the stop mechanism. Furthermore, in the organ the action is said to be extended when the keyboards are placed at some distance from the case in which are the pipes.

13. In psychol., bodily movement, in so far as it is directly preceded, accompanied, or fol-

it is directly preceded, accompanied, or followed by consciousness. Some psychologists dis-tinguish this as the external voluntary action from an in-ternal voluntary action, in which the effect of the initial volition is itself a mental process, a change in the train of ideas which does not manifest itself by any sort of ex-ternal symptom. Others nose the phrase action of the mind loosely as the equivalent of mental function or mental activity.

A voluntary action consists, in the first place, of a feeling, in which the tendency of the will Is manifested; secondly, of a change in ideational content which may be accompanied by an external effect mediated by the organs of movement; and thirdly, of the general idea of the dependence of this change upon the whole trend of conscionances

Conscionsness. W. Wundt (trans.), Human and Animal Psychol., p. 233.

14. In mech., the sum of the average momenta of the elements of a moving system, each mulin the elements of a moving system, each mutiplied by the distance through which it moves.

—Action consciousness. See *consciousness. — Action ex contractu, a civil action in which the rights of the parties are subject to the law of contracts as distinguished from the law of torts. —Action ex delicto, a civil action in which the rights of the parties are subject to the law of torts as distinguished from the law of contracts. — Action theory, a psychophysical theory which correlates the attributes of sensation with definite phases of the passage from excitation to discharge in the cerebral cortex; ts quality and intensity with locality and strength of excitation; its value and vividness with locality and strength of discharge. II. Minsterberg, Harvard Psychol. Stud., I. iv. —Automatic action, in psychol., a term used, with various shades of meaning, to denote action which, originally voluntary, has become more or less mechanical. —Continuous action, in mech., action in the same direction, without a reversal. The action of a circular saw or band-saw or a dynamo la continuous; that ef an engine-piston is alternating. — Directive action, action which tends to cause a lody possessed of polarity, as a magnet or a crystal, to take some certain position in the field of force in which it lies. See the extract.

If the attraction with parallel axes exceeds that with tiplied by the distance through which it moves.

If the attraction with parallel axes exceeds that with crossed axes there must be a directive action resisting the turn from the crossed to the parallel positions.

J. H. Poynting, Smithsonian Rep. 1901, pp. 209, 210.

J. H. Poynting, Smithsonian Rep. 1901, pp. 209, 210.

Dynamic action, in sociol., an action in which the end is sought mediately: opposed to static action, in which the end is sought immediately.—Funicular action. See *funicular.—Impulsive action, in psychol., a simple voluntary action determined by a single motive. W. Wundt (trans.), Iluman and Animal Psychol., p. 232.—Instinctive action, in psychol., action founded on a congenital, instinctive basis, but consciously motived by acquired experience. Morgan, Habit and Instinct, p. 136.—Joint action, a civil action in which several parties, liaving the same or similar rights in the subject-matter of the snit, are joined as plaintiffs or defendants.—Law of mass action, in phys. chem., the statement that when any substance in solution enters into a chemical reaction the amount of the reaction in the unit of time is preportional to the active mass of the substance, that

activity

is, to the number of gram-molecules of the substance contained in one liter of the solution.—Law of reciprocal action on liter of the solution.—Law of reciprocal action on the elements of the hattery even when the outer circuit is open. Such local internal circuits wesken the effective or useful current. (c) In dynamo-lectric machines, wasteful internal circuits in the pole-pieces or cores; eddy, parasitic, or Foucault currents.—Multiplicity of actions, a term used in equity jurisprudence wherein a court of chancery has jurisdiction to compel the consolidation of several suits where the issue in all can be determined in a single action. A suit in such a court may be brought to prevent a 'multiplicity of actions.'—Psychomotor action, in psychol., action which occurs as the direct response to a perception or idea. The term includes ideomotor and sensorimotor action.—Selective action in psychol., action which results from the clash in consciousness of two or more impulses. E. B. Titchewer, Outline of Psychol., p. 266.—Static action. See dynamic *action.—Volitional action, in psychol., a term used, with various shades of meaning, to denote action mused, with various shades of meaning, to denote action means, the motion of the key-tail to the whip. Its length varies with the size and arrangement of the action.—Ration varies with the size and arrangement of the action.

whip. Its length varies with the size and arrangement of the action. Analogous to sticker in organ-building. See cut under pianoforte.

action-rail (ak'shon-ral), n. In pianofortemaking, a bar or rail extending across the action from side to side, to which are pivoted the movable parts of all the hammers and damp-

ers. See cut under pianaforte.
action-time (ak'shon-tim), n. In psychol., a
term occasionally used for the simple reaction-

activ, a. A simplified spelling of active, activate, r. t. 2. In physics, to render active; specifically, to make radioactive by exposure to the influence of a radioactive substance: to ionize. See *radioactivity.

J. Elster and H. Geitel describe their method of studying the radio-activity of the atmosphere in places removed from physical or meteorological laboratories. In these measurements it is necessary to maintain the hody to be activated for several hours at a negative potential of several thousand volts.

Sci. Amer. Sup., Apr. 18, 1903, p. 22815.

activated (ak'ti-va"ted), p. a. In physics, in a state or condition of acquired radioactivity; ionized.

They find that underground air is not like activated air, but rather resembles radium and thorium compounds, which, while neutral themselves, are capable of ionizing gases by means of the free ions they emit. Elec. World and Engineer, Jan. 10, 1903, p. 86.

activation (ak-ti-vâ'shon), n. The act of rendering active or the state of being activated; specifically, in *physics*, the process or method of producing radioactivity in a body by exposure to the influence of a radioactive substance or otherwise; the state or condition of being

radioactive; ionization.

active, a. 9. In psychol., representative of a type of character whose dominant characteristic is a natural and constantly renewed tendency to action.—Active *congestion, *mass, *pressure, *principle. See the nouns.—Active deposite, in radioactivity, a substance deposited by the emanation from a radioactive material, as radium or thorium, and itself capable of producing excited activity in neighboring bodies.—Active material (of a storage-cell), in elect., the substance or substances which change chemically during charge and discharge.—Active verb, a verb which expresses action. It may be (a) active transitive, in which the action passes from the subject or agent to an object: as, the sun gives light; or it may be (b) active intransitive, in which the action is confined to the subject: as, the sun gives light; or it may be the subject is the sun shines.—Active voice in gram, that form or aspect of a verb in which the subject of the verb is represented as acting. See active, 8.

activital (ak-tiv'i-tal), a. [activity +-al.] Relating to action as opposed to thought. J. W. istic is a natural and constantly renewed ten-

lating to action as opposed to thought. J. W.

Powell.

Full knowledge of aboriginal character may be gained only through study of both the activital habits and the intellectual systems of the aborigines; for in every stage of human development, action and thought are concomitant and complementary.

Rep. Bur. Am. Ethnol., 1897-98, p. 825.

activity, n. 6. In psychol., a self-determination of mental process, experienced or in-ferred, especially characteristic of the conaferred, especially characteristic of the conative consciousness. The term has been variously and loosely used in modern psychology. In those systems which are still dominated by philosophical influences it denotes a primary and irreducible experience of self-causation or free initiative. To the psychologist who looks upon mind as a system of organic functions activity is given with the direction of the course of consciousness, knowingly or unknowingly, upon a determinate end: a particular mental process is the first term of a definite series, the remaining members of which it evokes in their order, while the series reaches its natural conclusion when the end is attained. In this sense, however, mental activity becomes practically synonymous with mental function itself, since the limiting cases of anoëtic sentience and involuntary movement are still self-determined in just so far as conaclouaness is inactivity

rolved in them. Lastly, there are psychologists who, investigating mind as a stream of mental processes, predicate of it neither activity nor passivity, but hold that the antithesis of active and passive has no more place within psychology than the antithesis of subjective and objective. However, they still employ the terms, in obedience to traditional usage, as descriptive names of mental states or mental complexes; they speak, for example, of factive Attention, meaning attention that is equiverally conditioned; and of a feeling of activity which accompanies the state of active attention. Such a terminology, however harmless in intention, can only add to the existing confusion.

actol (ak'tol), n. [act + -ol.] A trade-name for silver lactate, C₃II₅O₃Ag, a substance used as a soluble antiseptic. It must be kept

from the sunlight.

Actuality theory, in psychol., the theory that psychology deals with the immediate and underived reality of experience, while the natural sciences, as abstracting from the knowing subject, deal only with mediate experience: opposed to the theory of substantiality or of mind-substance. W. Wundt (trans.), Outlines of Psychol., p. 314.

actuarian (ak-tū-ā'ri-an), a. Same as actua-

acuate, a. 2. Having an elongate smooth form pointed at one end; needle-shaped; applied to sponge-spicules.

II. n. An acuate monactinellid spongespicule.

[NL. (L. as a doubtful reading), dim. of aculeus: see aculeus.] In bot., a minute aculeus or priekle.

acupunctuate (ak-ŭ-pungk'tŭ-ât), r. t.; pret. and pp. acapunctuated, ppr. acapunctuating.
[L. acus, needle. + punctuare, prick: see punctuate.] To prick with a needle; acapuncture.

stop.

Acutalis (ak-ū-tā'lis), n. [NL. (Fairmaire, 1846), < L. acutus. pointed.] A genus of tree-hoppers of the homopterous family Membracidæ. A. dorsalis is found in considerable numbers on cidæ. A. dorsalis is found in considerable numbers on many the northern United States in July. It is more properties of the northern United States in July. It is more properties of the constant of the consta Acutalis (ak-ū-tā'lis), n. cidæ. A. dorsalis is found in considerable numbers on grape-vines in the northern United States in July. It is known as the black-backed tree-hopper.

acuteness, n. (e) In musical acoustics, relative elevation of pitch in a sound or tone, produced by greater frequency of vibration: opposed to gravity. The higher the pitch, the greater is the acuteness.

acutilingual (a-kū-ti-ling'gwal), a. [L. acutus, sharp, + lingua, tongue.] Having a sharpsharp, + lingua pointed tongue.

acutiplantar (a-kū-ti-plan'tār), a. sharp, + planta, sole. In oraith. having the tarsus sharply ridged on its posterior face. Ridgeay, Birds of North and Middle America,

acutish (a-kū'tish), a. [acute + -ish1.] Rather acute; specifically, in bot., barely acute or

verging toward an acute form.

acutorsion (ak-ū-tor'shon), n. [L. acus, needle,
+ torsio(n-), twisting.] In surg., an operation for arresting hemorrhage from a wounded artery by passing a needle beneath the vessel, twisting it, and passing it out over the vessel.

acutospinous (a-kū-tō-spi'nus), a. [L. acutus, sharp, + spina, spine.] Having sharp spines. sharp, + spina, spine.] Having sharp spines. Adamkiewicz's reaction. See *reaction. acyanoblepsia (a-sī'a-nō-blep'si-ā), n. Same Adams-Stokes disease. Same as Stokes-Adader's-tongue, n. 2. A name sometimes

as acyanoblepsy.

acyclic, a. 2. In dynam., not having the property of whirling or moving in circles.

The system now behaves, as regards the co-ordinates q_1, q_2, \ldots, q_m , exactly like the acyclic type there contemplated.

Encyc. Brit., XXVII. 570.

3. Irregular in course; not occurring with normal periodicity.—4. In chem., containing no cycle or ring: said of organic compounds which contain no ring of atoms.—Acyclic surface, a surface such that any closed curve upon it can contract to a point without leaving the surface.

acyesis (a-si-ê'sis), n. [NL., \ Gr. à- priv. + κίησις, conception, \ κυείν, conceive.] 1. Inability to conceive; barrenness.—2. The con-1. ln-

dition of non-pregnancy.

acyl (as'il), n. [ac(id) + -yl]. A name introduced by Liebermann to designate an acid radical such as acetyl, C_0H_3O . acyl (as'il), n.

acylate (as'i-lāt), v. l.; pret, and pp. acylated, ppr. acylating. [acyl + -atcl.] To introduce an acyl-group into; especially, to prepare an acyl derivative of an organic compound con-

speak incorrectly, < ἀκυρος, unauthorized, improper (< ἀ-priv. + κύρος, authority), + λόγος, speech.] Faulty diction. [Rare.] **Acystosporea** (a-sis*tő-spő'rē-ä), n. pl. [NL., < Gr. ἀ-priv. + κύστις, bladder, + σπόρος, seed (see spore).] A suborder of Sporozoa, of the order Hæmosporidia. It contains those forms in which the trophozoite is an amouboid henamoeba or is of simple body form and is typicady endoglobular throughout the schizogonous cycle. Analternation of hosts occurs in many cases, schizogony taking place usually in a warm-blooded vertebrate host, while sporozony occurs in an invertebrate host, usually an arthropod. Compare *Hæ-

Acystosporidia (a-sis"tō-spō-rid'i-ä), n. pl. [NL., as Acystospor-ea + -id-ia.] A group of protozoan cell-parasites infesting certain vertebrates. They are found mainly in red blood-corpuscles, but also in the kidney, liver, and intestinal epithelium. In blood they cause hypertrophy of the corpuscles and diminution of the hemoglobin. They are associated with malaria in man and with Texas fever in cattle. See *Hamamæbilæ and *Gymnosporidia.

A simplified spelling of add.

Ada (ã'dä), n. [NL., appar, from the feminine name Ada.] A genus containing two species of epiphytal orchids native to northern South América, sometimes grown in choice collections under the same conditions as Odontoglosenm

aculeolus (ak-ŭ-le'o-lus), n.; pl. aculeoli (-li). adactylia (a-dak-til'i-ä), n. [NL.. (Gr. a- priv. + δάκτυλος, finger or toe: see dactyl.] In teratol., a congenital lack of some or all of the fingers or toes.

acuminate, a. (c) In ichth., drawn out in a adactylism (a-dak'til-izm), n. Same as *adactylism (a-dak'til-izm), n. Same as *adactylism (a-dak'til-izm), n.

adagio, adr. and a. dagio, adr. and a. Special varieties of movement or style are indicated by adding other terms, as: adagio assai or molto, very slow; adagio non troppo, slow, but not too much so; adagio cantabile or sostenuo, slow, with tuate.] To prick with a needle; acupuncture, acupunctuation (ak"ŭ-pungk-ţŭ-â'shou), n. Same as acupuncturation.

acuta (a-kŭ'ti), n. [NL.: see acute, a.] In organ-building, an unusually shrill mixturestop.

A leader or guide.] A leader or guide. Miss Yonge,

Adamantins layer or substance, the enamel of the

adamantoblast (ad-a-man'tō-blast), n.

adamantoblast (ad-a-man to-blast), n. [Gr. a degree con abduaç, adamant, + βλαστός, germ.] In embryol., one of the cells which produce the enamel of the teeth. Same as *ameloblast.

adamellite (ad-a-mel'it), n. [(Monte) Adamellite (ad-a-mel'it), n. [(Monte) Adamello, in the middle Alps, +-itr².] In petrog., add, r. t.—Ad voice supplem the conduction to the described of the consential has a sub-titude for the described of the consential has a sub-titude for the described of the consential has a sub-titude for the described of the consential has a sub-titude for the described of the consential has a sub-titude for the described of the consential has a sub-titude for the described of the consential has a sub-titude for the described of the consential has a sub-titude for the c stitute for tonalite, and described as a granular igneous rock of the group intermediate between granite and diorite, containing orthoclase and plagioclase feldspars with hornblende and biotite. Brögger uses the term for highly quartzose monzonites.

Adam Kadmon (ad'am kad'mōn). [Heb. 'ādām kadmōn, 'ādām ha-kadmōn, 'the first In cabalistic doctrine, the primordial man.'l man, the image of God, emanating from the Ensoph, the Infinite, and representing the Eser Sephiroth, the ten attributes of the deity. See *Sephiroth and *Nachash Hakadmon.

ams *discase

adz.nal (ad-ā'nal), a. [L. ad, to, + anus, anus.] Extending to the anns: as, the *udanal* plate, in *Arachnida*, a plate-like selerite reaching to the anus.

adangle (a-dang'gi), adr. [a³ + dangle.] Hanging loosely; in a dangling position or condition; daugling. Browning, Men and Wo-N, E, D. men, i. 37.

Adapisoricidæ (ad "a-pi-sō-ris'i-dē), u. pl. [NL., < Adapisarex (< Adapis, a genus of monkeys, + Norex, a genus of insectivores) + -ida.] A family of extinct insectivorous mammals related to the moles, but more highly specialized. The type genus, Adapisorex, about the size of a hedgehog, is from the Lower Eocene of Reims, France.

adapoid (ad'a-poid), a. [Adap-is + -oid.] Related to the Adapidæ.

adapt, r. t. 4. Same as *immunize.

Bordet heated for half an hour to 56° C. some of the lytic scrims secured by adapting the guinea-pig through subcutaneous injections to the red blood cells of the rabbit. He found that it had completely lost its new lytic power.

Med. Record, Feb. 14, 1903, p. 246. taining a hydroxyl- or amino-group.

acyrology (a-si-rol'ō-ji), n. [L. acyrologia, < metakroologia, < aκυρολογείν, adj., < ακυρολογείν, adaptation, n. 4. Same as *immunization.—

Adaptation product. See *adaptation product.—Constitutional adaptation constitutional impregnation. See *impreputation. Punctional adaptation in biol., the adjustment of an organism by its own activity to changed conditions, considered as a cause of change in its structure. The notion of functional adaptation as prior to and the cause of structure rests upon the belief that an organism can do things for which it has no adaptive machinery. H. E. Crampton, Biometrika, March-July, 1904, p. 114.—Law of adaptation, in sociol., the assumption that social groups acting upon one another universally adapt themselves to a certain end, namely, further social development.—Ontogenetic adaptation, an adaptive change which is produced in an organism by its own activity and is not transmitted to descendants, as contrasted with a change which is congenital and is transmitted to descendants; a useful acquired character. H. F. Osborn, Science, Oct. 15, 1897.—Visual adaptation, the adjustment of the eye, by the pupilary mechanism and by retinal changes, to a change in the color or brightness of its surroundings. The eye may berome adapted either to a change of the total field of vision (general adaptation) or to local and partial changes within a given field (local adaptation). Adaptation itself may be partial or complete.

adaptationist (ad-ap-tā'shon-ist), n. One who believes that social phenomena must be explained as adaptations to environment and accounted for by collective causes rather than

by individual efforts.

adaptation-product (ad-ap-ta/shon-prod/ukt), A substance produced in the body of an animal of one species by immunization with eells or eellular products derived from the body of an animal of an alien species. Also called reaction-substance. It has a specific effect upon the body used in immunization which, generally speaking, is antagonistic to the immunizing substance. In this relation also called antibody or antisubstance. Examples are the various antitoxins, cytotoxins, agglutinins, and precipitins. See *immunits.

adapted (a-dap'ted), p. a. Specifically, resulting from immunization; as, an adapted serum. adapter, n. 6. In photog, an attachment to a camera by means of which plates of sizes other than those for which the camera is de-

signed may be used.

adaxial (ad-ak'si-al), a. [L. ad, to, + axial.] In bot., in a plane facing the axis. See the

The ovaries [in Casuarina] are flattened laterally, in contrast to the adaxial flattening of the wiogs in Pinus.

Bot. Gazette, XXXVI. 104.

A. D. B. An abbreviation of Artium Domesticarum Baccalaurea, Bachelor of Domestie Arts, a degree conferred by some institutions upon

An abbreviation of Hide-de-camp. -2. An abbreviation of Anodic Duration Contruction: used in electrotherapy.

add, r. t.—Added part or voice, in music, a part or voice supplementary to the principal melody or to the essential harmony. Thus in polyphonic writing a counterpoint may be called the added part or voice, in distinction from the cantus; or when a solo part is combined with a chorus it may be called the added part or or the cantus.

addental (a-den'tal), n. [ad- + dental.] In ichth., one of the bones of the upper jaw, joined to the premaxillary in front: synony-

mous with maxillary.

mous with maxillary.

adder 1, n.—Banded adder, Bungarus fasciatus of southern 4sin.—Berg adder, Clotho (or Vipera) atropos of South Africa.—Blowing-adder, a harmless hog-nosed snake of North America belonging to the genus Heterodon.—Horned adder, Clotho cornuta of North Africa: not to be confounded with the horned viper, Certates cornuta, also of North Africa, but more abundant and more deadly.

given to the bart's-tongue, Phyllitis Scolopen-drium. See Scolopendrium.—3. Any of the eastern species of Erythronium or dog-tooth violet. The white adder's-tongue is E. albidum.

—Adder's-tongue family, the Ophioplosaceæ, including Ophioplosam, the adder's-tongue fern.

Addie's process. See *process.

addigital (a-dij'i-tal), a and n. [ad-+digital.]

I. a. In ornith., attached to a digit (the third).

Addigital remex, the primary attached to the first phalanx of the third digit of a bird's wing.

II. n. Same as *addigital remer.

addiment (ad'i-ment), n. [NL. *addimentum,

\(\cdot \) \(\) \\ \(\) \(

Dr. Longcope gives a study of the bacteriolytic action of human blood in disease, and Dr. Walker surveys the various factors in bacteriolytic action, from which he deduces the fact that the complement or addiment is a product of disintegration of leucocytes.

Nature, Feb. 19, 1903, p. 373.

Its different forms depend adding-machine, n. adding-machine, H. Its different forms depend either on the totalizing principle, on the principle of a train of gears whose ratio is 10 to 1, or on both. In a convenient form the figures are arranged like the keys of a type-writer in vertical rows from 1 to 9. By depressing the key for the proper figure in the row of units, tens, hundreds, etc., the result of the addition appears in figures. Such machines are much used in banks, offices, not manifest. + uoρφή, form.] A term applied ures. Such an and factories.

addition, n.—Algebraic addition, addition in which the signs (+ and -) of the quantities to be added are considered. The result is the difference between the sums of the positive and of the negative quantities, with the aign of the greater.—Relative addition, such a combination of two relative terms as will produce a third term expressing the relation in which any relate, A, of the first term added would stand to any correlate, C, of the second term added if, and only if, every object in the universe, say X, were either such that A was in the first relation to X, or such that X was in the second relation to C. For example, in the universe of whole numbers, the number 4 stands to the number 2 in the relation which results from the relative addition of "is prime to" to "is a multiple of." since 4 is prime to every number unless to a multiple of 2. This operation was introduced into logical algebra in 1882 by C. 8, Peirce, and has generally been employed, although Whitehead and others hold it to be of little ntility.

addition-compound (a-dish on-kom pound),

addition-compound (a-dish'on-kom"pound), n. Same as *addition-product. addition-product (a-dish'on-prod"ukt), n. In

chem., a compound formed by the direct addition of one element or compound to another. It is contrasted with substitution-product, in which one element or group is substituted for another. Also called addition-compound.

additions force, in astron., the radial component of a disturbing force when it increases the attraction of a satellite toward its primary, especially of the moon toward the earth: opposed to ablatitious force, which diminishes the attraction. The force is addititious when the satellite is in quadrature with the disturbing body (usually the sun), ablatitious when in syzygy,

addograph (ad'ō-grāf), n. [L. addere, add, + Gr. γράφειν, write.] An adding-machine with a device for recording results on a type-writer.

address, n.—Forms of address. See *form.

addressing-machine, n. These machines are of several kinds: (a) A small apparatus, operated by hand, for entting from a prepared paper ribbon of printed addresses one address at a time and pasting it on the wrapper. (b) A machine for stenciling addresses, etc., on wrappers or cards. The stencils, made on parchment and reinforced by a cardboard frame, are prepared by a perforating-device attached to a type-writer. When ready, the stencils are placed in alphabetical order in the hopper of a special form of stenciling-press and automatically fed to the inking-roller and then passed to the press, which forces enough ink through the stencils are then relieved of surplus ink and delivered to another hopper, which retains them in regular order ready for use again. The machine stencils the addresses on a continuous roll of paper, and cuts off, counts, and delivers the wrappers in the same order as that of the stencils. (c) A press for printing addresses, etc., from embossed type. The addresses are embossed in a special form of power type-writer on ribbons of type-metal, and are then, in a special machine, cut apart and fitted with locking hinges, and made up by hand into chains or ribbons. A ribbon on a spool in placed in a power printing press and automatically fed to the inking-rollers and to the press; each addressed type-plate is printed in turn, and the chain is rewound on another apool. The addresses are printed on a continuous roll, cut, and counted in regular order. A smaller machine of this type is fed by hand and operated by footpower. address, n.- Forms of address. See *form.

addressograph (a-dres'ö-graf), n. [address + Gr. γράφειν, write.] A special form of foot-power addressing-machine employing endless chains of embossed metal type or chains of movable rubber type. See *addressing-machine.

ade (ād), n. [Detached from lemonade, lime-ade, orangeade.] A drink of the lemonade or orangeade class. [Colloq.]

They make a superior ade which rivals lemon or lime de.

Science, Feb. 13, 1903, p. 263. ade

Adelaide ruby, sovereign. See *ruby, *sov-

Receipt. Adelea (ad-ē-lē'ā), n. [NL. (A. Schneider, 1875), appar. (irreg.) \langle Gr. adoplo, not manifest, unseen.] A genus of Coecidia, of the family Polysporocystidæ, having the dizoic spores spherical or compressed and the sporocysts smooth. The various species are parasitic in

myriapods and insects.

adelite (ad'e-līt), n. [Gr. ἀδηλος, not manifest. + ite². The allusion is to the indistinct crystallization.] A basic arseniate of calcium and magnesium, of a grayish color, occurring in embedded grains and rarely in monoclinic

crystals: found in Sweden.

adeloceratous (ad "ē-lō-ser'a-tus), a. Same as adelocerous.

adelocerous (ad-ē-los'e-rus), a. Having con-

adelocerous (ad-e-los g-rus), a. Having concealed antennæ. Same as cryptocerous.

Adelochorda (ad*ē-lō-kôr'dā), n. pl. [NL., \(Gr. åδηλος, not evident, + χορδή, chord. \)] A subphylum and elass of Chordata including the genera Balanoglossus, Rhabdopleura, and Cephalodiscus. The distinctive features of the group are the presence of the presumed rudimentary representative of a notochord and of the zill-slits. The group is not homogeneous, and the affinities of its membera to Chordata are denied by some zoologista.

not manifest, + μορφή, form.] A term applied to the so-called chief or central cells of the gastrie mueosa, which supposedly furnish the pepsin and chymosin. W. D. Halliburton,

pepsin and chymosin. W. D. Halliburton, Chemical Physiology and Patnology, p. 633.

Adelops (ad'ē-lops). n. [NL. (Tellkampf, 1844), ⟨Gr. ἀδηλος, not evident, + ὑψ, eye.] A genus of beetles of the family Silphidæ. They inhabit caves, where their larvæ feed upon the dung of bats and other cave-inhabiting animals. About 30 species are known painly from European cave. cies are known, mainly from European caves. Adelop hirtus lives in the Mammoth Cave of Kentucky.

Adelosiphonia (ad "ē-lō-sī-fō'ni-ä), n. pl. [NL.

CGr. άδηλος, not evident, + σίφων, pipe.] A group or section of anomalodesmaceous pelecypoid mollusks, or Arephala. They constitute a subdivision of the superfamily Anatinacea and comprise those mollusks which have short siphons and a well-defined lithodesma. The genus Pandora is an example. adelphiarchal (a-del'fi-är-kal), a. [Irreg. \langle Gr. $a\delta\varepsilon\lambda\phi\epsilon$, brother, $+a\rho\chi\delta\epsilon$, ruler, +al.]

Relating to a form of government exercised by the men assembled in council, the members of the council being considered as brothers. See the extract.

In this way the women sitting in clan council constituted the primary legislative body, while their brothers sitting in tribal council formed a senate or final legislative body whose decisions were binding on the executives of clans and tribes; so that the social organization may be classed as adalphiarchal (like that of the Seri Indians described in earlier reports) in principle, though largely patriarchal in detail. Smithsoman Rep., 1901, p. 77.

adelphic (a-del'fik), a. [Gr. ἀδελφικός, brotherly or sisterly, < ἀδελφός, brother, ἀδελφίκ, sister.] In math., pertaining to the connectivity of a surface. - Adelphic order, in math., the connectivity. adelphogamy (a-del-fog a-mi), n. [Gr. $a\delta\epsilon\lambda\phi\delta\varsigma$, brother, + $\gamma\dot{a}\mu\alpha\varsigma$, marriage.] That form of brother, + γάμος, marriage.] That form of Morren.
polyandry in which a number of brothers have adenophlegmon (ad e-nō-fleg mon), n. a wife in common. J. W. Powell.

αδήν, gland, + φλεγμονή, inflammation.]

Among other privileges beatowed on the bride during the probationary period are those of receiving the most inflammation of a gland.

Among other privileges beatowed on the bride during the probationary period are those of receiving the most inflammation of a gland.

adenopodous (ad-e-no-p'e-dus), a. [gland, $+\pi o i g$ ($\pi o \delta$ -), foot, + -ous.] having the petiole or pedunele gland $-\pi o i g$ ($\pi o \delta$ -), foot, $\pi o i g$ ($\pi o i g$), foot, $\pi o i g$ ($\pi o i g$).

adelphotaxy (a-del'fō-tak-si), n. [Gr. ἀδελφός, brother, $+ \tau \acute{a} \ddot{\xi} \iota \varsigma$, disposition, order.] In biol., the movement of certain motile cells in relation to each other: a term proposed by Hartog in 1888.

(a-demp'ted), p. a. Same as adempted

adenase (ad'e-nas), n.

adendric (a-den'drik), a.
-ic.] Same as *adendritie.

adendritic (a-den-drit'ik), a. [a-18 + dendritic.] In neurol., having no dendrites: said of nerve-cells which have only the neuraxon

or axis-cylinder process. adenin (ad'e-nin), n. [Gr. $a\delta\eta\nu$, gland, $+\cdot in^2$.] One of the purin or xanthin bases, $C_5H_5N_5$. It has been obtained from the lymph glands, spleen, thymus gland, kidneys, etc.

adenocheirus (ad e-nō-ki'rus), n.; pl. adenocheiri (-n̄). [NL., < Gr. ἀδήν, gland, + χείρ, hand.] In Turbellaria, one of the outgrowths from the atrial walls in the genus Artioposthia which serve as accessory copulatory organs. See *adenodactylus.

adenochondrosarcoma (ad/e-nō-kon/drō-särkō'mä), n.; pl. adenochondrosareomata (-ma-tä). A mixed tumor containing the elements of

adenoma, chondroma, and sarcoma.
adenocyst (ad'e-nō-sist), n. Same as *adeno-

adenocystic (ad/e-nō-sis'tik), a. Same as *adenocustomatous.

adenows. adenows. adenows. $(ad\%e-n\bar{o}-sis-t\bar{o}'m\bar{a}), n.; pl. adenowstomata (-ma-t\bar{a}). [NL., <math>\langle Gr. a\delta h v, gland, + \kappa i \sigma \tau v c, bladder (see eyst), + -oma.]$ An adenoma containing cystic cavities.

adenocystomatous (ad e-nō-sis-tō ma-tus), a. Relating to or of the nature of adenocystoma. adenodactylus (ad *e-nō-dak 'ti-lus), n.; pl. adenodactyli (-lī). [NL., < Gr. ἀδήν, gland, + δάκτυλος, finger.] In Turbellaria, one of the outgrowths from the atrial walls in the genns Artioposthia which serve as accessory copulatory organs. See *adenocheirus.

adenofibroma (ad/e-nō-fī-brō'mā), n.; pl. adenofibromata (-ma-tä). A glandular tumor eon-sisting largely of an overgrowth of fibrons tissue

adenoid. a.--Adenoid disease, pseudolencocythemia. — Adenoid tumor. Same as adenoma. — Adenoid vegetations, massea of lymphoid tissue, similar in structure to the tonsila, situated at the posterior wall of the upper end of the pharynx. When hypertrophied, as they often are in children, these vegetations may obstruct the pas-age of air through the posterior narea and so necessitate mouth-breathing. Also called pharyngeal tonsil and Luschka's tonsil.

n. An adenoid growth; specifically, an adenoid vegetation.

adenolipoma (ad "e-nō-li-pō'mä), n.; pl. adenolipomata (-ma-tä). [NL., ζ Gr. αδήν, gland, + λίπος, animal fat, +-oma.] A glandnlar tumor consisting largely of fatty substance.

adenolymphoma (ad*e-nō-lim-fō'mā), n.; pl. adenolymphomata (-ma-tā). [NL., < Gr. āōp, gland, + L. lympha, lymph, + -oma.] Same as lymphadenoma.

Adenoma destruens. [L., destructive adenoma.] An adenoma, usually of the atomach, intestinea, or uterus, which has taken on malignant characteristics. Also called adenocarcinoma.

adenomalacia (ad "e-nō-ma-lā'si-ā), n. ζ Gr. αδίρ, gland, + μαλακία, softness, ζ μαλακός, soft.] Pathological softening of glands.

adenomatome (ad-e-nom'a-tom), n. [Gr. ἀδίν, gland, + -τομος, < ταμείν, cut.] An instrument employed in the removal of adenoid growths. employed in the removal of adenoid growths, adenomyxoma (ad/e-nō-mik-sō'mä), n.; pl. adenomyxomata (-ma-tä). [NL., ζ Gr. aδην, gland, + μύξα, mucus, + -oma.] A tumor composed of glandular and mucous tissue.

adenomyxosarcoma (ad/e-nō-mik/sō-sär-kō'mä), n.; pl. adenomyxosarcomata (-ma-tä). [NL., \langle Gr. $a\acute{o}\acute{\eta}\nu$, gland, + $\mu\acute{v}\xi a$, mueus, + $\sigma\acute{a}\rho\xi$ ($\sigma a\rho\kappa$ -), flesh, + -oma.] A tumor composed of

glandular, mucous, and sarcomatous elements. adenopetaly (ad e-no-pet a-li), n. [Gr. ἀδήν, a gland (nectary), + πέταλον, leaf (petal).] The transformation of nectaries into petals.

αδήν, gland, + φλεγμονή, inflammation.] Acute inflammation of a gland.

In bot., having the petiole or peduncle glandular.

adenoscirrhus (ad enō-sir'us), n.; pl. adeno-scirrhi (-rī). [NL., < Gr. άδην, giand, + scir-rhus.] A hard cancer which involves a gland. rhus.] A hard eancer which involves a adenosclerosis (ad e-no-sklē-rô sis), n.

 \langle Gr. $a\delta\eta\nu$, gland, $+\sigma\kappa\lambda\eta\rho\omega\sigma\iota$ ς, a hardening: see sclerosis.] Induration of a gland. Induration of a gland.

adenostemonous (ad e-no-ste'mo-nus), a. [Gr.

adempted (a-demp' ted), p. a. Same as adenostemonous (aa"e-no-ste'mō-nus), a. [Gr. adeemed. See adeem.

adenase (ad'e-nās), n. An autolytic ferment found in certain glands which transforms adenin into hypoxanthin.

adendric (a-den'drik), a. [a-18 + dendron + -ic.] Same as *adendritic (a-den-driti'ik), a. [a-18 + dendron' adendritic (a-den-driti'ik), a. [a-18 + a-18 + a-18 + a-18 + a-19 +

lating to adenyl.—Adenylic acid, a nucleinic acid obtained from the thymna gland. On decomposition it yielda guanine, adenin, cytosin, and thymnaic acid.

yleta guanne, auenn, cytosin, agu myntaic aca.

Adeps lanæ, purified fat of sheep's wool, containing not over 30 per cent. of water.

adermia (a-der'mi-ä), n. [NL., < Gr. ἄδερμος, without skin, < ά-priv. + δέρμα, skin.] Partial or complete congenital absence of the skin.

adessive (ad-es'iv), n. [L. ad, at, + essc, be, + -ive. Cf. abessive.] In gram, a syntactic case expressing position at some spot or loeality. A. S. Gatschet, Grammar of the Klamath Language, p. 486.

Adetopneusia (ad″e-top-nū′si-ä), n. pl. [NL., (†) Gr. άδετος, unbound, loose, + πνεῦσις, a blowing, (πνεῖν, blow, breathe.] An order of Stelleroidea, the Cryptozonia.

adetopneustic (ad e-top-nū stik), a. [Gr. άδε-τος, unbound, loose, + πνευστικός, ζ πνείν, τος, unbound, loose, + πνευστικός, ζ πνείν, breathe.] Bearing papulæ or dermal branchiæ beyond the abactinal surface.

ad eund. An abbreviation of the Latin ad

adevism (ä'dā-vizm), n. [Skt. ádeva, hostile to the geds, \(\lambda \)-priv. + deva, a god (see deva), + -ism.] Hindu 'atheism' in the sense of a denial of the old 'devas': a proposed term distinguished from atheign. distinguished from atheism.

ad fin. An abbreviation of ad finem (which

adgustal (ad-gus'tal), n. [L. ad, to, + gustus, taste (suggesting 'palate'), + -al.] In ichth., a name given by Geoffroy to the pterygoid bone which forms part of the palatoquadrate arch. adha (ad'ha), n. [Nepalese ādhā, half.] A silver coin of Nepal equal to half a muhr or

one fourth of a rupee.

adharma (a-dar'mä), n. [Skt.] Unrighteousness; injustiee: personified in Hindu mytholadharma (a-dar'mä), n. ogy as the destroyer of all things.

perheat (a quantity of steam) by adding to it a

quantity of very highly superheated steam.

adherence, n. 6. In the theory of aggregates, the aggregate of all those points of a pointaggregate which are not limiting points (that is, limits of endless series of points): called the adherence of the point-aggregate; the aggregate of all the remaining points is called its coherence.

adhesion, n. 10. An expression of, or the act

by which one expresses, acquiescence in, adherence to, and support of some statement, deherence to, and suppor claration, or preposal; assent; concurrence.

Up to June 30, 1,787 adhesions to the congress had been

The series of a diaphoretic (ad i-af-ō-rev in), a. a. a diaphoretic.]

Adhesion weight, the weight which is producing triction; specifically, the weight on the driving wheels of a locomotive.—Primary adhesion, secondary adhesion. Same as *union by first intention and *union by second intention.—Traction of adhesion. Traction of adhesion.

Adhesional (ad-hō'zhon-al), a. [adhesion + adhesional (ad-hō'zhon-al), a. [adhesion + adhesional (ad-hō'zhon-al), a. [adhesion + adiathermancy (a-dī-a-ther'man-si), n. [a-18] + diathermancy.] The character of being adiathermancy; the property by virtue of which a substance absorbs the invisible heat-onnessed to diather-annessed to diather-anne running on a plane rail, is prevented, through the weight of the engine, from slipping on the the weight of the engine, from slipping on the rail by its adhesion thereto. When the power of the cylinder applied to turn the wheel exceeds this effect of adhesion, and friction of motion ensues by the slipping of the wheel on the rail, the tractive power becomes less. When the grades become too steep for adhesional traction because the cylinder-diameter necesary to overcome the resistance will cause the wheels to slip, the tractive effort must be exerted through toothed gears meshing into a rack or toothed rail, while the weight may be still carried ou smooth rails by ordinary wheels.

adhesion-rail (ad-hē'zhon-ral), n. roading, a traction-rail as distinguished from adillah (ä-dil'ä), u. a guard-rail or a third rail; the ordinary rail of a track. Sometimes called scrvice-rail and stock-rail

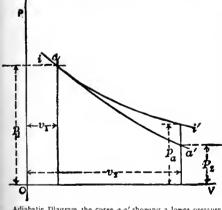
A simplified spelling of adhesive. adhesiv, a. Adhesive papilla. See *papilla. adhvaryu (ad-vär'yö), n. [Skt. adhvaryu, <

adhvara, religious ceremony.] A Brahman priest who assists in reciting the prayers of the Yajur-Veda and performs manual labor at sacrifices.

adiabat (ad'i-a-bat), n. [Gr. ἀδιάβατος, not to be passed over: see adiabatic.] An adiabatic

curve or line.

Adiabatic compression, compression exerted or occurring under conditions in which heat neither leaves nor enters the substance compressed.— Adiabatic diagram, a graphic method of representing by adlahats the changes as to temperature, pressure, and condition experienced by a noit mass of gas by virtue of any pos-



Adiahatic Diagram, the curve a a' showing a lower pressure at the end of expansion than given for the isothermal diagram v it usurates the typical relations of pressure and volume. Horizonta sbecissas proportional to volumes (V, v); vertical ordinates proportional to pressures (P, ρ) ; $(O, \operatorname{origin})$.

sible adiabatic change. The adiabatic diagrams for moist air by Hertz (1884) and Neuhoff (1903), and Clapeyron's indicator-curve of the steam-engine, are familiar examples r examples

adiagnostic (a-dī-ag-nos'tik), a. [a-18 + diagnostic.] Not diagnostic; specifically, in petrog.. a term, proposed by Zirkel (1893), applied to the phaneroerystalline texture of rocks when the mineral particles, though recognizable, are not specifically determinable without special test: opposed to *eudiagnostic.

Adianthidæ (ad-i-an'thi-(le), n. pl. [NL., \(Adianthus, \) a genus (for "Adiantus, \(\) Gr. \(\alpha \) inverted: see Adiantum, \(+ \) -idæ.] A family of extinct ungulate mammals of the suborder Liopterna, found in the Eocene of Patagonia.

adheat (ad-hēt'), v. t. [ad- + heat.] To su- adiantiform (ad-i-an'ti-fôrm), a. [NL. Adian- adj. bot., having the form or character of Adiantum or maidenhair. Eucyc. Brit., XXXI. 417. Adjectival phrase, a phrase that is or may be used with the force of an adjective: as, a much to be desired result; and applying the force of an adjective: as, a much to be desired result; and applying the force of an ever to be forgotten occasion.

adiaphanous (ad-i-af'a-nus), a. [a-18 + diaphanous.] Not transparent; opaque.

adiaphon (ad'i-a-fén), n. [G., \(\) adiaphonon.]

A form of pianoforte (patented in I882) in which the sound is produced from tuning-feals intended of from twing-feals intended of from twing-feals.

forks instead of from strings: essentially similar to the older adiaphonon.

of pianoforte, invented by Schuster in 1819, in which the sound is produced from steel bars instead of from strings.

rays of the spectrum: opposed to diathermaneu.

adiathermanic (a-di-a-ther'man-ik), a. [a-18+ diathermanic.] Same as adiathermic.

adiathetic (a-dī-a-thet'ik), a. [a-18+diathetic.] In pathol., occurring without reference to preëxisting constitutional tendency or diath-

Adibuddha (ä-di-bö'dä), n. [Modern Skt., & Skt. ūdi, the beginning, + Buddha, Buddha.] The first Buddha.

A money of Malwa, equal

to half a piec.

Adimeridæ (ad "i-mer 'i-dē), n. pl. [NL., < Adimerus + -idæ.] A family of clavicorn beetles. In these beetles the tarsi appear to have but two joints, a broad first and a long terminal one, but they have in fact two minute joints between, hidden by the broad basal joint. This structure is unique among the Coleoptera and is found only in the American genus Adimerus

Adimerus (a-dim'e-rus), n. [NL. (Sharp, 1894), ζ Gr. ά- priv. + διμερής, two-parted, two-jointed.] The typical and sole genus of beetles of the family Adimeridae, consisting of several Central and South American species.

Adinia (a-din'i-ä), n. [NL, ζ Gr. ἀδινός, crowded, loud.] A genus of killifishes of the family Pæciliidæ, found in the Rio Grande region.

adipogenic (ad "i-pō-jen'ik), a. [L. adeps ng.] Hav-(adip-), fat, + Gr. -γενής, -producing.] Having the property of producing or of storing fat: as, the adipogenic function of the digestive gland in invertebrates. Jour. Roy. Micros. Soc., Feb. 1905 p. 47 eb., 1905, p. 47.

adipogenous (ad-i-poj'e-nus), a. [L. adeps (adip-), fat, + Gr. -γενης, -producing.] Fatproducing; productive of adipose.

adipohepatic (ad*i-pō-hō-pat'ik), a. [L. adeps (adip-), fat, + Gr. ἡπατικός, of the liver: see hepatic.] Same as *adipogenic. Jour. Roy.

Micros. Soc., June, 1904, p. 303. adipolytic (ad'i-pō-lit'ik), a. [L. adeps (adip-), fat, + Gr. λυτός, ζλίειν, dissolve.] See *lipo-

adipomatous (ad-i-pom'a-tus), a. [adipoma(t-) -ous.] Same as lipomatous.

Adipose degeneration. See *degeneration.—Adipose lobe, a small appendage apringing from the base of the vectral fin of some fishes, as the salmon and the trout. Usually known as an auxiliary scale.

Adiposis dolorosa, a disease of the nervous system marked by the formation of irregular masses of fat beneath the skin, especially that of the arms and legs, which are the seat of considerable pain. Also called Dercum's disease.

Adiposorex (ad "i-pō-sō reks), n. [L. adeps (adip-), fat, + sorex, a shrew-mole.] A genus of small shrew-moles from the Lower Eocene. Adiscota (ad-is-kē'tā), n. pl. [NL., < Gr. ά-priv. + δίσκος, disk, +-ota (see -ote).] A group of diptereus insects. It was based by Weismann upon developmental characters, and includes those forms in which the parts of the fly's head are developed in close relation to those of the larva.

aditus (ad'i-tus), n.; pl. aditus. [NL., < L. aditus, approach: sec adit.] An approach; an adit. Specifically: (a) Io sponges, same as prosodus. (b) In anat., an opening leading into a cavity.—Aditus ad antrum, the communication between the tympanum and the mastold cells.—Aditus ad infundibulum, the opening between the infundibulum and the third ventricle of the brain.—Aditus laryngis, the superior opening of the larynx, or rima glottidis.

An abbreviation of Adjudged, Adjourned. tum, genus of ferns, + L. forma, form.] In adjectiv, a., n., and v. t. A simplified spelling of adjective.

adjective, n.—Participial adjective, a participle used in an adjective relation, as in the phrases a running stream, a cultivated field, a practised hand, molten iron.—Proper adjective, an adjective derived from a proper name, as American from America, Calvinistic from Calvin, Newtonian from Newton.

adjectivism (ad'jek-tiv-izm), n. Tendency to excessive use of adjectives. G. S. Hall, Adolescence, II. 467.

adjectivity (ad-jek-tiv'i-ti), n. [adjective + -ity.] Tendency to a free use of adjectives. Athenæum, April 14, 1894, p. 469.

Adjoint curve. Same as adjunct *curve. adjudicative (a-jö'di-kā-tiv), a. That adjudicates or adjudges; that embodies the award, decision, or decree in an adjudication or adjudgment: as, the adjudicative part of a seutence. [Rare.] N. E. D.

Adjunct curve. See *eurre.

adjunction, n. 4. In math., the precess of ob-

taining the domain $\Omega(a)$ from the domain Ω by adding to it the number a which does not already belong to it, and adding also all numbers arising from a finite number of additions, subtractions, multiplications, and divisions involving a and all numbers in the domain Ω . See the extract.

By the adjunction of i to the domain of rational numbers $\Omega(1)$ we obtain the domain of complex numbers $\Omega(1,i)$. F. Cajori, Theory of Equations, p. 135. $\Omega(1,i)$.

adjurn, v. A simplified spelling of adjourn.

Adjusted drainage. See *drainage.
adjuster, n. 2. In hardware, any appliance
used to regulate the movement of a blind, sash, hitching-strap, shaft, or other moving object in a wagon, house, etc.: as, a casementadjuster, a pole-adjuster, a window-stop adjuster.—3. In insurance, an officer of an insurance company whose duty is to determine the amount to be paid under a policy of insurance when a partial loss has been sustained.

In Great Britain they are for the most part members of the Average Adjusters' Association, a body which has done and is doing much careful work with a view to making and keeping the practice uniform and in accord with right principles.

Eucyc. Brit., XXVI, 32.

adjustment, n. 6. In an exacter sense than 2, the operation of modifying the relations be-tween a set of things or other objects so as to make these relations conform to some requirement, especially so as to bring them into conformity with relations between elements of a formity with relations between elements of a plan or purpose. Thus the adjustment of a transit instrument consists, first, in turning it rounds vertical axis until its axis of rotation (in using it) is nearly enough in the plane of the prime vertical; second, in radsing or lowering one end of the latter axis until it is nearly enough in the plane of the horizon; and, third, in shiftengithe wires until the collimation is near enough to zero.

7. Specifically, the medification of a set of statements so as to bring them into harmony with one another and with some preposition. with one another and with some proposition treated as absolutely true. Thus in geodesy, after an extensive triangulation is complete it will be found that the observed values of the angles do not exactly agree with the principles of geometry and the assumed figure of the earth, which would give rise to much inconvenience. Accordingly by an elaborate series of modifications skilful computers modify the values so that the sum of the squares of all the changes shall be the least possible requirements; and this operation is termed the adjustment of the triangulation. Owing to the fact that the rules are derived from the calculus of probabilities, and that the adjusted values are the most probable that can be assigned, it might be supposed that the purpose was merely to ascertain the most probable values; but the superiority of the adjusted values in that respect is very small and the major consideration is consistency. with one another and with some proposition

8. In biol., a change which is brought about in a living being by its own activity and is not transmitted to descendants, as contrasted with a change which is congenital and hereditary; an acquired character. J. M. Baldwin, Develan acquired character. J. M. Baldwin, Development and Evolution, p. 142.—Methods of adjustment, in psychophys., a group of methods employed for the determination of the relation between stimulus and sensation. The term is used in two senses: (a) for methods in which the observer himself varies a given stimulus until it appears equal to a second, constant stimulus, for example, Fechner's method of average error (see *method); (b) for methods in which a variable stimulus is adjusted, whether by experimenter or observer, to the required relation to a constant stimulus, for example, Wundt's method of minimal changes (see *method).—Proceases of adjustment, in physiog., changes in the courses of streams by means of which they come to sustain definite and stable relations to the rockstructures beneath .- Topographic adjustment. See

A tributary is in topographic adjustment when its gradient is harmonious with its main.

Chamberlin and Salisbury, Geol., I. 154.

Adjutant's call, in mil. music, a signal on the drum directing the band to pass to the right of the line. adlea (äd-iá'ä). u. A billon coin of Tripoli. issued in 1827, plated with gold and forced into

currency at the value of one dollar.

adlerglas (åd ler-glås), n. [G., 'eagle-glass.'] A large drinking-glass having on it enameled paintings of the double-headed eagle of the Holy Roman Empire and armorial bearings of 50 principalities and towns: common in Germany in the seventeenth and eighteenth cen-See *wicderkom. turies.

adlumidine (ad-16 mi-din), n. [Adlumia (see def., +-ine².] An alkaloid, C₃₀H₂₉O₉N, found in Adlumia fungosa. It melts at 234° C.

adlumine (ad-lö'min), n. [Adlumia + -iuc2.] A dextrorotatory alkaloid, C₃₉H₃₉O₁₂N, found Adlumia fundosa,

A. D. M. An abbreviation of Latin Artisem Domesticarum Magister, Master of the Domestie Arts.

Adm. An abbreviation of admiral.

admedial (ad-me'di-al), a. [ad- + medial.] Same as admedian.

admezure, r. t. A simplified spelling of admea-

administration, n.-All-the-Talents Administraadministration, ".—All-the-Talents Administra-tion, an ironical name given to the British ministry of 1806-07, in allusion to the distinguished ability of its members.—Limited administration, administration of a personal estate in which the powers of the adminis-trator are granted for a special purpose and are strictly defined and confined to the matters set forth in special or limited letters of administration.

Administrative county. See *county1.

admiralty, n. 1. (b) The members of this body are officially designated as the Commissioners for Executing the office of Lord High Admiral of the United Kingdom of Great Britain and Ireland. The commissioners include Civil Lords, Naval or Sea Lords, and Secretaries. The First Lord of the Admiralty is a civilian and the responsible. civil Lords, Naval or S-a Lords, and Secretaries. The First Lord of the Admiralty is a civilian and the responsible political head of the organization. Absolute power within the Admiralty, subject only to the King and Parhamen, is vested in him. The Sea Lords, four in number, are naval officers, usually admirals. The First Sea Lord makes preparation for war and advises on all large questions of naval policy. He is responsible for the efficiency of the fleet and the distribution of ships. He controls the Intelligence, Hydrographical, and Xival Ordanice departments. The Second Sea Lord is responsible for all questions relating to the personnel of the navy, including manning of the fleet and appointment of officers. The Third Sea Lord and Controller has charge of the matériel of the test and has under him the Director of Naval Construction and the Engineer-in-Chief. He is also responsible for the administration of the Royal Dockyards. The Fourth or Jamor Sea Lord deals with transport, coaling, victualing, and stores, and with questions relating to pay, medals, uniforms, prisons, collisions, etc. The Civil Lord deals with public works, the civil staff, etc. The Parkiamentary and Financial Secretary has charge of finances, accounts, and expenditures. The Permanent Secretary signs in the name of the Admiralty, and has charge of the general secretariat, correspondence, etc.—Admiralty coefficient. See *coefficient.

admission, n. 8. Specifically, in engin.: (a) Entrance of motor fluid (as steam, air, or water) into a cylinder for the purpose of driving a piston. (b) The portion of a full traverse of a piston during which the motor fluid is allowed to enter the cylinder. (c) The point in the traverse at which such entrance of motor fluid

begins.

admission-line (ad-mish'on-līn). n. That line of an indicator-diagram which is made by the pencil of the indicator while steam is being admitted to the cylinder.

admission-port (ad-mish'on-port), n. The

steam-port or -passage through which the entering steam gains access to an engine-cylinder. In engines of ordinary construction, each port is alternately supply and exhaust, though it is usual to apply the latter term only to the port which exhausts directly into the atmosphere. (Lockwood.) In Corliss engines the admission- and exhaust ports are separate.

admission-valve (ad-mish'on-valv), n. valve which controls the admission of steam, gas, air, or water to a motor- or compression-

vlinder.

admittance, n. 6. The reciprocal of the impedance in an alternating-current circuit or the ratio of alternating current divided by the electromotive force consumed by the current. See impedance. The components of admittance are the *conductance and the *susceptance (which see).

admotive (ad-mo'tiv), a. [ad- + motive.] Characterized by motion toward: as, admotive germination. Syd. Soc. Lex. adnasal (ad-na'zal), n. [L. ad, to, + nasus,

nose: see nasal.] In ichth., a name given by Geoffroy to the premaxillary bone

adnatum (ad-na'tum), n.; pl. adnatu (-tii).
[NL.: see adnate.] In horticulture, a small or secondary bulb which forms from the old bulb

and eventually supplants it; a clove.

adnephrin (ad-nef'rin), n. Same as *adrena-

adnexa (ad-nek'sä), n. pl. [L., neut, pl. of adnexus, pp. of admeetere, anneetere; see annex.]
Connected or associated things; specifically, in anat., appendages or structures to a main organ.—Adnexa oculi, the lids, muscles, and other parts in relation with the globe of the eye.—Adnexa uteri, the Fallopian tubes and ovaries.

adnexal (ad-nek'sal), a. Relating to adnexa, especially to the uterine adnexa.

adnominally (ad-nom'i-nal-i), adv. nal +-ly2.] As an adnoun or adjective: as, a

As an automn of adjective, as, a verb used adnominally.

Adobe concrete, a building material prepared by mixing broken stone with adobe clay before it is dried or fired.—

Adobe mortar, adobe mad prepared specially to serve as mortar in laying adobe brick.

adoccipital (ad-ok-sip'i-tal), u. of the fissures of the brain near the occipital in the caudal portion of the precuneus.

adolescence, n.—Topographic adolescence, in phys. geog., a stage in the development of relief which is marked by well-established river-drainage.

adolescent, a. 2. In phys. geog., noting that stage of land-seulpture, between youth and maturity, in which some rapids still remain even in the larger streams .- Adolescent river. See triver

adolescential (ad-ō-le-sen'shal), a. Of or pertaining to the period of adolescence.

sentially of a high-power telephoto combination so set as to transmit parallel rays. When used in front of an ordinary lens in a 'fact-focus' camera it gives an enlarged image without disturbing the focal adjustment. The elements of the adon are, however, adjustable so that it can be used with varying effect when the camera permits of focusing. Used by itself it acts as a high-power telephotographic lens.

adonidin (a-don'i-din') " [1.4] [1 adon (a-don'), n. A device which consists es-

adonidin (a-don'i-din), n. [Adonis (-id-) (see def.) + -in².] A glucoside of uncertain composition obtained from Adonis vernalis: said to resemble digitalis in its physiological action.

to resemble digitals in its physiological action.

adonin $(ad'\tilde{o}-nin)$, n. [Adonis (see def.) +
-in².] A very bitter non-erystalline glueoside, $C_{24}H_{40}O_{9}$, found in Adonis Amurensis.

adonite $(ad'\tilde{o}-nit)$, n. [Adonis (see def.) +
-ite².] An optically inactive pentite, $C_{5}H_{7}$ (OH)₅, found in Adonis vernulis and also
formed by the reduction of ribose. It melts at 102° C.

adonitol (a-don'i-tōl), n. [As adonite + -ol.] Same as *adonite.

adoperate (ad-op'e-rāt), r. t.; pret. and pp. adoperated, ppr. adoperating. [ML, adoperari, & L. ad, to, + operari, work: see operate.] To bring into use or operation; apply; use. Sir J. Hayward, Eromena, p. 88. N. E. D. adoperation (ad-op-e-ra'shon), n. Application; use, as of means to an end. Peacock, Melin-

adopter, n. 2. An apparatus for the rapid leveling of a compass, consisting of a spindle, ball, and ball-socket.

adorbital (ad-or'bi-tal), n. [L. ad. to, + or-bita, orbit: see orbit.] In ichth., the preorbital

Adoxaceæ (ad-ok-sā'sē-ē), n. pl. [NL. (Fritseh, 1891), \(\) Adoxa + -acex. \(\) A family of dicotyledonous, sympetations plants of the order Rubicles. It contains only the genus Adoxa, and is characterized chiefly by the split or 2-parted stamens inserted on the tube of the corolla.

adoxaceous (ad-ok-sā'shius), a. INL. Adoxace-w + -ous.] In hot., having the characters of or belonging to the family Adoxaceæ

ad placitum (ad plas'i-tum). [ML., NL.] pleasure: in music, noting a free part contrapuntal work which is not bound by the strict rules of imitation; especially, in a canon, noting a voice-part that does not follow the subject exactly.

adradial, a. 2. Pertaining to an adradius: as, the adradial organs of an echinoderm.

adradius (ad-rā'di-us), n.; pl. adradii (-ī). [NL, < L. ad, to, + radius, ray.] One of the eight radii which lie between the perradii and the interradii in animals which exhibit radial symmetry. Compare perradius and interradius.

adrenal, n.—Accessory adrenals. See Marchand's **adrenals.—Marchand's adrenals, isleta of adrenal tissue found in other parts. Also called accessory adrenals and adrenal rests. II. a. Situated near or in contact with the

kidney: specifically, noting i.e adrenal or suprarenal glands.—Adrenal extract, a medicinal preparation made from the suprarenal glands and believed to be the internal secretion of these bodies. It increases blood-pressure and constricts the vessels, and is employed to arrest hemorrhage and to diminish mucous secretion. See **adrenalm*.—Adrenal gland. Same as adrenal, n.—Adrenal rests. See **Marchand's **adrenals**. renals

adrenalin (ad-ren'a-lin), n, [adrenal + -in².] The active principle of the adrenal glands, first isolated by a Japanese chemist, Takamine. Its probable formula is $C_{10}H_{13}NO_{3}\cdot H_{2}O$. It is practically identical with Abel's epinephrin, and is a powerful heart-atimulant and hemostatic. See **adrenal ex-ract.

adrenalone (ad-ren'a-lôn), n. [udrenal + -onc.] A ketone, (HÖ)₂C₆H₃COCH₂NHCH₃, prepared by the oxidation of a derivative of udrenalin

Adrianist (a'dri-an-ist), n. Same as Adrian-

Adriatic, a. 2. In anthrop., of or pertaining to the racial type represented by Albanians and Serbo-Croatians, characterized by tall stature, elongated face, and short head. Deniker, Races of Man, p. 285.

adsmith (ad'smith), n. One whose business is the writing of advertisements: as, the art of the adsmith. W. D. Howells, Lit. and Life, [Humorons stang.]

adsmithing (ad'smith-ing), n. The trade of

an 'adsmith.' [Humorous slang.]
adsorb (ad-sôrb'), r. t. [L. ad, to, + sarbere,
suck in. Cf. absorb.] To gather (a gas or
liquid) on the surface in a condensed layer. Thus solids, such as glass, gather gases and liquids with which they are in contact.

a due (ä dö'e). [It.] By twos: in music, employed when two voices or instruments use the same staff, to indicate that the two are to pro-

ceed in unison; opposed to divisi.

adularescence (ad-ū-la-res'ens), n. [adular(ia) + -escence.] The chatoyaney of the adularia + -escence.] The chatoyaney of the adularia variety of feldspar; the moon-like sheen of the moonstone, best visible when the stone is cut with a convex dome.

adult, n. 2. Specifically: (a) In civil law, a male infant who has attained the age of fourteen, or a female infant who has attained the age of twelve. (b) In common law, one of the full age of twenty-one. Bauvier, Law Diet.

adulterin, a. and n. A simplified spelling of adulterine.

adulterism (a-dul'ter-izm), n. A name or word that has been corruptly altered. [Rare.] N.E. D. adulthood (a-dult'hud), n. [adult, a., +-hoad.]
The state of being adult or completely developed: as, in full vigor and adulthood. Couden Clarke. N. E. D.

adumbra (ad-um'brā), n.; pl. adumbræ (-brē). The penumbra, in an eelipse of the moon.

adumbrella (ad-um-brel'a), n. [NL. (L. ad. to. + umbrella, a little shade.] The upper surface of the velum in jelly-fishes: distiuguished from exumbrella.

aduncirostrate (a-don-si-ros'trāt), a. [L. aduncus, hooked, + rostrum, beak, + -atel.] Having a hooked beak, as birds of prey.

adurol (ad-u'rol), n. A trade-name for two compounds used as photographic developers. Adurol "Schering" is bromhydroquinone, C₆-H₃Br(OH)₂; adurol "Hang" is chlorhydroqui-

At adv. An abbreviation of advocate.

advaita (äd-vī'tā), n. [Skt. advaita, non-duality, unity, <a-priv. + dvaitā, duality, < dvi-, two.] The pantheistic doctrine of the Vedanta school of Hindu philosophy, taught especially in Shankara's commentary on the upanishads. The doetrine is that atman, self, is Brahman, the Absolute.

advance, n. 13. The angular interval in excess of 90° which the center-line of an engineeccentric makes with the center-line of the engine-erank. It is given to enable a valve with lap, which will work the steam expansively, to begin admission of steam at or before the dead-point of the piston-traverse. See angular advance of an eccentric, under angular.

14. In fencing, a quick move of the right foot a few inches forward, followed instantly by

the left foot, but so that the fencer keeps his equilibrium and is ready for parry, or the for-

ward lunge of the right foot.

advance-growth (advans'grōth"), n. In forestry, young trees which spring up in accidental openings in the forest or under the forest

Æacus (who was a son of

Æacus (who was a son of cover, before reproduction cuttings are begun.

see volunteer *growth.

advancement, n. 6. In surg., an operation for strabismus, consisting in dividing the tendon of the healthy muscle, bringing the end forward, and fastening it to the eyeball forward of its former point of insertion.

advancing (ad-van'sing), n. The act of taking or of giving an advanced position; advancement; promotion; furtherance. [Obsolete or rare.

Advent Sunday, the first Sunday in Advent, or that nearest St. Andrew's day (Nov. 30).

adventitial (ad-ven-tish'al). a. Same as adventitious. Jour. Exper. Med., VI. 69.

adventitious, a. 4. In phytogeog., naturalized

from a distant formation: opposed to *vicine. A term proposed by Pound and Clements. Compare adventitious, 2.

adventurism (ad-ven'tūr-izm), n. The ways, habits, and schemes of the adventurer or adventuress; the practices, pretenses, or experiences of those who live by their wits.

adventuresum, a. A simplified spelling of adventuresome.

adverb, ?:.—Plat adverb, a substantive or an adjective placed in an adverbial position (so called by J. Earle, Philol. Eng. Tongue, § 430): as, forest wild; to look bad; to walk slow; "with foreheads villations low," Skak, Tempest, iv. 1. 274. Some adverbs of this type are, however, reduced forms of Middle English or Anglo-Saxon adverbs with an adverbial suffix (-e), from the adjective with which they have later become identical in form. with which they have later become identical in form.

—Flectional adverb, an adverb formed of a case of a formerly inflected noun, as mornings, evenings, needs, darkling, upward (gentitives), whilom, seldom (datives); as, he is usually at home evenings; "he must needs go through Samaria," John iv, 4; "the wakeful bird sings darkling," Milon, P. L., Ili. 38, 39.—Phrasal adverb an adverb consisting of a phrase or clause; an adverblal clause; as, of course, of a truth, at random, in an instant, little by little. Relative adverb, an adverb which is derived from a relative pronoun, relates to an antecedent, and usually introduces an adverblance have where, whence: as, at the place where the accident occurred; at a time when he was not expected.

adverbial, ".— Adverbial clause, in gram., a clause or phrase which serves as an adverb: as, he met with an accident on his way home.

II. n. An adverbial word or clause, as truly, exceedingly, of course, to-day, as soon as he

adverbiation (ad-ver-bi-ā'shon), n. [NL. *adverbiatio(n-), \langle L. adverbium, adverb.] An extended phrasal adverb. See the quotation.

Room must be given to the term Adverb to let it take Room must be given to the term Advert to let II take in all that appertains to the description of the condition and circumstances attendant upon the verbal predication of the sentence. . . . I would propose that for anche xended phraseological adverbs we adopt the title of Adverbiation. J. Earle, Philol. Eng. Tengue, p. 431.

adverbism (ad'vèrb-izm), n. Tendency to an excessive use of adverbs. G. S. Hall, Adolescence, II, 467.

advertisemental (ad-ver-tiz-men'tal), a. [advertisement + -al.] Relating or pertaining to advertising or to advertisement. [Rare.]
advisal (ad-vi'zal), n. [advise + -al.] Advice; counsel. J. S. Blackie, Æschylus, l. 197.

[Rare.]

A simplified spelling of advise.

L. ad, to advize.

advolution (ad-vo-lū'shon), n. [L. ad, to, + rolvere, roll: formed on type of evolution.] An onward rolling or unfolding: progressive development; the theory of evolution considered with regard to its trend or ultimate developments. See the extract.

Why should Evolution stop with the Organic? It is surely obvious that the complement of Evolution is Advolution, and the inquiry, Whence has all this system of things come, is, after all, of minor importance compared with the question, Whither does all this tend?

H. Drunmond, Nat. Law in Spiritual World, p. 401.

adynamandry (a-din-a-man'dri), n. [Gr. divaµoc, without power, + ἀνήρ (ἀνδρ-), man (male).] In bot., self-sterility; incapability of self-fertilization. Delpino.
adynamical (a-di-nam'i-kal), a. Not dynamical

The properties of electric and magnetic force are explicable upon dynamical principles; so far there is no known necessity for seeking for adynamical properties in ether.

Jour. Inst. Electric Engineers (Brit.), 1889-1900, p. 396.

adz-block (adz'blok), n. A solid oblong block of iron or steel, square in section, which carries Ægocera (ē-gos'e-rā), n. [NL. (Latreille, 1809),

the cutters or plane-irons of a wood-planing machino. Lockwood.

A son or descendant of

Zeus and Ægina, and after death a judge in the lower world), especially:(a) Peleus; (b) Achilles; (c) Teleus; (b) Achilles; (c) Telamon; (d) Ajax.—Racid ahield, the shield of the Telamonian Ajax, which was represented on the coins of ancient Salamis in Greece. It assumed a peculiar form resembling types found in the Dipylon and Mycenean periods.

aeae (\ddot{a} - \ddot{a} - \ddot{a} ' \ddot{a}), n. waiian = Maori akcake, warian = Maori accake, the name of a small tree (see *ake).] A name in Hawaii of Lycium Sandwicense, an erect shrub by permission of the Council.) from two to three feet

high, with stiff, smooth branches. It grows along the sea-ceast, and bears n red berry which is edible but not very palatable. Also called ohelo-kai.

æcial (ē'shial), α. [〈 Gr. αἰκία, an injurious effect.] Same as æcidial. J. C. Arthur.

Ecidial form, atage. Same as æcidiostage. æciospore (ē'si-ō-spōr), n. [Gr. αἰκία, an injurious effect, + σπορά, a spore.] Same as æcidiospore. J. C. Arthur.

æcium (e'shium), n. [NL., ζ Gr. αίκία, an injurious effect.] A term proposed by J. C. Arthur for the æcidial stage of the rust fungi,

Tredinales. Same as æcidiostage.

Aëdes (ā-ē'dēz), n. [NL. (Meigen, 1818), ζ Gr. aηδής, unpleasant, odious, ζ ā- priv. + ήδις, pleasant.] A genus of small mosquitos of the pleasant.] A genus of small mosquitos of the dipterous family Culicidæ. They have the palpil in both sexes less than half as long as the proboscis (2-jointed in the male and 4-jointed in the female), and have no bluish scales on the upper side of the thorax and no bristlea below the scutellium. Several species are known. Aëdesfuscus inhabits the northern United Statea.

**ggagropila*, n. 2. [cap.] pl. Marine algae which form more or less spherical masses and are freely driven from place to place.

are freely driven from place to place.

ægagropilous (e-ga-grop 'i-lus), a. [Gr. aiγαγρος, the wild goat, + L. pila, a ball, + -ous.] Noting the dense tufted condition assumed by certain alge, particularly the cladophoras. Athenæum, IV. 363.

ægialosaur (ē-ji-al'ō-sâr), n. A reptile of the genus Ægialosaurus.

ægicrania (ë-ji-krā'ni-ā), n. pl. [NL., < Gr. atā' (aiy-), goat, + kpavier, skull.] In Rom. antiq., the heads of goats or rams used in the sculptured decoration of altars: suggested by the custom of hanging up the heads of victims.



.1 gicrania. - Altar in the Vatican, Rome.

Æginidæ, n. pl. 2. A family of Narcomedusæ, having a circular canal communicating with the stomach by double peronial canals, with internemal gastral pouches, and without otoporpæ. It contains the genera Ægina, Ægineta, Æginopsis, and others.

Æglina (ē-glī'nä), n. [NL., ζ Gr. Άίγλη, a nymph, +-ina¹.] A genus of asaphid trilobites. They are remarkable for their immense compound eyes, which give them a strikingly larval aspect: found in the Lower Silurian of Europe.

ζαίξ (ἀιγ-), goat, + κέρας, horn.] An interesting genus of East Indian moths of the family Agagenes of Lass Indian motios of the family Against the male of A.tripartita makes a peculiar clicking noise while flying; it is produced by a special structure on the front wing, which is rubbed against the spines of the front teet.

Ægoceratidæ (ē-gō-se-rat'i-dē), n. pl. [NL.,< * Egocerus, (Gr. aiξ (aì) oc), goat, + κέρας (κερα-τος), horn, + -idæ.] A family of ammonoid cephalopods or ammonites. They have smooth, discoidal shells with broad umbilicus and highly specialized complicated septal sutures. The species occur in the Triassic formation.

Ælurodon (ē-lū'rō-don), n. [Gr. αἴλουρος, a cat or a weasel, + odor (-ovtog), a tooth.] A genus of Canidæ of the North American Micene, with affiliations with the bears.

ælurophobia (ē-lū-rō-fō'bi-ä), n. [Gr. αἰ/ονρος, eat, + -φοβία, ζφοβεῖν, fear.] A morbid dislike or fear of cats.

aëneofuscous (ā-ē/nē-ō-fus'kus), a. [L. aëneus, of brass. + fuscus, fuscus.] In entom., of the color of dirty brass.

aëneolithic (ā-ē "nē-ō-lith' ik), a. [L. aëneus, brazen, + Gr. λίθος, stone.] Pertaining to the period in which both metal and stone implements were used: a term introduced by Italian archæologists.

aëneous (ā-ē'nē-us), a. [L. aëneus, of brass.] In entom., having brassy or metallic reflections.

enigmatite (ê-nig'ma-tit), n. A rare triclinic member of the amphibole group. It occurs in black prismatic crystals in the sodalite-syenite of southern Greenland and similarly elsewhere. It is a titano-silicate of ferrous iron and sodium.

Æolian, n. 2. Same as Æolic.

Eolic digamma, the digamma (which see).

æolidoid (ē-ol'i-doid), a. [æolid + -oid.] Having the form or characters of the Eolididæ.

æolina, n. 2. An organ-stop of a thin, delicate tone.

æolipile, n. 2. A form of blast-lamp for use in chemical laboratories, in which an alcohol flame is deflected by a stream of alcohol vapor escaping from a jet, this vapor being produced from liquid alcohol in a little boiler over the original flame.

wolodicon (\bar{e} - \bar{e} -lod'i-kon), n. [Gr. $Aio\lambda o_c$, $Aio\lambda$ variety by the blows of hammers upon steel springs, and in another from free reeds, as in the harmonium. Neither form attained artistic importance.

æolodion (ē-ō-lō'di-on), n. [Gr. Αξολος, Æolus, + Gr. $\phi \delta h$, song, + -ion, as in melodion.] Same as *wolodicon.

æolomelodicon (ē"ō-lō-me-lod'i-kon), n. [Gr. Αἰολος, Æolus, + μενφόος, musicul (see melodion), + -icon, as in harmonicon.] A musical (aon), + -tcon, as in harmonicon.] A musical instrument of the pipe-organ class, invented by Hoffmann of Warsaw about 1825. Its chief peculiarity was that metal tubes were placed in front of the mouths of the pipes, to impart to them special qualities initating various instruments and to strengthen the tone. The use of these resonators was under the control of the player. Also called choraleon.

æolopantalon (ē " o - lo - pan ' ta - lon), n. Aloxoc, Æolus; second element uncertain.] æolomelodicon having a pianoforte attachment which could be used with or without the organ tones.

æolophon (ē'ō-lo-fōn), n. [Appar. G., < Æolus + Gr. -φωνος, < φωνή, sound.] A form of seraphine.

æolotropism (ē-ō-lot'rō-pizm), n. The state or condition of æolotropy.

æonial, a. See *conial.

æonologe (ē'on-ǫ-lōj), n. [Gr. aiών, an age, + -λόγιον, < λέγειν, tell: formed on type of horologe.] An imagined clock that measures time by eons or ages. See the quotation. [Rare.]

The horologe of earth . . . is no measure for the wonologe of heaven.

F. W. Farrar, Early Days of Christianity, p. 511.

æqualis (ē-kwā'lis), n. [L., equal.] In gram., the case which expresses similarity (like, similar to). Also called similative. Barnum, Essen. of Innuit, p. 17.

Æquidens (ē'kwi-denz), n. [NL., < L. æquus, equal, + dens, tooth.] A genus or subgenus of South American Cichlidæ: they resemble the sunfishes of the north.

aërage (ā'e-rāj), n. [F. aérage, ζ L. aer, ζ Gr. áἡρ, air.] "Airing; ventilation.

aërate, r, t.—Aërating plants, epiphytes.—Aërating roots, roots which rise out of the water or mud, provided with a loose corky tissue with large cellular iote-spaces adapted to aëration, as the "knees" of the hald

aërenchyma (ā-e-reng'ki-mā), n. [NL., ⟨ Gr. app, air, + ε̄γ γνμα, infusion.] A tissue consisting of thin-walled eells with large, intercellular spaces, adapted to aëration. It occurs in the stems of certain marsh plants. Schenk.

aërialist (ā-ē'ri-al-ist), n. [aërial + -ist.] An aërial navigator; one skilled in aëronauties.

aërobia, n. pl.—Facultative aerobia, bacteria, normally suserobic, which have acquired the capacity of living and growing in the presence of oxygen.

aërobic (ā-e-rō'bik), a. Same as aërobian.— Facultatively aërobie, having the ability to live either in the absence or in the presence of oxygen.

aërobiont (ā-e-rō-bī'ont), n. Same as aërobe. aërobioscope (ā e-rō-bi ō-skōp), n. An apparatus for collecting bacteria from the air.

aërobium (ā-g-rō'bi-um), n. Singular of aërobia (which see).

aëro-club (á'e-rō-klub"), n. [Gr. àŋɔ, air, + E. club.] A elüb or association devoted to the promotion and praetice of aëronautics or aviation.

aërocondenser (ā "e-rō-kon-den'ser), n. $a\eta\rho$, air, + E. condenser.] A form of surface-eondenser for changing the vapor of water, or any other vapor, back into a liquid by the withdrawal of heat by means of a rapid circulation of air. It is much used as a means of cooling and condensing in motor-vehicles. The vapor to be condensed is contained in a chamber through which pass a great number of tubes, the air being made to move at speed through the latter.

aëroconiscope (ā/e-rō-kon'i-skop), n. tëroconiscope (ā"e-rō-kon'i-skōp). n. [Gr. $a\eta\rho$, air, + κόνις, dust, + σκοπείν, view.] An apparatus for collecting dust for future examapparatus of concerning due for interfer examination. Also aërokoniscope. R. E. Maddox. aërocurve (ā'e-rō-kerv), n. [Gr. άψρ, air, + L. curvus, curve.] A curved surface intended for the support, in the air, of a gliding- or a flying-machine. See *aëroplane, 1.

One of the most difficult questions connected with the problem of aerial navigation is the longitudinal stability of a machine supported on aero-planes and aero-curves.

Rep. Brit. Ass. Advancement of Sci., 1902, p. 524.

cö. eyor the neet wire drom), n. [Gr. ἀηρ, air, + the Intelligence, llyar n.] 1. A flying-machine departments. The Secona

admission, n. 8. Specifically, in engin.: (a) Entrance of motor fluid (as steam, air, or water) into a cylinder for the purpose of driving a piston. (b) The portion of a full traverse of a piston during which the motor fluid is allowed to enter the cylinder. (e) The point in the traverse at which such entrance of motor fluid

admission-line (ad-mish'on-lin). n. That line of an indicator-diagram which is made by the peneil of the indicator while steam is being admitted to the eylinder.

admission-port (ad-mish'on-port),

steam-portor-passage through which the entering steam gains access to an engine-cylinder. In engines of ordinary construction, each port is alternately supply and exhaust, though it is usual to apply the latter term only to the port which exhausts directly into the atmosphere. (Lockwood.) In Corliss engines the admission and exhaust-ports are separate.

admission-valve (ad-mish'on-valv), n. The valve which controls the admission of steam, gas, air, or water to a motor- or compression-

gas, air, or water to a motor- or compressioncylinder.

6. The reciprocal of the impedance in an alternating-current circuit or the ratio of alternating current divided by the electromotive force consumed by the current.

See impedance. The components of admitting the selectromotive force and the selectromotive force consumed by the current.

See impedance. The components of admitting a voice-part that machine moves through subject exactly.

It alight framework covadradial, a. 2. Pertaining angle shove the horizontal angle so used are also called adradius (ad-ra'di-us), in which apport in the [NL., < L. ad, to, + radius] in which appoint of the wings of birds the interval in a property of the subject exactly. admittance, n. 6. The reciprocal of the im-See impedance. The components of admittance are the *conductance and the *susceptance (which see).

(when see).

admotive (ad-mō'tiv), a. [ad-+ motive.]

Characterized by motion toward: as, admotive germination. Syd. Soc. Lex.

adnasal (ad-nā'zal), n. [L. ad, to, + nasus,

varying pressures of a short column of air whose temperature is constant or is known. Also aërypsometer,

aëroides (a-e-roi'dēz), n. A palo sky-blue variety of beryl.

aëroklinoscope, aërokoniscope, n. See aëroclinoscope, *aëroconiscope.

aeromechanics (\tilde{a}'' e-rō-mē-kan'iks), n. [Gr. $\dot{a}\dot{\eta}\rho$, air, + E. mechanics.] The mechanics of the atmosphere or, in general, of gases; the science of the atmosphere of the science. aëromechanics (ā/e-rō-mē-kan'iks), n. of the action of forces on gases; pneumaties.

aëromotor (ā'e-rō-mō"tor), n. [L. aer, air, + motor, motor.] 1. An air-ship; a vehicle for navigating the air.—2. A form of windmill using metallic vanes or sails.

aëronat ($\bar{a}'e$ -rō-nat), n. [$a\ddot{e}ro$ - + L. nat(are), swim, float.] See the extract. [Rare.]

Aëronat is a dirigible, motor-driven balloon, or air-ship. Sci. Amer. Sup., Feb. 20, 1909.

aëronef (ā'e-rō-nef), n. [F. *aéronef, \(\) L. aer, air, + F. nef, < L. navis, ship.] An airship; specifically, one heavier than air.

aërophagia (å"e-rō-fā'ji-h), n. [NL., < Gr. àŋ, air, + -φayia, < φαyεin, eat.] The swallowing of air sometimes observed in hysteria.

aërophilous (ā-e-rof'i-lus), a. [Gr. ἀήρ, air, + φίλος, loving.] Air-loving: applied to bacteria and other organisms which require air

for their development. See aërobian.
aërophobic (ā e-rō-fō'bik), a. Of or pertaining to aërophobia; afraid of air; having a morbid dread of currents of air.

aërophone, n. 2. An instrument having the in the air. N. E. D. [Rare.] functions of both an ear-trumpet and a speak-aërorthometer (ā er-ôr-thom eter), n. ing-trumpet.

aërophore. n. 2. An instrument for filling with air the lungs of a still-born child.—3. In textile spinning-rooms, a dovice used to diffuse moisture throughout the air. An excess of mois-ture is required both to make shrinksge-effect uniform and to comberact the electrifying action of the rapidly moving belts and other elements of the machines.

aërophorus (ā-e-rof'o-rus), a. [Gr. ἀήρ, air, + -φορος, ζ φέρειν, bear.] Containing or con-+ - ϕ ορος, $\langle \phi \hat{\epsilon} \rho \epsilon i \nu$, bear.] Conveying air: same as aëriferous.

aërophysical (ā "e-rō-fiz'i-kal), α. [Gr. ἀήρ, air, + φυσικός, physical.] Of or pertaining to aërophysics or the physics of the atmosphere; speeifically, relating to the atmospheric condi-

the Intelligence, Ilyar [n.] 1. A flying-machine departments. The Second [n.] 3 and having a motor mauning of the fleet and appoing tho air; specifically, relating to the atmospheric conditions of heat and cold, dryness and humidity. Third Sea Lord and Controller has ind invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the fleet and has under him the Dinard Invented and of the deniration of the administration of the Royal Dinard Invented and of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics (a "e-rō-plāriks), n. [Gr. ἀήρ, air, + E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dryness and humidity.

4 E. physics.] The physics of the atmospheric conditions of heat and cold, dr adop use, as court, IL. adopter, n. leveling of a ball, and ball-s

adorbital (ad-ôi rothers Aëroplane (biplane). bita, orbit: see order; B. dipping planes. hone.

Adoxaceæ (ad-ok-sa 1891), < Adoxa + -o yledonous, sympeta Rubiales. It contains characterized chiefly by inserted on the tube of the adoxaceous (ad-ok-sā's

ce-æ + -ous.] In bot. of or belonging to the fi ad placitum (ad plas'i-ti C, dipping pl pleasure: in music, noti

contrapuntal work which stain a flying-machine strict rules of imitation; eair, or in aerodynamnoting a voice-part that machine moves through

eight radh which he betweethe interradii in animals wl by an engine and symmetry. Compare perraa of the air upon the adrenal, n.—Accessory adrer ed surfaces known tissue found in other parts. Also ves. (See def. 1.) nats and adrenal rests. in "heavier-than-air" II. a. Situated near or in

æthokirrin

machines, by means of the lifting power of aëroplanes (surfaces) were made during the second half of the nine-teenth century. Models of flying-machines of this type, more or less successful, were constructed by Stringfellow in 1847 and 1868 and by Moy in 1874 and Tatin in 1879. But the most important advances toward the solution of the problem were made in the aërodynamical investigations of S. P. Langley and Sir Iliram Maxim, and in the experiments of O. Lilienthal, O. Chanute, and others with gliding-machines. Langley perfected a model of an aëroplane (his "aërodrome") propelled by a steam-engine (burning naphtha), which in November, 1896, flew about three quarters of a mile. Experiments with gliding-machines were begun by Orville and Wilbur Wright in 1900, and on December 17, 1903, an aëroplane constructed by them and propelled by a gasolene motor rose from the ground and made a flight of 260 meters in 59 seconds — the first instance of successful mechanical flight by man. From that time the development of the aeroplane by the Wrights and others (Voisin, Farman, Curtiss, Eleriot, Latham, etc.) has been rapid and extraordinary results have been attained. The machines in successful use are of two geners! types: 'biplanea' (Wright, Curtiss, Voisin, Farman, etc.) having two aëroplanea (surfaces) placed one above the other, and 'monoplanea' (Antonette, Bieriot, etc.) having one aeroplane (surface) or two laterally disposed. On Dec. 31, 1908, Wilbur Wright made, in France, a flight of 2 hours and 20 minutes, a period surpassed on August 7, 1909, by Sommer (2 hrs. 27½ min.) and on Aug. 27, 1909, having one aeroplane (surface) or two laterally disposed. On Dec. 31, 1909, Wilbur Wright and (innofficially) for about seven miles more). Our July 27, 1909, Orville Wright, at Fort Myer, made a cross-country flight of ten miles, with a passenger, at the rate of over 42 miles an hour. A record for apeed was made by Curtiss, In a biplane, at Rhelms on August 28, 1909, when he made 12.42 miles in 15 min. 502 sec.

aëropleustic (ā″e-rō-plös′tik), α. [Gr. ἀήρ, air, + πλευστικός, adj., < πλεῖν, sail.] Of or pertaining to aërial navigation or the art of sailing

 $\dot{a}\eta\rho$, air, $+\dot{a}\rho\theta\sigma$ c, straight, $+\mu\epsilon\tau\rho\sigma\nu$, measure.] An instrument in which an air-thermometer

and a barometer are combined.

aërosphere, n. 2. The spherical mass of any gas surrounding a molecule or atom and temporarily constituting a unit with it.

aërostat, n. 3. In entom., a traeheal dilatation forming an air-sae, as in the abdomen of the honey-bee and certain other insects. [Rare.]

Aërostatic setæ. See *seta.
aërotaxis (ā*e-rō-tak'sis), n. [Gr. ἀήρ, air, +
τάξις, disposition, order.] The movement of cells or organisms in relation to a source or supply of air.

aërotherapy (ā"e-rō-ther'a-pi), n. air, $+\theta\epsilon\rho a\pi\epsilon ia$, medical treatment.] Same as aërotherapeutics.

2. In general, the bending aërotropism, n. 2. In general, the bending or growth of organisms in relation to a source or supply of air. aërypsometer (a"e-rip-som'e-ter), n. Same as

*aërohypsometer. æsaloid (ë'sa-loid), a. [NL. Æsalus, a genns of beetles, + -oid.] Related to or resembling a beetle of the family Æsalidæ.

æschrolalia (es krō-lā/li-ā), n. [NL., < αἰσχρός, shameful, + λαλία, < λαλεΐν, talk.] Indeeeney of speech in the insane.

Æsculaceæ (es-kū-lā'sē-ē), n. pl. [NL. (Lindley, 1841), \ Æsculus + -aceæ.] A family of dicotyledonous choripetalous plants of order Sapindales, typified by the genus Æsculus. See Hippocastanaceæ.

esculetic, a. See *esculetic.
esculotannic, a. See *esculotannic.

Æsopic (ē-sō'pik), a. [L. Æsopieus, ⟨Gr. Aiσωπικός, ⟨ Alσωπος, Æsop.] Same as Æsopian.

Jour. Hel. Studies, XIII. 300.

westhacyte, n. See esthacyte. Esthacyte, n. See esthacyte. Esthacyte. Esthacyte. See esthacyte. Esthacyte. See esthacyte. Czapek. Esthacyte. See esthacyte.

æsthesiomania, m. See *esthesiomonia. æsthetal (es-thē'tal), a. [Gr. οἰσθητός, perceptible (see esthete, esthetic), + -all.] Sensory.

I propose to call the sensory cells, or sense-centres, aesthetal cells. Haeckel (trans.), Wonders of Life. p. 14.

æstivo-autumnal, a. See *estivo-autumnal. æthochroi (ē-thok'rō-i), n. pl. [NL., < Gr. αἰθός, burnt (see Ethiop), + \chipoa, color.] Races of black color; the negroes of Africa, the Melanesians, Papuans, and Australians. Also ethochroi.

æthokirrin (ē-thō-kir'in), n. [Gr. alθος, fire (see cther), + κιρρός, tawny, yellow.] The yellow eoloring matter of Linaria Linaria, the common toad-flax.

ætiatic (ē-ti-at'ik), a. [Also aitiatic, < Gr. aiτιατικός, ⟨ aiτίa, cause: see ætiology and accusative.] Causal, as when a quality is supposed to exist in an object which is suggested by its name; accusative.

As to the whiteness of the dog, it will be ooticed that this is only insisted upon in the passage of Hesychius, and is evidently due to an advatic exposition of the termination.

Cecil Smith, Jour. Hellenic Studies, XIII. 117.

Etiological myth, a myth accounting for the origin of a

Aëtobatinæ (ā"e-tō-bat'i-nē), n. pl. [Aëtoba-tus + -inæ.] A subfamily of sting-rays typi-

fied by the genus $A\ddot{e}tobatus$. **Aëtobatis** (\ddot{a} -e-tob' \ddot{a} -tis), n. [NL., \langle Gr. \dot{a} e $\tau \dot{o}$ ζ , eagle, $+\beta a \tau \dot{i} \zeta$, a ray (fish).] A later variant

*Aëtobatus.

Aëtobatus (â-e-tob'a-tus), n. [NL., $\langle Gr. de\tau \theta \varsigma$, eagle, $+\beta \acute{a}\tau o \varsigma$, a ray (fish).] A genus of stingrays of the family Myliobatidæ. A. narinari is rays of the family Myliobatidæ. A. narinari is affixment (a-fils'ment), n. [affix+-ment.] Same the common species and is widely diffused. It is brown, as attachment.

aëtosaur (ā'e-tō-sār), n. A reptile belonging affixt, pp. A simplified spelling of affixed.

(proposed) division or realm comprising the

to the genus Aëtosaurus.

aëtosaurian (a*e-tō-sâ'ri-an), a. and n. I. a. Pertaining to or having the characters of A:

tosaurus.

II. n. Same as *aëtosaur.

afaint (a-fant'), adv. [a³ + faint.] In a fainting state or on the point of fainting.

affect², n. 3. In psychol.: (a) The felt or affective component of a motive to action; the incentive, as opposed to the inducement, to act. See the extract.

Affects... are the feeling antecedents of involuntary movements; as motives, including affects [and ends], are the inner antecedents of acts of will.

J. M. Bulduin, Handbook of Psychol., 11, 314.

(b) Emotion.—4. In Spinoza's philosophy, a modification at once of the psychic and the physical condition, the former element being called an idea and the latter an affection.

affection, n. 10. In recent psychol, the elementary feeling-process; the pure or qualitatively simple feeling, in which there is no admixture of sensation. See the extract.

They (the mental elements) are very numerous:...but they may all be grouped into two great classes, as sensations and offections.

E. B. Titchener, Primer of Psychol., p. 21.

11. In trigon, relation to $\frac{\pi}{4}$. In right-angled spherical triangles, angle A and side a are either both greater or both less than $\frac{\pi}{4}$. This is expressed by saying that A and a are of the same affection.

12. In law, the making over, pawning, or mortgaging of a thing to assure the payment of a sum of money or the discharge of some other duty or service. Bouvier, Law Dict.

affective, a. 3. In psychol., relating to, characterized by, or consisting of affection: as, the affective side of the mental life; affective the affective side of the mental life; affective experience.—Affective curve, in psychol., a graphic expression of the correlation of some attribute (intensity, quality) of affection with some attribute of stimulus or sensation. B. B. Titchener, Exper. Psychol., 1. 1. 106.—Affective memory, the revival, in affective terms, of past affective experience. Ribot, Psychol. of Emotions, p. 153.—Affective process, in psychol.: (a) An affection. (b) A mental complex of which affection is characteristic or in which it is dominant.—Affective tone, in psychol., affection considered with reference to the sensory or intellectual processes which it accompanies; sometimes, affection considered as an attribute of sensation.

affectivity (a-fek-tiv'i-ti), n. [affective + -ity.] The mental faculty concerned in the emotions, affections, and sentiments; the affective power

of the mind.

The frequency of delusions in their multiform characthe requency of defusions in their multiform characters of degenerative characteristics, of the loss of affectivity, of heredity, more particularly in the children of inebriate, imhecile, idiotic, or epileptic parents, and above all, the peculiar character of inspiration, show that genius is a degenerative paychosis of the epileptoid group.

C. Lombroso (trans.), Man of Genius, p. 359.

affectomotor (a-fek"tō-mō'tor), a. In psychol., combining emotional disturbance with muscular activity: for example, the joyousness and unusual activity of the phase of exaltation in circular insanity constitute an affectomator state.

affiliate (a-fil'i-āt), a. and n. I, a. Occupying the position of or recognized as an adopted son; affiliated. Browning, Ring and Book, x. 392.

II. n. An affiliated person or institution, etc. Tourgéc, Fool's Errand, p. 126. N.E.D. affinity, n. 9. In projective geom., a perspective of which the center is at an infinite distance. $M\ddot{o}bius$.—Affinity constants, in phys. chem., numerical constants by means of which the relative strength of acids of a verticul engine; the housing. or of bases can be expressed, or with which the partition African breadfruit. See *breadfruit.—African Coast

of a base between two acids or of an acid between two bases can be computed.—Clang affinity or relationship. See *clang.—Predisposing affinity, in early chem., a term employed to signify the cause of a chemical change produced by a substance having an affinity or attraction, not for a second substance itself, but for something producible as a result of the change. Thus, using the language of the time, it was said that soda, by its affinity for phosphoric acid, enables phosphorus to decompose carbonic acid (which without the soda it would not do) and form phosphoric acid. This idea has long been discarded.

been discarded.

Affirmative pregnant. See *pregnant.

affix, n. 4. In math., the complex number x + iy is denoted by a single letter, z; the point P, (x, y), is then called the affix of the value z; the number z is also spoken of as the affix of

the noint P

afflictionless (a-flik'shon-les), a. [affliction + -less.] Free from affliction or trouble. T. Hardy,

Far from the Madding Crowd. N. E. D. affrettando (a-fret-tan'do), a. [It., hurrying,' ppr. of affrettare, hurry.] In music, hastening the pace: virtually the same as accelerando or stringendo.

affrettato (ä-fret-tä'tē), a. [It., 'hurried.'] Same as *affrettando.

affrettoso (ä-fret-tō'sō), a. [lt., 'with hurry.']

Same as *affrettando.

affricate (af'ri-kāt), n. [= G. affrikata, \neq NL.

*affricate, \neq L. ad, to, + fricare, rub: see frietor fluinc iib. so as to flatten the sail in a force and aff the ative.] In phonology, an intimate combination of a stop with a spirant or fricative of the same position, as German pf (originally p) in pfemilg, pfeffer, etc., or German z or tz (originally t) in zinn, tin, katze, cat, etc.

affricate (af'ri-kāt), r.t.; pret.and pp. affricated, ppr. affricating. [affricate, a.] In phonology, to utter as an affricate. Scripture, Exper. Pho-

affricative (a-frik'a-tiv), n. Same as affricate.
Sayee, Introd. Sei, Lang.. I. 270.
affrightfully (a-frit'fûl-i), adv. [affrightful

[affrightful + -ly.] In a manner to affrighten, terrify, alarm; terrifyingly: as, to dream affrightfully. [Rare.]

affrunt, v. t. and n. A simplified spelling of

afikomen (af-i-kō'men), n. [Heb., prob. < Gr. επίκωμον, understood as 'an after-meal dessert or pastime,' nenter of ἐπίκωμος, of or for a festival, $\langle ἐπί, for, + κῶμος, a festival: see Comus.$ Others refer it to Gr. ἐπικώμιον, a festal song.] A piece broken off from the middle one of the three thin cakes of unleavened bread, called respectively 'Cohen,' 'Levi,' and 'Israel' (thus representing the whole Jewish nation), used by the Jews at the seder service on Passover eve. by the Jews at the seder service on Passover eve. It is broken off at the beginning of the service, and hidden by the head of the family, who presides at the seder table, until the conclusion of the meal. After the two whole cakes and the unhidden part of the broken cake have been partaken of, with all the proper ceremonies, the aftkomen is euten. See ***zeder**.

been partaken of, with all the proper ceremonies, the sfikomen is euten. See **seder. image. See after-image. image. See after-image. a ftori (ä fi-o'ri). [It.] With flowers: said of a style of pottery decoration which consists of intertwined flowers and birds, characteristic of certain Italian majolica.

The style of the style

of certain Italian majolica. aflicker (a-flik'ér), adv. [a³ + flicker.] In a flickering state or condition; flickering. Browning, Aristoph. Apol., p. 225.

ing, Aristoph. Apol., p. 225.

aflower (a-flou'er), adv. [a³ + flower.] In flower; abloom; flowering. Swinburne, Erechtheus, l. 1147. N. E. D.

aflush¹ (a-flush'), adv. [a³ + flush¹.] In a flushed or blushing state; aglow; ablush.

aflush² (a-flush'), adv. [a³ + flush².] On a level.

aftush² (a-flush²), adv. [a³ + flush².] On a level; in the same plane: as, aflush with the sea. Swinburne, Studiesin Song, p. 169. N.E.D. affutter (a-flut'er), adv. [a³ + flutter.] In a flutter or commotion; agitated; fluttering. Browning, Men and Women, ii. 147.

a foglie (ä föl'ye). [it.] With leaves: said of

a style of decorative treatment in which leaves of trees form the principal motive, seen frequently on the majolica of Genoa. Venice, and quently on the majoinea of Genoa, Venice, and other Italian pottery-centers.—A foglie da dozzina. [IL., 'with leaves of the dozen,' that is, 'in ordinary or common style.'] Said of a coarse style of decoration found on certain inferior majoilea wares (particularly those of Venice), consisting of painted foliage.

A-frame (ā'frām), n. The A-shaped support for the cylinder-beam and cross-head guides of exertinal continut the housing.

fever, African fever. See *fever1. - African green.

Africanistics (af"ri-kan-is'tiks), n. That department of philology concerned with the study of the languages of Africa.

Africanoid (af'ri-kan-oid), a, [African + -oid.] In anthrop., resembling African types of man. W. Z. Ripley, Races of Europe, p. 397.

Afro-American (af "ro-a-mer'i-kan), a. and n. [L. Afer (pl. Afri), an African, + E. American.] I. a. Of, pertaining to, or composed of persons of African descent born in American. (specifically in the United States): as, an Afro-American church; Afro-American citizens.

II. n. A native of America (specifically of the United States) who is of African descent. Afro-European (af"rō-ū-rō-pē'an), a. [L. Afer (pl. Afri), an African, + E. European.] African and European; European with African relations.

African, + Gr. yaia, earth.] In zoögeog., a (proposed) division or realm comprising the

(proposed) division or realm comprising the part of Africa that lies south of the equator. Correlated with Arctogwa. See Afrogwan.

Afrogwic (af-rō-jō'ik), a. Same as Afrogwan.

afrown (a-froun'), adv. [a³ + frown.] In a frown; frowning: as, "with brows afrown." Joaquin Miller. N. E. D.

afrunt, prep. phr. as adv. and prep. A simplified spelling of afront.

a frutti (ä fröt'ti). [It.] With fruits: said of a characteristic style of majolica decoration consisting of foliage and fruits.

att¹, a. and adr.— To haul aft a head-sheet (naut.), to pull on the rope secured to the clue of a staysail, jit, or flying jib, so as to flatten the sail in a fore-and-aft direction.— To haul aft the main-sheet (naut.), to pull on the tackle or purchase secured to the sfter part of the main-boom, so as to bring that spar more fore-and-aft, or in line with the keel.— Fore-and-aft rig. See fore-and-aft, under fore-and-aft.— To have the starboard sheets aft, an expression, sometimes employed on a fore-and-aft vessel to signify that she is on the port tack, and vice versa. vice versa.

after, prep. 10. In mineral., derived from; having the form of: said of pseudomorphs, which retain only the form of the original mineral: as, malachite pseudomorph after cuprite; cassiterite pseudomorph after feldspar. See pseudomorph.—After one's own heart, that comes up to one's ideas or liking; entirely worthy of one's admiration and approval: as, he is a man after

after-burning (af'ter-ber ning). n. In gasengines, combustion or burning of the gases after the explosion has taken place which should have made all the gas unite at once with

the oxygen present.

after-chrome (af'ter-krom), v. l.; pret. and pp. after-chromed, ppr. after-chroming. To treat (textiles, after they are dyed or printed) with a solution of some chromium compound, in order to fix, or render more fast, the colors already on the cloth. Sometimes the chromium compound acts as a mordaoting principle and brings about the deposition of a chromium mordant which combines with the dyestuff; in other cases the potassium bichromate commonly used acts as an oxidizing agent.

after-color (af'ter-kul or), n. A colored after-

ment pursued after convalescence is established in order to insure the permanency of the cure.

In after-darken (af'ter-dar'kn), v. t. In textile-th-coloring, to deepen (a color) by subsequent dyeing or by oxidation with a chemical solution.

after-dinner (af'ter-din"er), n. and a. [after + dinner.] I, n. The portion of the day which follows dinner or the dinner-hour.

II. a. Following dinner; postprandial: as, after-dinner coffee; an after-dinner nap; an after-dinner anecdote or speech.

aftergrowth, n. 2. In forestry, young trees which spring up as the result of reproduction-

enttings.

after-heat (af'ter-het), n. The autumnal or after-summer warm weather which usually prevails in the northern United States during the period known as 'Indian summer' Monthly

Weather Rev., Jan., 1902. after-image, n. 2. In psychol., any phase of sensation which persists after the withdrawal of the exciting stimulus: as, a visual after-image; an auditory after-image; an after-

image of pressure.

after-impression (af'ter-im-presh ou), n.

that originally caused it is withdrawn.

after-leech (al'ter-leeh). n. The roping on the
after edge of a fore-and-aft sail. The roping on the forward edge is called by American seamen the luff and by English seamen the for-See leech3. ward leech.

after-mast (af'ter-mast), n. The mast nearest after-mast (af'tér-n:ast), n. The mast nearest to the stern of the ship. On a one- or two-masted vessel it is the mainmast; on a three-masted vessel, the mizzennust; or a four-masted vessel, the figger-mast; on a five-masted vessel, the spanker-mast; on a sive-masted vessel, the driver-mast; and on a seven-masted vessel the pusher-mast. The last three names have been recently coined by the captains of many-masted vessels as a convenience when giving orders concerning the rigging and sails belonging to the mast in question.

after-milk (af'tèr-milk), n. Strippings.

afternoony (af-tèr-non'i), n. Like a (summer) afternoon; languid; enervating; inclining to a siesta, as if in the heat of the day.

ing to a siesta, as if in the heat of the day.

There is something idle and afternoony about the air which whittles away one's resolution. Huxley, Life, 11. 96.

after-nose (af'ter-noz), n. In entom., a triangular piece below the antenuæ and above the nasus. Stand. Dict.

psychol.: (a) An after-image. (b) A secondary or consequent sensation: as, the aftersensation of pain which follows the sensation of pressure when the skin is lightly tapped with a needle.

after-shock (af'ter-shok), n. A shock follow ing a primary shock; a succeeding shock

The periodicity of the aftershocks of the great Indian sarthquake of June 12, 1897, is treated by Mr. R. D. bldham in vol. xxxv. of the Memoirs of the Geological Survey of India.

Nature, April 14, 1904, p. 571. Survey of India.

after-sound (af'ter-sound), n. A subjective sensation of sound which remains after the sound itself has ceased.

after-stain (af'ter-stan), n. employed after another stain, for the purpose of still further differentiating details of cell or tissue structure.

after-stain (at'ter-stan), v. t. [after + stain.] To treat with an after-stain.

after-strain (af'ter-stran), n. In elasticity, a strain which develops gradually after the application of the stress to which it is due and which persists after the stress has ceased.

Also called elastic fatigue.

after-stretch (af'ter-strech), n. In wool-manuf.. the elongation of the roving on the spinningmule after the delivery-rolls have stopped.

after-taste (af'ter-tast), n. A gustatory seusation which persists after the stimulus that

originally excited it has ceased to act.

after-vision (af'ter-vizh/on), n. An impression of an object that remains in the retina after the object itself is removed from sight.

after-world (af'ter-werld), n. The people of succeeding generations; future ages.

The language . . . In which Shakespeare and Milton have garnered for the after-world the rich treasures of their mind.

Trench, Eng. Past and Present, ii.

after-wort (af'ter-wert), n. In brewing, the second run of wort.

afu (ä-fö'), a. and n. [Perhaps from the Polynesian tapu, tabu: see taboo.] Same as taboo. [Torres Strait.] Geog. Jour. (R. G. S.), XVI. 420.

afunction (a-fungk'shon), n. [a-18 + function.] In pathol., loss of function or functionating power. Alien. and Neurol., Aug., 1904.

afyllous, a. A simplified spelling of aphyllous.

Afzelia (af-ze'li-a), n. [NL. (Gmelin, 1791),
named in honor of Adam Afzelius, a Swedish
naturalist.] A genus of scrophulariaceous plants improperly called Seymeria by many See Seymeria. authors.

A. G. An abbreviation of Attorney-General.

agada² (ä'gä-dä), n. [Abyssinian?] An Egyptian or Abyssinian pipe sounded by means of a reed mouthpiece somewhat like that of a elarinet.

agalactous, a. 2. Not nursed, as a hand-fed infant.—3. Serving to check the secretion of milk; lactifugal.

agalenoid (ag-a-lē'noid), a. [NL., Agalena + cinic activation of the family Agalenidæ.

agalite (ag'a-lit), n. [Appar. (Gr. åyn, wonder, + idfor, stone l A fibrous veriety of tala page).

λίθος, stone.] A fibrous variety of tale, pseudomorphous in origin, from St. Lawrence County, New York: used in the manufacture of paper. Sometimes written agalith.

Same as *agalite. A agalith (ag'a-lith), n.

sensation which persists after the stimulus that originally caused it is withdrawn.

After-leech (al'ter-leeh), n. The roping on the after edge of a fore-and-aft sail. The roping on the foremer's deter-invalidable.

Aganth (ag a-hth), n. Same as *agatte.

agambium (ag-a-mô'bi-num), n.; pl. agamobium (ag-a-mô'bi-num) generation or gamobium. agamogenetical (ag " a -mō - jē - net ' i - kal), a.

Same as agamogenetic.

agamospore (ag' a-mō-spōr), n. [Gr άγαμος, without marriage, + σπαρά, seed (spore).] spore produced asexually.

Agaon (a-ga'on), n. [NL (Dalman, 1818), said to be (Gr. αγάων, ppr. of αγάειν, var. of αγασθαι, adore.] A remarkable genus of hymenopterous insects of the superfamily Chalci-doidea, giving name to the family Agaonidæ. the distriction of the single species A. paradoxum, which lives in figs in Sierra Leone.

Agaonidæ (ag-ā-on'i-dē), n. pl. [NL., < Agaon -ide.] An extraordinary family of chal-+ ··li(R.) An extraordinary family of char-cidoid hymenopterous insects. It comprises spe-cies of small size, distributed in 2 subfamilies and 12 genera, all living in figs and accompliahing the fertiliza-tion of the flowers of this froit. Other genera containing true parasites have been hitherto placed in this family, but are now separated into other distinctly parasitic groups. See *Blastophaga.

after-sensation (af'ter-sen-sa'shon), n. In Agapetidæ (ag-a-pet'i-dē), n.pl. [NL. < Agapsychol.: (a) An after-image. (b) A secondary or consequent sensation: as, the after-ing the forms known in the United States as meadow-browns and their allies. Prominent American genera are Cercyonis, Erebia, Cano-

American genera are Cercyonis, Erevia, Canonympha, and Eneis.

agar¹ (ā'gār), n. [Hind. agar, ⟨ Skt. aguru: see agatlochum.] The aloes-wood or ealambae, Aquilaria Agallocha. In India it is used for making jewel-cases, rosaries, and ornaments of various kinds. The chipa are sold in bszaars and sre burned in Hindu temples. See agallochum and eaglewood. Also aggur.

agar² (ä'gär), n. Same as agar-agar.-Glucose agar² (ä'gär), n. Same as agar-agar.—Glucose agar. See *agar-agar, 2.—Hydrocele agar, a culture medium anggested for the growth of the gonococcus, in which hydrocele finid is used as the nutrient medium, the agar being added to solidify the medium.—Litmus lactose agar, a culture medium used in bacteriological work. It is ordinary agar containing 3 per cent. of lactose, with enough litmus tincture added to give the solution a light-blue color.—Peptone agar, a bacteriological culture medium; it contains a certain amount of peptone. Also called nutrient agar.—Slant agar, agar that has been solidited so as to present a slanting surface: used in bacteriological work. Science, March 14, 1902, p. 406. agar-agar, n. 2. A gelatinous product from certain seaweeds often combined with various nutrient substances to form a solid medium

nutrient substances to form a solid medium for the artificial cultivation of bacteria and other organisms.

other organisms.

Agaric. I. n.— Deadly agaric, Amanita phalloides, a very poisonona fungus.— Ivory agaric, the mushroom, Hygrophorus eburneus.— Maned agaric. Same as khorsetui-agaric.— Royal agaric, a large and elegant edithe mushroom, Amanita exesarea. It has a bright orange-colored pileus, an annulus, and a large, thick, leathery volva. It is sometimes confused with the poisonona fly-agaric, Amanita muscaria.— Sugar-cane agaric, Schizophyllun commune, which is reported to be sometimes parasitic on sugar-cane.

11. a.—Agaric acid, a compound, $C_{10}H_{30}O_{5}+H_{20}O_{5}$, obtained from agaric in the form of a white powder. Also called agaricic and agaricinic acid.—Agaric resin, a red amorphous solid obtained from the larch-fungus. It is slightly bitter, and melts at 90° C.

Agaricaceæ (a-gar-i-kā sē-ē), n. pl. [Agaricus + -aceæ.] The name now adopted for the family Agaricini.

agaricaceous (a-gar-i-kā'shius), a. [Agarica-ceæ.] Having the characteristics of the family Agaricaccæ, the agaries.

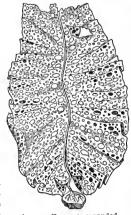
Agaricales (a-gar-i-kā'lēz), n. pl. [NL., < Agaricus + -ales.] A large order of fungi in-

cluding the greater part of the Hymenomycetes, as the families Thelephoraceæ, Clavariaceæ, Hydnuceæ, Polyporaceæ, and Agaricaceæ.

agaricic (ag-a-ris'-ik), a. [agaric + ik), a. [agaric + -ic.] Same as agaric

agaricinic (a-gar-isin'ik),a. [agaricin + -ic.] Related to agaricin. - Agari-Same as agariein. – cinic acid. ★agaric acid.

rum), n. [NL. (Postels and Rupreeht, 1840), < Malay *āgar-āgar*: see *ugar-agar*.] A genus of brown algæ



Agarum Turneri: expanded blade of a frond.

(Phæophyceæ) inhabiting the Arctic and colder waters of the Atlantic and Pacific oceans. The waters of the Atlantic and Pacific oceans. The frond consists of a stipe attached by a branching hold-fast, and a broadly expanded blade which is perforated with numerous holes. Popularly called sea-colander. agasp (a-gásp'), adv. [a³ + gasp.] In a gasping state or condition; panting; eager. Coleridge, Own Times, II. 395. N. E. D.

Agassizocrinidæ (ag-a-siz-ō-krin'i-dē), n. pl. [Agassizocrinus + -idæ.] A family of fistulate Crinoidca characterized by the elongate dorsal cup composed of thick solid plates, and by the absence of a column. It is believed that in early stages these forms were attached by a stem, but that they subsequently became free-swimming. They have been found only in the Kaskaskia limestone of the Lower Carboniferous formation in the United States.

Agassizocrinus (ag-a-siz-ô-krî'nus), n. [NL., Agassiz + Gr. κρίνον, lily.] The nus of the family Agassizocrinidæ. The typical ge-

agast, p. or a. A simplified spelling of aghast. agate², n. 6. Naut., the jewel cup in the center of the compass-card, which rests upon the upright pivot in the center of the compassbowl.—Eye-agate, a variety of agate having the layers in concentric circles.—Iceland agate, a fine variety of obsidian (volcanic glass) found in Iceland.

agate-ware (ag'āt-war), n. 1. Pottery mottled and veined in imitation of agate. - 2. A variety of enameled iron or steel household ware.

Agathaumas (ag-a-thā'mas), n. [NL., irreg. (1) Gr. ἀγαν, much, + θανμασία, wonder.] A genus of dinosaurian reptiles from the Laramie beds of the Rocky Mountains.

agathin (ag'a-thin), n. [Gr. αγαθός, good, + -in².] A trade-name for the a-methylphenylhydrazone of salicylic aldehyde, $C_6H_5CH_3NN$: CHC_6H_4OH . It crystallizes in white needles which melt at 71° C. It has been used as a remedy for rheu-

agathodæmon, n. 2. In astrol., the eleventh house of the heavens.

agathology (ag-a-thol'ō-ji), n. [Gr. ἀγαθός, good, + -λογία, ⟨λέγειν, speak.] The ethical doetrine of the summum bonum, or that which is good apart from any ulterior reason.

agatoid (ag'ā-toid), a. Resembling an agate in structure or appearance.

Agau (ä'gou), n. See *Abyssinian languages(b).

agave, n. 2. [l. c.] A plant of this genus.

-Soap agave, a name applied to several apecies of Agave, the roots or other portions of which, called anothe by the Mexicans, are used in place of aoap for washing. The principal soap-producing species is Agave Lecheguilla of northern Mexico. See amole.

agavose (a-gā'vōz), n. [Agave+-ose.] A sugar, CraHeoOut, obtained from the stalks of Agame

C₁₂H₂₂O₁₁, obtained from the stalks of Agave Americana.

A. G. C. In astron., an abbreviation of Argentine General Calalogue (of stars).

tine General Calalogue (of stars).

Age class. See *class.—Age coating, the carbonaceous layer or deposit which gradually accumulates upon the interior aurface of lucandescent-lamp bulba in consequence of the disintegration of the filament.—Age of the tide. Same as retard of the tide (which see, under retard).—Copper age, in prehistoric archæol., the period during which copper was used for the manufacture of implements. In some parts of the world the atone age was followed by a copper age, while in other regions the atone age was followed by the bronze age.—Flint age. Same as stone age. See archæological ages, under age.—Heroic age, the age of heroes and demigods.—Lacustrine age, in archæol., the period of lake-dwellings; especially, the period of lake-dwellings in central Europe.—Topographic old age, the stage which is produced by long-continued subjection of a region to the processes of erosion in its present relation to base-level.

agel. v. t. 2. To expose (mordanted or dyed

agel, v. t. 2. To expose (mordanted or dyed cloth) to the air in order to fix the mordant or

dye in insoluble form.

age² (ä'hā), n. [Mex. (†). Cf. *axin.] The fat
obtained from the Coccus axin of Mexico. Also called axin.

aged, p.a. 4. In geol., approaching peneplanation: said of the topography of a greatly de-nuded region.—5. Of a horse, arrived at the age when the 'pit' or 'mark' on the front teeth has been obliterated by the gradual wearing away of the erown. This change usually occurs in the eighth or ninth year; but under racing rules a 'running' horse or ninth year; but under racing rules a 'running' horse (as distinct from a trotting horse) la said to be aged when he ia more than aeven years old.

age-distribution (āj'dis-tri-bū"shon), n. In social statistics, the number of occurrences, conditions, or relations (as births, marriages, or deaths) in a given population in each year or in each five- or ten-year period of life: as, 50 deaths annually in each 1,000 children under five years; 10 deaths annually in each 1,000 males 25 to 30 years of age.

age-fraternity (āj'frā-ter"ni-ti), n. A fraternity of individuals of the same or similar age. This is a form of social organization found frequently among primitive tribes, boys, youths, young men, men

in their prime, and old men being organized each in a society by themselves. Societies of women of similar character are rarer than those of men.

On superficial examination various tribes appear to be organized according to identical principles, but fuller knowledge generally reveals differences among the similarities. From this it was concluded that such terms as gens, band, age-fraternity and dance-society have no stable or exact meaning and hence little descriptive value, detailed information being the great desideratum.

Science, May 31, 1901, p. 864. larities. From this it was concluded that such terms as

Agelacrinites (āj*e-lak-ri-nī'tēz), n. [NL., ⟨ Gr. ἀγέλη, herd, + κρίνον, lily, + -ites.] A name introduced by Vanuxem in 1842 for a

Devonian cystidian found in Hamilton the rocks of New York, but also represented by species in both and Silurian Carboniferous rocks: typical of the family Agelacrinitidæ. Also improperly



written Agela- A group of individuals attached to a shell.

Agelacrinitidæ (aj"e-lak-ri-nit'i-dē), n. pl. [NL., $\langle Agelacrinites + -idæ.$] A family of extinct cystid echinoderms, discoid in form, sometimes with a short stem, but usually attached to other objects by the entire abactinal surface. In typical species the ambulacral arms are long and curved and the spaces between are filled with irregular and often scaly plates.

Agelacrinus (aj-e-lak'ri-nus), n. See *Agelac-

agelong (āj'long), a. [age + long.] Long as an age; that lasts or has lasted for an age; unending: as, agelong strife.

unending: as, agelong strife.

agency, ... - Commercial agency. See mercantile agency, ... - Morcantile agency, an institution or company formed for the purpose of obtaining, by careful inquiry and investigation, and supplying in confidence to subscribers for their own special use, accurate information regarding the character, personal responsibility, and commercial and financial standing of individuals, firms, and corporations engaged in mercantile, financial, or industrial enterprises, either throughout the country or, in the case of the larger associations, throughout the world, Full revised lists and reports giving the 'commercial rating' of each of these individuals, firms, and corporations are issued quarterly in book form, but special reports with regard to particular cases are made to subscribers on request. Also sometimes called commercial agency and credit bureau.

agent, n.—Fixing agent, in textile-coloring, any sub-

agent, n.—Fixing agent, in textile-coloring, any substance used to fix a mordant or render fast and permanent colors which would otherwise be more or less fugitive,—Insurance agent, see *insurance.—Reducing agent, in chem., a substance capable of removing the electronegative constituent from a compound, setting free the electropositive constituent from a compound, setting free the electropositive constituent, as a metal from one of its oxlds.

agentialis (ā-jen-ti-ā'lis), a. [NL.: see agential.] In gram., noting the case which expresses the subject of a sentence and sometimes the owner of an object. Also called

subjective. Barnum, Innuit Lang., p. 12.

agentive (ā-jen'tiv), a. [agent + -ive.] In

gram., noting the case which expresses the subject of the transitive verb in languages in which its form differs from that expressing the sub-ject of the intransitive verb. This case is found in many American languages, for instance, in Eskimo. Also called *subjective*. Amer. Anthropologist, Jan.-March, 1903, p. 26.

 $ager^2$ (ā'jer), n. [age, v. t. + -er1.] One who or that which ages; specifically, a chamber in which mordanted or dyed cloth is submitted to the process of aging. A steam-ager is such a chamber to which both air and steam are admitted.

agger, n.— Agger nasi, a projection at the anterior extremity of the middle turbinate bone, being a vestige of the nasal turbinate bone in certain of the lower animals.

agglomerant (a-glom'e-rant), v. [agglomerante (ate) + -ant.] That which causes agglomeration: a material which may be added to a mixture in order to cause the particles of the latter, when in a fine state of division or in small lumps, to adhere together and form larger lumps or agglomerations. This is necessary in some systems of treating ores, and in making artificial briquets from pulverized fuel. Line mixed with water to form a puste is a suitable agglomerant in the first case, and tar or pitch in the second.

glutination, in any sense. Jour. Exper. Med., V. 361 . 361.

agglutinable (a-glö'ti-na-bl), a. Capable of agglutination.—Agglutinable substance, a substance present in bacteria and red blood-corpuscles to the union with which, on the part of the agglutinins, the specific agglutination is due.

agglutinant, n. 2. In bacteriol.. same as *ag-

glutinating substance.

agglutinate, r. t. 2. In bacteriol., to cause the ecoalescence or clumping of (bacteria or red blood-corpuscles).

If the blood agglutinates a paratyphoid bacillus in high dilution, and fails to agglutinate the typhoid bacillus or agglutinates it only in very low dilutions.

Med. Record, Feb. 14, 1903, p. 267.

agglutinating, p. a.—Agglutinating substance, in bacteriot., the substance which causes agglutination. Also called *agglutinin (which see).
agglutination, n. 3. In Wundt's psychology, the simplest type of apperceptive connection of ideas; a connection in which one is still of ideas: a connection in which one is still clearly conscious of the constituent ideas, while the total idea aroused by their conjunction is nevertheless unitary; for example, watch-tower, steamboat.—4. In bacteriol., the clumping or coalescence of red blood-corpuscles or bacteria brought about by the action of special agglutinating substances (agglutinins).

Careful observation of this phenomenon has shown that, in many cases, a state of coalescence of the corpuscles to which the name 'agglutination' is applied, precedes that of solution; and, further, that while these changes are often associated, yet one may occur in the absence of the other.

Science, July 3, 1903, p. 4. absence of the other.

Agglutination test, a test based upon the principle that specific agglutinins appear in the blood-scrum of infected animals or patients which will cause the agglutination of the specific bacteria concerned in the infection. In this manner it is sometimes possible not only to identify bacteria, but also to determine whether or not infection with a given organism exists. Diagnosis by such means is speken of as serum diagnosis, and constitutes a most important method of recognizing certain infections. In typhold fever especially the agglutination test, or Widal reaction, as it is also termed, is extensively utilized in the diagnosis of the disease, Generally speaking, the examination is carried out by mixing some bacilli of the kind under investigation with some of the diluted blood-serum, when a drop is observed under the microscope, in order to ascertain whether or not the bacilli, which at first are evenly scattered through the field, will gather in clumps, and, if previously motile, will lose their motility. See serum *diagnosis.

agglutinative, ".—Agglutinative reaction. Same as *agglutination, 4. Agglutination test, a test based upon the principle that

*agglutination, 4.

agglutinator (a-glö'ti-nā-tor), n. that which agglutinates: specifically, same as *agglutinm, in contradistinction to *agglutinable substance.

Thus, if rich, a strong agglutinator, is permitted to act upon rest corpuscles for periods under thirty minutes, then upon the addition of venom lysis ensues in about the average time and proceeds normally,

Jour. Exper. Med., Mar. 17, 1902, p. 239.

agglutinin (a-glö'ti-nin), n. [agglutin(ate) + An adaptation-product produced by immunization with the corresponding cells (red blood-corpuscles or bacteria), which causes the clumping or coalescence of the cells used the clumping or coalescence of the cells used in immunization. The agglutinins are receptors of the second order (Ehrlich), being composed of a special zymophoric group and a haptophoric group, which latter effects the union with the cell. The bacillary agglutinins in their action upon motile bacteria cause arrest of motility. See also *anglutination test.—Flagellar agglutinin, an arglutinin resulting on immunization with a motile bacillus and supposedly referable to the specific action of the flagellar substance. As the body of the organism gives rise to special somatic agglutinins, the two will coexist in the serum of an animal immunized with motile bacilli, while the latter only will be found if a nonmotile organism has been used. Jour. of Med. Research, Oct., 1904, p. 313.—Somatic agglutinin, an agglutinin resulting on innumization, which in contradistinction to the flagellar type is referable to the special innumizing effect of the bodies of the bacilli, and is thus obtained not only with motile but also with non-motile organisms. Jour. of Med. Research, Oct., 1904, p. 314. agglutinogen (a-glő (ti-nō-jen), n. A substance present in bacteria, immunization with which

present in bacteria, immunization with which gives rise to the production of agglutinins.

Jour. of Med. Research, Oct., 1904, p. 314. agglutinogenous (a-glö"ti-noj'e-nus), a. reg. (agglutin(ation) + -genous, producing.] Producing agglutination or agglutinins.

Nicolle and Trenel find that agglutinative and agglutinogenous functions are subject to the greatest variations.

Jour. Roy. Micros. Soc., Feb., 1903, p. 78.

agglutinoid (a-glö'tin-oid), n. [agylutin(ate) -oid.] An agglutinin which has lost its agglomerative, a. 2. In sociol., tending to combine small social groups into larger organizations.

agglutinability (a-glö″ti-na-bil′i-ti), n. [ag-gglutinophore (a-glö′ti-nǫ-for), u. [agglutinable (-bl-) + -ity.] Susceptibility to ag-gglutinability to ag-gglu

lecular complex of the agglutinins to which their agglutinating property supposedly is due. agglutinophoric (a-glö"ti-nō-for'ik), a. Noting that molecular group of the agglutinins to

which the agglutinating properties are due, aggradation (ag-rā-dā'shon), n. [aggrade + -ation.] The act or process of aggrading, or the state of being aggraded; in geol., the act of aggrading, as in depositing detritus upon a valley floor, the slope of the depositing stream being maintained at an almost constant value.—Aggradation plain, a plain formed by the accumulation of clastic material in arid districts under conditions unfavorable to distant transportation and where overloading of streams is habitual. The alluvial fan and the flood-plain are initial stages.

aggradational (ag-rā-dā'shon-al), a. 1. Pertaining to or effected by means of aggradation. -2. Effecting an upbuilding of sediments: contrasted with degradational agencies or those which remove material.

aggrade (a-grad'), v. t. [L. ad, to, + gradus, step. Cf. degrade.] In geol., to grade up; fill up: the opposite of degrade or wear away.



Diagrammatic cross-section of an aggraded valley.

A river aggrades its valley when, owing to an increase in the load of detritus or to a decrease of carrying power of its current (as a result of diminution in volume or of tititing of the land), some of its lead has to be laid down tilting of the land along its course.

aggraded (a-grā'ded), p. a. In geal., more or ss filled with detritus by a stream; said of a

valley, basin, or bay.

aggregate, n. 4. In logic, a whole of aggregants which is universally predicable of every one of its aggregants and is not predicable of any individual of which none of its aggregants is predicable. So, likewise, a proposition which would be true under any circumstances whatsoever under which anyone of a collection of propositions would be true when none of the propositions of that collection were true, would none of the propositions of that collection were true, would be the aggregate of those propositions as its aggregants.

— Social aggregate, any group or class of animate creatures, human beings or animals, dwelling together or working together and leading a social life. — Theory of aggregates, in demography, the theory of the grouping of population about centers of density; in social, the theory of the combination of hordes into tribes, tribes into nations, and nations into federal empires; in biol. the theory that units of structure were once independent organism

aggregation, n. 6. In social, the phenomenon of the physical concentration of population, of animals, and of plants. Giddings. lation, of animals, and of plants. Giddings. Inductive Sociol., p. 40.— Aggregation theory, the theory that the passage of matter from an imperceptible to a perceptible condition is necessarily a process of aggregation. It was held by John Fiske.—Biological aggregation, a term nsed by L. F. Ward to express his belief that organisms which are morphologically separable into structural units, such as the Metazoa and metamerized animals, have arisen through the aggregation of units which were at one time independent.—Genetic aggregation, in sociol., a group of kinsmen who have lived together in one locality from their birth; hence, also, a population perpetuated chiefly by its birth-rate rather than by immigration. Giddings.—Law of aggregation, the universal tendency of particles and masses of matter to concentrate. See the extract.

The great law of progress in the universe therefore is the law of aggregation, and evolution is due to the resistance which this law meets with from the opposite law of dispersion. L. F. Ward, Dynamic Sociol., I. 249.

of dispersion. L. F. Ward, Dynamic Sociol., I. 249.

Organic aggregation. Same as biological ★aggregatiom.— Primary aggregation, the process by which the inorganic universe, as contrasted with living beings and with society, has come to be what it is. L. F. Ward.— Secondary aggregation, the process by which living beings. as contrasted with the inorganic universe and with society, have come to be what they are. L. F. Ward.— Tertiary aggregation, in sociol, the aggregation of individuals into social groups or populations, a process which completes the sequence of integrations that constitutes one aspect of universal evolution. The aggregation of atoms in molecules and masses is called primary aggregation, that of molecules in living cells and organisms secondary aggregation. L. F. Ward.

aggregative, a. 3. In sociol.: (a) Tending toward a center of density, as concentration of population. (b) Tending to combine small

of population. (b) Tending to combine small groups into large organizations, as hordes into tribes or small corporations into great corporations and 'trusts.'

agnast or fined with amazement or horror:
as, an expression of aghastness in the eyes.
[Rare.] N. E. D.

Agialid (aj-i-al'id), n. [NL. (Adanson, 1763),
from an Egyptian name of the African species
agihalid, used by Alpinus.] A genus of dicotyledonous plants of the family Zygophylla-

agiasterium, n. See *hagiasterium.

agil, a. A simplified spelling of agile.

agil, a. A simplified spelling of agile.

aging, n. 4. In the preparation of logwood
for dyeing, the process of exposing the wood
(usually in the form of chips) to the air, in order that the hematoxylin it contains may be oxidized or developed into hematein, the actual coloring agent. Also known as curing or maturing.—5. In elect., the property, exhibited more or less by iron, of showing an increase of hysteresis loss when for a long time exposed to alternating magnetization, especially at a higher temperature.
aging-machine (a'jing-ma-shēn"), n. In cal-

aging or causing the mordant to decompose

evenly on and in the fiber.

aging-room (ā'jing-röm), n. In calico-printing, a room or chamber in which cloth is aged.

The cloth is hung and exposed for several days to a temperature of about 80° F, and to a relative lumidity of about 82 per cent., for the purpose of fixing the mordant evenly on and in the fiber.

agitatrix (aj-i-tā'triks), n.; pl. agitatrixes (-ēz) or agitatrices (-tri-sēz). [L. agitatrix, fem. of agitator, agitator.] A female agitator.

Aglaonema (ag'lā-ō-nō'mā), n. [NL., ζ Gr. ἀγλαός, shining, + νήμα, thread.] A genus containing about fifteen species of the family Aroidea, two or three species of which are sometimes offered by plant-dealers. They are indoor subjects, in the manner of Arum, and are native to Asia and Africa.

are native to Asia and Africa.

Aglaospora (ag-la-os'pō-rā), n. [NL. (De Notaris, 1845), ⟨ Gr. ἀγλαός, brilliant, + σπορά, spore.] A genus of pyrenomycetous fungi having membranous beaked perithecia embedded in a valsoid stroma. The spores are hrown and several-septate. A profusa is the type. It occurs in Europe and America, and is said to cause the death of young twigs of the locust, Robinia Pseudacacia.

Aglaspia (a-σlas'nis). n.

Aglaspis (a-glas'pis), n. [NL., \langle Gr. $\dot{\alpha}\gamma\lambda\alpha\delta\varsigma$, beautiful, $+\dot{\alpha}\sigma\pi\iota\varsigma$, shield.] A genus of Cambrian arthropods described by Hall as a trilobite, but regarded by Clarke as a primitive merostome of the order Synxiphosura. It has a short trilobed cephalothorax, 6 or 7 flat abdominal segments, and a long candal spine or telson. It is the only representative of the family Agla-

aglint (a-glint'), adv. [a3 + glint.] In momentary T glint.] In momentary glints or peeps; glintingly. aglitter (a-glit'er), adv. [a³ + glitter.] In a cliff.

Aglossa, n. pl. 3. A group of Mollusca having

Aglaspis Eatoni, Whiti.

Glossophora. The group includes only the Pelecypoda. Same as Lipocephala. aglossi, n. Plural of *aglossus. aglossia (a-glos'i-ä), n. [NL., < Gr. ἀγλωσσία, tonguelessness (used in fig. sense 'ineloquence'), ζάγλωσσος, tongueless, ζά- priv. + γλῶσσα, tongue.] Congenital defect marked by absence of the tongue.

aglossus (a-glos'us), n.; pl. aglossi (-i). [NL., ζ Gr. άγλωσσος, tongueless: see *aglossia.] In teratol., a monster having no tongue.

Agnatha, n. pl. 2. A class of fishes, or fishlike vertebrates, characterized by the absence of jaws and shoulder-girdle. It contains the extinct ostracoderms and the existing lam-

agnathic (ag-nath'ik), a. Same as agnalhous. agnathus (ag'na-thus), n.; pl. agnathi (-thī). [Nl.: see agnathous.] In teratol., a monster

[NL: see agnathous.] In teratol., a monster having no lower jaw.

agnification (ag'ni-fi-kā'shon), n. [L. agnus, lamb, + -ficare, < facere, make.] The making or representing of persons as lambs or sheep.

J. M. Neale, Liturgiol. [Rare.] N. E. D. agnosia (ag-nō'si-ā), n. [Gr. ά- priv. + γνῶσκ, knowledge: see gnosis.] Same as agnœa.

(cf. άγνωστος, unknown, unknowing, ignorant: see agnostic), ζ ά- priv. + γνῶσις, knowing: see gnosis.] Ignorance; specifically, an ignorance common to all mankind.

agnotozoic (ag-nō-tō-zō'ik), a. and n. [Gr. $a_j \nu \omega \tau \sigma g$, unknown, $+ \zeta \omega \eta$, life.] I. a. Not known to contain fossils: applied to the early rocks and period of the earth in which definite

evidence of organic life has not been found.

II. n. The rocks and period not yet known to contain evidences of life: contrasted with eozoic and paleozoic, and essentially equivalent, so far as the term has been applied, to the Huronian of Logan and the Algonkian of Walcott. Not in general use.

agoge (a-gō' jē), n. [Gr. ἀγωγή, a leading, course, mode, etc.] In anc. Greek music: (a)
Tempo or pace; rhythmical movement; (b) Melodic motion upward or downward by successive scale-steps: same as ductus in medieval music. The first use is the more proper.

agogic (a-goj'ik), a. In music, pertaining to or emphasizing slight variations in rhythm for the sake of dynamic expression: as, agogic ac-

agogics (a-goj'iks), n. In musical theory, a term used by Hugo Riemann (from about 1884) for the general principle, in performance, that dynamic variations are, or should be, combined with slight variations in rhythmical regularity if the full expressiveness of a phrase is to be brought out. What is called tempo rubato (which see, under tempo) belongs to the field of agogics.

agoho (\ddot{a} - $g\ddot{o}$ / $h\ddot{o}$), n. [Bisaya.] A name applied in the Philippines to the Polynesian ironwood, Casuarina equisetifolia, a strand tree with very hard, heavy wood of a reddish-brown color, much used by the Pacific islanders for spears. See swamp-oak, 2 (b), and *ironwood, 2.

agoing (a-gō'ing), adv. [a³ + going.] In motion; in the act of going: used with sct. agomphosis (a-gom-fo'sis), n. Same as agom-

agonal (ag'ō-nal), a. [NL. *agonalis, ζ Gr. ayών, a struggle: see agony.] Relating to or occurring during the agony or death-struggle. See the extract.

The lower part of the ileum was of small calibre, a condition which, if not due solely to agonal contraction, might at least favor the production of diverticula in the upper part.

Jour. Exper. Med., V. 344.

Agoniada bark. See *bark².
agoniadin (a-gō'ni-a-din), n. [agoniada +
-in².] A glucoside, C₁₀H₁₄O₆, found in agoniada or agonia bark (Plumeria lancifolia), which is used in Brazil as a remedy for intermittent fevers. It is bitter, and crystallizes in needles which melt at 155° C.

agoniatite (a-gō'ni-a-tīt), n. and a. I. n. A member of the genus Agonialites.

II. a. Containing or relating to Agoniatiles.

— Agoniatite limestone, a limestone stratum characterized by an abundance of Agoniatites expansus, occurring in the Marcellus shales of New York.

telint (a-gint),

+ glint.] In momentary glints or peeps; glintingly.

**aglitter (a-glit'er), adv. [a³]

**Lodi, Wisconsin. Lodi, Wisconsin. (From Zittel's "Paleon tology.")

**Aglossa, n. pl. 3. A group of Mollusca having no radula and no head: distinguished from Glossophora. The group includes only include group includes only the group includes only the group includes only include group includes only the group includes only the group includes only include group includes only in the Marcellus shales of New York.

Agoniatites (a-gô'ni-a-ti'têz), n. [NL., ⟨ Gr. ἀ-priv. + NL. Goniatites.]

Agoniatites (a-gô'ni-a-ti'têz), n. [NL., ⟨ Gr. ἀ-priv. + NL. Goniatites.]

Agoniatites (a-gô'ni-a-ti'têz), n. [NL., ⟨ Gr. ἀ-priv. + NL. Goniatites.]

Agoniatites (a-gô'ni-a-ti'têz), n. [NL., ⟨ Gr. ἀ-priv. + N

agonism (ag'ō-nizm), n. [Gr. ἀγωνισιός, ⟨ ἀγωνίζειν, contend: see agonize.] 1. Struggle or contest for a prize, especially at the ancient Grecian games.—2. The prize itself. [Rare

agonistic, a. II. n. The act of combating or struggling; combat; struggle. G. S. Hall, Adolescence, II. 251.

agonizant, n. II. a. Being in the death-agony; moribund.

agonizedly (ag-ō-nī'zed-li), adv. As one in agony; in tones of agony or anguish. Thack-

agony, in tones of agony or anguish. Tuack-eray, Paris Sketch Book, p. 166. N. E. D. agonizing (ag'ō-ni-zing), p. a. [agonize + -ing².] 1. That causes or produces agony or anguish; characterized by extreme anguish or painful struggles: as, agomizing suspense; "agonizing distress," Ruskin, Fors Clavigera, i. 8.-2. Iudicative of or expressing agony or anguish: as, an agonizing cry.—3. In the last agony; in the throes of death. See the extract.

An extraordinary Restorative and Cordiall, recovering frequently with it agonizing persons.

Philos. Trans. Roy. Soc. (London), I. 249. N. E. D.

aghastness (a-gåst'nes), n. The state of being agnosy (ag'nō-si), n. [Gr. ἀγνωσία, ignorance Agonomalus (ag-ō-nom'a-lus), n. [NL., < Agaghast or filled with amazement or horror: (cf. ἀγνωστος, unknown, unknowing, ignorant: onus + Gr. ὁμανός, even.] A genus of seaonus + Gr. opazoc, even.] A genus of sea-poachers, of the family Agonidæ, found in northern Japan. They are often dried in a distorted form and sold as dragon curiosities.

Agonopsis (ag-ō-nop'sis), n. [NL., $\langle Agonus + \delta \psi v_i \rangle$, appearance.] A genus of sea-poachers of the family Agonidx. They are small seafishes found off the coast of southern Chile.

Agonostoma (ag-ō-nos'tō-mä), n. See *Ago-

Agonostominæ (ag "ō-nes-tō-mī'nē), n. pl. [NL., < Agonostomus + -inæ.] A subfamily of fresh-water mullets, typified by the genus Ago-

Agonostomus (ag-ō-nos'tō-mus), n. [NL., < Agonostomus (ag-o-nos' tō-mus), n.—{N.L., ζ Gr. ἀγωνος, without angle, + στόμα, mouth.] A genus of fresh-water mullets of the family Mugilidæ, found in the swift streams of the East and the West Indies. Also Agonostoma. Agonyclitæ (ag-ō-nik'li-tē), n. pl. [NL., ζ MGr. ἀγονυκλίται, ζ Gr. ά- priv. + LGr. γονυκλίνειν (cf. γονυκλιτείν), bend the knce, ζ γόνν, knee, + κλίνειν, bend.] A sect who refused to kneel in prayer: condemned by a synod of Jerusalem

in prayer: condemned by a synod of Jerusalem

agoraphobe (ag'ō-ra-fōb), n. [A back-formation from agoraphobia.] One who is subject to agoraphobia.

Agosia (a-gő'si-ä), n. [NL., coined name.] A genus of small minnows found in the brooks of the Rocky Mountain region from British Columbia to Arizona.

agra dolce (ä'grä dôl'che), n. [It., 'sour sweet'; agra, fem. of agro, < L. acer, sharp, sour; dolce, L. dulcis, sweet.] A well-known Italian sauce used with venison, calf's head, etc. It contains sugar, chocolate, lemon-peel, currants, etc., and vinegar. It is poured over the cooked meat and served hot.

agraffe, n. 4. An appliance used in operations for harelip to keep the two surfaces of the wound in apposition.—5. An iron fastening used to hold in place the cork of a bottle containing champagne or other effervescing wine during the final fermentation.

Agrania (a-grā'ni-ā), n. pl. [Gr. 'Αγράνια, also 'Αγριάνια, a festival in Argos (Hesychius); prob. equiv. to 'Αγριάνια, a festival of Dionysus, prob. ⟨ άγριος, rustic, wild: see agriology.] A festival of Thebes in ancient Greece. It was celebrated in the night by women, a priest, and an attendant. It consisted in tearing in pieces a figure made out of or covered with ivy, and then, like the Thylades on Parnassus, running over the mountain to look for Dionysus. onvans.

agraph (ag'raf), n. [Gr. ἀγραφος, unwritten, ά- priv. + γράφειν, write.] An unwritten word; a word or saying preserved by oral tra-

dition.

agraphia, n.—Acoustic or auditory agraphia, inability to write from dictation.—Amnemonic agraphia, loss of ability to write connected sentences.—Ataxic agraphia, inability to write resulting from imperfect muscular coördination.—Literal agraphia, loss of ability to write the alphabet.—Musical agraphia, loss of ability to write musical notation.—Optical agraphia loss of ability to write from copy, while the power to write from dictation may remain.—Verbal agraphia, loss of ability to write words, although the individual letters may be formed perfectly.

Agrauleum (ag-râ-lē'um), n. [NL., < NGr.
"Appavheiav, < Gr. "Appavho; (see def.).] In Gr.
antig., a modern name for a shrine of Agraulos or Aglauros, daughter of Cecrops, on the northern slope of the Acropolis at Athens. About 60 meters west of the Erechtheum a staircase leads down to it.

Agraulos (ä-grá'los), n. [Gr. åγρανλος, living in the fields, $\langle \dot{a}\gamma\rho\dot{o}\zeta, \text{ field}, + \dot{a}\dot{v}\dot{h}\dot{\eta}, \text{ court, hall.}]$ A genus of Cambrian trilobites having a large cephalon, small eyes, 16 thoracic segments, and very small pygidium. Properly Agraulus. Agr. B. An abbreviation of L. Agriculturæ Baccalaureus, Bachelor of Agriculture.

agreement, n.—Frankfort agreement, a set of rules governing craniometry adopted by the Anthropological Congress at Frankfort in 1882.

agrégé (ä-grá-zhá'), a. [F., pp. of agréger, < L. aggregare, collect, assemble: see aggregate, v.] Added: supernumerary: as, professor agrégé.

agrestian (a-gres'ti-an), a. and n. I. a. Belonging to the country; rural; rustic: as, the

agrestian population.

II. n. A rustic; a countryman.

agricolite (a-grik'ō-līt), n. [From Georg Agricola, a Saxon mineralogist, 1490-1555.] A silicate of bismuth, having the same composition as eulytite, but believed to crystallize in the monoclinic system.

Agricultural botany. See *botany. — Agricultural science and other branches of knowledge useful to agricultural science and other branches of knowledge useful to agriculturists; specifically, in the United States, one of a class of such institutions organized and maintained under the provisions of the Morrill Act (see *act), usually accompanied by an agricultural experiment station.— Agricultural experiment station,— Agricultural experiment station,— Agricultural experiment station, an establishment for the investigation, by scientifically conducted experiments, of questions directly affecting agricultural practice, relating to varieties of plants and breeds of animals, etc. There are now about 800 such stations in 50 different countries. In the United States there is one or more in each State and Territory, mostly organized under the provisions of the Hatch Act (see *act), but partly supported by individual States. The results of investigations are diffused by means of an extensive free literature.
agriculturer (ag-ri-kul'tūr-rer), n. One engaged

are diffused by means of an extensive free literature.

agriculturer (ag-ri-kul'tūr-ėr), n. One engaged
in farming operations; a husbandman. Coleridge, Own Times, III. 751. [Rare.] N.E.D.

Agriochærus + -idæ.] A family of extinet artiodaetyl mammals, whose members are intermediate in abstractar between the rise and the mediate in character between the pig and the deer. The type genns, Agriocharus, from the White River Oligocene, has somewhat claw-shaped hoofs, no upper incisors, an open orbit, and complex last premolars. Agriochœrus (ag"ri-ō-kē'rus), n. [NL., < Gr. άγριος, wild, + χοῖρος, a pig.] A genus ot im-

perfectly known ungulate mammals from the Tertiary of North America.

Agriotypidæ (ag"ri-ō-tip'i-dē), n. pl. [NL.; (Agriotypus + -idæ.] A family of hymenopterous parasites of the superfamily Ichneumonaidea. oidea. It contains the single genus Agriotypus and the single species A. armatus, whose larva is parasitic on trichopterous larva.

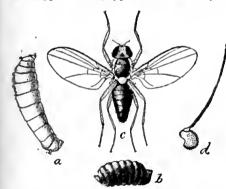
trichopterous larvæ.

Agriotypus (ag-ri-et'i-pus), n. [NL. (Walker, 1832), ζ Gr. ἀγριος, wild, + τύπος, type.] A remarkable genus of ichneumonoid parasites typical of the family Agriotypidæ. Only a single species, A. armatus, inhabiting Europe, is known. It descends under the water to lay its cggs in caddis-fly larvae. Its larva lives inside the cases of the caddis larvae, and undergoes a hypermetaniorphosis, transforming to pupa in a cocoon attached to the wall of the case of the host. To the cocoon is attached a long string-like process, the function of which is unknown.

An abbreviation of L. Agriculturæ

Agr. M. An abbreviation of L. Agriculturæ
Mayister, Master of Agriculture.
agromania (ag·rō-mā'ni-ā), n. [NL., ⟨Gr. ά⟩ρός,
open country, + μανία, madness.] A morbid impulse to wander or dwell away from human habitations.

Agromyza (ag-rō-mī'zä), n. [NL. (Fallen, 1810), (Gr. $\dot{\alpha}\gamma\rho\delta\varsigma$, field, $+\dot{\mu}\dot{\iota}\zeta\epsilon\nu$, suck.] A genus of acalyptrate flies, typical of the family Ag-



Agromyza trifolii, Burgess. a, larva; b, puparium; c, fly; d, antenna of fly. Much enlarged. (Riley, U. S. D. A.)

romyzidæ, of wide distribution and containing species which in the larval state damage the stems of grasses and small grains. A. trifolii is a leaf-miner which affects the leaves of clover. Agromyzidæ (ag-rō-miz'i-dē), n. pl. [NL., \ Agromyza + -idæ.] A family of acalyptrate Diptera comprising a series of small dull-colored flies whose larvæ burrow in the leaves and stems of living plants or (as in the genus Leu-

stems of living plants or (as in the genus Leucopis) feed on plant-lice and seale-insects.

2gronomy, n. 2. Specifically, a group of agricultural subjects, particularly when set off as a department of instruction in agriculture. In this nse it has not yet acquired a definite meaning, although it is generally held to be limited, properly, to farm crops and methods of cropping. In this signification it includes all forage, hay, cereals, and other general farm crops, but not fruits and other strictly horticultural crops. With the department of agronomy are often associated the subjects of farm-machinery, rural engineering, and rural architecture, [Recent.]

Agronomy as here used is restricted to the theory and practice of the production of farm crops.

T. F. Hunt, The Cereals in America, p. 2.

rying, the drying and canning of fruits, and sugar-mak-ing, but not milling nor the spinning and weaving of

Agrotechny or agricultural technology (including dairying, sugar-making, etc.). Science, Nov. 27, 1903, p. 684.

a grotesche (ä grö-tes'ke). [It.] With gretesques: said of a style of decoration consisting of human figures with foliated limbs, in combination with animals, painted usually in yellow on darker grounds on majolica ware.

agrypnode (a-grip'nod), a. [Gr. ἀγρυπνώσης, 〈 ἀγρυπνος, seeking sleep, sleepless, 〈 ἀγρεῖν, seek, hunt, + ὑπνος, sleep.] That prevents sleep: as, agrypnode fever. Syd. Soc. Lex. **aguacate**(ä-gwä-kä'tā), n. [Nahuat], ahuacatl:

the name became in colonial Sp. perverted to *avocate, avocato, avocado, aboyado, etc., and so to alligator(-pear).] The alligator-pear. The tree yields a reddish-brown, soft, and very brittle wood. Also known as the butterpear and vegetable marrow.

aguacatillo (ä"gwä-kä-lēl'yō), n. [Sp., dim.

of aguacate, the alligator-pear.] A name in Porto Rico of two trees, Meliosma obtasifolia and M. Herbertii, belonging to the family Sa. biacea. They yield a soft white woed. A so ealled carao bobo.

aguaji (ä-gwä-he'), n. [Cuban Sp., from a native name.] A Cuban name for species of large bass-like fishes or groupers, especially for Myeteroperca bonaci.

aguavina (ä-gwä-vē'nä), n. [Amer. Sp., of unascertained origin.] A serranoid fish, Dipleetrum fasciculare, found in tropical American waters.

aguayo (ä-gwä'yō), n. [Aymará of Bolivia.] A many-colored wrap or rectangular piece of woolen cloth used by the Indian women of Bolivia for carrying their children on the back. Comparo *atado.

ague, n.— Brass-founders' ague, symptoms of zinc-potsoning in brass-workers who are exposed to the fumes of this metal.— Iriah ague, typhus fever.— Shaking ague, the worst form of the malarial paroxysm, begin-ning with a pronounced chill.

aguilarite (ä-gi-lä'rīt), n. [From Aguilar, a personal name.] A rare sulphoselenide of silver fonnd at Guanajuato, Mexico.

aguil-boquil (ä'gēl-bō'kēl), n. [Native name.]

The Chileun name for the berries of Lardiza-

bala biternata, a elimbing plant belonging to the family Lardizabalacew, with enermously long stems, which, after the application of heat,

aguja (ä-gö'hä), n. [Sp., a needle: see aiguille.] The Cuban name of the needle-fishes or garfishes of the genus Tylosurus, as T. maor garhanes of the genus 1940sarus, as 1. marinus and T. notatus. In Europe the name is also applied to species of Belone, as B. belone and B. acus.—Aguja blanca, the lesser or common spear-fish, Tetrapturus imperator. [Chian.]—Aguja de casta, the great apear-fish, Tetrapturus amplus, ararefish weighing sometimes 800 pounds. [Chian.]

agujon (ä-gö-hōn'), n. [Sp., ⟨ aguja, a needle.] The Cuban name of the great garfishes or houndfishes, as Tylosurus raphidoma and other species of large size.

agulha (ä-göl'yä), n. [Cuban.] A fish belonging to the family Characinidæ found in fresh waters of South America. agulha (ii-göl'yii), n.

agurin (ā'gū-rin), n. A trade-name for the nixture of sodium acetate and the sodium salt of theobromine. It is used as a febrifuge.

agush (a-gush'), adv. [a³ + gush.] In a gushing state; gushing. N. Havethorne, Fr. and Ital. Note-books, H. 149. N. E. D. Agynian(a-jin'i-an), n. [ML.*Agyni,*Agynii, in DuCange Agynni, pl.; ⟨Gr. āyvvoc, āyvvaco, with-

out a wife, (a-priv. + yern, woman, wife.] A member of a seet of the 7th century who condemned all intercourse with women.

ahakea (ä-hiä-kā'ä), n. [Hawaiian.] A name in Hawaii of several species of rubiaceous trees belonging to the genns Bobea. They yield a yellowish wood used by the natives for the rims of canoes, and for making poi-boards, canoe-paddles, etc.

gasear, are used medicinally by the natives. The wood, though often crooked and knotty, is very durable and is proof against the attacks of termites, so that it is used for posts of houses and for bridges. See headache-tree.

ahia (ä-hē'ä), n. [Tahitian.] In Tahiti, a tree, Caryophyllus Malaccensis, occurring on all the larger island groups of Polynesia and in the Malay Archipelago. It is everywhere valued for its fine crimson fruit.

ahinahina (ä-hē"nä-hē'nä), n. [Hawaiian, < u + hina + hina, gray, hoary.] In Ilawaii, a tall, rebust composite plant, Argyroxiphium Sandwicense, with rose-purple flowers: named from the lustrous silver-gray down which thickly covers the leaves. Also called silversword.

ahmedi (ä-me-dē'), n. [E. Ind.] A gold coin of Mysore, equal to 16 rupees.

Ahnfeltia (än-fel'ti-ä), n. [NL. (Fries, 1835), named in honor of N. O. Ahnfelt of Land, Sweden.] A small genus of red algae (Rhodophycex), widely distributed in the colder waters of both hemispheres: characterized by a stiff, wiry frond.

ahuehuetl (ä-hö-ä-hwā'tl), n. [Also ahuehuete; Nahuatl (eentral Mexico).] The swamp-cy-press of Mexico, a tree frequently of very large Size. The ahuehuctls in the former viceregal park of Chapultepec, near the city of Mexico, are noted for their size; but the most famous of all is the big tree at Santa Maria del Tule, in the Mexican state of Oaxaca. The circumference of this tree exceeds 130 feet.

ahuhu (ä-hö'hö), n. [Hawaiian.] Hawaii of Cracea purpurea, a leguminous plant used by the natives for stupefying fish. It possesses a narcotic property affecting the action of the heart. The plant is spread over a great part of tropical Asia and Australia. Also called auhota.

ahum (a-hnm'), adv. [a³ + hum.] In a hum; humming: as, the air is all alum with the sound of bees.

ahunt (a-hunt'), adv. [$a^3 + hunt$.] On the hunt; hunting. Browning, Aristoph. Apol., p. 272. ahypnia (a-hip'ni-ä), n. [NL., erroneously formed from Gr. \dot{a} - priv. + $\dot{\nu}\pi\nu\rho\zeta$, sleep. The proper form would be *anypnia, \langle NGr. * \dot{a} $\dot{\nu}\nu\pi\nu\dot{\nu}\dot{a}$, \langle MGr. \dot{a} $\dot{\nu}\nu\pi\nu\dot{\rho}\zeta$, sleepless, \langle Gr. $\dot{a}\nu$ $\dot{\nu}$ \dot sleep.] Same as insomnia.

Aianteia (ā-yan-tē'yā), n. pl. [NL., ζ Gr. Alάν-τια, neut. pl. of Alάντειος, adj., ζ Alaς (Alαντ-), Ajax.] In Gr. antig., a festival in honor of Three of them were commonly cele-Ajax. brated, one at Opus in Locris in honor of Ajax, son et Oïleus; one at Salamis in honor ef Ajax, son of Teiamen; and one at Athens in honor of Ajax, son of Telamon. In these festivals a bed was prepared on which was placed an effigy of the hero, as in the Lectisternium at Rome.

aianthous (ā-ī-an'thus), a. [Gr. $\dot{a}\epsilon\dot{\iota}$ (Æolie $\dot{a}\dot{\iota}$), always, $+\dot{a}\nu\theta o \varepsilon$, flower.] Ever-blooming, that is, blossoming through a large part of the season. F. E. Clements.

son. F. L. Clemeuts. aichmophobia (āk-mō-fō'bi-ā), n. [NL., more reg. xchmo-, ζ Gr. $ai\chi\mu\eta$, point of a spear, etc., + $-\phi o\beta ia$, $\zeta \phi o\beta \epsilon iv$, fear.] 1. A morbid fear of touching sharp-pointed objects, such as needles and pins. — 2. A morbid fear of being touched by the finger or any slender object.

aid¹, n. 6. In the navy, an officer on the staff of an admiral whose duties are similar to First aid, immediate attention given to the injured, with the object of arresting hemorrhage, relieving pain, and preserving life until the services of a physician can be obtained.

aidant, a. II. n. A helper or aid; an adjuvant or assistant. Sir R. Phillimore, Law Reps. Aiden, Aidenn (a'den), n. A fanciful form of

Eden. Poe, Raven.

A. I. G. An abbreviation of Adjutant Inspector.

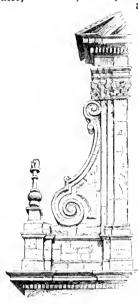
General.

aigialosaur, n. See *ægialosaur. aigues mortes (ag môrt). [F., dead waters.] Stagnant waters left in an abandoned riverchannel, as when an ox-bow is cut off from a river. Geikie.

[ailantus + -ery.] A grove of ailantus-trees. ailantine, a. II. u. Silk from the silkworm which feeds on the ailantus-tree.

ailantus-worm (ā-lan'tus-werm"), n. The larva of the bombycid moth, Philosamia cynthia Drury, which feeds on the foliage of the ailantus. It is a native of Japan and Java, where its silk is utilized to some extent. It has been introduced for sericicultural purposes into Europe and the United States without practical result, and now occurs commonly in the wild state in the coast cities of the United States.

aile, n. A simplified spelling of aisle.



aileron, n. 2. In arch., that piece of the end wall, as of nave or transent. which covers the end of the aisle-roof. It resembles a wing of the main or central structure.

ailurophobia (ālū-rō-fō'bi-ä), n. Same as *ælurophobia.

aim, n.—Point of aim, in archery, the point at which aim should be taken in order to hit the target: it varies with the distance, and may be above or below the target. target.

aimak (i'mak), n.
[Mongol.] A group of families, proba-bly originally related by blood, forming the principal political unit among the Mongols. Each aimak is governed by its own chieftain.

aimara (i-ma-rä'), n. [Tupi aimará.] A Bra-zilian name of Macrodon malabaricus, a river fish of the family Erythrinida.

Aimé's nephoscope. See *nephoscope. aimworthiness (ām'werthines), n. Excellence of aim. Blackmore, Lorna Doone, liv. N. E. D.

ain² (in), n. [Ar. 'ain, the letter ain, also an eye, a fountain, essence, = Heb. 'ayin, the letter, also an eye.] 1. The eighteenth letter of the Arabic alphabet, having a vibratory palatal sound without any equivalent in English. lish.-2. A spring; a fountain. See the ex-

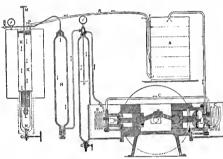
Most of the . . . artesian wells [in the oases of the Libyan desert], known locally as "ains," are ancient.

Geog. Jour. (R. G. S.), XVI. 655.

ainalite (ā'nal-īt), n. A variety of eassiterite eontaining about 9 per cent. of tantalum pentoxid.

Ainu (î'nö), n. See Aino.
aipim (ä-i-pēm'), n. [Also aypim, aypi. A
(former) native name (Tupi?).] The name in
Brazil of the sweet cassava. See cassava, 1, Manihot, and manioe.

air¹, n. 1. The air constituting the earth's atmosphere, in addition to the principal gases, nitrogen and oxygen, and the other gaseous substances long known to be present, contains in admixture five gases distinguished by their chemical inertness, viz.: helium, neon, argon, krypton, and xenon. All of these appear to be elementary substances. Argon occurs to the extent of nearly 1 per cent, by volume or 1½ per cent, by weight, the others in far smaller proportion. Free hydrogen, as well as methane and perhaps other hydrocarbons, is also probably present. Within recent years apparatus has been constructed for the liquefaction of air on a large scale by compressing it by means of powerful numps, cooling it in the compressed state, and allowing it to expand again. The only commercial use which has been found for liquid air is as a source of oxygen gas in a fairly pure state, in demand mainly for medicinal purposes.—Complementary air, the air which can be drawn into the lungs by an effort after the ordinary inspiration ts completed.—Empyreal air (Scheele) and vital air (Condorcet), names given to oxygen soon after it became known in the separate state.—Hampson's liquid-air apparatus, an apparatus designed by W. Hampson for the liquefaction of air. It consists of a purifier (A) filled with trays spread with moist slaked lime, and a double-cylinder compression-pump (B and D) worked by a 5-horse-power electric motor, by which the air is compressed in B to 16 atmospheres, and after being cooled in the water-jacketed coil C is again compressed to 160-180 atmospheres in D. Again cooled in the coil E, the air passes to G, where water used for lubricating the pistons separates. The vessel H is filled with caustic potash, which removes the last traces of water and carbon dioxid. The liquefaction takes place in the next apparatus, known as the liquefier. It has either two or four copper coils wound coaxially about a spindle and joined at their lower ends to a vertical jet. The coils fill the whole space KK. ailantery (ā-lan'ter-i), n.: pl. ailanteries (-iz). air1, n. 1. The air constituting the earth's atmosphere,



Hampson's Liquid-air Apparatus. (From Travers's "Exper. Study of Gases.

The jet L can be closed by means of a rod which screws down on the top of it and which can be adjusted to form an annular opening by the milled screw-head M. The coils are inclosed by a cylinder of insulating material, except the lower part and the valve, which are contained in a vacuum vessel, N. The liquid air is run off through the tap 0. The air which escapes liquefaction passes upward over the coils and through P and R to A. The actual quantity of the air which is liquefied is 5 per cent. of the quantity which passes through the apparatus. The yield in an apparatus of this size is 1-1.5 liters of liquid air an hour. In a newer form of liquefier the liquid air collects in a metal reservoir placed within the insulation, its quantity being indicated by a glycerol-gage.—Liquid air. See liquefaction of gases, under liquefaction—Mephitic air, a name early in use to signify an irrespirable gas or mixture of gases. It applied chiefly to carbon dioxid as in the choke-damp of coal-mines, but was also used for the mixture of this gas with nitrogen in air in which a candle had ceased to burn or an animal to breathe.—Supplemental air. Same as residual air (which see, under air!).

air-bag, n. 2. The presser of a pneumatic molding-machine. It consists of bags inflated with

molding-machine. It consists of bags inflated with

air, by which an elastic and equal pressure is imparted to the sand. *Lockwood*, Dict, Mech. Eng. Terms. Air-bags are also used in cases where a uniformly distributed pressure is desired, as in blue-printing frames.

air-barometer (ār"ba-rom'e-ter), n. An apparatus devised by F. H. King to determine small oscillations in the level of well-water depending on small oscillations of atmospheric uepending on small oscillations of atmospherie pressure. It consists of a large vesselfull of air buried deep in the soil in order to keep its temperature constant; some mercury rests at the bottom of the vessel, and into this dips a tube extending vertically above the surface of the ground. The changes of air-pressure force the level of the mercury in the tube to change correspondingly, and these changes are recorded on a revolving drum.

air-beat (ar'bet), n. In acoustics, an individual pulse of air such as may be felt mechanically where the waves from a vibrating body are of very low frequency. For frequencies within the auditory range the air-beats cannot be separately distinguished, but blend into a tone.

air-bell (ar'bel), n. 1. In Auronectæ, a large roundish gas-seereting organ, probably a modified swimming-bell; an aurophore.—2. A small bubble which appears on a photographic plate, sensitized paper, or film.

air-belt (ar'belt), n. An annular space around the twyer zone of a cupola. The air passes from this space into the twyers instead of going directly from the blast-pipe.

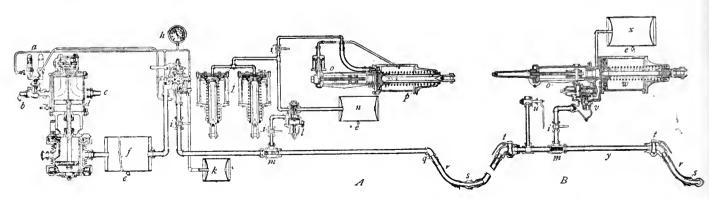
air-billow (ar'bil-ō), n. An air-wave which is long and gentle; specifically, a wave produced at the boundary surface between two horizontal layers of air having different velocities and directious: analogous to the waves on the surface of water.

air-bladder, n. 3. See *air-float.—4. In cntom., one of the numerous bladder-like endings of smaller tracheæ in the bodies of many insects, which, filled with air, greatly reduce the specific gravity of the insect.

air-bound (ar'bound), a. Bound or stopped up so that the passage of air is prevented: in plumbing, said of a water- or drain-pipe so ob-

plumbing, said of a water- or drain-pipe so obstructed.

air-brake, n.—Automatic air-brake, a form of airbrake which automatically applies the brake-shoes to the wheels with maximum pressure on each car in a train, without the aid or knowledge of the engineer or train-crew, whenever, from any cause, a rupture occurs in the brake-pipe which runs throughout the length of the train — as, for example, when the train breaks in two. Compressed air is supplied from large main reservoirs on the locomotive, through the brake-pipe, to smaller auxiliary reservoirs on each car, and a 'triple valve' forms the connection between the brake-pipe, auxiliary reservoir, and brake-cylinder. Any fall in pressure in the brake-pipe causes the triple valve to connect the brake-cylinder with the auxiliary reservoir and to apply the brakes. When the brake-pipe pressure is reinstated, the triple valve connects the brake-cylinder with the auxiliary reservoir with the brake-pipe. The automatic brake was invented by George Westinghouse in 1872.—Quick-action automatic air-brake, an Improved form of air-brake by which the time required to apply the brakes in an emergency on a train of fifty freight-cars was reduced one half. The improvement consisted in enlarging the brake-pipe and changing the triple valve (see *nalve*) by enlarging the ports and passages, and also by adding a secondary valve portion hy which, in emergency application, a part of the brake-pipe pressure is vented into the brake-cylinder, thereby increasing the brake-pipe pressure, thus causing the successive application upon each car throughout the train to occur much more rapidly. In ordinary service applications the operation of the quick-action automatic air-brake does not differ



Quick-action Automatic Air-brake.

A, Engine Equipment: a, duplex pump-governor; b, from boiler; c, exhaust; d, nine and one half inch air-pump; c, drain-cock; f, main reservoir; g, engineer's brake-valve; h, gage; f, cut-out cock; f, driver brake-cylinders; f, equalizing reservoir; t, plain triple; m, air-strainer; n, truck and driver brake reservoir; o, automatic slack-adjuster; p, truck brake-cylinder; g, angle-cock; n, conductor's valve; m, air-strainer; n, truck and driver brake reservoir; o, automatic slack-adjuster; p, truck brake-cylinder; e, drain-cock; x, auxiliary reservoir; y, train-pipe; r, hose; s, hose-coupling. The tender equipment (omitted) is similar to the car equipment.

from that of the plain automatic above mentioned. This improved form was invented by George Westinghouse in 1837.—Straight-air brake, the original form of alr-brake, in which the brake-pipe connects the brake-cylinder on each car to a valve on the locomotive, by means of which the engineer can allow air-pressure to flow from the large reservoirs on the locomotive directly to each brake-cylinder to apply the brakes, or he can connect the brake-pipe with the atmosphere to release the brakes. In this system the brake-pipe is under pressure only during an application of the brakes. This form of brake was first patented in England early in the nineteenth century, and was first applied to railway service in America by George Westinghouse in 1869.

air-cataract (ar'kat a-rakt), n. A device to check the vibrations or oscillations of a body, and also to cushion or soften the blow of a body brought suddenly to rest. It consists of an air-cylinder having a moving piston or disk attached to the body whose notion is to be checked or damped. The confined air, being allowed to escape only through small openings in the end of the cylinder or through the piston or disk, checks the vibration or the motion of the piston and the body to which it is attached.

air-chamber, n. 4. A septal chamber in the nautilus and other chambered cephalopods like the ammonites, goniatites, and orthoceralike the ammonites, goniatites, and orthocera-tites. 'The name was commonly thus employed in the belief that these spaces, successively abandoned by the animal as the forward growth of the shell continues, were filled with air which facilitated the flotation of the shell when the animal chose to rise to the surface of the sea. It is now regarded as doubtful if gases ever enter these chambers during life. Verrill has pointed out that water has access to the elastic siphuncular tube, "but living, as the animal does, under pressure at considerable depths, the fluid in the chambers is saturated with the gases in solution. When the Nautilus is rapidly brought to the surface, some of the gas is liberated in consequence gases in solution. When the Nathubs is rapidly brought to the surface, some of the gas is liberated in consequence of diminished pressure and must occupy part of the space within the chambers by forcing out some of the fluid. Hence the shell will float until the free gases within the chambers are absorbed or otherwise eliminated." Also termed camera and loculus,

5. In bot.: (a) One of the mostly prismatic intercellular spaces occurring in aquatic plants. (b) The intercellular area beneath a stoma.

air-channel (ar'chan'el), n. 1. A channel for the passage of air. 2. pl. Channels underneath the hearths or in the brickwork of the walls and fire-bridges of reverberatory furnaces, designed to protect the foundations from the intense heat of the furnace as well as to preheat the air entering the furnace.

air-compartment (ar'kom-part"ment), n. air-tight subdivision of a shaft or other mine passage for the ventilating current.

air-compressor, n. 2. A combined steamengine and air-compressing cylinder, or a com-pressing-cylinder operated by a motor or by engine and air-compressing cylinder, or a compressing-cylinder operated by a motor or by belting. A typical form has 4 horizontal cylinders arranged in tandem pairs. One pair ts composed of the high-pressure cylinder of the eagine and the first air-compressing cylinder; the other pair consists of the larger, low-pressure steam-cylinder and a second and larger cylinder which recompresses the air siready compressed in the first cylinder. Each pair has one piston-rod which unites the pistons in each cylinder and extends beyond the steam-cylinder through a connecting-rod to a fly-wheel, the two rods thus being joined and moving together through the fly-wheel. Each air-cylinder is was the pistons in a being conductor of the first cylinder passes to the second cylinder through a group of pipes inclosed in a large pipe which carries a stream of cold water that absorbs more of the heat of compression from the air, and is again compressed. From the second cylinder the compressed air may pass through a second cooler or be delivered direct to the air-receiver for storage and cooling, ready for use in rock-drills or other air-motors. Other types of air-compressors consist of single or compound vertical engines or of single-acting alr-compressing cylinders operated by a crank from a beleddriven fly-wheel alr-compressing cylin belt-driven fly-wheel. cylinders operated by a crank from a

air-condenser (ar'kon-den ser), n. 1. An electric condenser made by having two thin metal plates separated by a layer of air, one plate being connected to a positive pole and the other to a negative pole from the same eircuit. The action of such a condenser is exactly the same as that in a Leyden jar; when there is sufficient potential to overcome the resistance, the condenser discharges.

2. A condenser for steam in which air is used for cooling the condensing surface instead of water: used on some motor-cars.

air-cooled (ar'köld), p. a. Cooled by a current of air; having its heat carried off by passing cool air over its surface.

air-cube (ar'kub), n. The amount of air in a elosed space available for respiratory purposes by each person occupying it. It is expressed by the cubic contents of the space divided by the number of persons.

air-cure (ar'kur), n. Same as aerotherapeutics. air-cushion, n., 4. Specifically, a volume of air imprisoned behind a movable piston in a chamber which it fits. The air, by its compression, gradually arrests the motion of the piston. Used as a safety appliance at the foot of elevator-shafts to catch and stop the fall of the cage in case of the breaking of the hoisting-rope or other accident.

air-cylinder, n. 2. Any cylinder in which air is used, as in an engine run by compressed air instead of by steam.

air-door (ar'dor), n. A door for the regulation of currents of air through the workings of a mine. Coal and Metal Miners' Pocket-book.

air-drain, n. 3. A pipe or flue built into a fireplace to insure an ample supply of air.

air-duct, n. 2. In building, same as *air-drain, 3.—3. In the heating and ventilation of buildings, a large pipe, often built of wood or thin metal, used to transmit air, either cold or hot.

air-embolism (ãr'em/bo-lizm), n. Air-bubbles in a blood-vessel, causing obstruction of the flow of blood.

air-extractor (ãr'eks-trak"tor), n. A device for separating air from a

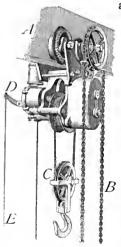
air-float (ar'flot), n. bladder formed in the fronds of certain *Phyco-phycex*, or brown algae (Fucus, Ascophyllum, Sarete.), which serves to float the plant in the water and possibly assists fertilization. Also air-bladder and airvesiele.

air-funnel, n. 2, In zoöl., the lower, gas-secreting portion of the pneumatoeyst of physophorous siphonophores.

air-gap (ãr'gap), n. In elect., the opening or space between the poles of a magnet or between the armatures and pole-pieces of a dynamo or meter; that portion of a magnetic

circuit which contains
no iron; the space between the terminals of an electrostatic machine, induction-coil, or discharger.

air-gas, n.—Harcourt air-gas pentane standard, a mixture of 3 cubic feet of air and 9 cubic inches of liquid pentane, a product of American petroleum distilling at a temperature below 50° C. and having a specific gravity between .6298 and .63, producing 4.05 cubic feet of standard air-gas. This gas is burned at a burner with an orifice of \(\frac{1}{2}\) inch to produce a flaune 2\(\frac{1}{2}\) inches high, with a consumption of gas of .48-52 cubic feet an hour. The light of this flame is equal to that of a British standard candle. First-suggested by A. G. Vernon-Harcourt in 1877.



Motor Air-hoist. A, trolley on flange of I beam; B, chain controlling trolley; C, hoisting-block and chain; D, motor for hoist; E, chain controlling D.

to that of a British standard A. G. Vernon-Harcourt in 1877.

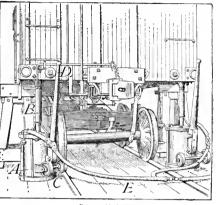
air-hoist, n.—Cylinder air-hoist, an air-hoist employing a long cylinder fitted with a piston and piston-rod, the weight to be lifted being suspended from the lower end of the latter. The compressed air is delivered through hose to the lower end of the cylinder, forcing the piston upward and lifting the weight. To lower the load the air is released and the piston allowed to fall slowly. The load can be held at any point of the hoist and safety appliances prevent the too sudden rise or fall of the piston through loss of load or loss of air-pressure. Cylinder-hoists are hung by a hook in fixed positions or attached to a trolley traveling on an overhead track, to the jih of a crane, or to a traveling-crane. Telescopic cylinders are used where head-room is lima traveling-crane. Tele-scopic cylinders are used where head-room is lim-ited.— Motor air-hotst, a chain-hoist operated by an air-motor. It may be an air-motor. It may be auspended in a fixed posi-tion or from a trolley trav-eling on an overhead track

Fucus vesiculosus showing air-floats.

(From Murray's

air-insulated (ar'in sū-lā-ted), p. a. In elect.
or heat, insulated by means of an intervening in units of one standard atmosphere.
air-proof (ar'pröf), v. t. To proteet from injurious action of the air or of some of its injurious action of the air or

air-jack (ar'jak), n. A lifting-jack operated by compressed air. It consists of an upright cylinder with a piston, the piston-rod acting as the lifting arm of the jack. In one form the cylinder is telescopic. It is



Pair of Air-jacks,

A, cylinder; B, piston-rod used to lift the car; C, wheels, and D, handle, for moving the air-jack; E, air-hose from compressor.

usually fitted with wheels for transportation, and is used

in railroad car-shops,
air-jacket, n. 2. A space surrounding a steamcylinder or other vessel within which is circulated hot air or gas, or within which ordinary air is confined without circulation: used to diminish loss of heat by radiation through the walls of the cylinder and to lessen cylinderwalls of the cylinder and to lessen cylinder-condensation of steam back to water. Its func-tion is the same as that of the steam-jacket. Since air is one of the best non-conductors of heat when it is not allowed to circulate, an air-jacket may also be used to keep the cylinders of a refrigerating apparatus from be-ing warmed by the outside air.

3. A closed space, usually annular, about some

part of a machine or piece of apparatus, designed to secure uniformity of temperature.

air-jacket (ar'jak"et), v. t. To provide with an air-jacket. See *air-jacket, n., 2. air-jig (ar'jig), n. In mining, a machine which

effects the separation of minerals according to their specific gravity by intermittent rising currents of air which lift the lighter particles of gangue and permit the heavier metallic minerals to settle. The light tailings flow off at the top and the concentrates are discharged from below by some mechanical device. The Paddock-Hooper pneumatic concentrator and the Vrom air-jig are the principal machines of this class.

air-leak (ar'lok), n. In electrostatics, the loss of charge, in the case of an insulated body, due to the discharging action of the surrounding air.

air-level (ãr'lev"el), v. A level or airway of former workings made use of in subsequent deeper mining operations for ventilating purposes. Coal and Metal Miners' Pocket-book.

air-lift (ar'lift), n. A device for raising water from deep wells by means of compressed air. from deep wells by means of compressed air, It comprises an air-compressor and two pipes open at the lower end and placed one within the other in the well. The compressed air passes down the inside pipe to the bottom of the well, where it rises through the larger pipe and through the water which fills the lower part of it, carrying the water upward with it amid delivering it at the aurface. The system can be so applied to a group of wells as to lift several million gallons a day.

air-liquefier (ãr'lik"wē-fī-èr), n. An apparatus for converting air under pressure into liquid air by the effect of cooling.

air-meter, n.— Biram's air-meter, a modification of the Casella air-meter in which a large light radial fan is kept in rotation by the current of air to be measured. The apparatus is usually graduated so as to show the volume of fresh air that passes through the shaft leading to a mine or a room that needs ventilation.

a mine or a room that needs ventilation.

air-monger (ãr'mung"ger), n. [air + monger.]

One who is taken up with the pursuit of visionary or impracticable projects. Felltham, Resolves, I. xv. [Raro.] N. E. D.

airol (ãr'ōl), n. A greenish-gray, fine, voluminous, odorless, and tasteless powder, said to be an expressed and tasteless powder.

to be an oxyiodide of bismuth subgallate.

is absorbent and antiseptic.

air-plate (ãr'plat), n. A plate perforated to allow the passage of a limited amount of air; a perforated baffle.

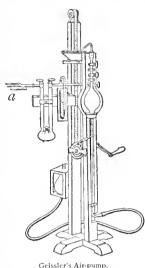
air-pressure (ar'presh" ür), n. The barometric nr-pressure (ar pressure), n. The barometric pressure or clastic pressure of the atmosphere. It is expressed in pounds per square inch, or in dynes per square meter, or, more commonly, by the height of the mercurial column of the barometer, and sometimes in units of one standard atmosphere.

gredients, as by a suitable varnish applied to the material to be protected.

air-pump, n.—Duplex air-pump, a form of air-pump in which two air-pumping cylinders are placed

side by side in pairs, the piston-rod of each being the prolongation of the piston of the steam-cylinders (also in pairs) which drive them; specifically, a form of air-pump for air-brake service in which one of the cylinders is twice the diameter of the other but of the same stroke. Both air-cylinders draw in air from without on the intake

Both air-cylinders dr stroke, but the lar-ger delivers into the smaller on the completion of the intake stroke of the latter. Hence three volumes of free air are delivered in each double stroke, —Geissler's mer-cury air-pump, an apparatus used for producing a vacu-um, consisting es-sentially of a reser-voir which can be filled with or emp-tied of mercury by filled with or emptied of mercury by raising or lowering another containing mercury and con-nected with the for-mer by a flexible rubber hose. By the proper adjustment of stop-cocks the sir or gas exhausted from a vessel at-tached at a is dried by passing through a U-tube containing a desiceating ma-terial, usually phosphorus phorus pentoxid, and is either col-



and is either col-lected over mercury held in a trough or is driven into the air. A barometer-gage indicates the degree of ex-haustion. The raising and lowering of the reservoir holding the mercury are effected either by hand or by the use of a simple mechanical device.—Toepler's mercury air-pump, a modified form of the Geissler air-pump, in which a glass valve replaces the controlling stop-cock and a barometer-tube serves to permit the exhausted air to escene.

air-regenerator (ãr'rē-jen"e-rā-tor), n. The regenerator through which atmospheric air passes to be heated on its way to a steel-melting or reheating furnace, a zinc furnace, a coke-oven, etc. It is larger than the corresponding gas-regenerators.

air-register (ar'rej"is-ter), n. Same as register1, 8.

3. In bot., a eavity in a pollenair-sac. n. grain of the genus Pinus.

air-separator (ar'sep"a-ra-tor), n. In mining, a machine which effects the separation of min-erals according to size or density by air, either by pulsating rising currents (see *air-jig); or by a continuous blast, as in the Edison, Hochstedt, and other dust-separators; or by pro-jecting the particles to be separated by mechanical means into still or moving air, as in the centrifugal separators of the Pape-Henneberg and Clarkson-Stanfield types.

(ãr'ship), n. A buoyant balloon provided with a motor, propellers, and rudders, so that it can navigate the air under the coutrol of an aëronaut; a dirigible balloon. Such balloons are made in various elongated, more or less cigar-shaped, forms and have successfully traversed long dis-

in. The air-tap is placed at the highest point in the series of pipes. Air-taps in pumps and engines are called petcocks. Lockwood, Dict. Mech. Eng. Terms. air-tester (âr'tes-tér), n. An apparatus for testing the quality of air, as in inhabited

anartments.

3. A small funnel of glass fasair-trap, n. 3. A small funnel of glass fastened in the inside of a barometer-tube to eatch any bubbles of air that would otherwise rise through the mercury into the vacuum-chamher.

air-twist (ar'twist), A bubble of air which is sometimes contained in the stem of a vessel of glass, and which, in twisting, becomes a hollow spiral.

The secret of the con-struction of two of the classes — namely, the brilliant, and the com-bined opaque and air-twist—seems to have

bried opposite to have been lost.

Wynn Penny, English Eighteenth Century Drinking Glasses. Burlington Mag., III. 63.

air-twisted (ãr 'twis"ted), p.a. Hav-ing an air-twist. See *air-twist.



Glass Vessel, showing Air-twist.

air-valve, n. 3. In an engine-cylinder, and particularly on the locomotive engine, a valve which is held shut by steam-pressure when the throttle-valve is open, but which opens by a spring to admit atmospheric air when the throttle is closed and the pistons keep on moving from the momentum of the mass of engine and train. In the absence of such a valve the pistons reduce the pressure behind them, after a stroke or two, to a point at which the pressure in the cylinders is much less than that of the atmosphere; and when the exhaust-passage is opened a rush of air back through it will carry into the cylinders the products of combustion from the smoke-box, including cinders and grit, which are injurious to the working-surfaces. Such air-valves are placed on the steam-chest or connect with the steam-passages.

air-vesicle, n. 3. Same as *air-float. air-washer (ar'wosh-er), n. An appliance in which a current of moving air may be cleansed which a current of moving air may be creatised from dust or other particles, and from some polluting gases, by passing through water. The cleansing water may fall in a shower across the moving air by escaping from perforated pipes or through perforated metal screens; or the air may be compelled to escape by pressure under the lower edge of a plate which is immersed an inch or two in the water.

air-wave (ar'wav), n. A wave in the atmosphere. It may be either a wave of compression and rarefaction, like those of sound; or a tidal effect like the ocean tides; or a wave of progression like that produced by the outburst from Krakatua in 1883. In the case of the Krakatua outburst, the wave moved around the globe several times at an average velocity of 700 miles an hour,

and the accompanying sound-wave was heard several hundred miles away.

als (ä-ës'), n. [Native name.] A name in Ponape, Caroline Islands, of Parinari laurinum, a tall tree having oblong leathery leaves.

Airship Zeppelin 111. A, A, engines; B, rudder; C, C, dipping-planes; D, D, propellers.

tances under good control. The first notably successful experiments with the dirigible halloon were made by Alzoaceæ (ā"i-zō-ā'sē-ē), n. pl. [NL. (Alex-Renard, in France, 1884-85; he attained a velocity of 14 miles an hour and was able (as a rule) to return to his starting-point. In 1900 Count Zeppelin made short voyages over Lake Constance in a dirigible of his own design, which has been remodeled and improved until in 1900 the ovages of several hundred miles. Other successful experimenters have been Santos-Dumont, whose air-ahips (suecessive models) accomplished notable results in 1900 and 1901, Lehaudy in France, Gross and Parseval in Germany, and Thomas S. Baldwin in the United States.

Aitken's coke-oven. See *coke-oven.

Aitken's coke-oven. See *coke-oven.

Aitken's coke-oven. See *coke-oven.

Aitken's coke-oven. See *coke-oven.

Aizoaceæ (ā"i-zō-ā'sē-ē), n. pl. [NL. (Alex-family of dicotyledonous, archichlamydeous aper damily of dicotyledonous, archichlamydeous seed family, of the order Chenopodiales, typified by the genus Aizoōn. See Fēcoideæ.

aizoaceous (ā"i-zō-ā'shius). a. [NL. Aizo-guts in 1900 and 1901, Lehaudy in France, Gross and Lehaudy in Fr United States.

air-stone ($\tilde{a}r'$ ston), n. [$air^1 + stone$.] A meteorite. [Rare.] N. E. D. air-tap ($\tilde{a}r'$ tap), n. A cock or valve fixed in

the air-pipe in hot-water apparatus, to allow of the escape of air from the series, which without this means of exit would accumulate there-

ander Braun, 1864), 〈 Aizoön + -aeeæ.] A family of dicotyledonous, archichlamydeous (apetalous or choripetalous) plants, the carpetweed family, of the order Chenopodiales, typified by the genus Aizoön. See Ficoideæ. aizoaceous (ā*i-zō-ā'shius). a. [NL. Aizoaceeæ. Aizoön (ā-i-zō'on), n. [NL. (Linnæus, 1753, adopted from his "Genera Plantarum," 1737), ⟨ Gr. ἀείζωον, an evergreen plant, supposed to be the houseleek, ⟨ ἀεί, ever, + ζωός, living.] 1.

be the houseleek, $\langle \dot{a}\varepsilon i, \text{ ever, } + \zeta \omega \delta \varsigma, \text{ living.} \rangle$ 1. A genus of dicotyledonous plants, type of the family Aizoaceæ. They are evergreen spreading herbs or small shruhs, with fleshy, entire leaves, and axillary, solitary or cymose, yellow flowers. The ten species are natives of the warmer parts of the old world, six being found in South Africa and one in Australia, while the othersoccur mainly in the Mediterranean region. The most widely distributed species is A. Canariense, which occurs in the Canary and Madeira Islands, in the Azores, South Africa, and through southern Asia to India. A. Hispanicum is a characteristic plaut of se uthern Italy and Spain, also occurring in northern Africa and extending eastward to Persia.

2. Sometimes used as a specific warme for

2. Sometimes used as a specific name for plants of a low and tufted, persistent character, as Anthemis Aizoön, Saxifraga Aizoön.

aja (ä'yä), n. A South-African Dutch form of

the East Indian ayah, a nurse; a lady's-maid.

ajacol (a-jak'ol), n. An oleaginous fluid, conajacol (a-jak'ol), n. An oleaginous fluid, congealing to a crystalline mass at low tempera-It has the same properties as guaiacol. tures.

tures. It has the same properties as guaiacoi. Also called guaethol and thanatol.

ají (ä-hè'), n. [Sp., formerly axi; of W. Ind. (Taino) origin.] A red pepper. See pepper, chilli, and pimento.—Ají dulce, the sweet pepper, Capsicum annuum.—Ají picante, the fruits of Capsicum annuum.—Ají picante, the fruits of Capsicum frutescens and C. baccatum, the pungent red peppers used in the preparation of Cayenne pepper.

ajo (ä'hō), n. [Sp., < L. allium, garlic.] 1. The garlic, Allium sativum.—2. A very large tree of Peru and Bolivia, Cordia altiodora, which when wounded gives forth from its bark and leaves a penetrating odor of garlic. See agric.

leaves a penetrating odor of garlie. See garlie. ajog (a-jog'), adv. [a³ + jog.] On a jog; at a leisurely pace. G. Meredith, The Egoist, II.

ajonjoli (ä-hōn-hō-lē'), n. [Sp., ajonjoli, al-jonjoli.] The sesame, Sesamum orientale, the seed of which, also called benneseed, yields a bland oil. See sesame.

Ajuga (a-jö'gä), n. [NL., < L. ajuga, name of a plant.] A genus of bardy, herbaceous, European perennials, members of the family European perennials, members of the family Menthaceæ, creeping by stolons, and commonly known as *bugle-weed. Some of them are grown as garden plants, in rockeries and borders, although they are not generally known in America. Of the 30 known species, A. Genevenis, A. pyramidalis, A. reptans, and A. metallica are most common in gardens.

ajugate (a-jö'gāt), a. [a-18 + jugate.] Having polytikas and sugardens.

ing no jugum.

ajutment (a-jut'ment), n. [Irreg. $\langle a-+jut+-ment, after abutment.$] A jutting out; a projection. [Rare.]

The ajutment of a hill toward the sea.

Marryat, Peter Simple, III. 323. N. E. D.

ak (äk), n. [Hind. āk, < Skt. arká, name of a tree or shrub, lit. ray, or sun.] The flowered form of Calotropis gigantea. madar and yercum. [Northern India.]

aka (â'kā), n. [Maori aka, name of the plant, lit. long fibrous roots: see *aalii.] A elimbing epiphyte of the myrtle family, Metrosideros epiphyte of the myrtle family, Metrosideros scandens. It completely envelops the tree on which it grows, which ultimately dies, the wood decaying. The epiphyte remaining forms a hollow cone. [New Zealand.] akaakaawa (ä kä-ä kä-ä wä), n. [Hawaiian, \(\alpha ka-aka \) (Maori kata), laugh at, \(+ \awaiian \), fine rain or mist. The plant is found in greatest profusion in humid mountain ravines near the spray of waterfalls.] Hillebrandia Sandwicensis, a beautiful plant of the begonia family, bearing clusters of delicate pink-and-white flowers. [Hawaii.] akaakai (ä-kä'ä-kä'ĕ), n. [Hawaiian.] In Hawaii, a bog-plant, Scirpus lacustris, 'the stems of which are used in making mats and

bags.

akahara (ä-kä-hä'rä), n. [Jap., < aka, red, + hara, belly.] The Japanese name of a large chub of the family Cyprinidæ, Leuciscus baknensis, found in the waters of Japan. Also known as ugui.

known as ugut.

akala (ä-kä'lä), n. [Hawaiian.] In Hawaii,
a native species of raspberry, Rubus Macrai.
The fruit often attains a diameter of nearly two inches,
is of a deep-red color, is very juicy, and, although
slightly bitter, is agreeable to the taste. The name is
also sometimes given to another raspberry, Rubus Havaiensis, the fruit of which is not so large and is dry and
unpalatable.

akanthion, n. See *acanthion.

akaroa-tree (ä-kä-rō'ä-trē), n. [Maori.] New Zealand lace-bark or ribbon-tree. [Maori.] The Plagianthus.

akaryota (a-kar-i-ō'tā), n. pl. [Gr. ἀ-priv. + κάρνον, nut (nucleus).] In biol., non-nucleated cells, as opposed to nucleated cells or karyota. akasha (ä-kä'shä), n. [Skt. ākāçā, clear space, ether.] Ether; one of the five gross elements (the others being air, fire, water, and earth) which, according to the Sankhya system of Indian philosophy, make up the visible world; the subtile fluid which fills and pervades infinity and is supposed to be the peculiar vehicle

of life and sound. Unlike air $(r\bar{a}yu)$, which is **akund** (a'kund), n. [Hind., \langle Hindi akund, the always moving and penetrates only where it tree.] The dried root-bark of Calotropis giean find an entrance, akasha is perfectly immovable and exists everywhere.

akcha (akh'ehä), n. [Also akchek, aqcha; Turk. akcha, aqcha, money, eoin, cash, a monetary value, an asper; as adj. rather white, whitish: see asper².] A very small Turkish silver coin of the value of ½ para.

ake² (ä'kā), n. [Maori, < ake, onward, ake ake ake, for ever and ever. The allusion is to the durable qualities of the wood.] 1. In New Zealand, a small tree, Dodonæa viscosa, of the soapberry family, with very hard variegated wood.—2. In the Chatham Islands, a small tree, Shawia Traversii (Olcaria Traversii of Hooker), of the aster family.

akea (ä-kē'ä), n. Same as *akia.

akeratophorous (a-ker-a-tof'o-rus), a. Same

as aceratophorous.

akerite (ak'e-rit), n. [Norw. Aker, a locality in Norway, + -ite².] In petrog., a term applied by Brögger (1890) to a syenite containing much plagioclase, with biotite, augite, and some quartz.

akermanite (âk'êr-man-it), n. [For Richard Akerman, a Swedish mineralogist.] An artificial mineral species closely related to melilite:

identified in certain slags.

Akhmimic (äch-mim'ik), a. and n. I. a. Of or pertaining to Akhmim or to its language. II. n. One of the main divisions of Coptic, spoken in the neighborhood of Akhmim.

akhter (äk'ter), n. [E. Ind.] A copper coin of Mysore, equal to one fourth of a paissa or pice.

akhyana (ä-ki-ä'nä), n. [Skt. ākhyāna, tale (ef. ākhyā, name), <ā- + tkhyā, eall, name.] A tale; a story; a legend. Eneyc. Brit., XXVI.

akia (ä-kē'ä), n. [Hawaiian.] A name in Hawaii of several shrubs belonging to the genus Capura, of the family Daphnaceæ, particularly of C. viridiflora (Wikstræmia viridiflora of Meissner), found also in the Society, Samoan, and Fiji Islands. The bark contains an acrid narcotic principle, and la used by the natives for narcotizing fish in fresh water. The stems yield a strong, flexible bast-fiber. Also apelled akea.

akiahala (ä-kē'ä-hä'lä), n. [Hawaiian.] In Hawaii, a small shrub, Hibiscus Youngianus,

with pink flowers.

Akinesia algera. [Gr. αλγηρός, painful.] Loss of the power of motion as a result of pain.

akinesis (ak-i-nē'sis), n. In biol., direct celldivision or the amitotic multiplication of cells.

akinete (ak'i-nēt), n. [Gr. ά-priv. + κανητός, movable: see kinetic.] The resting-spore of certain algae formed directly from a vegetative cell by the simple thickening of the wall and without rejuvenescence. Same as hypnocyst.

See *aplanospore.

akinetic (ak-i-net'ik), a. [Gr. ά-priv. + κίνησις, change, movement.]

1. Same as akinesic.—

2. In cytol., without perceptible internal movements: a term applied to that form of cell-division which is not karyokinetic. Samo as *amitotic, *karyostenotic, or direct (cell-

division).

akkum (ak'kum'), n. akkum (ak'kum'), n. [Heb. 'akkum, formed of the initials of a Hebrew phrase of three words meaning a worshiper of the stars and constellations.] A star-worshiper, originally a Chaldean star-worshiper: applied in the Talmud to heathen idolaters; a pagan. akum.

akolea (ä-kō-lā'ä), n. [Native name.] A name in Hawaii of a large fern, Phegopteris Hille-

akoulation, n. See *acoulation.

akouphone (ak'ö-fōn), n. [Incorrectly formed from Gr. ακούειν, hear, + φωνή, sound.] The trade-name of an appliance for enabling the deaf to hear, constructed on the analogy of the telephone.

akra (äk-rä'), n. [Hind. and Hindi akrā.] Iadia, a common name for the vetch or tare.

Vicia sativa. See Vicia.

akreophagist, n. Same as *acreophagist. akreophagy, n. Same as *acreophagy. akreocephalic, a. See acrocephalic.

akronegaly, n. See *acronegaly,
akule (ä-kö'le), n. [Hawaiian.] A Hawaiian
name of the goggle-eyed scad, Trachurops crumenophthalmus. Called atule in Samoa.
akum, n. See *akkum.

gantea, extensively used in Indian medicine, especially as a substitute for ipecacuanha in dysentery.

, < dvsentery.
, a all, n. The name is applied in India to several species of Morinda, especially to Morinda citrifolia and M. tinctoria, trees belonging to the madder family, which grow apontaneously and are also cultivated for the sake of the dye obtained from the bark of their roots and stem. The ake amallest roots yield the most valuable dye, the stem the most interior. The aldye is gradually supplanting the most capture red obtained from the Indian madder, or chaya root (Oldenlandia umbellata), with which the celebrated Madras handkerchiefs and turbans were form the indian madder, or dispersion of the process of the process of the Pacific Ocean, where its fruit is sometimes eaten by the natives. See

with a bell or a whistle to make its present and its numerous recent derivatives), **althionic, etc. Compare -al². Compare alk- in words like **alkamine, etc. (where alk- represents G. alkohol), and -ol, representing the last syllable of alcohol.

al². In bridal, burial atal-3. A nominal prefix, actually a reduction of

-al². In bridal, burial, etc., a nominal suffix. associated with -all, but actually of different origin, according to the history of each word. See the etymologies of the words cited.

-al3. [al(cohol), al(dehyde). See *al-3.] chem., a termination now recognized as signifying that the body named is an aldehyde, or derived from alcohol. Thus ordinary aldehyde is also ealled *ethanul, that is, the aldehyde of ethane.

A. L. A. An abbreviation of American Library Association.

Ala magna sphenoidei, in ichth., same as proötic; a lateral cranial bone just in front of the exoccipital. As used by Hallmann it is a synonym of the alisphenoid of Parker; as used by Erdl it is a synonym of the sphenotic of Parker.—Ala orbitalis, in ichth., a term applied by Stannius to the alisphenoid bone.—Ala parva, in ichth., same as opisthotic.—Ala parva sphenoidei, in ichth., the basisphenoid bone.—Ala temporalis, in ichth., the probtle bone. prootic bone.

alaalawainui (ä"lä-ä"lä-wä"ē-nö'ē), n. [Hawaiiau, $\langle aluala. \text{ soft, flabby, } + wai, \text{ water, } + nui, \text{ be great.}$ The name refers to the succinui, be great. The name refers to the succulent nature of the plant.] In Hawaii, a plant of the genus Peperomia.

Alabama (al-a-bā'nā), n. [NL. (Grote, 1895), \(Alabama, \text{ the State.} \] A genus of noctuid moths containing one species, A. argillacea Huebner. It is notorious as a destroyer of the cotton-plant in the southern United States, where its larva is known as the leaf-caterpillar or chenille. Formerly known as Aletia xylina.—Alabama china. See *china.—Alabama shad. See *china.

alabandite (al-a-ban'dit), n. See alabandine. alacreatine (al-a-kré'a-tin), n. [L. ala, wing (t), + creatine.] A compound, NH: C(NH₂)NHCH-(CH₃)CO₂H, a combination of cyanamide with a-aminopropionie acid; a-guaninopropionic

alacreatinine (al-a-krē-at'i-nin), n. tine + ine².] The anhydrid, C₄H₇N₃O, of alaereatine, formed by heating the latter to 180° C.

alagao (ä-lä-gä'o), n. [Tagalog alagao (also sahugo, < Sp. sauco) = Bisaya abgao, also adgao.] A Philippine tree, Premna vestita, of adgao.] A Philippine tree, Premuavestita, of the Verbena family. Its bitter leaves and its flowers are used medicinally by the natives. The tree is generally known to Spaniards living in the Philippines by the name of suice (elder), owing to the resemblance of its flowers to those of Sambicus nigra. In its medicinal qualities it resembles the allied Premua Gaudichaudii of the Island of Guam and P. integrifolia of the East Indies and Madagascar. See headachetree.

alalonga (ā-lii-long'gii), n. [Appar. < L. ala longa, 'long wing.'] Same as long-funcd alba-

core.

alang (ä'lang), n. See *alang-alang

alang-alang (ä"lang-ä'lang), n. [Malay ālangālang.] A grass, Imperata arundinacea, widely spread in the tropics, growing on land which has gone out of cultivation. Also called alang and, in the Philippines, cogon. [Malay Archipelago.]

alani (ä-lä'nē). n. [Hawaiian.] In Hawaii, a The wood is used in building canoes.

alantic (a-lan'tik), a. [G. alant, elecampane, +-ic.] Obtained from elecampane.—Alantic acid, the hydroxyacid Oil.C₁₄Il₂₀CO₂H, corresponding to alantolactone. It crystallizes in needles which melt

alantoic (al-au-tō'ik), a. [G. alant, elecampane, +-o-ic.] Derived from elecampane.

Alantoic acid, a colorless compound, C₁₄H₂₀(OH) cooli, found in the drug elecampane.

alantol (a-lan'tōl), n. [G. *alantol(?), <alant, Albion ware. See *ware²-

eleeampane, +-ol.] Same as alant camphor (which see, under camphor).
alantolactone (a-lan"tō-lak'tōn), n. [G. alant,

elecampane, + lactone. Same as helenin.

elecampane, + lactone.] Same as helenin.

Alar membrane, the elongate triangular membrane lying on the anterior edge of a bird's wing and runoing from wrist to shoulder-joint; the prepatagium.—

Alar septa, in the extinct Tetracoralla, the two prominent lateral septa or vertical plates in the calyx, one on each side, from which the adjoining septa branch pinnately: contrasted with the cardinal and counter senta.

septa.

Alaria, n. 2. A genus of platypodous gastropod mollusks of the family Aporrhaidæ.

They have a turreted spire, expanded and spinous outer lip, and long apertural canal. Shells of this genus are very abundant in the Jurassic and Cretaceous rocks.

alarm, n.-Still alarm. See still,1

alarm-buoy (a-lärm'boi), n. A buoy provided with a beli or a whistle to make its presence

In petrog., a name proposed by Spurr (1900) for igneous rocks composed almost wholly of alkalic feldspar and quartz without other alkane fetispar and quartz without other essential minerals. It is a group-term embracing many granular and porphyritic rocks which have been called granite, rhyoite, haplite, elean, granulte, eurite, granitel, etc. The distinct lava forms corresponding to alaskite in composition are called tordrillite by Spurr. Alastor, u. 2. [cap.] A genus of bats from the Universe Foscope phesphorites of Engage

the Upper Eccene phosphorites of France.

Alaunian (a-là ni-an), a. and n. [L. Alauni, Gr. Akavroi, a people of Noricum.] I. a. In geol., in the Triassic formation of the Mediterranean province, noting a substage corresponding to the middle division of the Juvavic sponting to the induce division of the suvavice stage, which lies just below the Rhætic and above the Carinthian stage. The Juvavic appears to correspond to the lower Rhætic of Germany, and the Alaunian, therefore, is correlated with the lower part of formation.

II. n. The Alaunian substage.

albacore, w.—Great albacore, the tunny or tuna, Thunnus hynnus.

albahaca (äl-bä-hä'kä), n. [Sp. albahaca, basil, Ar. al. the, habaq, pennyroyal.] A name applied in Guam, the Philippines, Peru, and Porto Rieo to several aromatic plants of the mint family, especially to Ocimum Besilicum and O. sanctum, which are cultivated for culinary and medicinal purposes. See Ocimum. toolsi, and basill

Albany slip, zone. See *slip, *zone. albardin (äl-bär-dēn'), n. [Sp., of Ar. origin.] A shoreweed, Lygeum Spartum, of southwestern Europe and northern Africa: similar in its use to esparto and sometimes included under that name.

Albata metal. See *mctal.

Albatrossia (al-ba-tros'i-ä), n. [NL., named for the exploring steamer Albatross, U.S. N. J A genus of grenadiers of the family Macrurida, eod-like fishes of the deep seas. A. pectoralis is found in Bering Sea.

albecore, n. Sec albacorc. Albedo ungulum, the lunnla of the nails.

albene (al'ben), n. [L. albus, white, +-ene.] The substance formed by boiling melam with water. It is white and insoluble.

alberello, n. Same as albarello. Alberini's process. See *process.

albert (al'bert), n. [Named, about 1860, from Prince Albert, consort of Queen Victoria.] A short watch-chain made with a cross-bar designed to be passed through a buttonhole.

Albert and Albertine ware. See *warc2.
Albian (al'bi-an), a. and a. [So named from the department of Aubc (L. Albia, \(albus, \) white), France.] I. a. In gcol., noting the lower division of the Upper Cretaceous formation in Palainment Engage. tion in Belgium and France, equivalent to the Galt and Upper Greensand of England. The deposits consist of argillaceous marls, greensand, and limestone and are highly fossiliferous.

II. n. The Albian division.

albinescent (al-bi-nes'ent), a. [albino + creat!] Showing a tendency to albinism. Na-

-escent.] Showing a tendency to albinism. Nature, March 16, 1893.

timber-tree of the rntaceous genus Ptelca, albinic (al-bin'ik), a. [albin(o) + -ic.] Marked by albinism or absence of pigment.

Two of the sons, apparently, married whyes who were 'pure dominants,' i. e., who were entirely free from the recessive (albinic) character. Science, Jan. 9, 1903, p. 75.

albino, n. 4. In Mexico, a person who has one eighth negro and seven eighths Spanish blood; the child of a Morisco woman (who is the daughter of a mulatto mother and a Spanish father) and of a Spaniard.

albirupean (al-bi-rö'pē-au). a. [L. albus, white, + rupes, rock.] Containing white rocks, - Albirupean group, in geol., a series of sand-beds occurring along Chesapeake Bay and regarded by the Maryland geologists as of Lower Cretaceous age.

Albite law, the law of twinning of albite. See albite twin, under twin.

albitite (al'bi-fit), n. [albite + -ite².] In petrog., a name proposed by Turner (1896) for granular igneous rocks consisting essentially of albite. Such rocks occur in dikes in the Sierra Nevada mountains of California.

Sierra Nevada mountains of California.

albitization (al bi-ti-zā'shon), n. [albite + -tzr + -atom.] The process of transforming into albite; the alteration of some preëxisting mineral, such as lime-soda-feldspar, into albite. Geikie, Text-book of Geol., p. 790.

albiventral (al-bi-ven'tral), a. [L. albus, white, + venter, belly.] Having a white belly or under parts, as is the case with many birds. albot (al'lbo), n. [NL orig abl. in the phrase

albo (al'bō). n. [NL., orig. abl., in the phrase in albo, of L. album: see album.] Same as album.

album.

Albo-carbon burner, a burner provided with a chamber containing solid naphthalene, which, being volutilized by the heat of the gas-flame, enriches the inflowing gas and thus increases its luminosity.

albocracy (al-bok'ma-si), n.; pl. albocracies (-siz). [l. albus, white, + (ir. -κρατεία, < κρατείν, rule.] Government by white men, that is, by men of European origin. R. N. Cust, Linguistic Essays, p. 303. [Rare.] N. E. D. albodactylous (al-bō-dak'ti-lus), a. [L. albus, white, + Gr. δάκτνλος, finger.] Having white wings. [Rare.]

white, + Gr. đần wings. [Rare.]

albolene, alboline (al'bō-lēu,-lin), n. [L. albus, white, + -ol- + -ene or -ine².] An unctuous substance derived from petroleum: used for the same purposes as vaseline.

albo-pruinose (al-bō-prō'i-nōs), a. [L. albus, white, + pruina, frost, + -ose.] Covered with a thin white powdery bloom: said of the surface of certain plants, especially the stipes and

eaps of some pileate fungi.

alboranite (al-bō-ran'it), n. [Alboran (see def.) + -ite².] In petrog., a name proposed by Becke (1899) for hypersthene-andesite rich in lime, the type occurring in the island of Alboran. Loewinson-Lessing eonsiders alboranite as essentially a hypersthene-basalt without olivin.

Albright (âl'brit). n. One of the 'Albright People,' the name given to the Evangelical Association founded by Jaeob Albright. See

Evangelical Association.

albronze (al'bronz), n. [al(uminium) + bronze.] An alloy of aluminium with copper and tin or of aluminium with bronze, used for bearings where lightness of weight and durability are required; aluminium bronze.

Albuginaceæ (al-bū-ji-nā'sē-ē), n. pl. [NL., \(Albugo (Albugin-) + -acev. \) A family of phycomycetous fungi typified by the genus

Albugo.

albugo, n. 2. [eap.] [NL. (S. F. Gray, 1821).] In mycol., a genus of fungi erroneously called Cystopus (which see).

albulignosine (al"bū-lig'nō-sin), n. [albu(men) + lignose + -ine².] A material obtained by the action on wood of a solution of sodium sulphite boiling under pressure, making the liquid acid, and adding albumen: proposed for use as a sizing and mordanting agent.

albumeant (al-bū'mē-an), a. [Irreg. < album + -e-an.] Of or pertaining to albums, or the pressing invitations of friends or acquaintances to coutribute to their albums. Lamb,

Letters, xvii. 156. [Rare.]

Albumen color. See *color. - Albumen dyestuff. Same

albumen-gland (al-bū'men-gland"), n. ln certain motlusks, as Helix, a glandular organ of which the thick viscid secretion probably serves to envelop the eggs.

I dissected one specimen, but was muchle to obtain a clear view of either the central nervous system or the reproductive organs. The latter, as usual in this family, were extremely complicated, both the prostate and albumen-gland appearing to be extensively ramified.

Proc. Zool. Soc. London, 1903, I. 257.

albumin, n. The albumins are highly complex organic bodies which enter prominently into the composition of all animal and vexetable tissues and form the groundwork, so to speak, of every living cell. They are the most important food-stuffs of all classes of animal life, and can be elaborated by the chlorophyl-bearing plants from such simple substances as water, carbon dioxid, and certain nitrates or anmonium saits. All albumins contain carbon, hydrogen, oxygen, nitrogen, and sulphur in definite proportions which vary but little in the different members of the group: one albumiu, which is found in

28

the thyroid, also contains iodine. Other elements are not met with in albumins proper, but are encountered in certain compound albumins, in which an albuminous radical is united withother more criess complex groups. Thos hemoglobin contains iron, hemocyanin copper, and the nucleo-albumins and nucleoproteir's phosphorus. All albumins also contain variable amounts of mineral salts in firm combination. Their molecular size is very large, For crystallized egg-albumin llofmeister established the formula C239H236A58S2O78, which corresponds to a molecular weight of 5,378. The protamins and histons apparently have the smallest molecules, while the compound albumins are proportionately heavier: the weight of oxythemoglobin has thus been determined as 14,800. The greater number of the albumins are amorphous. A lew, however, can be obtained in crystalline form, such of oxyhemoglobin has thus been determined as 14,800. The greater number of the albumins are amorphous. A lew, however, can be obtained in crystalline form, such as egg-albumin, serum-albumin, oxyhemoglobin, and certain vegetable albumins, as edestin, etc. The so-called Bence Jones albumin, which has been met with in the urine in certain pathological conditions (multiple myeloma), also belongs to this order. All true albumins are levorotatory, while certain compound albumins (the nucleoproteids) turn the plane of polarization to the right. Osborne has shown that this property, in the case of the nucleoproteids, is very likely wholly relerable to the nucleinic acid complex which they contain. All albumins—owing to the great size of the molecule, no doubt—are incapable of diffusing through animal membrane or vegetable parchment. Some members of the group are soluble in water, others only in dilute saline solution, and still others in difute acids and alkalis. From their solutions they can be precipitated by mineral acids, the salts of the heavy metals, the so-called alkaloidal reagents (as tannic acid, phosphotungstic acid, iodomercuric iodide, etc.), strong alcohol, and certain neutral salts (sodium chlorid, maguesium sulphate, sodium sulphate, and notably ammonium sulphate. All albumins further give certain color-reactions, of which the biuret reaction (production of a bluish or reddish violet-color on the addition of very diflute copper-sulphate solution in the presence of an excess of strong caustic alkali) is especially characteristic. The true albumins are all coagulated by heat. As a result they lose their individual characteristics and are then said to be denaturized. After this they can be brought into solution only by means which at the same time will produce integral changes in their composition. From study of the various cleavage-products which result from the albumines on hydrolysis by boiling mineral acids and alkalis, by digestion with the proteolytic ferments, etc., a certain insight is now possibl etc.), exist in the albiminous complex in the form of Fischer's polypeptides, which have the general structure represented by the formula NH2. (CH2.-CO.NH)...CH2.-COOH. These in turn are combined with other groops, such as the sulphur-containing cystin complex, the glucosanin-group, etc., to form still more complex, such as the sulphur-containing cystin complex, the glucosanin-group, etc., to form still more complex, the glucosanin-group, etc., to form still more complex radicals, which are further combined with similar groups to even larger complexes, which last in turn are again united with correspondingly large groups to form the complete molecule. Evidence of the correctness of this supposition is furnished by a study of the products of albimnous digestion. Here we find among the primary products of cleavage three complex bodies which individually differ from one another and which in the intact molecule were manifestly in combination. Those are the three primary albimoses, termed proto-albimose, heteroalbimose, and glucoalbimoses, termed proto-albimose, heteroalbimose, and glucoalbimoses, termed proto-albimose, in small amount, much tyrosip, little leucin, no glycocol, etc.; while the second contains diamido acids in small amount, on tyrosin, and the total amount of glycocol of the original substance. Glucoalbimose, in turn contains the entire carbohydrate-group and a larger percentage of oxygen, while the amount of nitrogen and carbon is less than in the two other groups. (See also *products of digrestion.) The albiminism may be divided into 5 classes, namely the native albimins, the nucleo-albimins, the proteids, the albiminisms, the nucleo-albimins, the proteids, the albiminisms, the nucleo-albimins and serum-globulin of the blood plasma, the ovalbimin of white of egg, the lactalbimin of milk, and the myosin and niyogen of muscle-plasma. The same group further comprises the glucoalbimins, which are characterized by the special predominance of a carbohydrate-group, and of which the various much same propo

albumosuria
the various intermediary digestive products, including the albuminates, albumoses, and peptones.—Bence Jones albumin, formerly known as the Bence Jones albumin, formerly known as the Bence Jones albumins. Shown by Magnus Levy and Shoon to be a true albumin. Its presence in the urine seems to be invariably associated with a fatal disease known as multiple myeciated albumin, in photog, albumin to that infigure albumin, in photog, albumin containing an iodide.—Martin's albumin negative process. See *process.—Toxic albumin negative process. See *process.—Toxic albumin, a poisonous substance supposedly of albuminous character; for example, the specific poison produced by the diphtheria organism. Also called toxalbumin.

albuminate, **. — Weyl's albuminate, an insoluble modification of a globulin which results from the latter on prolonged exposure to water.

albuminic (al bū min'ik), a. Pertaining to or derived from albumin as, albuminic acid. Aecording to Schmiedeberg, ferratin is a ferrialbuminie acid.

albuminimeter, n.—Esbach's albuminimeter, an apparatus for the estimation of albumin in urine. The tube is filled with urine to the mark u, and with the reagent (which consists of an aqueous solution of citric acid 2 per cent. and pieric acid 1 per cent.) to the mark r. After thorough mixing the tube is set aside for twenty-four hours. The volume of the precipitate, as read from the graduations, indicates the parts of albumin per thousand of urine.

albuminize, v. t.—Albuminized collo-dion. See *collodion.

albuminoid, n. The albuminoids represent a class of albumins which, in contradistinction to the albumins proper, are essential components of the intercellular structures and result from the albumins, in the narrower sense of the term, through the activity of cellular elements. As a class they do not contain all the typical radicals of the pure albumins, and for this reason, nodoubt, their nutritive value is distinctly less than that of the albumins proper. They are largely found in the supporting tissues of the animal body, namely, the connective tissue, cartilage, and bone. The group comprises collagen (gelatin), elastin, spongin, fibroln, albumoid, etc. Also called glutinoid. albuminometer (al-bū-mi-nom'e-ter), n. Same as albuminimeter.

minometer (al-bū-mi-nom'e-tėr), for rea-same as albuminimeter. minometry (al-bū-mi-nom'e-tri), mink for urine:1-7, The measurement of the amount grams albumin in any fluid, sneh as the albuminometry (al-bū-mi-nom'e-tri), of albumin in any fluid, such as the urine.

albuminose, a. II. n. Same as *albumose. albuminuria, n.—Cyclic albuminuria, a condition in which albumin appears in the urine for a short time at about the same period each day.

albuminuric, a. II. n. One who suffers from albuminuria.

It was found that, classing all albuminuries in one group, the percentage of mortality was decidedly increased.

Med. Record, Feb. 14, 1903.

albumoid (al'bū-moid), n. [album(en) + -oid.]
An albuminoid found in the eartilage of fullgrown animals. It is insoluble in all neutral solvents and dissolves in acids and alkalis only with great diffi-

albumoscope (al-bū'mō-skōp), n. [album(inc) + Gr. σκοπεῖν, view.] A glass instrument for detecting and estimating the quantity of albumin in urine. The urine is made to float on the surface of strong nitric acid poured gently into a funnel-tube. The albumin appears at the zone of con-tact of the two liquids.

albumose (al'bū-mõs), n. m(en) + -ose. In effect short for *albuminosc.] A name of derived albumins (see *albumin) which result from the albumins proper, as also from the albuminoids and

the albuminous radicals of the nucleo-albumins and -proteids, through the action of proteolytic ferments, or on decomposition by means of acids or alkalis. Their formation is pre-ceded by the denaturization of the albuminous molecule and, in the case of the use of acids or alkalis, by the forma-tion of acid albumins and alkaline albuminates respecand, in the case of the use of actus of arkaits, by the formation of acid albumins and alkaline albuminates respectively. During the process of digestion primary albumoses first result, which are subsequently transformed into secondary or deuteroalbumoses, and these in turn into peptones and simpler bodies. In their quantitative composition the albumoses do not differ materially from the original albumins, but their molecular weight is lower. As a result, no doubt they are more readily soluble, and as a class not altogether indiffusible through animal membrane or vegetable parchment. They can be separated from one another by fractional precipitation by means of certain neutral salts, notably ammonlum sulphate. The albumoses which are derived from the albumins proper, in contradistinction to those resulting from the albuminoids, are also called proteoses. The majority of the commercial peptone preparations are essentially mixtures of albumoses.—Toxic albumose, an albumose with toxic properties.

albumosuria* (al*bū-mō-sū'ri-ā), n. [albumose-salbumosuria* (al*bū-mō-sū'ri-ā), n. [**albumosuria* (al*bū-mō-sū'ri-ā), n. [**albumosur

albumosuria (al"bū-mô-sū'ri-ä), n. [albumose.



for mark

Albumoscope.

+ Gr. oipov, urine.] In pathol., the presence aldane (al'dan), n. of albumose in the excreted urine.

Alburnus (al-ber'nus), n. [NL.: see alburn.] A genus of small minnows, known as bleaks, found in the waters of Europe. A. alburnus is

building where an alcalde transacts the business of his office.

alcapton, alcaptonuria. See *alkapton, *al-

kantonnria.

alcassuz (äl-käs-sös'), n. [Pg., alcaçuz.] In Brazil, the name of the native licorice, Periandra Mediterranea, the root of which is used in medicine, like that of the common licorice.

alcelaphine (al-sel'a-fin), a. [NL. alcela-phinus, (Alcelaphus, a genus of antelopes.] Relating to the antilopine genus Alcelaphus, or to this with related genera considered as forming a division of the family Bovidæ. Flower and Lydekker, Mammals, p. 334.

Alchemilla (al-kē-mil'ä), n. [NL.] A genus of hardy perennial herbs of the family Rosaceæ, allied to Sanguisorba. The flowers are corympted to the sanguisorba.

ceæ, allied to Sanguisorba. The flowers are corymbose and inconspicuous. They are suitable for rockeries and front rows of borders, although little grown. There are about 35 species, natives of the Old and New Worlds, most abundant between Mexico and Chile.

Alchornea (al-kôr'nē-ā), n. [NL. (Swartz, 1788), named in memory of Stanesby Alchorne, an English botanist and chemist who died about 1799] A genus of diagraphote and stantage of the stan

about 1799.] A genus of dicotyledonous plants belonging to the family Euphorbiacew. They are belonging to the family Euphorbineese. They are trees or shrubs with alternate leaves and small flowers clustered on simple or paolicled terminal spikes or racenes. About 50 species are known, widely distributed in the warmer parts of both hemispheres. For A. ilicifolia, see Collebogyne.

Alcidea (al-sid'e-ā), n. [NL., \ Gr. ἀλκη, elk. + eldoς, resemblance.] A genus of deep-sea sculpins of the family Cottidee. A. thoburni is found off the coast of Collifornia.

is found off the coast of California.

alcogel (al'kō-jel), n. [alco(hol) + gcl(atin).] Silicic acid separated in gelatinous condition by means of alcohol.

by means of alcohol.

alcohol, n.—Acetone alcohol. Same as *acetol.—Alcohol lamp. See *lamp.—Pyroracemic alcohol.

Same as *acetol.—Tolane alcohol, the name given to a substance of somewhat uncertain composition, said to be formed by the setion of ethyl alcohol n benzoln.—Whey alcohol, an alcoholic liquor prepared from milk, after the separation of the fat and easein, by fermentation of the lactose or milk-sugar.

alcoholase (al'kō-hol-ās'), n. A ferment of yegotable origin which supposedly causes alcoholase

vegetable origin which supposedly causes alcoholic fermentation during anaërobic respira-

alcoholic, a. II. n. 1. One who indulges to excess in alcoholic beverages, or who is suffering from the systemic effects of alcohol.-2. A remedy the chief therapeutic value of which depends upon the presence of alcohol.

The nnadministered alcoholics are catalogued by genera on cards and located so that any jar can be found at once, Smithsonian Report, 1900, p. 38.

alcoholize, v. t.—Alcoholized paper, in photog,, paper prepared with an alcoholic solution containing milk-sugar, zinc iodide, and zinc bromide. The paper is afterward sensitized with a solution of silver acctonitrate acidified with glacial neetic acid.

alcohol-motor (al'kō-hol-mō"tor), n. ternal-combustion motor in which alcohol vapor is burned explosively; an alcohol-engine; an engine which uses alcohol as fuel for its source of heat.

alcornoco (äl-kôr-nō'kō), n. Same as alcor-

the more rapid retrogressive erosion of one part than of another.—Alcove system, a method of arranging books in a library, or of exhibiting specimens in a museum, in which each subject and each class has an alcove or series of alcoves to itself.

Alcyonacea (al'si-o-na'se-ä), n. pl. [NL., Aleyon + -acea.] An order or suborder of Aleyonaria in which the skeleton consists of loose spicules embedded in a well-developed canaliferous conenchyma without axial skeletal rod. The group contains the families Xeniida, Aleyonidæ, and Nephthyidæ. Nearly equivalent aldine² (al'din), n. [ald(ehyde) + -ine².] A to Aleyoniaeeæ. name given to those pyrazines ($C_nH_{2n-4}N_2$)

alcyonacean (al'si-o-nā'se-an), a. and n. a. Of, pertaining to, or resembling the Alcyonacea.

II. n. One of the Alcyonacca.

Alcyonaria, n. pl. 2. A subclass of Anthozoa, containing the orders Stolonifera, Alcyonacea, Pseudaronia, Axifera, Stelechotokea, and Cœno-aldohexose (al-dō-hek'sōs), n. [ald(ehyde) +-o-+ Gr. \(\xi \xi, \six, +-osc. \)] A general name

[ald(ehyde) + -ane.] A name proposed by Riban to designate a compound formed by the condensation of two molecules of an aldehyde with the loss of water.

aldea (äl-dā'ā), u. [Pg., \(\) Ar. al-dai'a, a farm or village.] A villa or country-seat. Yule and Burnell. [East Indies.]

the common bleak.

albus (äl'bös), n. [G., < L. albus, white.] A

German copper com equivalent to 12 hellers at
Cassel and Cologne.

Cassel and Cologne.

Sp.] 1. The of
aldeament (al-de'a-ment), n. [Brazilian Pg.

aldeamento, < Pg. aldear, lodge in villages, <

aldea, aldeia, a village: see *aldea.] In Brazil,

aldea, aldeia, a village: see *aldea.] In Brazil, a settlement in which natives who have submitted to the government, or to missionary influences, are gathered. See reduction (e).

> While the Government and the missions have aucceeded with great difficulty with others, as for the Bororo, with their hostile indisposition to link their interests with those of the colonists and to settle in permanent aldeaments, the plan to interest them in the cultivation of the soil did not succeed.
>
> Smithsonian Report, 1896, pp. 574, 575.

Aldebaran (äl"de-bà-rän' or al-deb'a-ran), n. [Ar., the follower (i. e. of the Pleiades).] A chrome star of magnitude 1.0; a Tauri.

Aldebaranian (äl-de-bä-rā'ni-an), a. and n. I. a. Noting stars which have a spectrum similar to that of Aldebaran. They have fitted spectra in which a series of calcium lines, sometimes called protocalcium, together with are lines of iron calcium manganese (protostrontium) and hydrogen, are predominant. The flutings are incipient. The blue line of calcium, A 1 4227, is strongly marked.

II. n. An Aldebaranian star.

aldehydase (al/de-hī-das'), n. [aldehyde + -asc.] A ferment which oxidizes an aldehyde to its corresponding acid.

aldehyde, n.—Crotonic aldehyde, a volatile oil with a disagreeable, penetrating odor, having the formula CH₃CH:CHCHO, and prepared by the distillation of aldol. It boils at 104° C.—Formic aldehyde. See *formic. aldehydene (al'dē-hī-dēn), n. [aldehyde+h. have aldehydene (al'de-hī-dēn), n. [aldehyde+h. have aldehyde have allehyde].

-ene.] 1. A name formerly applied to the base formed by heating aldelyde ammonia, now known to be trimethylpyridine .- 2. A name given by Ladenburg to the bases formed from aldehydes and hydrochlorids of aromatic orthodiamines.

thodiamines.

alder¹, n.—Alder grab. See *grab¹—California alder, Alnus rhombifolia,—Dwarr alder. (a) The alder leafed bucktnon, Ikhamus alnifolia. (b) A strub of the genus Fothergilla, of the southeastern United States.—Green alder, Alnus Alnobetula, a strub of the northern part of both hemispheres and of the Alleghanies farther south.—Hoary alder, the speckled alder, Alnus incana.—Mountain alder. (a) The green alder, Alnus incana.—Mountain alder. (a) The green alder, Alnus incana. (b) Alnus rhombifolia, of the western United States. (c) The striped maple, Acrr Pennsylvanicum. [North Carolina]—Narrow-leafed alder, an arborescent species, Alnus tenufolia, of western North America. The bark furnished the Indians an orange dye.—Red alder, a northwestern species, Alnus Oregona.—Seaside alder, Alnus maritima, tound in wet ground in Delawnre and Maryland, near the coast, and also in Indian Territory.—Spiked alder, the White alder, Clethra alnifolia.—Western alder, the Californian Alnus rhombifolia or the more northern red alder, Alnus Oregona.

alder-blight (âl'dêr-blīt"), n. A plant-louse.

alder-blight (ål'der-blit"), n. A plant-louse, Schizoneura tessellata. It occurs in great numbers on the under side of the branches of the slder, and secretes large quantities of down-like wax. It also secretes much honey-loving insects and to the resting-spores of certain fungi.

alder-fly (âl'der-fli"), n. A name given by fishermen to a certain neuropterous insect of the family Sialidæ, used as, or imitated for use as, bait: so named because it occurs along alder-lined streams in England.

aldermanlike (al'der-man-lik), c. alderman; characteristic of an alderman; proper or becoming to an alderman; aldermanly.

Alderney (âl'dêr-ni), n. [The name of one of the Channel Islands.] A breed of small-sized cattle originating in Alderney, noted for the abundance and richness of their milk. They are of light build, with small horns, and are generally of a fawn color with blackish legs.

aldime (al'dim), n. [ald(chyde) + -ime.] A

compound, having the general formula RCH:-NH, which may be considered as derived from ammonia and an aldehyde by the loss of water. The aldimes are stable only in the form of

which may be formed by the condensation of two molecules of an a-aminoaldehyde.

aldo-alcohol (al'dō-al"kō-hol), n. [ald(ehyde) + o- + alcohol.] An organic compound containing both an aldehyde (CHO) and a hydroxyl (OH) group.

given to those sugars which have the composition C₆l1₁₂O₆ and contain an aldehyde group, **aldol** (al'dol), n. [ald(chyde) + -ol.] A compound, CH₃CHOHCH₂CHO, formed by the condensation of acetaldehyde by means of zine chlorid. The official name is butanalol-3.— Aldol condensation, a condensation of two or more aldehyde molecules in which an aldehyde alcohol is

aldose (al'dos), n. [ald(chyde) + name given to any monosaccharide which is an aldehyde to distinguish it from a ketose, which eontains a ketone-group.
aldoxime(al-dok'sim), n. [ald(ehyde) + oxime.]

compound, having the general formula R-CH:NOH, which is formed by the action of hydroxylamine on an aldehyde. Also aldoxim.

Aldrich deep. See *deep.
Aldrovandia (al-drō-van'di-ā), n. [NL., < Aldrovandi (1522-1605), an Italian naturalist.] A genus of deep-sea fishes of the family Halo-

sauridæ. Also ealled Halosauropsis.

alecithal (a-les'i-thal), u. [Gr. ά- priv. + λέκτθος, the yolk of an egg.] In embryol., provided with very little and uniformly distributed food-yolk: a term applied to certain eggs, such as those of the sponges, sea-urchins, etc. **Alectis** (a-lek'tis), n. [NL., said to be \(\) Gr. \(\frac{\alpha}{\alpha}\) kar\(\alpha \) a coek.] A genus of Carangidæ remarkable for its long threadlike fin-rays: hence known as the cobbler-fish. **alectorioid** (a-lek-tō'ri-oid), a. [alectoria + -oid.] Resembling the thallus of the lichen Alectoria.

Alectoria.

Alectryonia (a-lek-tri-ō'ni-ä), n. [NL., < Gr. άλεκτρυών, a cock.] A genus of oysters in which the left valve is attached by clasping shelly processes and has strong divaricate folds on the upper surface. The genns is living in existing seas, but was most abnodant during Jurassic and Cretaceous times.

ale-haunter (āl'hän-tèr), n. [alc, 2, + haunter.] A frequenter of ale-houses or ale-drinkings.

A frequenter of ale-nouses or ale-urmango. Heylin. [Rare.]
alembical (a-lem'bik-al), a. [alembic+-al.] Of or pertaining to, or of the nature of, an alembic.
—Alembical lamp, a lamp having a capital or head like an alembic, used to arrest the smoke and naconsumed vapors and return them to the oil-reservoir. It was invented by Besnard.

Aleochara (al-ē-ok'a-rā), n. [NL. (Graven-horst, 1802), < Gr. αλεός, equiv. to αλεεινός, open to the sun, warm, $+ \chi \alpha i \rho \epsilon w$, rejoice.] A genus of rove-beetles, of the family $Staphylinid\alpha$, typical of the tribe Alcocharini. It has the antenne 10-jointed, tarsi 5-jointed, head retracted, not narrowed, and the palpi with accessory terminal joint, It is a genus of general distribution, comprising nearly 200 species.

Aleocharini (al "ē-ō-ka-rī'nī), n. pl. [NL., (Aleochara + -ini.) A large tribe of small rove-beetles of the family Staphylinidæ. They rove-beetles of the family Staphylimidæ. They have the antenne inserted upon the front, the prothoracic spiracles visible, the front coxe large, and the fourth joint of the maxillary palpi distinct. The tribe comprises more than 30 North American genera.

Aleposomus (a-lep-ō-sō'mus), n. [NL., \langle Gr. \dot{a} - priv. $+\lambda \epsilon \pi i g$, scale, $+\sigma \bar{\omega} \mu a$, body.] A genus of deep-sea fishes of the Atlantic, belonging the stable of the Atlantic, belonging the scale of the stable of the stable

ing to the family Alepocephalidæ.

Aleppo boil, button, evil. See ulcer.—Aleppo gall.

See *gall3.

alerta (ä-lār'tä), n. [Sp. See alert.] 1. A call repeated by sentinels at regular intervals to indicate their watehfulness.—2. An alarm by a sentinel, eausing the guard to assemble under

Alethopteris (al-ē-thop'te-ris), n. [NL. (Sternberg, 1825), ζ Gr. ἀνηθής, true, + ππερίς, fern.] A genus of fossil plants usually classed with the ferns and made the type of a suborder the ferns and made the type of a suborder Alethopterides. It is characterized by large biplinate to tripinnate fronds, the thick pinnules being inserted on the rachis by a broad, decurrent base, sometimes confinent. The fruit is unknown, but the recent discovery of seeds intimately associated with the fronds renders it probable that they were borne by this plant, in which case it will be necessary to remove it from the Pteridophyta and place it in the class Pteridospermæ of Oliver and Scott. (See *Pteridospermæ.) The genus occurs chiefly in the productive coal-measures of both hemispheres.

alethopteroid (al-ē-thop'te-roid), a. [Alethopteris + -oid.] Resembling or pertaining to the fossil plant genus Alethopteris.

alethorama (al-e-thō-rā'mä), n. [Gr. ἀληθής, true, + ὑραμα, what is seen, a sight.] A form of

cinematograph devised by Mortier and Chéri-Rousseau in which the film, instead of having the usual interrupted motion, moves continuously, and the screen, instead of being alternately light and dark, is illuminated in a permanent manner by the images. The appara-tus consists of a wheel of which the peripheral teeth enage the perforations of the film and carry it in front of a brilliant beam of light from an electric arc. The transparent film permits the light to pass through, and the pleture is reflected from a mirror behind to another at one side, then through the first lens of the projection-objective to another mirror or to a reflecting prism, and finally ont of the second lens to the screen. The instrument may also be used as a registering apparatus if a special shutter is provided. This is done by placing within the principal drum a smaller one which shall have alits one third as numerous as the compartments of the outer drum and shall revolve three times as fast.

aletophyte (a-le'tō-fīt), n. [Gr. αλήτης, vagabond + 9070r, plant.] A ruderal plant, or one sporadically introduced. Aletophytes are regarded by Pound and Clements, the authors of the term, as a subclass of mesophytes.

aleurodiform (al-ū-rō'di-fòrm), a. In entom., resembling one of the insects of the gems Aleurodes or family Aleurodidæ. Jour. Roy.

Micros. Soc., April, 1904.

aleuronate (a-lū'rō-nāt), n. [Irreg. ⟨ Gr. ἀλενρον, flour, + -atc¹.] Albuminous material of
vegetable origin. The so-called aleuronate flour has
been used as a substitute for ordinary flour in making diabetic bread. It contains a low percentage of starch.

Our bread was partly carefully dried wheaten biscuits, and partly aleuronate bread, which I had caused to be made of wheat flour mixed with about 30 per cent, of made of wheat flour mixed with about aleuronate flour (vegetable albumen).

Nansen, Farthest North, 11. 126.

aleuroscope (a-lū'rō-skōp), u. [Gr. ἀλευρον, flour, + σκοπείν, view.] An instrument, invented by Sellnick, designed, like the alenrometer of Boland, to indicate the fitness of flour for making bread.

aleutite (a-lû'tīt), n. [Aleut(ian) (islands) + ite².] In petrog., a name used by Spurr (1900) for andesites characterized by andesin and labradorite feldspars. The corresponding gran-ular rocks are called belugite by Spurr.

A-level (ā'lev-el), n. A leveling instrument used for grading earth-work, leveling ditches, used for grading earth-work, leveling ditches, etc. It consists of a light wooden frame of three pieces fastened together like the capital letter "A" with a plumb-line suspended from the vertex. To prepare it for use, the two feet are first brought carefully to the same level and the position of the plumb-line is marked on the horizontal crosspiece. In use the two feet may thus be brought level by moving one up or down till the plumb-line coincides with the mark on the crosspiece. The two feet of the inclined pieces are frequently placed at some convenient distance apart, as three yards, ten feet, a rod; and the instrument may then also be used for stepping off horizontal distances as well as leveling.

alexandert (al-eg-zan'dèr), v. t. [Alexander: see def. aud ef. lynch, v.] To treat with harshsee def. aud ef. lynch, v.] ness and severity, in the manner of Sir Jerome Alexander, an Irish judge in the seventeenth century who was noted for his harsh and merciless decisions, especially in regard to Presbytenans and other nonconformists; by implication, to hang. [Rare.]

I hear not of one these three weeks. Many I have taken and keep in jail against the assizes, where I hope they will be alexandered.

Earl of Orrery, Letter to Ormonde, April 18, 1666 (Trans. [Roy. Hist. Soc., II. 124).

alexanders, n.—Golden alexanders, a yellow-flow-ered umbelliferous herbof the northeastern United States, Thaspium trifoliatum aureum. The name is less properly applied to Ziziu aurea.—Purple alexanders, Thaspium trifoliatum, a plant similar to the golden alexanders, but with purple flowers.

alexandra (al-eg-zan'dra), n. In angling, an artificial fly with silver body and peacock harl.

Alexandra car. See *car!.

Alexandrian clover. See Trifolium and *berseem.

alexia, n.—Motor alexia, a form of aphasia in which the patient cannot read aloud, though understanding the printed page.—Optical, sensory, or visual alexia, loss of ability to comprehend the written or printed page.

Alexian (a-lek'si-an), a. and n. I. a. Of or

pertaining to St. Alexius or Alexis, or to the Alexians.

II. n. A member of the religious congrega-tion of Alexian brothers, or Cellites. They are an association of laymen formed about the beginning of the fourteenth century to take charge of the sick and infirm: called Alexians from St. Alexius, their patron

alexin (a-lek'sin), n. [Irreg. \(\lambda\) Gr. ἀλέξειν, ward off, protect, + -in².] A term originally introduced by Buehner to designate certain substances present in normal blood-serum which are capable of destroying various foreign celhlar elements, such as bacteria, red blood-corpuseles, etc. In the literature of immunity, this term has been retained to a certain extent, by French writera especially, to designate that component of the aerum which renders possible the action of the various specific immune bodies (amboceptors) and which is destroyed by heating to a temperature of about 55° C, or on prolonged standing. In this sense its meaning is the

same as that of *complement, 8, a term introduced by Ehrlich and now the one most commonly used. Such complemental action is noted in the case of the hemolysins, the bacteriolysins, and the various cytotoxins. Same as *addiment and *cytase.

alexocyte (a-lek'sō-sīt), n. [(rr. a/ɛ̃ṣɛu, ward

off, protect, $+\kappa i\tau\sigma_0$, a hollow (a cell).] A term introduced by Ilankin to designate those leucocytes which supposedly furnish alexins. Alexurus (a-lek-sū'rus), n. [NL., ζ(?) Gr. αλέξειν, defend, + οὐρά, tail.] A genus of gobies found in Mexico. A. armiger is found at La Paz.

The snow-white steed of Odo; the alexan of Fitz-aborne. Bulwer, Harold. N. E. D.

alfa, n. A simplified spelling of alpha. alfabet, n. A simplified spelling of alphabet. alfalfa, n.—Turkestan alfalfa, a variety of alfalfa of great value in the arid region of central Asia. This and the oasis alfalfa are likely to be valuable in the dry parts of the western United States, where irrigation is impracticable.—Oasis alfalfa, a drought-resisting variety of the common alfalfa, introduced into the western United States from Tunis. States from Tunis

Alfenid metal. See *metal.

alferfemphyric (al"fer-fem-fir'ik), a. [alfer(rie) + fem(ic) + (por) phyr(it)ic.] In petrog., noting a porphyry containing phenoerysts of both alterrie silicates (hornblende, augite, biotite) and the simpler ferrie or ferromagnesian minerals (hyperstheue, diopside, olivin): proposed by Cross, Iddings, Pirsson, and Washington (1902) in their quantitative classification of igneous rocks (which see, under $\star rock)$

alferphyric (al-fer-fir'ik), a. [alfer(ric) + (por)phyr(it)ic.] In petrog., noting a porphyry containing phenocrysts of an aluminous ferromagnesian (alferric) mineral. See quantitative classification of igneous rocks, under *rock. alferric (al-fer'ik), a. [al(uminous) + ferr(o-magnesian) + -ic.] Pertaining to, belonging to or having the characteristics of the group chem., a salt of alginic acid. to or having the characteristics of the group chem, a salt of alginic acid. of aluminous, ferromagnesian, and calcic algine, n. See *algin. silicates, rock-making minerals, such as angite, hornblende, and biotite. See quantitative classification of igneous rocks, under *rock.

name.] Any species of fish of the genus Beryx. alforjat (äl-för'hä), n. [Sp., perhaps \(\times Ar. \) al-khorj : al, the, + khorj, store, supply.] A saddle-bag; knapsack; wallet. [Spanish-

American. 1 I thank God the robbers in this province are suppressed. hear not of one these three weeks. Many I have taken prob. of Ar. origin; perhaps < Ar. al, the, + fariydah (farida), a fixed and defined part. < farada, he defined, decreed, etc.] In astrol., the planet supposed to rule any given septennial period of human life.

alg (alg), n. [= G. alge, < L. alga: see alga.]

A seaweed; an alga.

alga, n.—Boring alga, one of several of the alge which have the power of penetrating bivalve-shells, corals, etc.

The abelmosk, Abelmoschus Abelmoschus, a shrub cultivated for its flowers and seeds, which have a strong odor of musk. See Abelmoschus, abelmosk, amber-secd, and muskmallow, 2.

Algansea (al-gan'sē-ä), n. [NL.] A genus of large ehubs, of the family Cyprinidæ, found in

algebra, n—Double algebra. See $\neq double$ —Universal algebra. (a) That calculus whose general principles are the general definitions which hold for any process of addition and others which hold for any process of multiplication. (b) Algebra of multiple units. Sylvester.

algebraic, a.—Algebraic addition. See *addition.
—Algebraic configuration, the aggregate of rational functions of x and y, where y and x are connected by an algebraic equation,—Algebraic magnitude. See *magnitude.—Algebraic surface. See *surface.

algebraization, algebrization (al/je-brā-i-zā'shon, al "je-bri-zā shon), n. [algebraize, -brize, + -ation.] Algebraic calculation; reduction of a calculation or problem to algebraic form. sugn, ar je-pri-za snon), n. [algebraize, -brize, + -ation.] Algebraic calculation; reduction of a calculation or problem to algebraic form. Nature, LXVII. 203, algement (al-je-or al-gē-don'ik), a. and n. [NL. *algedonicus \langle Gr. $a\lambda \gamma \rho_{S}$, pain + $\gamma \delta \sigma \gamma_{S}$, pleasure.] I. a. In psychol. and esthetics, relating [Algonk(in) + -ian.] 1. Same as Algonkin.—2.

to the affections of pleasantness and unpleasantness; pertaining to pleasure and pain.

I shall venture occasionally to use the word algedonic as an adjective to cover the ground of pain and pleasure.

Marshall, Pain, Pleasure and Æsthetics, p. 9.

II. n. pl. In psychol. and esthelies, the doctrine of affection; the science of pleasure and pain.

It would be well if English usage anthorized the employment of the word algedonics to signify the science of

Marshall, Pain, Pleasure and Æsthetics, p. 9.

La Paz.

alezan (al-e-zan'), n. [F. and OF. alezan, < Algerian fir. See *fir.

Sp. alazan, of undetermined (Ar.!) origin.] Alger metal. See *metal.

A sorrel horse. [Rare.]

The snow-white steed of Odo; the alezan of Fitz
pain, < ἀλγεῖν, feel pain. Cf. analgesia.] Capacity for pain; pain sensitivity; sensitiveness to

pain.

algesimeter, algesimetric (al-jē-sim'e-ter, al-jē-si-met'rik). See *algometer, *algometric.

algicide (al' ji-sid), n. [NL., < alga + L.-cida, < cædere, kill.] Any substance, as copper sulphate, which has the property of destroying algæ. Science, XX. 805.

Algid fever, a form of pernicions malarial fever marked by severe chills.

algin, algine (al'jin), n. [alga + -in2, -ine2.] A mucilaginous substance obtained from certain algæ, Laminaria stenophylla and L. digitata. It slightly resembles gelatin, but differs from that in not coagulating to a felly and in not being precipitated by tannin, from albumin in not coagulating by heat, and from gnm arabic in being precipitated by mineral acids and several organic acids. Insoluble algin is a nitrogenous acid, alginic acid. This forms soluble salts with the alkaline metals; those of the heavy metals are for the most part insoluble in water. The solutions of algin are very viseld. It has 14 times the viacidity of starch and 37 times that of gum arabic. It may be used as a thickener and for fixing Iron and aluminium mordants in calico-printing, as a waterproof dressing for cloth, and for emulsifying oils and clarifying wines and spirits. It may be obtained in thin transparent sheets, forming a substitute for parchment paper, guita-percha, or gelatin; and it dries up to a horny substance which may be turned and polished like ivory or the ivory-unt.

alginate (al'ii-nāt), n. [alqin(ic) + -atc.] In tain algæ, Laminaria stenophylla and L. digi-

alginic (al-jin'ik), a. [algin + -ic.] In chem., of or pertaining to algin.—Alginic acid, the insoluble form of algin freed from the basic elements with

soluble form of algin freed from the basic elements with alfilerilla, n.—Musky alfilerilla, a weed, Erodium moschatum, which invades pasture-grounds from California to Arizona. It has a limited forage value. Also called ground-needle and musky heron's bill.

alfonsin (al-fon'sin), n. [Pg. alfonsim, a fish so named, also a silver coin, \(\lambda \) Alfonso, a royal and \(\lambda \) Appearance is of fish of the group Bearing and \(\lambda \) Appearance is of fish of the group Bearing and \(\lambda \) Appearance is of fish of the group Bearing and \(\lambda \) are projected from the basic elements with which it produces salts, the alginates.

algioglandular (al"ji-\(\tilde{0}\)-glan'\(\tilde{0}\) alginglandular (al"ji-\(\tilde{0}\)-glan'\(\

algiometabolic (al"ji-ō-met-a-bol'ik), a. [Irreg. < Gr. άλγος, pain, + E. mctabolic.] Relating to metabolic changes as the result of painful stimulation.

algiomotor (al'ji-ō-mō'tor), a. [Irreg. \(\) Gr. \(\alpha \) yor, pain, \(+ \) E. \(motor. \) Relating to a motor effect, as the outcome of painful stimulation.

algiomuscular (al"/ji-ō-mus'kū-lār). a. [Irreg. ⟨ Gr. ἀλγος, pain, + E. muscular.] Relating to muscular action as the result of painful stimulation.

algiovascular (al*ji-ō-vas'kū-lär), a. [Irreg. ⟨Gr. ἀλγος, pain, + E. vascular.] Relating to vascular changes as the result of painful stimulation.

algivorous (al-jiv'ō-rus), a. [L. alga, a sea-weed, + vorare, eat.] Feeding upon sea-weeds: said of some fishes and of the Galápagos algal, a.—Algal fungus, any fungus which shows close relations to the alge and is supposed to be derived from them, as the Phycomycetes.

algalia (āl-gā'lē-ā), n. [Colonial Sp. Sp. algalia (āl-gā'lē-ā), n. [Colonial Sp. Sp. algalia, civet, alluding to the odor of the seeds.]

The abelmosk, Abelmoschus Abelmoschus, a Apale star varying in magnitude from 2.3 to

Algol (al'gol or al-gol'). n. [Ar., 'the demon.']
A pale star varying in magnitude from 2.3 to
4.0 in a period of 2.89 days; \$\beta\$ Perset.—Algol
variable, a star which remains most of the time constant in brightness, but which at regular intervals suffers
a comparatively sudden diminution of its light, due to
the interposition of one of the members of a binary pair
between the other member and the observer. Often
called eclipse variable.

algometer (al-gom'e-ter), n. [Gr. άλγος, pain, + μέτρον, measure.] An instrument used in sychophysical determinations of the stimulus limen and differential limen of cutaneous or muscular pain. Also algesimeter.

The pressure algometer consists essentially of a strong spring, by means of which a rubber disc or point is pressed against the surface to be tested.

Scripture, New Psychol., p. 303.

algometric (al-go-met'rik), a. In psychophys., ertaining to the use of the algometer or to the measurement of sensitivity to pain. Also

Specifically, in geol., applied to the Precambrian alimentive (ar-i-men'tiv), a. [aliment + -ive.] rocks which are either themselves sedimentary Relating or pertaining to food or to the desire rocks which are either themselves sedimentary or, if igneous, are later than known sediments.

—Algonkian period, a subdivision of Precambrian time, as used by the United States Geological Survey, immediately preceding the Cambrian. It in turn is preceded by the Archæan in a restricted sense. It is equivalent to the latter part of the Archæan, in the broad sense of that term used by many authors: approximately to the Archæozoic of J. D. Dana or to the Agnotozoic of R. D. Irving. Under the Algonkian are placed all those Precambrian rocks which are sedimentary or, if igneous, are later than recognizable sediments.

algophilist (al-gof'i-list), n. [algophily + -ist.] who takes a morbid pleasure in the con-

templation of mental or physical pain in others or in himself. Alien. and Neurol., May, 1903. algophily (al-gof'i-li), n. [Gr. ἀλγος, pain, + -φιλια, < φιλείν, love.] Love of pain as felt by others (active algophily) or as experienced in one's own person (passive algophity). Alien. and Neurol., May, 1903.

algorism, n.—Isobaric algorism, the process of forming the expression for the auto of the products of m factors, each being the same function of m integers whose sum is p.

algraphy (al'gra-fi), n. [Irreg. ⟨al(uminium) + Gr. -γοαφία. ⟨ γράφειν, write.] The art of Gr. -γραφία, ⟨γράφειν, write.] The art of printing from an aluminium plate to which a design in hardened oily ink has been transby the lines of the design limbibe from a damping-roller water which resists where it is not needed the deposit of oily ink made by a second roller. The lines of the design accept the ink, which can then be neatly transferred to paper by impression. See the extract.

Successful work, especially in colour, has also been produced lately by algraphy—a process in which aluminum takes the place of the stone. Encyc, Brit., XXVIII, 266.

alhambra (al-ham'brä), n. A counterpane or bedquilt of coarse texture, woven with colored threads and in Jacquard designs.

al-het (äl-chet'), n. [Heb. 'al het, 'for the sin.'] The Jewish 'longer confession of sin': so called from the first two words of that so called from the first two words of that confession. Like most of the prayers in the Jewish featival ritual, called mahzor, it is acrostically arranged. Each verse asks forgiveness for a special sin presumed to have been committed by the person confessing. This, like the 'lesser confession,' **askammu (which see), is most solemnly chanted by the reader and congregation several times during the services of the day of atonement.

alicyclic (al-i-sik'lik), a. [ali(phatie) + Gr. κίκλος, a circle, + -ic (see cyclie).] In chem., a term introduced by Bamberger to designate a compound containing a ring of carbon atoms but at the same time having many of the properties of the aliphatic or open-chain com-

alienation, n. 2. The state in which a person has completely forgotten his identity and becomes a new person, alien to his former self. This use of the term was proposed when the described mode of dissolution of personality first attracted attention; but the word having already the recognized technical meaning 1 (d), this employment of it has been rejected.

alienize (āl'yen-īz), v. t.; pret. and pp. alienized, ppr. alientzing. [alien + ize.] To render alien or foreign; form or conceive in accordance with foreign notions or ways. G. Meredith, Evan Harrington, p. 32.

alienocola (ā'li-en-ok'ō-lā). n.; pl. alienocolæ (-lē). [NL., < L. alienus, of another, + -cola, < colere, inhabit.] A parthenogenetic insect which is born upon and inhabits a plant of a different kind from that upon which its parent was born.

la the spring winged females are produced, which migrate to the Larch and give rise parthenogenetically to a wingless generation which hibernates under the bark. These alienocolæ in the following spring produce parthenogenetic winged females.

Phillips, Proc. Amer. Philos. Soc., 1903, p. 298.

aliethmoidal (al"i-eth-moi'dal), a. [aliethmoid +-al.] Pertaining to the aliethmoid, or wing of the ethmoid region of the orbitonasal cartilage; relating to that part of the mesethmoid cartilage from which the aliethmoids are developed. W.K. Parker, Morphol. of the Skull, p. 226.

alif (ä'lif), n. [Pers., < Ar. 'alif = Heb. 'aleph: see alpha.] The first letter of the Persian (Arabic) alphabet, consisting of a single stroke; hence, a mere letter; a jot.

A hair, they say, divides the false and true; Yes; and a single alif were the clue, Could you but find it, to the Treasure-house, And peradventure to The Master, too. Fitzgerald, trans. Omar Khayyam, Rubaiyat, quat. 1.

alilpoe (ä-le"e-po'a), n [Hawaiian.] The common canna or Indian-shot, Canna indica.

to eat and drink

alimentum (al-i-men'tum), n.; pl. alimenta (-tä). [L.:sce aliment.] Aliment; food. Pop. Sei. Mo., LIX. 468.

alinement, n. 4. In archæol., megaliths arranged in single, parallel, or converging rows. alinite (al'i-uit), n. [G. alinit, a trade-name. From its use and form it may be conjectured to be formed from L. al(inentum), aliment, + -in² + -ite².] A preparation in the form of a yellowish powder containing a pure culture of Bacillus Ellenbachensis a. It is used for soil-in-oculation, and is said to be an aid to cereals in

assimilating nitrogen. Also alinit.

alinjection (al-in-jek'shon), n. [al(cohol) + injection.] In histol., the injection of alcohol into the tissues for the purpose of hardening them. B. G. Wilder.

them. B. G. Wilder.

alintatao (ä-lin-tä'tou), n. [Said to be a Tagalog name.] In the Philippine Islands, a tree, Diospyros pilosanthera, of the ebony family. It has simple alternate entire leaves, small unisexual flowers, and globose edible fruit, and yielda avery hard, dark-colored wood like ebony, which is used in cabinet-making.

alipata (ä-lē-pā'tä), n. [Said to be Bisayan, but not found.] In the Philippine Islands, the blinding-tree, Excæcaria Agallocha. Seo Excæcaria, tiger's-milk, and *blinding-tree.

aliphatic (al-i-fat'ik), a. [NL. aliphaticus, < Gr. à\(\frac{a}{2}\)\text{Etc\(\phi\)}\equiv (-\(\au\)-\), an unguent, fat, < \(\alpha\)\text{ci\(\ell\)}\equiv (rar-), an unguent, fat, < \(\alpha\)\text{ci\(\ell\)}\equiv (rar-), an inguent, fat, < \(\alpha\)\text{ci\(\ell\)}\equiv (rar-), an inguent, fat, < \(\alpha\)\text{ci\(\ell\)}\equiv (rar-), an unguent, fat, < \(\alpha\)\text{ci\(\ell\)}\equiv (rar-), an inguent, fat, < \(\alpha\)\equiv (rar-), an inguent, fat, <

ically, in chem., designating compounds which have only an open chain of carbon atoms, as distinguished especially from aromatic compounds, which contain a ring of carbon atoms. The natural fats consist chiefly of compounds

of this type.

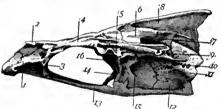
aliquot (al'i-kwot), v. t. [aliquot, a.] To divide

Nov. 22, 1902.
Aliquot tones, in acoustics, harmonics or overtones.

alisier (ä-lē-zi-ā'), n. [Creole F., same as F. alizier, the bean-tree.] The stag-bush, Viburnum prunifolium. [Louisiana.]

alism (al'izm), n. [al-, part of the Semitic name for 'God' (Heb. el-, Ar. il-, ilāh, al'lāh, Al-lāh), +-ism.] A title adopted by Francis F. Barham for his religious system, which honors 'divinity' as the all-supreme good, and de-scribes religion as the life of God in the soul of man, a divinity of essential being rather than formal doctrine.

alisphenoid, n. 2. In iehth., a small lateral bone of the cranium. It articulates above with the sphenotic and an inner descending wing of the frontal, and behind with the procitic. It usually forms a part of



Roccus Imeatus. Lateral



Roccus lineatus. Inferior View of Cranium I, vomer; 2, ethmoid; 3, prefrontal; 4, frontal; 5, sphenotic; 6, parietal; 7, epiotic; 2, supraoccipital; 0, pterotic; 10, opisthotic; 11, exoccipital; 12, basiscocipital; 13, parasphenoid; 14, basisphenoid; 15, pro5tic; 16, alisphenoid; 16, profit alisphenoid; 17, pro5tic; 16, alisphenoid; 17, pro5tic; 17

the lateral border of the anterior opening of the braincase, though sometimes it nearly closes this by bending inward and meeting its opposite fellow in a median suture. The 'aliaphenoid' of Owen is the 'prootic' of

aliturgic (a-li-ter'jik), a. [a-18 + liturgic.] Without liturgy: designating a day in the Christian year when the liturgical order is dispensed with. Strictly speaking, this never occurs. The mass of the presentified on Good Friday, referred to below, is according to the liturgy, though the liturgical order is curtailed in that ceremony. Meanwhile, both in East and West, the general practice has continued unbroken of reserving the Eucharist, in order that the "mass of the presanctified" night take place on certain "aliturgie" days. Encyc. Brit., XXXII. 220.

aliturgical (a-li-ter'ji-kal), a. Same as *ali-

alivincular (al"i-ving'kū-lār), a. [L. ala, wing, + vinculum, band, + - ar³.] Noting that form of ligament in the pelecypod mollusks which is like a cord or plug extending between the beaks of the two valves; it may be central or posterior: contrasted with paririncular.

alizarate (a-liz'a-rāt), n. [alizar-in + - ate1.] A salt of alizarin.

A salt of alizarin, n. [auzar·m + -atel.]

A salt of alizarin, n. Commercial alizarin is sold in the form of a yellow paste containing 20 per cent, of dry substance, and, less frequently, as a dry powder. The dry substance in the paste is seldom pure alizarin, but contains varying amounts of flavopurpurin and anthrapurpurin, both of which have properties similar to alizarin. Natural alizarin derived from madder contains purpurin in addition to the above. The nature of the various commercial alizarins is often designated by suffixed letters or numbers. Thus alizarin I, alizarin P, and alizarin V are nearly pure alizarin and give blnish reds, while alizarin CA, alizarin G, etc., contain anthrapurpurin or alizarin black, blue, Bordeaux, cardinal, etc. See *black, etc.—Alizarin saphirol, an acid dyestuff derived from authragnimone. It dyes wool a bright and clear blue which is remarkably fast to light.—Alizarin yellow, violet. See *yellow, *violet.*

aljama (āl-hāi'mā), n. [Sp., \ Ar. al, the, + Ar. jamā'a, a gathering, a congregation.] A self-governing community of Jews or of Moors living in Spain under Spanish rule during the

living in Spain under Spanish rule during the middle ages.

faina, (äl'hō-fä'ō-nä), n. [Sp., < Ar. al-ho-faina, al-hufaina, < al, the, + hofaina, hufaina, < hafua, a cup, porringer (Monlau).] An earthen jug or basin.

aljonjoli, n. Same as *ajonjoli.

aliquot (al'i-kwot), v. t. [aliquot, a.] To divide aljonjoli, n. Same as *ajonjoli.

into equal parts which are a multiple or a submultiple of another quantity. An aliquoting mechanism is one which causes one part of a machine to move n times while the other part moves once. Sci. Amer. Sup., Nov. 22, 1902.

Alkali, n., 3. This term, used in the commercial sense, includes the carbonates of sodium and potessium, for merly called milit alkalis. The alkali industry is one which carbonates of sodium and potessium, for merly called milit alkalis. The alkali industry is one of great importance, especially the manufacture of soda, but carbonate and caustic. It is carried on mainly by the carbonates of solium and potessium, for merly called milit alkalis. The alkali industry is one of great importance, especially the manufacture of soda, but carbonate and caustic. It is carried on mainly by the carbonates of solium and potessium, for merly called milit alkalis. The alkali industry is one of great importance, especially the manufacture of soda, but carbonates of sodium and potessium, for merly called milit alkalis. The alkali industry is one of great importance, especially the manufacture of soda, but carbonates of sodium and potessium, for merly called milit alkalis. The alkali industry is one for great importance, especially the manufacture of soda, but carbonates of sodium and potessium, for merly called milit alkalis. The alkali industry is one for great importance, especially the manufacture of soda, but carbonates of sodium and potessium, for merly called milit alkalis. The alkali industry is one for great importance, especially the manufacture of soda, but carbonates of sodium and potessium, for merly called milit alkalis, and the hydroxids of the same estimates. The alkali industry is one for great importance, especially the manufacture of soda, but carbonates of sodium and potessium, for merly called milit alkalis, and the hydroxids of the same estimates. The alkali industry is one called milit alkalis, and the

cces is not practically applicable to the production of potash; it is at present the principal source of sods.

4. A mineral compound soluble in water under ordinary surface conditions. They are chiefly chlorids, sulphates, carbonates, and hicarbonates of sodium, potassium, magnesium, and calcium. These salts commonly effloresce and form crists over surfaces in dry seasons. They are derived from the decay of rocks, and are carried in solution from these sources, becoming concentrated enough to be detrimental only in arid or semi-arid regions. There are two well-known types, black and white.—Alkali blue-grass, brown, bulrush. See *blue-grass, etc.—Alkali flat, a sterile plain or basin carrying an excess of alkali in its soil: usually the undrained or poorly drained remnant of a former lske in an arid region.—Alkali manufacture, in a general sense, the production on the great scale of the alkalis soda and potash, and their carbonates, but more generally used in a restricted seeae to mean the manufacture of soda, carbonate and caustic, especially by the Leblanc process, with the accessory products, as bleaching-powder, commonly made on the same premises.—Alkali soil, any soil containing an unusual amount of soluble mineral salts or alkali. More than four tenths of one per cent. of such soluble matter is injurious to most vegetation, although smaller amounts, on the confrary, are often advantageous. Soils naturally well drained on on unifier from these constituents, and alkali soils are confined either to poorly drained or to arid regions.—Alkali spot, an srea underlain by waters which drain from irrigated lands, frequently becoming increasingly saturated with alkali. Yearbook U. S. Depl. Agr. 1900, p. 472.—Alkali waste, in the Leblanc process for the manufacture of carbonate of soda from common salt, the insoluble residue left after leaching black ash with water. It consists chiefly of calcium sulphid, carbonate, and hydroxid, and is largely utilized for the recovery of the sulphur which it contains.—Alkali waters

Ammonia and sodium carbonate or "black alkali," on Ammonia and southin carbonate or "otaca Maar, on the other hand, hreak down any aggregates which have been formed, and thus have the effect of "puddling" the soil, which dries into a hard compact mass.

Yearbook U. S. Dept. of Agr. 1900, p. 209.

Refined alkali. Same as white *alkali.—White alkali, in the manufacture of carbonate of sods by the Leblanc process, the product obtained by redissolving sods ash in water, clarifying the liquor, and evaporating to dryness.

alkalic (al-kal'ik), a. [alkali + -ic.] 1. Same as alkaline. Elect. World and Engin., Sept. 3, 1904.—2. Specifically applied to the minerals of igneous rocks (in the quantitative classification) or to magmas and rocks generally, when specially characterized by their alkali con-

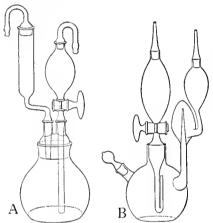
tents: in distinction from alkaline, which implies the chemical property of alkalinity. alkalicalcic (al'kal-i-kal'sik), a. [ulkali + calcic.] In petrog., a term used in the quantitative classification of igneous rocks to indieate that certain rocks, the chemical composition of which is known, contain alkalis and lime belonging to the standard salic minerals (feldspars and feldspathoids) in equal or nearly equal amounts. A certain systematic division of the quantitative classification is called the alkalicalcic rang. See quantitative classification of igneous rocks, under

alkali-grass, n. 2. Puccinelliu airoides (somealkali-grass, n. 2. I accinetia arrotae (Some in Tanne.)

times called ulkali meadow-grass) and P. Lemanin, (al-kan'in), n. [Alkanna + -in².]

moni, of the northern Rocky Mountain region. A coloring matter. C₁₅H₁₄O₄, obtained as Sporobolus airoides of the Southwest has been a dark reddish-brown powder from Alkanna called alkali finetop.—3. A species of poison tealled alkali finetop.—3. A species of poison tealled alkali finetopia.
camass. Zigadenus elegans, dangerous to stock: alkapton (al-kap'tōn), n. so called in the stock-raising regions of Montana, etc.

alkalimeter, n. 2. An instrument for the quantitative analysis of carbonated alkali. It consists essentially of a thin glass vessel which can be weighed on a essentially of a thin glass vessel when can be weighed on a delicate balance and is so constructed that a known weight of sedium carbonate or acid carbonate contained in one division is kept from acid contained in another division during the first weighing. The acid is then run on the carbonate, causing an evolution of carbon-dioxid gas, which, in passing out of the apparatus, bubbles through



4. Mohr's Alkalimeter: B. Wibel's Alkalimeter.

concentrated sulphuric acid or passes over calcium chlorid and is thus deprived of moisture. The apparatus is weighted a second time, the loss in weight representing the carbon dioxid evolved and thus indicating the quality of the carbonate. As a precaution, dry air is drawn through the apparatus to displace any residual gas. Special forms have been devised by Bunsen, Fresenius, Schroetter, Mohr, and others.

alkalimirlic (al/kal-i-mer'lik), a. [alkali + mirlic.] In petrog., a term used in the quantitative classification of igneous rocks to indicate that certain rocks, the chemical composition of which is known, contain alkalis and mirlic constituents belonging to the standard femic minerals in equal or nearly equal amounts. A certain systematic division of the

amounts. A certain systematic division of the quantitative system is called an alkalimirlic rang. See quantitative classification of igneous rocks, under *rock.

Alkaline glands. See *gland.—Alkaline iodide. See *iodide.—Alkaline metals, the metals of which the hydroxids constitute the alkalis, namely, sodlum, potassium, and the rarer lithium, rubidium, and cæsium.—Alkaline tide. See *tide.—Alkaline water, a mineral water occurring in nature with the carbonate of sodium or potassium (generally the former) as an ingredient in sufficient quantity to give a well-marked reaction to test-paper and medicinal activity. The carbonates of calcium and magnesium are also frequently present, dissolved by excess of carbonic acid. The waters of Vichy in France and Ems in Germany are examples.

alkali-weed (al'ka-li-wēd), n. The yerba mansa, Anemopsis Čalifornica.

mansa, Anemopsis Californica.
alkali-works (al'ka-li-werks), n. pl. buildings, machinery, and other appliances used in the conduct of the alkali manufacture. alkalizer (al'ka-lī-zer), n. A chemical agent which tends to render alkaline.

alkaloid, n.—Animal alkaloid, a leucomaïne or a ptomaine. See these words.—Artificial alkaloid, synthetic alkaloid.—Cadaveric or putrefactive alkaloid a ptomaine.—Synthetic alkaloid, an alkaloid formed artificially by chemical processes.

alkamari (äl-kä-mä'rē), n. [Aymará of Bolivia.] A bird of prey, Polyphorus tharus, of the family Falconidæ (though chiefly a scavenial processes).

enger), frequently met with in the highlands of Peru and Bolivia. It stalks about in pairs in cultivated patches and open spaces, and when disturbed it flies only a short distance. Its plumage is dark brown

on the back, with an almost white breast. In northern Peruvian (Quichua) it is called china-linda.

alkameine (al-kam'ē-in), n. [G. *alkameine; as alkam(ine) + -c-ine².] The carboxylic ester of an alkamine or alkine. Also called alkeine.

alkamine (al-kam'in), n. [G. *alkamin, < al-k(ohol), alcohol, + amine.] A name given by Ladenburg to tertiary bases which contain

an alcoholic group, as diethylethylol amine, $(C_2H_5)_2NC_2H_4OII$. Also called alkine.

alkane (al'kān), n. [G. *alkan(!), < alk(ohol), E. alcohol, + -an, E. -ane.] A hydrocarbon, C_nH_{2n+2} , of the marsh-gas or methane series:

official name

[alk(ali) + Gr]åπτειν, touch.] A term originally introduced to designate a certain urinary constituent which is met with on rare occasions, and which causes the urine to turn reddish brown or black on standing or upon the addition of an alkali. The substance to which this reaction is due has been identified as homogentiainic acid, Coll3(0H)₂. COll. In one instance urolencinic acid has been found in the place of homogentiainic acid. Also alcop-

alkaptonic (al-kap-ton'ik), a. Of or pertaining to alkapton. Homogentisinic acid and uroleucinic acid are sometimes collectively

termed alkaptonic acids. See *alkapton.
alkaptonuria (al-kap-tō-nū'ri-ia), n. [Nl., ζ
alkapton + οὐρον, urine.] The presence of alkapton in the urine when voided: a rare metabolic anomaly. Also alcaptonuria. alkeine, n. Same as *alkameine.

alkene (al'kēn), n. [G. *alken, \ alk(ohol), E. aleohol, + -en, E. -ene.] A hydrocarbon, Cu-H_{2n}, of the ethylene or ethene series: official

alkine (al'kin), n. [G. *alkin, < alk(ohol), E. alcohol, + -in, E. -ine².] 1. A hydrocarbon, C_nH_{2n}-2, of the acetylene or ethine series: offi-

callowyl (al-kok'sil), n. [G. *alkoxyl, $\langle alk(o-hol), alcohol, + E. ox(yyen) + -yl.$] A general name for an alkyl-group and oxygen, as ethoxyl,

alkylate (al'ki-lāt), v. t.; pret. and pp. alkylated, ppr. alkylating. [alkyl + -atel.] To introduce an alkyl in place of a hydrogen atom. Amer. Chem. Jour., April, 1903.

alkylation (al-ki-la'shon), n. [alkylate + -ion.] The process of introducing an alkyl in place of hydrogen. Nature, July, 9, 1903. alkylene (al'ki-len), n. [alkyl + -ene.] Same

alkene or olefine.

alkylidine (al-kil'i-din), n. [alkyl + -id + -ine².] The term applied, in organic chemistry, to bivalent hydrocarbon radicals, containing the group >CRR, where R represents hydrogen or any hydrocarbon radical, such as methyl, CH₃. The ethylidine radicals are isomeric with the bivalent ethylene radical, -CRo.CRo-

allachæsthesia (al″a-kes-thē'si-ä), n. [NL., ⟨ Gr. ἀλλαχῆ, elsewhere (⟨ ἀλλος, other), + aioθησις, feeling.] The perception of a sensa-tion elsewhere than at the point where the

stimulus is applied.
allactite (al'ak-tît), n. [Gr. ἀλλακτ(ικός), adj., ζ ἀλλάσσειν, change, exchange (see allagite), + -ite².] An arseniate of manganese occurring in small brownish-red prismatic crystals: found in Sweden.

Allagecrinidæ (a-laj-ē-krin'-i-dē), n. pl. [NL., \(Allagecrinus + -idæ. \)] The name given by Etheridge and Carpenter to a family of simple inadunate crinoids. They have a very small calyx, basal plates ankylosed and supporting sometimes two arms, sometimes one. They lived in early Carboniferous

Allagecrinus (al-a-jek'ri-nus), n. [NL., irreg. ⟨Gr. ἀλλαγή, change, + κρίνον, lily.] The typical and only genus of the family Allagecrinidæ.

allalinite (al-a-lin'ît), n. [Allalin, a locality in Switzerland, +-ite².] In petrog., a name used by Rosenbusch for saussurite-gabbro in which the secondary smaragdite and saussurite preserve the original texture of the rock in spite of the complete transformation they represent. It is distinguished from flaser-gabbro, in which there has been change in the form of the constituents.

allanic (a-lan'ik), a. [allan(toin) + -ie.] Noting an acid, $C_4H_5N_5O_5 + H_2O$, formed, to-

gether with urea and allanturic acid, by the action of nitric acid on allantoin.

allantiasis (al-an-ti'a-sis), n. [NL., < Gr. άλλας (άλλαντ-) + -iasis (noting a disease).] Same as *botulism.

allantoid, a. 2. In bot., sausage-shaped: applied especially to the spores of certain pyrenomycetous fungi.

Allantosporæ (al-an-tos'pō-rē), n. pl. [NL., ⟨Gr. αλλας (άλλαν-), sausage, + σπορά, spore.]
A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrenomy etes and Funyi imperfecti, to include the genera which have unicellular, cylindric, or curved spores.

allantoxaïdin (al-an"tok-sā'i-din), n. toxa(me) + $\cdot id^2 + \cdot im^2$.] A substance, $C_3H_3N_3$ - $O_2 + H_2O$, formed from allantoxanic acid by the loss of carbon dioxid. It is a weak acid.

allantoxanic (al-an/tok-san'ik), a. [allant(oin) + ox(ygen) + -an- + -ic.] Noting an acid, C₄H₃N₃O₄, formed by the oxidation of allantoin in an alkaline solution. It exists only in the form of salts.

allapinet, n. Another spelling of alepine.
alleged (a-lejd'), p. a. That is or has been
stated to be (what is specified in the following word or clause); mcrely stated or asserted: much used when one wishes to disclaim responsibility for the statement, or to intimate his disbelief in it: as, an alleged fact; an alleged interview; an alleged illness.

We cannot be sure that the alleged second dispatch was ver sent. Sir G. Cox, Gen. Hist. Greece, III. 10. ever sent.

Alleghanian (al-ē-gā'ni-an), a, and n. 1. Of or pertaining to the Alleghanies.—2. In anthrop., noting one of the secondary races of man, established by Geoffroy Saint-Hilaire, embracing the 'Red Indian.' Also used sub-

stantively.—Alleghanian area. See *area.

Allegheny River series. See *series.

allegorism (al'ē-gō-rizm), n. 1. Allegory or allegorical writing.—2. Allegorical interpretation, especially of the Scriptures. See the

Allegorism: That explanation of a Scripture passage which is based upon the supposition that its author, whether God or man, intended something 'other' than what is literally expressed. . . Expositors of this system may be called allegorists; the system itself allegorism.

Ginzberg, Jewiah Encyc., 1. 403.

allegorist, n. 2. One who interprets Scripture

allegorically. See *allegorism, 2. allegoristic (al"ē-gō-ris'tik), a. Of or pertainanegorisus (ai e-go-is tik), a. Of or pertaining to an allegorist or writer of allegories: as, the allegoristic style; allegoristic lessons.

allégresse (al-ā-gres'), n. [F., < allègre, lively; see allegro.] Gaiety; sprightliness; glad-

someness; glee. Urquhart.

Allegrippus conglomerate. See *conglom-

allegro, a. Special varieties of movement or style are indicated by adding other terms: as, ollegro againto, quick and with agitation; allegro assai, very quick; allegro con brio or con fucco, quick and with spirit or intensity; allegro con moto or allegro molto, with decided quickness; allegro virace, quick and with vivacity; allegro giusto, quick, but with steady, even novement; allegro moderato, moderately quick; allegro ma non troppo, quick, but not excessively so.

3 lloia (a.lē/iā) n. [Angle-Ind. Also allejah.

alleja (a-lē'jā), n. [Angle-Ind. Also allejah, allacha, alacha, etc., < Hind. *alācha, ilācha, < Turki alāchah, alajah, alchah (Yule).] A silk-and-cotton fabric of central Asia, woven in wavy effects.

allelomorph (a-lel'ō-môrf), n. [Gr. αλλήλων, of one another, + μορφή, form.] In biol., one of a pair of mutually exclusive qualities exof a pair of mutuary extensive quantities thibited respectively by each of two pure races or varieties of a species, these qualities being of such a nature that one or the other of the pair is exhibited in perfectiou, to the complete exclusion of the other, by each cross-bred descendant of the two pure races. When the cross-bred offspring, or the descendants of the cross-bred offspring, or the descendants of the cross-bred offspring, of two pure races or varieties which differ from each other in respect to some characteristic are like one or the other parent in respect to this characteristic, and not intermediate between them, the characteristic in question, in each parental form, is termed by Bateson an allelomorph, or in both parental forms, considered collectively, a pair of allelomorphs. Thus, for example, when descendants are reared from a tall (D) and a short (R) variety of the garden-pea, some are tall and some short, but intermediate forms are as rare as they are in the tall and short varieties of pure blood when bred true. In this case tallness and shortness may be considered as a pair of mutually antagonistic or incompatible unit characters, or allelomorphs, each of which may replace but not combine with the other in the descendants from a cross between them. According to Mendel and those who accept his theoretical explanaplete exclusion of the other, by each cross-bred

tion of the results of his experiments, the cross-bred individuals have two sorts of germ-cells in approximately
equal numbers, those which are like the germ-cells of
one pure parental race (D) and those which are like the
germ-cells of the other (R). If descendants are born
from cross-breeds through the union of two of the D or
tall germ-cells, the shortness (R) of the short variety
will not be represented in the fertilized eggs from which
they arise, and they will be tall and will have none but
tall descendants; while those which arise from fertilized
eggs formed by the union of the R or short germ-cells
will be short and will have none but short descendants.
Those which arise from fertilized eggs formed by the
union of a tall (D) and a short (R) germ-cell may be tall
or short but not intermediate. or short but not intermediate.

[If] two similar gametes meet, their offspring will be no more likely to show the other allelomorph than if no cross hal ever taken place.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc. 1902,

allelomorphic (a-lel-ō-môr'fik), a. [allelomorph Concerning or pertaining to an allelo-+-ic.] Concerning morph; Mendelian.

Allelomorphic variety, an analytical variety. See *va-

allelomorphism (a-lel-ō-môr'fizm), n. [allelomorph (ic) + -ism.] The presence or the transmission or the inheritance of allelomorphie characters.

It does not appear as yet that simple alletomorphism occurs between any two colours, of which neither is xanthic or albino.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc. 1902,

allelotaxis (a-lel-ō-tak'sis), n. [Gr. ἀλλήλων, of one another, $+\tau \dot{\alpha} \xi \iota c$, arrangement.] In cm-bryol., the origin of an organ from several embryonic sources, such as that of the hypophy-

sis from the entoderm of the pharynx and the ectoderm of the brain. Von Kupffer.

allelotropy (a-le-lot'rō-pi), n. [Gr. ἀλλήλων, of each other, +-τροπία, < τρέπειν, tnrn.] The existence in a tautomeric substance of the two isomeric forms in such a condition that either form readily passes over into the other. Knorr. allene (al'ēn), n. [L. all(ium), garlie, + -ene.]

Same as *allylene.

allepigamic (al"ep-i-gam'ik), a. [Gr. άλλος, + E. epigamic.] In biol., concerning or pertaining to adventitious epigamic characters. Poulton, Colours of Animals, p. 338. [Rare.] allesthesia (al-es-thē'si-ä), n. [NL., ⟨Gr. ἀλλος, other, + αἰσθησις, sensation.] Same as

allochiria.

all-fives (al'fivz'), n. A variety of allfours in which the points are scored as fast as made in the tricks taken in. Acc of trumps counts
4, king 3, queen 2, jack 1, ten 10, and five 5. The gamepoint is decided by counting these all over again at the
end. Sixty-one points make a game.

end. Sixty-one points make a game.

2lliance, n.—Parmers' Alliance, a cooperative association of farmers, formed in Texas in 1876, for mutual protection and assistance, especially in dealings with middlemen and against the encroachments of capitaliats in their wholesale purchases of lands. In later years similar associations were formed in different parts of the United States, and as a result of frequent amalgamations of these the present farmers' Alliance and Industrial Union came into existence as a political body, cooperating more or less closely with the People's party.—Grand Alliance. See Grand Alliance in Cyclopedia of Names.—Presbyterian Alliance. See *Presbyterian.

allicholy† (al'i-kol-i), a. A jocose perversion of the word 'melancholy.' Shak., T. G. of V., iv. 2. 27.

V., iv. 2. 27.

A disconsolate wood-pigeon . . . so atticholy as anything. Walpole, Letters, I. 8.

alligator, v. 6. A boat used in handling floating logs. It can be moved overland from one body of water to another by its own power, usually applied through a drum and cable. [U.S.]

Horn alligator, alligator leather made from the back of the skin, which has the roughest and largest scales, resembling plates of horn.

Alligatorellus (al*i-gā-to-rel'us), n. [NL., & William allie] and her allies allies

Alligator + dim. -ellus.] An extinct genus of small crocodilians from the Jurassic litho-

graphic stone of Cérin, France.
Alligatorium (al'i-gā-tō'ri-um), n. [NL., < Alligat(or) + -orium.] An extinct genus of small crocodilians of the family Atoposauridæ, An extinct genus of from the Jurassic lithographic limestone of

France and Bavaria.

alligator-shears (al'i-gā-tor-shērz"), n. sing.

and pl. Shears used for cutting off puddled bars in lengths suitable for piling, and also the crop ends of bars in general. There is a fixed lower jaw, and an upper movable jaw, whose fulcrum is set at the inner end of the cutting portion. Behind the fulcrum the lever Allodesma (al-ō-dez'mä), n. [NL., < Gr. ἀλλος,

is prolonged, and attached to a connecting-rod which receives its oscillatory movement from a crank or eccentric. Also called crocodile- or eropping-shears. Lockwood, Diet. Mech. Eng.

alligator-snapper (al"i-gā-tor-snap'er), n. The more common name for the alligator-terrapin, Macrochelys lacertina, a species of fresh-water turtle found along the border of the Gulf of Mexico from Florida to Texas. It is the largest fresh-water turtle of North America and possibly of the world, reaching a length of 5 feet and a weight of 150 pounds.

alionia (al-i-o'ni-ä), n. [NL. (Loefling, 1758), named in honor of Carlo Allioni (1725-1804), a professor of botany at Turin.] A genus of dicotyledonous plants of the family Nyctagi-

naceæ. See Oxybaphus.

alliteral (a-lit'e-ral), a. [Irreg. \langle L. ad, to, + litera, letter: see literal.] Characterized by alliterate a Transfer and to the alliteral as, the alliteral alliterate as the alliteral alliterate as Transfer and Transf But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can lmagine three other arrangements.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution; alliteration; and characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution; alliteration; and characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can languages of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can language of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can language of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can language of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can language of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can language of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes...we can language of Africa.

But besides the strictly allelomorphic or Mendenandistribution of characters among the gametes and characters among t

terized by or abounding in alliteration. Penny Cyc., 1858.

allituric (al-i-tū'rik), a. [all(antoin) + -it- + uric(f).] Noting an acid, C₆H₆O₄N₄, formed by boiling a solution of alloxantin with hydrochlorie acid. It is a yellowish, crystalline powder moderately soluble in hot water.

all-nighter (âl-nī'tēr), n. A public hack which plies during the night. [Slang.] allo-. 2. In chem., a prefix proposed by Michael to designate an unexplained isomerism. Thus funaric acid would be called attomates acid. The prefix is used for that isomer which is the less stable of the two compounds considered.

allo-autogamous (al"ō-â-tog'a-mus), a. άλλος, other, + autogamous.] In bot., self-fer-tilizing, but only when cross-fertilization fails. The allo-autogamy (al'o-â-tog a-mi), n. [< allo-autogamous + -y.] The character of being allo-

allocaffein (al"ō-ka-fē'in), n. A compound,

C₈H₉O₅N₃, formed by decomposing the bromine addition-product of methyleaffein with water. It melts at I96°-198° C.

allocarpy ('1'ō-kär-pi), n. [Gr. ἀλλος, other, + καρπός, fruit.] The bearing of fruit as a result of cross-fertilization.

allochiral (al-ō-ki ral), α. [Gr. ἀλλος, other, + χείρ, land.] Relating or related to the other hand; related as one hand of an individual is to the other hand of the same individual; similar, correspondent, or identical in form, as the right hand is to the left, though on opposite sides of the body and the parts are arranged in reverse order: opposed to *homochiral. See

also *heterochiral. allochirally (al-o-ki'ral-i), adr. In an allochiral manner; as one hand is to the other.

Allochromatic precious stones, precious stones of a variable character, that is, possessing one or more colors in the same crystal or gem.

allocinnamic (al-ō-sin'a-mik), a. [Gr. użżoc, other, + cinnamic.] Noting an acid isomeric with ordinary cinnamic acid, but closely related to it in structure. The two acids are supposed to be stereomers.

alloclase (al'ō-klās). n. [Gr. ἀλλος, other, + κλάσις, breaking, ζ κλάν, break.] Same as *alloclasite.

alloclasite (a-lô'kla-sit), n. [As alloclase + -itc2.] A mineral related to arsenopyrite, containing sulphur, arsenie, bismuth, cobalt, and iron: found in Hungary

allocochick (al-\(\hat{o}\)-k\(\hat{o}'\)chik), n. [N. W. North Amer. Ind.] The name of Indian shell-money used in northern California.

allocryptic (al-φ-krip'tik), a. [Gr. άλλος, other, κρυπτός, hidden.] Concerning or pertaining to the concealment of an organism by objects which are not part of its body.

Allocryptic methods may also be used for aggressive purposes, as the ant-lion larva, almost buried in sand, or the large frog Ceratophrys, which covers its back with earth when waiting for its prey.

Encyc. Brit., XXVII. 147.

thority and in reprehension, as in a papal allocution.

He had been greatly convinced of the great resources of the vernacular, by hearing an old neighbor, noted for her allocutive energy, remark that she had just given the hired man a good tongue-banging. The Atlantic, 1834, p. 510.

other, + δέσμα, band, ligament.] The typical genus of the family Allodesmidæ.

allodesmid (al- $\tilde{0}$ -dez'mid), a. and n. Having the characters of the Allodesmidæ.

II. n. A member of the pelecypod family Allodesmidæ.

Allodesmidæ (al-ō-dez'mi-dē), n. pl. [NL., < Allodesma + -idæ.] A family of extinct pelecypods of the order Teleodesmacea having very primitive characters and regarded by Neumayr as indicating the first stage in the development of the teleodesmacean hinge, as in Asturte and Cardium. The valves are small and round, the cardinal area is linear, the ligament is parivincular, the hinge has one or two lateral lamineon each side of the beak, and the cardinal teeth are radially grooved. They are known only from the Silurian rocks.

groved. They are known only from the similar rocks.

Allodon (al' δ - don), n. [Gr. ἀλλος, other, + ἀδους (ἀδοντ-), tooth.] A genus of extinct monotremes from the Upper Jurassic rocks of North America, having three upper incisors, of which the second is greatly enlarged. More

correctly written Allodus.

Allodus (al-ō-dus), n. See *Allodon.
Allœocœla (al-ō-ō-sē'lä), n. pl. See *Alloiocœla.
allœogenesis, n. 2. The alternation of sexual and parthenogenetic generations, seen especially in certain parasitic Trematoda. Also alloiogenesis. Schwarze.

allœogenetic (al "ē-ō-je-net'ik), a. Pertaining to or produced by allwogenesis.

allogenic (al-ō-jen'ik), a. [Gr. άλλος, other, + -γενής, -producing.] Of a different origin: in geol., applied to those inclusious in an igneous rock which are obviously older than the inclosing rock, and to the components of a clastic rock which have originated elsewhere: contrasted with *authigenic.

Alloiocœla (a-loi-ō-sē lā), n. pl. [NL., ζ Gr. αλλοίος, of another sort, + κοίλον, a hollow.]
An order or a suborder of Turbellaria having the enteron lobed or an irregularly widened It contains the families Plagiostomidæ, Monotidæ, and Bothrioplanidæ. Also Allœocæla.

alloiocœlous (a-loi-ō-sē'lus), a. Having the characteristics of or resembling the Alloiocala. alloiogenesis (al-oi-ō-jen'ē-sis), n. See *allœo-

alloisomerism (al"ō-ī-som'e-rizm), n. [Gr. άλλος, other, + isomerism.] In chem., a term introduced by Michael to distinguish certain eases of isomerism between different substances of the same percentage composition (as maleic acid and fumaric acid), involving, it is now believed, different geometrical positions of the atoms in space.

alloite (al'ō-īt), n. [Irreg. \(\lambda\) Gr. ἀλλος, other, +-ite².] In petrog., a name proposed by Cordier (1816) for volcanic tuff of white or yellowish color and imperfectly indurated.

allokinetic (al-ō-ki-net'ik), a. [Gr. δλλος, other, + κινητός, moved: see kinetic.] Moving in response to an external stimulus: opposed to *autokinetic.

allomorph (al'ō-môrf), n. [Gr. ἀλλος, other, + μορφή, form.] In mineral., a paramorph, that is, a pseudomorph formed by molecular change only, the chemical composition remaining the same, as calcite after aragonite.

allomorphic, a. 2. In petrog., same as xeno-

allopalladium (al"ō-pa-lā'di-um), n. A supposed allotropic form of native palladium, erystallizing in hexagonal plates.

allopelagic (al"ō-pē-laj'ik), α. [Gr. ἀλλος, other, + πέλαγος, sea.] Being in different parts of the sea (at different times); moving up and down irregularly in the sea in search of food, for purposes of reproduction, at different stages of development, or in response to any stimulus except light or heat. A pelagic fish that floats as an egg and swlms at the surface while young, afterward wandering in deeper water, is allopelagic. The word was introduced by Haeckel for the purpose of contrasting organisms that wander up and down irregularly with those that come to the surface only at night or only in the winter. See *bathypelagic, *nycipetagic, *chimovalagic,*

allophylous (a-lof'i-lus), a. Same as allo-

Eneye. Brit., XXVII. 147. phylian.

allocutive (a-lok'n-tiv), a. Speaking with an-alloplasmatic (al'o-plas-mat'ik), a. [Gr. άλλος, other, $+\pi\lambda \hat{a}a\mu a$, anything formed.] Constructed out of cells or by cells, but incapable of growth by cell-multiplication.

allopsychic (al-op-sī'kik), a. [Gr. δλλος, other, + ψυχή, soul, mind.] Pertaining to mind or consciousness in its relation to the external world. Also allopsychical.

Consciousness is a function of the associative mechanism, and may be considered in its threefold relationship to the outer world, the body, and self,—allopsychic, sup to the outer world, the body, and sen,—acopsychic, somatopsychic, and autopsychic.

Buck, Medical Haudbook, IV. 27.

allorhythmia (al-ō-rith'mi-ā), n. [NL., < Gr. àzzoc, other, + huduoc, rhythm.] In pathol., a condition in which the rhythm of the pulse varies from time to time. Lancet, Aug. 22, 1903. Allorisma(al-ō-riz'mā), n. [NL., appar. < Gr. Allorisma(al-φ-riz'mā), n. [NL., appar. ⟨ Gr. a'λος, other, + ἐρεισμα, support.] A genus of extinct pelecypods of Paleozoie age. They have valves which gape posteriorly, edentulous hinge, and parivincular ligament. The genus embraces species which show the earliest evidence of retractile siphons.

Allosaurus (al-φ-sa'rus), n. [NL., ⟨ Gr. ἀλλος, other, + σαίρος, lizard.] A genus of dinosaurian reptiles described by Marsh from the Upper Jurassic beds of Colorado and closely allied to the better-known Membraneous. They

allied to the better-known Megalosaurus. They have very short fore and large hind legs, the

latter reaching a length of 5 feet.

allosematic (al' ϕ -s ϕ -mat'ik), a. [Gr. $a'/\phi c$, other, $+ \sigma \delta \mu a$, mark: see sematic.] Having or using the sematic colors of another animal, which serve for deceptive protection. It has which serve for deceptive protection. It has been suggested that the sea-anemones, which are often found on the shells of hermit-crabs and on the backs of decorative crabs, are illustrations of allosematic protection. Poulton, Colours of Animals, p. 338.

Allosomus (al-ō-sō'mus), n. [NL., \lambda Gr. å2?oc,

other, $+\sigma \tilde{\omega} \mu a$, body.] A subgeneric name for the division of the genus Argyrosomus which

contains the tullibee, A. tullibee.
allothigene (al'ō-thi-jēn"), a. [Gr. ἀ22οθ, elsewhere, + -γετής, -produced.] Same as *allo-

allothigenetic (al "o -thi- je-net'ik), a. [Gr. öλλοθι, elsewhere, + γένεσις, origin : see *genetic*.] In *geol.*, composed of materials which have originated elsewhere: applied to the fragmental, sedimentary rocks, the components of which have been derived from other sources, as contrasted with the igneous rocks, whose minerals have erystallized in situ. See *allogenic.

allothigenetically (al*ō-thi-jē-net'i-kal-i), adv. In an allothigenetic manner or by means of allothigenetic materials.

allothigenic (al"ō-thi-jen'ik), a. [Gr. ἀλλοθι, elsewhere (< ἀλλος, other), + - /ενής, -produced.]

Same as *allothigenetic.

allothimorphic (al*ō-thi-môr'fik), a. [Gr. ἀλ-λοθι, elsewhere (< ἀλλος, other), + μορφή, form.] In petrol., a term applied to particles derived from older rocks which retain unchanged their original form in the secondary clastic deposits where they now occur.

allothogenic (al″ō-thō-jen'ik), a. Same as *al-

allotriomorphic (a-lot-ri-ē-môr'fik), a. [Gr. ἀλλότριος, of another, alien, + μορφή, form.]

aλλοτρίος, of another, anch, συνή, same as xenomorphic, allotrophic (al-ē-trof'ik), a. [Gr. ἀλλος, other, + τροφή, neurishment.] Of altered nutritive value; rendered less nutritious.

Allotropic silver. See *silver.

Allotropic Silver. See "stiter.

allotropism,". Theoeenrrence of more than one form of a chemical element with difference in physical properties is explained, in the light of the atomic theory, as depending on a difference in the number, and possibly in the arrangement, of the atoms which go to make up the molecule. Thus it is believed that in the more common form of oxygen there are two, but in the allotropic ozone three, atoms to the molecule.

the presentation of unusual properties by a chemical element by assuming the existence of that element in an alletropic form; specifically, an advocate of the theory that allotropic modifications of iron have an important effect in producing the hardness of suddenly quenched steel, as distinguished from a *carbonist(which Nature, May 5, 1904.

alloxuremia (al-ok-sū-rē'mi-ā), n. [alloxur(ic) in the camera. + Gr. aiµa, blood.] A condition resulting from the presence of any of the alloxurie bases in the name given to two isomerie by

blood.

alloxuric (a-lok-sū'rik), a. [allox(an) + uric.]Pertaining to or derived from alloxan and urie acid: noting certain bases comprising xanthin, hypexanthin, episarein, heteroxanthin, paraxanthin, theophyllin, theobromine, cafein, guanine, epiguanine, adenin, and earnin. They are all nuclear derivatives. Also termed ranthin bases or purin bases.

alloy, n. 1. A metallic alloy possesses the general physical properties of a metal, but is usually intermediate in properties between those of its constituents. Alloys are divided into three classes: (1) Those which form solid solutions in all proportions; (2) those which do not form solid solutions in all proportions, and which form no chemical compounds; and (3) those which form

one or more chemical compounds. An alloy of the first class forms a homogeneous shid when melted, and a homogeneous solid after freezing. Alloys of the account class form a homogeneous study when melted, but on solidification the components separate from one another and form microscopic crystals of the different metals intimately associated, but not in chemical combination or solution. A highly magnified section of such an alloy would not show a homogeneous structure, but the individual crystals of the pure components could be distinguished. Alloys of the third class follow the same general laws on solidification as the alloys of the second class, but the crystals which separate do not consist of the pure components, but some of the crystals will be of one or more of the pure components while other crystals will be of one or more of the pure components of the different metals lawing and the components of the different metals lawing and the consist of the pure components of the third class follow the same general laws on solidification as the alloys of the second class, but the crystals which separate do not consist of the pure components. All of the crystals will be of one or more of the pure components of the different metals lawing any other componition of the different metals law

allspicy (âl'spī-si), a. [allspice + -y1.] Warm; resembling allspice in warmth. Hood, Up the Rhine, p. 217. [Rare.]
All-the-Talents Administration. See *ad-

alluranic (al-ū-ran'ik), a. [all(oxan) + ur(ca) + -an + -ic.] Noting a weak acid, $C_5H_4N_4O_4$, formed from alloxan and urea.

Alluring glands. See *gland.
Allurus (a-lū'rus), n. [NL., ζ Gr. ἀλλος, another, + ονρά, tail.] A subgenerie name for a small group of snail-fishes, of the family Liparididæ, from the depths of the North Paeific.

alluvial, a. 2. A term applied to the most reeent or postglacial deposits, which follow the diluvial deposits.—Alluvial cone. See *cone.—Alluvial fan. Same as fan, 3.

luvial fan. Same as fan, 3.

II. n. Alluvial soil; specifically, in Australia and New Zealand, gold-bearing alluvial almond-butter (ä'mend-but"er), n. Same as

alluviated (a-lū'vi-ā-ted), p. a. [alluvium + -atc² + -cd².] Pertaining to or characterized by alluvial deposits, such as alluvial fans. Geog. Jour. (R. G. S.), IX. 538.

alluviation (a-lū-vi-ā'shen), n. ation.] The process of accumulating rock-debris along the lower reaches of slopes by rainwash and along the more slewly flowing stream-courses by loss of overlead. Alluvial fans or cones, alluvial plains or flood-plains, and slope-waste are the chief products of alluviation. *Chamberlin and Salisbury*, Geol.,

allotropist (a-lot'rē-pist), n. One who explains allwhither (al'hwifh er), adv. In all directions. [Rare.]

The swell . . . erumbled up and ran allwhither oilily. Kipling, Their Lawful Occasions.

allyl, n.—Sulphocarbamide of allyl, a crystallized compound obtained by the action of an excess of ammonium hydrate on the essential oil of mustard. A few drops of a saturated aqueous solution will reverse the image on a photographic plate and give a direct positive in the camera.

-ene.]

allylene (al'1-lēn), n. [allyl + -ene.] The name given to two isomerie hydrecarbons, methyl acetylene or prepine, CH₃C:CH, and prepadiene, CH₂:C:CH₂.

allylin (al'i-lin), n. [allyl + -in².] A name given to three ethers of glycerol and allyl aleebel known as moneallylin, diallylin, and triollyling. The legic of H O. C. H.

triallylin. The last is $C_3H_5O_3(C_3H_5)_3$:

alma² (al'mä), n. [Turk.] A Turkish measure of capacity, equal to 1.15 gallons.

almacabala (al'ma-kab'a-lä), n. [ML. almacabala, \langle Ar. al-muqábalah, 'the comparison': see etym. of algebra and cf. cabala.] The mystic explanation of numbers and of relations of numbers

almacabalic (al-ma-kab'a-lik), a. Of or pertaining to almacabala.

almond-tree: see almond.] A name applied in Guam, the Philippines, and Porto Rico to Terminalia Catappa, the nuts of which somewhat resemble almonds in shape and flavor. See Terminalia², and country almonds, under almond.

Almen's solution. See *solution.

Almen's solution. See *solution.

Almond black. See *black.—Dika almonds the seeds of a large tree, Irvingia Gabonensis, of tropical West Africa. They are rich in mucilage and fat, and when roasted are used for food. See dika-bread and Irningia.—Hard-shell almond, a type of sweet almond having a nut sometimes as hard as a peach-stone, little valued except as a stock.—Malahar almond. Same as country almond (which see, under almond).—Paper-shell almond, a thin-shelled type of sweet almond of the highest commercial grade. It includes a false variety with a double shell.—Soft-shell almond, the ordinary commercial almond exclusive of the paper-shell. There are all gradations of hardness in almond-shells.—Tropical almond, a common name for Terningia Catanna. are an gradations of hardness in almond-shells.—Tropi-cal almond, a common name for Terminalia Catappa. Also Demerara almond.

almond-paste

almond-meal (ä'mend-mel), n. The cake left from almonds, after the oil has been removed by pressure, coarsely ground.

almond-oil, n.— Artificial bitter-almond oil, nitrobenzene ($C_6H_5NO_2$), a yellow liquid with a smell like that of hitter almonds, sometimes used in perfumery. Same as mirbane oil.

almondy (ä'mon-di), a. [almond + -y1.] Like almonds in taste or fragrance. Lyell, Life, ii. N. E. D.

alnein (al'nē-in), n. [L. alncus, adj., < alnus, alder, + in².] A coloring matter extracted from the bark and wood of the alder, birch, and beech. It preduces celers varying from yellow to brown-black.

Alnitamian (al-ni-ta'mi-an), a. and n. I. a. Noting stars whose spectrum is of the type of that of Alnitam. They are characterized by the pre-dominance of hydrogen lines of the Huggins series (with fainter Pickering lines), strong helium, protosilicon, and a line of unknown origin in the cyan-blue having $\lambda = 4649.2$.

 $\lambda = 4649.2.$ II. n. An Alnitamian star.

alnoite (al'nō-it), n. [Alnō, an island of Sweden, + -ite².] In petrog., a name proposed by Rosenbusch (1887) for an igneous rock having the mineral composition of melilite-basalt, but occurring in dike form. It may also be considered as an olivin-rich biotite-monchiauite.

Alocasia (al-ō-kā'si-ā), n. [NL., appar. arbitrarily varied from Colocasia.] A genus of trarily varied from Colocasia.] A genus of stove foliage plants of 20 or more species belonging to the family Araceæ, natives of tropical Asia and the Malayan Islands. Closely son': allied to Colocasia. See cut under *ape², 2.

The aloed (al'ōd), p. a. 1. Flavored with aloes; itions mixed with aloes; bitter: as, "death's aloed portion," Felltham.—2. Shaded with or formed of aloes: as, "the aloed porch," Browning, Men and Women, ii. 30.

aloëtic, a.—Aloëtic acid, tetranitroanthraquinone, $C_{14}H_4O_2(NO_2)_4 + H_5O$ (?). It is prepared by treating aloes with nitric acid and is a tetrabasic acid.

aloft, adv.—Aloft there! the haif used to call the stention of the men who are aloft in the rigging or on the yards or in the tops.—Lay aloft! (naut.), an order to the seamen to mount the rigging for the execution of some place of work in the tops or on the yards.—Lay down from aloft! (naut.), a command for the seamen to cease work in the proper rigging and to decease to the decease. in the upper rigging and to descend to the deck.

alogia (a-lō'ji-ä), n. [NL.: see alogy.] In pathol., aphasia due to ideational defect.

aloja (ä-lo'hā), n. [Sp., a beverage made of water, honey, and spices.] A fermented beverage made from the sweet pods of several leguminous trees. In Argentina those of the algarroba, Prosopis alba, and the chanar, Gourliea decorticans, are used. See *chañar. South America. 1

Alonsoa (a-lon'sō-ä), n. [NL., from Z. Alonso, a Spanish officer.] A genus of very tender tropical, American, annual plants of the family

a Spanish officer. A genus of very tender tropical, American, annual plants of the family Scrophulariaceæ. The cultivated species come mostly from Peru and Mexico. There are 6 distinct species and varieties; some authors, however, differ with regard to the number. These plants are cultivated in the open and very rarely in pots. A. invisifolia, A. Warscewiczii, A. myrtifolia, and A. linifolia are the species most comnouly used. The seeds are sold by most seedsmen.

Alopecia dynamica, loss of hair due to destruction of the hair-follieles by ulceration, induration, or some other pathological process.—Alopecia maligna, a severe and intractable form of alopecia.—Alopecia neuritica, loss of hair over the area of distribution of an injured nerve.—Alopecia neurotica, loss of hair accompanying one of the infections diseases, such as typhoid fever: supposedly due to the action of the toxins of the disease.—Alopecia universalis, the falling of hair from the face and body as well as from the scalp. alopeke (a-lop'ē-kē), n. [Gr. ἀνωπεκῆ, Attic contraction of ἀνωπεκῖη, a fox-skin, Ionic fem. Thracian head-dress of fox-skin.

alorcic (a-lor'sik), a. [allocs) + ore(in) + -ie.]

Noting an acid, $C_9H_{10}O_3+H_{2}O$, formed in small amount by fusing aloes with sodium hydroxid. It crystallizes in needles which, when

dry, melt at I15° C.

alorcinic (al-ôr-sin'ik), a. [al(oes) + orcin +

-ic.] Same as *alorcic.
alouette (al-ö-et'), n. [F. alouette, a lark, <
OF. alouete, dim. of aloue, < L. alauda, a lark.] A device for inducing sleep by tiring the eyes by a pencil of light reflected from a series of revolving mirrors.

aloxanthin (al-ok-zan'thin), n. A compound formed by oxidizing barbaloin and socaloin Its probably tetrahydroxymethylanthraquinone, C₁₄H₃-(CH₃XOH)₄C₂. It consists of orange-colored needles which melt at 200°–265° C.

which ment at 200-205 °C.

Aloysia (al-ō-is'i-ā), n. [NL., from a personal name.] A subgenus of plants, of the large genus Lippia, which contains the commonly known lemon verbena (L. citriodora). The lemon verbena is easily grown in common greenhouses. In the South it may be grown in the open. It is a low-growing, tender shrub, with long, narrow, pointed leaves, native to South America.

alpargata (al-pär-gä'tä), n. [Sp.] In Spanish-speaking countries, a kind of sandal or low shoe

with a hemp or rush sole and cloth upper.

alpha, n. 4. [cap.] The name given by Carl
Neumann, the mathematical physicist, to a
supposed body to which all motion, especially supposed body to which all motion, especially motion of rotation, is relative. It has been said that Newton originated this idea, but that is incorrect. Newton believed that apace is a really existing thing, and he angrested that there might possibly be a body which is really in absolute reat relatively to real space. The conception of the body Aipha, which was originated by Neumann, nrose, on the contrary, from a difficulty which the theory of Leibnitz (that space is not an existent thing, but is merely an image embodying certain general laws of the relations between things) meets in the circumstancethat, according to the accepted doctrine of Newton's three inwa of motion, motion of rotation (as it is ascertined, for example, by Foucault's pendulum experiment) is absointe and not merely relative motion. Neumann, and others who accept Leibnitz's theory of the entire relativity of space, seek to explain rotation by supposing that there is a body Aipha, which is not indeed absolutely at rest, as Newton thought it possible that some body might be (since these persons are of opinion that absolute piace and absolute motion are phrases without meaning), but which is the body to which the motion spoken of in the three laws of motion ought to be understood to be relative. Ernst Mach undertakes to show that this body Alpha is really the universe as a whole, which virtually comes to saying that it is the starry heavens as a whole. The objection to this is that it makes objects the most remote from any given body the principal factors which determine the motions of that body. Now, according to that epidemological psychology which makes apace an image embodying the laws of the relations of things, this image must be supposed to be so constituted as to make those things which principally affect one another appear to be near one another. According to Tait, there is no need of any body Alpha, since, so far as rotation and rectilinearity of mother. motion of rotation, is relative. It has been said that

tion are concerned, we have only to assume, as a definition, that rotation is relative to lines of force fixed within a body having no dynamic effects of rotation.—Alpha paper. See *paper.—Alpha rays. See *ray1.

Alphabet of thought, a list of simple ideas by the combination of which it was supposed by Raymond Lully, the youthful Leibnitz, and perhaps by Spinoza, that knowledge could be manufactured.—Blind alphabet, See *traille.—Deaf-and-dumb alphabet, the conventional signs or finger-gestures used by the deaf and dumb in lieu of speech. See deaf-mute.—Missionary alphabet, a regulated form of the Roman alphabet used by missionaries in writing the unwritten or imperfectly written languages of the peoples among whom they work. About 1830 English and American missionaries adopted a scheme, substantially that put forth by Sir William Jones in 1781, for the transitieration of Asiatic languages, based upon the Roman or Continental values of the vowels. This was extended by conferences of scholars held in 1854 and later. The first definite result was the publication of Lepsius's "Standard Alphabet" (1855. second edition 1863), and of F. Max Miller's "Church Missionary Alphabet," in effect a recension of Lepsius's scheme. This Lepsius-Miller slphabet has been applied to the recording of many hitherto illiterate languages, and, in one form or another, is used by missionaries throughout the world. It promises, in the more scientific form now being worked out in successive recensions by philologists, to become the general phonetic alphabet of the world. See philological *alphabets.—Philological alphabets, modern phonetic forms of the Roman alphabet as enlarged, regulated, and controlled for philological purposes. Conspicuous philological alphabets, modern phonetic forms of the Roman alphabet as enlarged, regulated, and controlled for philological purposes. Conspicuous philological alphabets, modern phonetic forms of the Roman alphabet as enlarged, regulated, and controlled for philological purposes. Conspicuous philolog

ALPHABET OF THE AMERICAN PHILOLOGICAL ASSOCIATION.

VOWELS.

Sound as in

Por	m.	Name,		Sound as in
I	i	i	(1)	it (it)
E	e	e	(ĕ)	met (met)
A	a	a	(ă)	at (at)
α	α	a	(ah)	ask (osk)
θ	Ð	Θ	(õ)	not (not), what (hwet)
0	0	0	(oh)	obey (obē)
U	U	u	(ŭ)	but (bot)
\mathbf{U}	tı	\mathbf{u}	(oo)	full (ful)
			LO:	NG.
For	m.	Na	me.	Sound as In
Ì	ì	í	(ee)	pique = pcak (plc)
Ê Ā	ē	ě	(ay)	they (dhē), veil (vēl)
Ā	â	â,	(ai[r])	air = ere = heir (ar)
ä	ā	a	(ah)	arm (ārm), far (fār)
ō	ō	ē	(awe)	nor (něr), wall (wěi)
Õ	ō	ō	(oh)	no (nō), holy (hôli)
Ü	ប៊	ō	(u[x])	burn (būrn)
Ü	ü	ů	(00)	rule (rūl), ooze (ūz)
			DIPHTE	IONGS.
ID	ai	ai	(eye, I)	aisle=isle (all)
au	an	au	(ou)	out (aut), our=hour (aur)
ΘI	ei	ei	(01)	oil (eil), boy (bei)
IU	iu	in		feud (flud), few (flu)
			CONSO	NANTS.
			SUE	RD,
P	p	рĩ	(pee)	pet (pet)
т	i.	t.f	(tee)	tin (tin)

r	р	pi (pee)	per (per)				
T	t	tf (tee)	tip (tip)				
CH	ch	chi (chee)	chest (chest)				
C(K)	c(k)	cf (kee)	come (cūm)				
F	f	ef (eff)	fat (fat)				
TH	th	ith (ith)	thin (thin)				
S	8	es (exs)	sown (sön)				
8H	sh	ish (ish)	she (shi)				
H	h	hi (hee)	he (hi), hat (hat)				
SONANT.							
\mathbf{B}	b	bi (bee)	bet (bct)				
D	d	di (dee)	dip (dip)				
J	j	jê (jay)	jest (jest)				
G	g	gi (ghee)	gum (gūm)				
V	V	vì (vee)	vat (vat)				
DII	dh	dhî (thee)	thee (dhi)				
Z	Z	zi (zee)	zone (zön)				
zH	zh	zhi (zhee)	azure (azhūr)				
W	w	wû (woo)	we (wi), wit (wit)				
L	t	el (ell)	lo (lô), ell (el)				
\mathbf{R}	r	ür (ar)	rat (rat), are (dr)				
Y	y	yī (yee)	ye (yī), year (yir)				
M	m	em (em)	me (mi), my (mal)				
N	n	en (en)	no (nō)				
NG	ng	ing (ing)	eing (sing)				
	-						

Phonetic alphabet, an alphabet in which each character represents a definite sound, and which is so used that the pronunciation of each word can, within narrow limits, be known with certainty by any one who knows the alphabet. The Roman alphabet, like its original the

AISIKE

Greek, was originally phonetic, and as used in modern times (in Italian, Spanish, Portuguese French, English, German, etc.) is still fairly phonetic. French has deviated most in the consonant system, allowing or requiring the extensive suppression of consonants in utterance, and English most in the vowel system, the whole series of English long vowels having been thrown into hopeless confusion. The most conspicuous instance of a highly phonetic and classified alphabet long in actual use is the Sanskrit, which was reduced to its present order by native grammarians about the second century A. D., on much the same lines as those on which scholars are now endeavoring to establish a classified reconstitution of the Roman alphabet. Physiological alphabet, the eleendeavoring to establish a classified reconstitution of the Roman alphabet.—Physiological alphabet, the elementary sounds of human speech.—Scientific alphabet, an alphabet based upon scientific principles; one which embodies phonetic precision and sufficiency. Ferhaps the only alphabet fairly entitled to this designation is A. M. Bell's 'visible speech' (1867), which takes account of all distinguishable vocal sounds, including whispering, sneezing, coughing, chuckling, etc., and provides for each sound a symbol whose form is significant and thus in a way makes the intended sound obvious er'visible' to the reader. In a laxer use, the term has been applied to the philological alphabets based upon the historic Roman alphabet. These are used with a tolerable degree of precision and uniformity, and, compared to the traditional alphabets as conventionally used, are fairly scientific. See philological * alphabets.

alphabetist (al'fa-bet-ist), n. [alphabet + -ist.]
A student or a deviser of alphabets. S. S.
Huldengy Applet Outloon ii 22 Haldeman, Analyt. Orthog., ii. 22.

alpha-naphthol (al-fa-naf thôl), n. A naphthol having the hydroxyl-group in the alpha position. alpha-naphthylamine (al fa-naf thil-am'in), n. Naphthylamine in which the amido-group is in the alpha position.

Alphestes (al-fes'tēz), n. [NL., ζ Gr. αλφηστής,

a kind of fish.] A genus of sea-bass allied to Epinephelus, of the family Serranidæ.

alphogen (al'fō-jeu), n. Same as *alphozone.

alphonse (al-fons'), n. [Sp. Alfonsino.] A Spanish gold coin of the reign of Alfonso XII., worth 20 pesetas or \$3.86.

worth 20 pesetas or 55.00.

alphozone (al'fō-zōn), n. A white crystalline compound, C₈H₁₀O₈, obtained by the action of hydrogen peroxid on succinic anhydride; disuccinic peroxid. It is a powerful germination of the control of Also called alphogen.

alphyl (al'fil), n. A name proposed by Bamberger to designate an aromatic radical, as phenyl, C_bH₅. Such radicals are now more often called aryls, while aliphatic radicals, as nethyl, CH₂, are sometimes called alphyls; but the latter are more properly called alkyls, and the name alphyl has become superfluous. alphylate (al'fi-lāt), r. t.; pret. and pp. alphylated, ppr. alphylating. [alphyl + -ate².] To introduce an alphyl into (an organic compound). Amer. Chem. Jour., April, 1903. alpine, a. 2. [eap.] In authrop., noting the type of the European race which inhabits the Alps and the regions east and west of the Alps: berger to designate an aromatic radical, as

Alps and the regions east and west of the Alps: characterized by a broad, short head, broad face with full chin and heavy nose, medium slature, and prevalently grayish eyes and brown hair. Also called Celto-Slavic, Sarmatian, Arvernian. Ripley, Races of Europe, p. 123.—Alpine blue, diluvium, glacier. See *blue, etc.
—Alpine hat, a soft felt hat with a deep dent in the crown and rolled brim: originally a traveling-hat, and used in mountain-climbing, whence the name.—Alpine granite. See protogine.

Alpinia (al-pin'i-ä), n. [NL. from Prospero Alpino, an Italian botanist.] A genus of stove herbs of the family Zinziberacex, cultivated for both the foliage and the racemes or panieles of flowers. There are about 60 species of this genus found in tropical and subtropical Asia, the islands of the Pacific Ocean, and Anstralia. The species most commonly cultivated is A. nutans. a plant with very beautiful foliage, sometimes known as the shell-flower.

alpinin (al'pi-nin), n. [(?) Alpine + -in².] A substance prepared from galangal root, since shown to be a mixture of galangin and camphonid.

pherid.

Alsace gray, green, etc. See *gray, *green1,

Alsatian clover. See *clover.

alsbachite (alz'ba-kit), n. [Alsbach, a stream on Mount Meliboeus, Odenwald, Baden, +-ite².] In petrog., the name given by Chelius (1892) to a variety of granite-porphyry poor in ferromagnesian minerals and rich in pink garnet, occurring on the slope of Mount Melibocus.

Alsidium (al-sid'i-um), n. [NL. (C.A. Agardh, 1827), said to have been formed (if so, irregularly) ζGr, ἀλίς, saltness, or ἀλίς, salt, +-idium.] A genus of red scawceds containing the species A. Helminthochortos, or Corsican moss, used in medicine.

alsike (al'sik, Sw. äl'si-ke), n. [Prop. Alsike clover, named from (Sw.) Alsike near Upsala in Sweden.] A species of clover (Trifolium hybridum) native to Europe, much grown in the United States for forage. It thrives best

alum-cake

A genus of dicotyledonous plants belonging to

A genus of dicovireation out plants octobering to the family Silenacex. See Stellaria.

alstonidine (al-stō'ni-din), n. [Alstonia (see def.) + id + inc².] An alkaloid found in Pala (Alstonia) constructa. It crystallizes in needles which melt at 181° C.

alstonine (al'stō-nin), n. [Alstonia (see def.) + -inc².] An alkaloid, $C_{21}H_{20}N_{2}O_{4}+3\frac{1}{2}H_{2}O$, found in the bark of Pala (Alstonia) constricta. It is amorphous and was formerly ealled chloregenin.

Alstrœmeria (al-strē-mē'ri-ä), n. a personal name.] A genus of eool-house and stove plants, members of the family Amaryllidacex, with tuberous roots, treated as bulbs. The species most common in the United States are natives of Brazil, Peru, Chile, and Mexico. A. Pelegrina is best adapted for greenhoose purposes. In all there are best adapted for greenhouse purposes. In all there are about 50 described species, found in the tropical and subtropical regions of South America.

Altamaha grits. See *grit2.

altar-book (âl'tār-būk), n. Same as missal. altar-boy (âl'tār-boi), n. A boy who serves a priest while he is officiating at the altar.

altar-mound (al'tar-mound), n. A mound of earth erected over an altar of clay on which A mound of

sacrifiees were burned. Altar-mounds have been discovered principally in Ohio.

alteratio (al-te-rā'shi-ō), n. [NL.: see alteration.] In mensural music, the regular doubling of the time-value of a note in certain relations. The rules governing this were complicated and

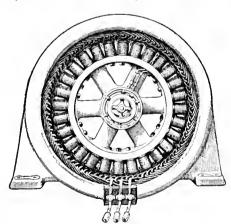
Altered chord, note, or triad, in music, a chord, note, or triad affected by an accidental and thus changed in character or significance.

alteregoism (al-ter-ē'gō-izm), n. [L. alter ego, 'another I,' + -ism.] A narrow altruism amounting merely to sympathy with persons who are in one's own case. Amer. Jour. Psychol.,

Esenbeck, 1816), < 1. alternus, alternate, +-aria.] Agenus of hyphomycetous fungi doubtfully distinct from Macrosporium. The confdia are dark-colored, are both transversely and longitudinally septate, and are borne in chains. A. Brassicæ occurs on the cabbage and cauliflower.

alternate a. 4. In elect., same as *alternat-

alternater, alternator (al'tèr-nā-tèr,-tor), n. In cleet., an alternating-current dynamo or generator. It consists of an armature in which electric power is produced and a magnetic field which produces the magnetic flux acting upon the armature. Accord-ing to their construction, alternaters are: (1) revolving armature alternaters, having the magnet field station-ary and the armature revolving; (2) revolving field al-



Revolving Field Alternater,

ternaters, having the magnet field revolving and the armature stationary; (3) inductor alternaters, having the field coils and armature stationary and the iron core revolving; (4) induction or asynchronous alternaters, that is, induction notors running as generators above synchronism. See *induction generator.—Compensated alternater, an alternater in which the armature reaction is compensated by a compensating *exciter (which see) and the voltage thereby maintained irrespective of load or character of load, that is, power-factor.—Inductor alternater, in elect., an alternating-current generator, in which field and armature windings are stationary, and only a toothed iron structure revolves.

alternating (al'tèr-nā-ting), p. a. Specifically, species, with small whitish heads which become pink. It is sometimes known as Secedish dover.

Alsine (al'si-nā-ting), p. a. Specifically, in elect., periodically reversing or changing the direction in such a manner that the total effect in one direction is the same as in the opposite direction. An alternating current is a current grove or place grown with trees and grass. feet in one direction is the same as in the opposite direction. An alternating current is a current consisting of a series of half-waves of equal duration and equal intensity but opposite direction. One half-wave is called an alternation, two successive half-waves, or a complete wave, a cycle. The number of cycles per second is the frequency. Commercial frequencies are 25, 60, and 125 cycles per second. Since the alternating current varies from instant to instant, the square-root of the mean square of the instantaneous values is commonly employed and called the effective value of the alternating current, since it represents the effect or power of the latter. Under alternating current, alternating electromotive force, etc., usually the effective value is understood. If the successive half-waves gradually decrease in intensity, the current is called an oscillating current. Oscillating currents usually have frequencies of hundred thousands and millions of cycles per second. They are produced by condenser discharges and are used in wireless tolegraphy, etc.—Alternating group. See *group1.—Alternating motion. See *motion.—Alternating symmetry, in crystal. See *symmetry.

alternation, n. 5. In phytogeog., the discon-

alternation, n. 5. In phytogeog., the discontinuous occurrence of a plant type due to local variations in the conditions. See the extract.

The term alternation is used to designate that phenomenon of vegetation in which a formation recurs at different places in a region, or a species at different points in a formation.

F. E. Clements, Bot. Surv. Neb., VII. 163.

6. In clect., the time of one reversal, or 6. In clect., the time of one reversal, or one half-wave of alternating current. One alternation therefore is one half-cycle. The frequency of an alternating current formerly was given in alternation per minute. See *alternating.—Antithetic alternation of generations, the alternation between a sexual generation and an asexual generation which is unlike it in form or atructure or in both; metagenesis. Encyc. Brit., XXXII. 214.—Homologous alternation of generations, the alternation of a sexual generation with an asexual generation similar to it is appearance. asexual generation similar to it in appearance.

Homologous alternation is illustrated by many Algæ and Fungi where offspring of similar appearance are proand Fungi where onspring of shinner appearance are produced in two different ways, either vegetatively of sexually.

Encyc. Brit., XXXII, 214.

alternative I. a.-Alternative inheritance. See

★inheritance.
II. n.—Voltaic alternatives, auddenly reversed

**XII. 470, alteregoistic (al-ter-ē-gō-ist'ik), a. Of or pertaining to alteregoism.

**Alternaria (al-ter-nā'ri-ā), n. [NL. (Nees von Esenbeck, 1816), < L. alternus, alternate, + -aria.] Agenus of hyphomycetous fungi doubtfully dictivet from Magraenarium. The certification of control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium. The certification of the control or fully dictivet from Magraenarium and the control or fu moral inhibition.

alternativo (äl-ter-nä-te'vo), a. [It.] In music, noting a movement or section which alternates with another or is set in contrast with it.

alternator, n. See **alternater.
althionic (al-thi-on'ik), a. [al(eohol) + Gr. $\theta \epsilon iov$, sulphur, $+ \cdot n + \cdot ic.$] Derived from alcohol and sulphur.—Althionic acid, an old name, no longer used, for ethyl-sulphuric acid.

altho, conj. A simplified spelling of although.
Alticus (al'ti-kus), n. [NL., prop. Halticus, ζGr. ἀλτικός, good at leaping, ζάλλεσθαι, leap.]
A genus of blennies similar to Salarias. A. sa. liens lives on lava-rocks about the reefs in the South Seas, lurking out of water and leaping like a lizard when disturbed. It is black in color and about 4 inches in

altilik (äl'ti-lik), n. [Turk. *altilik, <alti, six, +-lik, adj. suffix.] The Turkish six-piaster piece. altimetric (al-ti-met'rik), a. Same as *altimet-

He proposed to carry a chain of altimetric observations to Kara-koshum and Chaklik.

Geog. Jour., (R. G. S.), XVI, 472.

altimetrical (al-ti-met'ri-kal), a. [altimetry + -ic-al.] Relating or pertaining to altimetry, or the measurement of heights. Blount. altimetrically (al-ti-met'ri-kal-i), adv. As regards the measurement of heights. altinichlic (äl-ti-nik'lik), n. [Turk. altin, a gold coin.] A Turkish silver coiu, the one-niaster niece, which has a legal weight of spain.

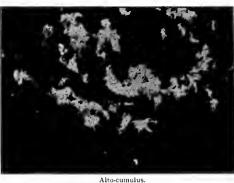
piaster piece, which has a legal weight of 18.557 grains and a varying value.

altist (alt'ist), n. [alt(o) + -ist.] In music, one who sings the alto part.

Altitude circle. See *circle.—Altitude motion, the motion of an instrument when it turns on a horizontal axis. See *scarat.—A M. altitude, the sextant sight measured in the morning by the navigator for the purpose of obtaining a base from which to calculate the longitude of the vessel.—Double altitude, the angle between an object and its reflection in an artificial horizon (ordinarily a trough of mercury). Such angles are usually measured with a sextant by an observer on land.—Observed altitude, the angular height of a heavenly body from the horizon, as measured on the sextant, or other nautical instrument of reflection, or the sextant altitude before corrections for semi-diameter, parallax, dip of the horizon, and refraction are applied.—P. M. altitude, the sextant sight measured in the afternoon by the navigator for determining the ship's meridian.

Altitudinal index. See \star index. Altmann's bioblasts or granules. See \star bioblast. alto 2 t, adv. phr. See all, adv, 1.

alto-cumulus (al-tō-kū'mū-lns), n.; pl. alto-[L. altus, high, + cumulus, heap (see cumulus).] A cloud, the highest form of



(From a phototype by J. Vincent.)

cumulus, appearing in small masses. bright on the sunny and shaded on the opposite side; in the older terminology, a cumulo-cirrus. They are frequently arranged in rank and file, generally disappearing in the sunshine, and are then indicative of dry, pleasant weather. Sometimes this little cloud has a definite structure as a vortex-ring.

alto-nimbus (al-tō-nim'bus), n.; pl. alto-nimbi (-bī). [L. altus, high, + nimbus, cloud (sce nimbus).] A cloud from which rain falls after it is completely developed, but which in its first stages is seen to be a dull-colored cloud at the summit of a mass of air flowing in under an advancing cumulus or enmilo-nimbus. Similar clouds of much greater extent are formed when broad sheets of air, blowing from the southwest, approach near astorm-center and begin to form clouds before reaching the rain region.

alto-stratus (al-tō-strā'tus), n.; pl. alto-strati (-ti). [L. altus, high, + NL stratus.] 1. A thin horizontal sheet of clouds, usually disappearing slowly: apparently a lower layer of what under favorable circumstances might have been a cumulus cloud. The outer surface. melting away at sunset, gives rise to beautiful sunset clond-colors by reflection of light from the sun or the sky beyond the western horizon.

—2. A rather high cloud covering the sky as layer whose lower surface is horizontal. The extreme boundaries of such an alto-stratus

cloud thin away into a series of alto-cumuli.

altro-nutrition (al*trō-nū-trish'on), n. [Irreg. < L. atter, other, + nutrition.] Nutrition carried over to another: applied in the quotation to reproduction viewed in its social and ethical consequences.

Reproduction is therefore not only ultra-nutrition, in going beyond the individual, but it is altro-nutrition, in carrying the process to and into another. It is, as we shall see, the beginning of altruism.

Ward, Pure Sociol., p. 221.

altrotelic (al-tro-tel'ik), a. See the extract.

The few years of achooling is only the very end of a process that, in a sense, has run through eons. The achool merely puts on the final touches. . . . Letourneau speaks of spontaneous and organic training. Nature first adjusts the body to the physical environment; then the social adjustment marks a higher stage. Heredity is stored np experience. The second stage or division of education we may call . . artificial or telic. Art is here teleological control of nature; if it is directed by another it is altrottic; and when it becomes subjective it is autotelle. The telic aspect begins when we enter the social sphere. G. S. Hall, Adolescence, II. 447.

aluff (a-luf'), adv. Naut., of sails, in the posi-tion when the helm is put down, or alee, so that the vessel is thrown up into the wind and the sails shake or slat.

the sails shake or slat.

alum, n.—Alum bath, a saturated solution of potassium alum. It is used in photography to check the frilling of plates or the blistering of paper.—Alum schist. Same as alum shale.—Porous alum, the trade-name of aluminium sulphate obtained by evaporation of its solution and to which, just before solidification, a small quantity of sodium earbonate is added with stirring of the pasty mass. The evolution of carbon-dioxid gas in bubbles puffs up the material to a spongy condition, which becomes permanent on setting.

alum-cake (al'um-kāk), n. The dried mass left after the treatment with strong sulphuric acid of kaolin or fairly pure clay which has

been roasted. It consists essentially of aluminium sulphate, but includes, maxed with it, the silica derived from the clay. Also alum-clay cake.

alum-earth, n. 2. A loose clay containing

iron pyrites from which alum may be made. It often occurs with beds of lignite, and usually contains rather less silica than the more

compact alum slate. alumian (a- $l\bar{u}'$ mi-an), n. [alumi(uw) + -an.] A doubtful aluminium sulphate (perhaps Alg-S₂O₉) found in Spain.

Alumina cream, freshly precipitated aluminium hydrate held in suspension in water.

Alumina cream, freshly precipitated aluminium hydrate held in suspension in water.

aluminium, n. Aluminium melts at 654.5° C., and the tensile strength of bars made of it is about 28,000 pounds a square inch. The commercial production of the metal hegan about 1888, the process most largely used, as at Pittsburg and Niagara, being that of Hall, in which anbydrous alumina from bauxite is dissolved in a bath of fused cryolite in the presence of carbon and electrolyzed by a current of 6 or 7 volta and 7,000 amperes. The price has been brought down from \$15 to 30 cents a pound, and the annual ontput increased from 3 to many thousand tons per annum. The only moderate strength of the metal, certain difficulties in working It (as, for instance, in soldering), and its chemical alterability under some conditions have tended to limit its applications. Among the more recent uses made of It may be mentioned the etching of designs for theatrical and other posters, substitution for copper in wire for the transmission of electric currents, the mannfacture of a silver-like paint from the powder, and the production of a very high temperature by rapid combustion of the powder in admixture with sodium dioxid. See *aluminothermics.— Aluminium brass, an alloy of aluminim, zinc, and copper produced either by introducing metallic aluminim unto melted brass, or by introducing zinc into melted aluminimo bronze. The proportion of aluminim warles from 1 to 5.8 parts, that of copper from 55.8 to 77.5, and that of zinc from 21 to 43. The metal is very ductile and malleable, and its tensile strength is far above that of ordinary brass.—Aluminium hypochlorite. A solution of this salt prepared by the interaction of solutions of bleaching-powder and aluminium aniphate has been used in hleaching under the name Wilson's liquor. It has been applied chiefly in the preparation of paper stock, but it may also be used as a preservative and disinfectant and in mordanting cloth for dyling.—Aluminium processes. See *process.—Aluminium steel. See *steell brittle, nnless the proportion of zino is very small. The further addition of copper makes a very stiff netal, well adapted for castings.—Bromide of aluminium, a salt prepared by saturating hydrohromic acid with gelatinosa aluminium hydrate and then carefully evaporating to dryness. It is used in photography in sensitizing collodion, one grain to the ounce.—Wolfram aluminium, an alloy of aluminium and tungsten, used largely for military equipments. The metal rolls, draws, and spins well.

aluminize (a-lū'mi-nīz), v. t.; pret. and pp. aluminized, ppr. aluminizing. [L. alumen (alumini-) + -ize.] To apply alum or a salt of aluminium to (a material, as cloth).

alumino . A combining form (with silicate, phosphate, etc.) of aluminum, aluminium. The feldspars are all aluminosilicates.

apina well.

aluminoferric (a-lū"mi-nō-fer'ik), a. See the following.—Aluminoferric cake, the trade-name for aluminium sulphate when it contains a considerable quantity of ferric sulphate derived from iron occurring as an impurity in bauxite or china chy.

aluminol (a-lū'mi-nol), n. [alumin(ium) -ol.] A trade-name for β -naphtholdisulphonate of aluminium, $\mathrm{Al_2(C_{10}H_5OH(SO_3)_2)_3}$. It combines the astringency of alum with the

antiseptic power of naphthol.

aluminothermic (a - lū'mi - nō - thèr'mik). a. Pertaining to or produced by aluminothermy; producing high temperatures by the combustion of finely divided metallic aluminium. Elect. World and Engin., Feb. 13, 1904.

aluminothermics (a-lū"mi-nō-ther'miks), [aluminium + thermics.] A collective name for the processes in which high temperatures are produced by the chemical combination of oxygen and aluminium. It has been known for oxygen and aluminium. It has been known for some time that high temperature could be obtained by the formation of alumina, but the operation was not practically applied previous to the invention of the process patented by Dr. Hans Goldschuidt. This consists in nixing finely powdered aluminium with some pulverized metallic oxid (e.g., $F_{\rm e3}O_{\rm d}$), and then raising the temperature to the point where reaction takes place through which the aluminium deprives the other metal of its oxygen, forming Al₂O₃. This reaction generates a great quantity of heat and a very high temperature. The process is used for the production of pure metals which it has not before been possible to isolate completely and in a pure form, such as chromium, manganeae, etc. An-

other very important application of the aluminothermic process is to welding. In this thermit (which see) is placed in a specially prepared crucible of refractory material and the reaction is started by means of an ignifier. The fluid mass of iron produced is poured into a mold placed around the joint to be welded. This process is especially useful for welding conductor-rails, defective castings, and parts of broken machinery which must be repaired at the places where they are in use. When the aluminothermic process is used, for the separation of metals, an important by-product is formed, namely, the melted aluminium oxid or alumina. It is an artificial corundum and has been called corubin. Its uniform hardness makes it far superior to natural corundum or emery for grinding and polishing purposes. A great obstacle in the way of the use of aluminothermic processes has been the lack of some means of starting the reaction, which requires a high temperature. Dr. Geldschmidt accomplishes this hy using an igniter consisting usually of a readily reducible oxid, such as barium peroxid, mixed with fluely powdered aluminium. The reaction of this mixture may be started by means of a match. A pinch of this mixture placed upon the thermit or other aluminothermic mixture will serve to start the reaction. Once started, the main reaction will propagate itself, since the temperature produced is probably above 8000°C, and higher than can be obtained in any other artificial way except by the electric arc. other very important application of the aluminothermic way except by the electric arc.

aluminothermy (a-lū'mi-nō-thèr"mi), n. [NL. aluminum + Gr. θέρμη, heat.] Same as *aluminothermies.

alum-meal (al'um-mel), n. Alum as obtained in small crystals, at its first crystallization, by rapid cooling, with agitation, of a hot solution. alundum (a-lun'dum), n. [L. al(ius), other, + (cor)undum.] An artificial abrasive made in an

electric furnace and used as a substitute for

corundum.

alurgite (a-ler'jīt), n. [Gr. άλουργής, purple (lit. wrought in the sca, with reference to the genuine purple dye from the purple-fish as distinguished from imitations made on land, < ting instead from intations induce of fairly, $\delta \lambda c$, sea. + $\delta \rho_0 \sigma v$, work), + -ite².] A manganese-mica, varying from purple to cochineal red, from St. Marcel, Piedmont.

Alutera (a-lū'te-rā), n. [NL., < L. aluta, soft leather.] A genus of file-fishes remarkable for their leathery skin and lean body: found in tropical seas. A. monoceros is the com-

monest species. **Alvarius** (al-vā'ri-us), n. [NL.] A genus of small darters of the family *Percidæ*. A, lateralis is found in northern Mexico.

alveate (al'vē-āt), a. [L. alreatus, hollowed out like a trough or tray, <alreat, a trough, tray: see alreas.] Same as alreated.

alvelos (äl've-los), n. The milky resinous juice of Euphorbia heterodoxa, indigenous to Brazil: a yellowish-white syrupy substance used in médicine.

alveola (al-ve'o-la), n.; pl. alveolæ (-le). fem.: see alreolus.] In bot.: (a) One of the pits in a receptacle after the removal of the flowers, especially in the heads of composite (b) A pore in a fungus, as Polyporus. c) The depressed perithecium in certain fungi.

alveolar, a. 2. In phonetics, formed or articulated by bringing the tip of the tongue into contact with the alveolar point of the upper front teeth, as the consonants t, d, n, l .- Alveolar abscess, a deep-seated gum-boil.— Alveolar angle, in anthrop, the angle formed by the lines drawn from the alveolar point to the basion and to the nasion. the alveolar point to the basion and to the nasion.—
Alveolar hypothesis, the doctrine or opinion that the reticniated appearances in protoplasm are due to the walls of contiguous vesicles or alveoli, and that this foam like structure is the universal fundamental structure of protoplasm.—Alveolar line, in craniom., the continuation of the lateral margin of the anterior masal aperture to the anterior masal spine. Harrison Allen, Jour. Acad. Nat. Sci., X. 418.

alveolar-dorsal (al-vē"ō-lār-dôr'sal), a. Alveolar and dorsal. Stud. Yale Psych. Lab., X. 105. Alveolites (al'vē-ō-lī'tēz), n. [NI.., \(\int L. alreo-lus, \) dim. of alreus, a cavity, + -ites, E. -ite².] Agenus of extinct tabulato corals. They grow in spreading or branching masses composed of contignous corallites opening obliquely on the surface with semi-lunar apertures; the septa are represented by rows of apinules and mural pores are present. This coral is very abundant in the Silurian and Devonian.

alveololabial (al-vē"ō-lō-lā'bi-al), a. Pertaining to the lips and to the alveolar processes. alveololingual (al-ve'o-lo-ling'gwal), a. Pertaining to the tongue and to the alveolar pro-

alveolonasal (al-ve"o -lo -na'zal), a. In cra-niom., relating to the alveolar point and to the nasion: as, the alveolonasal line.

alveolus, n. (h) In the shells of belemnites or fossil dibranchiate cephalepods, the conical cavity at the an-

Alvine calculi, intestinal concretions which result from the inaplasation of portions of the fecal contents.

alvite (al'vīt), n. [Alve in Norway + -ite2.]

A silicate resembling zircon in form, but con-

taining yttrium and probably thorium and other

rare elements: found in Norway.

aly (ā'li), a. [ale + -y¹.] Of, pertaining to, like, or characteristic of the use of ale: as, an aly tale; an aly taste; an aly nose.

Alypia (a-lip'i-ii), n. [NL. (Huebner, 1825), said to be ζ Gr. αλυπία, freedom from grief.] A genus of agaristid moths containing several species which inhabit the United States. One of them, A. octomaculata, occurs abundantly in the larval state upon grape-vines, which it injures by devouring the

A. M. A. An abbreviation of American Medical Association.

ama-ama (ä "mä - ä 'mä), n. [Hawaiian.] A Hawaiian name of the common mullet, Mugil cephalus. It is a food-fish of very superior quality, and is reared in artificial ponds in that region.

amacrine (a-mak'rin), a. [Gr. ά- priv. + μακρός, long, $+i\varepsilon$ (-iv-), muscle, in pl. fiber.] Not having long fibers: a term applied to anaxone nerve-cells, sometimes called spongioblasts, found in the inner molecular layer of the retina of the eye.

amaldar, n. 2. În India, an agent or manager; in some districts, a revenue-collector. Also written amildar.

Amalgamated plates. See *plate.

amalgamating-pan (a-mal'ga-mā-ting-pan"), n. ln gold- and silver-milling, a pan-shaped machine with a revolving muller for grinding ores in order to extract the precious metals from the resulting pulp with the aid of mercury. The use of chemicals and heat is sometimes required, especially for silver ores.

required, especially for silver ores.

amalgamation, n.—Barrel amalgamation, a process of amalgamation in which the ore to be treated is charged into revolving barrels and there the precious metals are united with mercury. In the United States the barrel-process has been replaced by the pan-process, while in Europe and in South and Central America it is still in use.—Kröncke's process of amalgamation, a Chilean amalgamation process, inuse since 1862, adapted chiefly for ores from the deeper workings, which earry, besides some native silver and chlorid, much argentite, pronstite, pyroargyrite, and polybasite. The active reagent is a hot solution of euprons chlorid which is prepared separately. The operation is carried on in rotating wooden barrels, and lead or zinc is employed as a means of decomposing the calomel.—Raw amalgamation, the amalgamation of silver ore without a preliminary chloridizing roast.—Roast amalgamation, amalgamation of silver ore after a preliminary chloridizing roast. See chloridize. See chloridize.

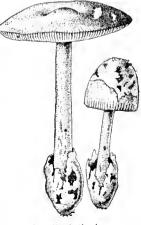
amalic (a-mal'ik), a. [Formation not obvious.] Noting an acid, C₁₂H₁₄N₄O₈, formed by the oxidation of eaffein or the obromine; tetramethyl alloxantin.

Amanist (a-mā'nist), n. [Amana, a group of villages in Iowa (\$\langle Amana\$, a mountain mentioned in Cant. iv. 8), + -ist.] A member of a German religious community properly known as the "True Inspiration Society." It originated as a religious sect in Germany in the seventeenth century, was much persecuted there and elsewhere on the continent of Europe, removed to the United States in 1842, and became communistic. The community settled first at Ebenezer, near Buffalo, New York, but removed, in 1855 and the following years, to Amana, near Cedar Rapida, Iowa, where it forms a group of seven villages, engaged in agriculture and manufactures, and sharing things in common under the rule of a president and several trustees elected by the people. Its members believe in the plenary inspiration of the Bible, and make it their sole creed, differing little in their heliefs from Lutherans. They have no rite of baptism, do not believe in eternal punishment, and, like the Quakers, disapprove of war and nor preaching except when Godraises up an 'inspired instrument,' but all are devont church-goers. See inspirationist.

Amanita (am'a-ni'fā). n [N] German religious community properly known as the "True Inspiration Society." It originated

Amanita (am#a-

nī'tä), n. [NL., ζ Gr. αμανίται, pl., a sort of fungi.] 1. In mycol., a genus of fungi of the family Agaricaceæ, restricted by recent authors to whitespored species having the stem provided with hothan annulus. or ring, and a



(After figure in Engler and Prantl's "Pflanzenfamilien.")

a number of which are common and widely distributed throughout temperate regions. -2. [l. c.] A plant of this genus.—Fly amanita, a name frequently applied to Amanita muscaria, a poisonous species.—Orange amanita, a common name for A. exsaria, a large edible species having an orange-colored pileus.—Poison amanita, a name applied to A. phalloides, a white species which is extremely poisonous.

Amanitopsis (a-man-i-top'sis), n. [NL.(Roze, 1879), \langle Amanita + $\delta \psi n$, view.] A genus of 1879), ζ Amanita + δψα, view.] A genus of white-spored agaries having a volva but no an-.t. plumbea is a common and widely distributed species. See cut on preceding page.

amanous (am'ā-nus), a. [Gr. ā-priv. + L. manus, a hand.] Without hands or manus: sometimes applied to birds. [Rare.]

amaranth, n. 4. Same as purple heart. - 5. An acid dyestuff, of the monoazo type, which dyes wool and silk a pure bluish red that is moder-ately fast to light and milling. It is known by various other names, as azo acid-rubine, Borby various other names, as azo acid-rubine, Bordeaux S, and fast red.—Amaranth spirit, a tradename for one of the solutions of chlorid of tin used as a mordant in dyeing. These solutions are now much less used than they were before the introduction of the coal-tar dyes.—Low amaranth, one of the tumble weeds, Amarantus blitoides, of the prairie States resembling A. græcizans, but more spreading. Also prostrate or spreading amaranth—Rough amaranth, the pigweed, Amaranthus retrojexus.—Spiny amaranth, a tropical weed, Amaranthus spinosus, recently spread in waste places from Virginia to Missouri and southward. It is a stout, bushy species and the stems hear slender spines. Also called car less-uced and red careless-weed.—Spreading amaranth. Same as spiny *amaranth.—Thorny amaranth. Same as spiny *amaranth.

amarantite (am-a-ran'tit), n. [amarant, proper form of amaranth, + -ite².] A hydrous ferric sulphate occurring in slender prismatic crystals and bladed masses of an amaranth-red color. Also called hohmannite.

amargosa (ä-mir-gō'sä), n. [Sp. amargoso, bitter.] A name in Guam and the Philippines of the balsam-pear and the balsam-apple (Momordiea Charantia and M. Balsamina), gourd-like plants with palmate leaves and warty, yellow fruit which bursts open when ripe, displaying the seeds surrounded by a red aril.

amaric (a-mar'ik), a. [L. amarus, bitter, + -ic.] Of a bitter nature.—Amaric acid, an acid, $C_{2g}H_{2g}O_{2g} + H_{2g}O_{g}$ formed by boiling benzamarone with alcoholic sodium hydroxid. It is crystalline and easily forms an anhydrid.

amaril (am'a-ril), n. [1. amarus, bitter + -il.] The hypothetical poison of the Bacillus ictero ides, regarded by some as the cause of yellow

amaroid (am'a-roid), n. [L. amarus, bitter, + -oid.] A name proposed to designate those bitter substances which have a definite composition but do not belong to one of the recognized classes of compounds such as glucosides or alkaloids.

amaroidal (am-a-roi'dal), a. [amaroid + -al.] 1. Somewhat bitter in taste.—2. In pharm., resembling a bitter in properties.

Amasonia (am-a-sō'ni-ā), n. [NL., named for Thomas Amason, an early American traveler.] A genus of greenhouse shrubs from tropical America, of the family Verbenaceæ: sometimes grown for the long, persistent, hairy, yellow flowers. A. calycina is the only common species in the United States. There are about six species, but they are not much known in cultivation.

amastia (a-mas'ti-ä), n. [NL., < Gr. *ἀμαστία, ⟨ ἀμαστος, without breasts, ⟨ ά- priv. + μαστός, breast.] Congenital absence of the nipples or of the entire breasts.

amasty (a-mas'ti), n. Same as *amastia.

amaurosis, n. — Intoxication amaurosis, blindness due to the action of some systemic poison, such as alcohol or tobacco.

Amaurotic family idiocy, a form of idiocy accompanied by constant and irremediable retinal lesions causing blindness. Lancet, June 25, 1904.

amaxophobia (am-ak-sō-fō'bi-ā). n. [Prop. ★hamaxophobia, ⟨Gr. âμα-ξα, a wagon, + -φοβία, ⟨φοβεῖν, fear.] A morbid fear of vehicles. amazia (a-mā'zi-ā), n. [NL., ⟨Gr. ā-priv. + μαζός, breast.] Congenital absence of the mammary glands

Amazonian group, in geol., a term applied to rocks of Cretaceous age along the Rio Purus, Brazil, and regarded as equivalent in part to the Upper Chalk or Maestrichtian of Europe.

Amazonianism (am-a-zō'ni-an-izm), n. The state or condition of Amazons; Amazonian customs and conditions which develop in a certain state of society; particularly, the supposed Amazonian revolution of the women against prevailing heterism. MeLennan.

volva. Over 50 species have been described, Amazonism (am'a-zon-izm), n. The supposed ambiciliate (am-bi-sil'i-āt), a. [L. ambi-, on supremacy and rule of women in primitive society: an interpretation of the facts of descent traced in the female line, and the consequent supremacy of the male relatives of the wife over her husband. Ward, Pure Sociol., p. 338.

ciol., p. 338.

Amazonomachia (am[#]a-zon-ō-mak'i-ä), n. [NL., < Gr. Ἀμαζών, Amazon, + μάχη, fight.]

In Gr. antiq., a battle of Amazons. There were several of these mythic battles: (1) the invasion of Lyeia by the Amazons; (2) the invasion of Phrygia by the Amazons; (3) the battle with Hercules, his 9th labor, in which Hippolyta, queen of the Amazons, was slain; (4) the battle with Theseus to Ilberate Antiope; (5) the battle at the close of the Trojan War, when the Amazons came to the assistance of Prima; (6) the invasion by the Amazons of the island of Leuce at the mouth of the Danube. Since it furnished many interesting arrangements of men, women, and horsestin action, the Amazonomachia was a favorite subject with Greek artists. The finest representation of it now in existence is a scries of



Amazonomachia, from a Sarcophagus in the Louvre

has-reliefs, in the British Museum, which was found in the ruins of the Mausoleum at Halicarussus. It was often represented in the decoration of vases.

A.M.B. An abbreviation of the Latin Artium Mcchanicarum Bacealaureus, Bachelor of the Mechanic Arts, a title conferred by some colleges.

ambach, n. Same as *ambatch.

ambagiousness (am-bā'jus-nes), n. [ambagious + -ness.] The quality of being amba-

gious + ness.] The quality of being ambagious, roundabout, or indirect.

ambatch (am'bach). n. [See ambash.] The pith-tree of the Nile, Eschynomene Elaphroxylon, a thorny shrub or small tree of extraordinarily quick growth: a characteristic plant of the waters of tropical Africa. Its uncommonly light, spongy wood is used for floats and small rafts. See ambash. ambeer, ambier (am'ber), n. [Perhaps due in

some way to amber, in allusion to its color. Tobacco-juice. Joaquin Miller. [Local, U. S.] Tobacco-junce. Joaquin Miller. [Local, U. S.] amber², n.— Drawn amber, amber which has been dragged out of the sea with nets and rakes.— Pit amber, amber mined from pits or diggings. It usually has a friable brown crust. Distinguished from strand and sea amber, from which this coating has been worn by the action of sea and sand.— Sea amber, amber washed up by the sea (from deposits under the sea or on the coast) or dredged from its depths. Also called sea-stone.— Strand amber, water-worn amber found on a coast or atrand.

amber-beds (am'ber-bedz), n. pl. A deposit of glanconitic sands of Lower Oligecene age, developed along the coast of the Baltic Sea near Königsberg, in the lower part of which is a band containing considerable quantities of amber. The sands carry marine fossils, but the amber incloses insects, spiders, and centipeds, together with the fruit, flowers, seeds, and leaves of a large number of land plants.

amberiferous (am-ber-if'er-us), a. Amberbearing or amber-producing.

The west coast of Denmark . . . is included in this nberiferous region.

Buck, Med. Handbook, 1. 208. amberiferous region.

amberite (am'be-rit), n. [amber + -ite2.] One of the modern explosives known as smokeless powders. It contains 40 per cent. of nitroglycerin, 56 per cent. of soluble guncotton, and 4 per cent. of camphor, vaseline, or some equivalent aubstance.

amber-jack (am'ber-jak), n. A name given to

large species of the genus Seriola, as S. lalandi and S. dumerili.

amberous (am'ber-us), a. Amber-colored; like amber.

Its chambers paved with amberous lights.

The Century, Aug., 1890, p. 500.

amber-snail (am'ber-snal), n. A species of Succinea.

amber-tree, n. 2. The extinct tree Pinites succinifer, which yielded most of the amber of the Baltic region.

ambiance (än-bi-äns'), n. ambiance ($\ddot{a}\dot{n}$ -bi- $\ddot{a}\dot{n}s'$), n. [F. (Nouveau Lathe Laacher See in the Eifel, originally derousse), \langle ambiant = E. ambient. The E. form scribed as an independent species. would be *ambience.] Environment: in art, Amblystomatidæ (am'bli-stō-mat'i-dē), n. pl. the arrangement of accessories and surround- [NL. \langle Amblystoma(t-) + -idæ.] Same as Amings to support the main effect intended.

both sides, + NL. eiliatus, eiliate.] In iehth., having the scales on both sides of the body edged with minute teeth. [Rare.]

Ambicolorate fish appear to be always what one may call 'ambiciliate' also, Proc. Zool. Soc. London, 1894, p. 439.

ambicolorate (am-bi-kul'or-āt). a. [L. ambi-, on both sides, + coloratus, colored.] Having both sides of the body colored: applied specifically to abnormal examples of flatfishes, colored on both sides, which are normally white beneath. Proc. Zool. Soc. London, 1894, p. 435.

ambicoloration (am-bi-kul-o-rā'shon), n. [L. amhi- on both sides. + coloration.] In zoöl., ambie, on both sides, + coloration.] In zool., the property or fact of having both sides colored. Proc. Zool. Soc. London, 1894, p. 432. Ambient vein. See *vein. ambier, n. See *ambeer.

ambilation (am-bi-la'shon), n. [ambi-+ (re)lation.] A relation in which every individual object of the universe of discourse stands to every other; a pene-coexistence.

ambisinistrous (am - bi - sin'is - trus), a. [L. ambi-, on both sides, + sinister, left.] Same as ambilevous.

ambital (am'bi-tal), a. [ambit + -al.] Of or pertaining to the ambitus or margin of the shell or test, as in echinoderms.

ambitty (am-bit'i), a. [Prob. a factory pron. of F. invitré (an'vi'trā'), unvitrified, \(in\), L. in-, neg., + vitré, \(\(\) L. vitrum, glass. \(\) In glassmanuf., devitrified in the pot during the time it

is being worked, as glass.

ambitus, n. 6. In Gregorian music. the range or compass of a melody.—7. In the flat sea-urchins or echinoids, the peripheral or equa-torial area of the test which is not transsected

by the ambulacra.

Amblotheriidæ (am-blo-the'ri-i-de), n. pl. [NL., $\langle Amblotherium + -idx. \rangle$] A family of primitive mammals in which the molars bear a tritubercular blade and a posterior talon: from the Jurassie of North America and Great

Amblotherium (am-blo-the'ri-um), n. for *Amblytherium, \langle Gr. $a\mu\beta i\epsilon_{\sigma}$, sluggish, + $\theta\eta\rho iov$, wild beast.] The typical genus of the family Amblotheriidæ: regarded by some authors as synonymous with Peraspalax, Phas-

colestes, and Stylodon.

Amblycephalidæ (am-bli-se-fal'i-dē), n. pl. [NL., \(\lambda\) Amblycephalus + -id\(\varepsilon\). A family of harmless tropical snakes found in South America and Asia. The pterygoids, which are widely separated from the quadrates, do not reach beyond the plane of the occipital condyle. On account of the size of the head, the species (about 30 in number) bear some resemblance to venomous snakes.

amblychromatic (am-bli-krō-mat'ik), a. [Gr. άμβλίς, dim, + χρωμα, color.] Feebly staining: applied to certain myelocytes occurring in marrow. Opposed to *trachychromatic.

Amblygobius (am-bli-go'bi-ns); n. [NL., Gr. $a\mu\beta\lambda\dot{v}$, dull, blunt, + L. gobius, goby.] A genus of gobies in the East Indies.

amblyopia, n. Failing sight, as distinguished from amaurosis or total blindness.

amblyoscope (am'bli-ō-skōp), n. [Gr. ἀμβλῖς, dim, dull, obtuse, + σκοπεῖν. view.] A stereoscope each lateral half of which has indepenamblyoscope (am'bli-ō-skop), n. dent motion, whereby a fusion of the two images can be effected under any conditions of divergence or convergence of the visual axes. Lancet, July 18, 1903.

amblypod (am'bli-pod), n. [Gr. $\mathring{a}\mu\beta\lambda\acute{\nu}\varsigma$, blunt, $+\pi\acute{\nu}\varsigma$, foot.] A member of the order Amblypoda, a group comprising a large number

of extinct ungulates.

Amblypomacentrus (am"bli-pō-ma-sen'trus), n. [NL., ⟨Gr. ἀμβλής, dull, blunt, + (†) Pomacentrus.] A name given to a section of the genus Pomaeentrus, small recf-fishes known as damsel-fishes or demoiselles.

Amblyrhiza (am-bli-ri'za), n. [NL., \langle Gr. $a\mu\beta\lambda r$, blunt, $+bi\zeta a$, root.] An extinct genus of rodents, allied to *Chinchilla*, from the Post-

tertiary of the Antilles.

amblystegite (am-blis'tē-jīt), n. [Gr. $\dot{a}\mu\beta\lambda\dot{v}$, blunt, + $\sigma\tau\dot{\epsilon}\gamma\eta$, roof, chamber, + $-ite^2$. The name alludes to the form of the crystals.] A variety of hypersthene from the andesite of the Laacher See in the Eifel, originally de-

blystomidæ.

amboceptor (am-bô-sep'tor), n. [L. ambo, both, + (re)ceptor.] A specific adaptation-product, the result of immunization, which unites the corresponding complement with the receptor of the cell or cellular product for which it has a special affinity. See *immunity. Also copula, desmon, fixator, immune body, intermediary body,

The excessive or lateral chains, being useless to the cells in which they are produced, are cast off and appear in the body juices as intermediary hodies or 'ccptors,' which, according to their nature, are designated uniceptors (antitoxins, etc.) and amboceptors (intermediary bodies).

Science, July 3, 1903.

Ambocœlia (am-bō-sē'li-ā), n. [NL., \langle Gr. $a\mu\beta\omega r$, a raised edge, $+\kappa\omega\lambda ia$, belly.] A genns of small spire-bearing brachiopods with smooth or spinous valves; abundant in the Devonian and Carboniferous rocks.

Ambonychia (am-bō-nik'i-ä), n. [NL., \langle Gr. $\dot{a}\mu\beta\omega r$, a raised edge, + $\ddot{b}vv\xi$, talon.] The typical genus of the family Ambonychiidæ.

Ambonychiidæ (am-bō-ni-kī'i-dē), n. [NL., < Ambonychia + -idæ.] A family of pelecypod Amonymus + -uæ.] A family of percypou or acephalons mollusks. They have mytliform shella with no auricle and with the anterior adductor nuscle obsolete, no hinge-teeth, ligament external, and hyssal gape small. It is highly characteristic of the early Silurian fannæ and has a few Devonian representatives.

Amboyna button or pimple. See *button.
ambroid (am'broid), n. The trade-name of a
substance made from the inferior pieces of amber. See the extract.

The inferior pieces of amber are made into what is called ambroid. The pieces are washed and dried, coated on the outside with some chemical, and are then moulded with the aid of heat and pressure.

Scientific American, Sept. 16, 1899.

ambrosia, n. 3. The food of certain wood-boring beetles, consisting of various hyphomycetons fungi found associated with the beetles in their galleries, and said by some authors to be propagated by them, each species of beetle using a particular species of fungus.

Their [ambrosia-beetlea'] tood consists not of wood, but of a substance to which the name ambrosia has been given, and which is a coating formed by certain minute fungi and propagated on the walls of their galleries by the beetles. The action of the fungua produces the characteristic stain in the wood.

Fearbook U. S. Dept. Agr., 1896, p. 421.

ambrosia-beetle (am-brō'ziä-bē"tl), n. one of a group of beetles of the family Scillytide, which burrow in the wood of different trees, and in their burrows cultivate certain fungi known as ambrosia. See *ambrosia, 3. Thirty species belonging to 6 genera in the United States are known to have this habit .-Cosmopolitan ambrosia-beetle, a scolytid beetle of wide distribution, Lyleborus saxeseni.—Oak ambrosia-beetle, an American scolytid beetle, Lyleborus affinis.

Ambrosiaceæ (am-brō-zi-ā'sē-ē), n. pl. [Nl. (Reichenbach, 1828), 〈 Ambrosia + -aceæ.] A family of dicotyledonous, sympetalous plants of the order Campanulales, the ragweed family: chiefly distinguished from the Asteracca, in which it is included by many authors, by having the stamens (usually 5) separate, or the anthers merely connivent, so as not to be truly syngenesious. There are 8 genera and about 55 species, mostly American, coarse weeds, some learing burs. Ambrosia, the ragweed, is the type, and the two other heat-known genera are Iva and L'anthium.

ambrosial, u. 2. Pertaining to the senses of taste and smell: a forced use.

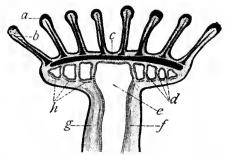
While yet in the animal state man learns to enjoy the ambrosial senses in partaking of food and drink and in inhaling the air laden with many particles given on by natural bodiea.

J. W. Powell, Amer. Ethnol. Rep., XIX. lix.

Ambrosian, a.—Ambrosian hymn, any hymn attributed to St. Ambrose (340-397) or his achool. The title is generally considered as applying to twelve hymns characterized by their lack of rhythm and their anatere simplicity. The 'Te Denm' coomonly called 'Ambrosian' is thought now to be a translation of an ancient Oreek hymn.

ambrosine (am'brō-sin), n. [ambros(ia) inc2.] A resinous mineral found in the phos-

phate-beds near Charleston, South Carolina, ambulacral, a. 2. Situated on the side which bears the ambulacra; hence, in Stelleroidea bears the ambulacra; hence, in Stelleroidea and Crinoidea, oral.—Ambulacral brush, in spatangoid sea-urchins, a structure consisting of an ordinary tube-foot of which the terminal disk is extraordinarily widened and carries a number of club-shaped or conical solid appendages, each supported by a calcareous rod. The brushes occur near the mouth and anus, and are said to play an important part in the taking in of food by stirring up the sand.—Ambulacral fields, the areas or divisions of the surface of an echinoderm which are covered by the ambulacra.—Ambulacral foot, one of the bollow adhesive locomotive organs of an echluoderm;



Longitudinal section through an ambulacral brush of a spatangoid (after Lovèn and Hamann). a, body epithelium; b, supporting mg-rod; c, supporting plate of the terminal disk; d, septa; c, canal of the water-vascular system; f, longitudinal muscles; g, nerve; A, circular muscle-fibers. Magnified. (Drawn from Lang's "Com-

fishes, or through the ambulacral platea in echinoids, for the passage of the canal which connects a tube-foot with its ampula.

n. Same as ambulacral ossicle or plate.

ambulance, n.— Veterinary ambulance, a substantial, heavy wagon with horizontal hottom and a false removable floor which can be rolled in and out, used for conveying invalid and disabled horses. The sides are high and are fitted with slings, etc.

ambulance-chaser (am'bū-lans-ehā'ser), n.

A person, either a lawyer or the agent of a

lawyer, who follows up eases of aeeident in the streets and tries to induce the injured person

to bring suit for damages. [Colloq.]

ambulancier (am-bū-lau-sēr'), n. [F. ambulancier, <ambulance.] An ambu-

lanee surgeon or attendant. [Rare.] Ambulatoria (am/bū-lā-tô'ri-ji), n.pl. [NL.] A group or suborder of orthopterous insects, corresponding to the Gressoria or walkers, and ineluding only the family Phasmidæ. See Gres-

Ambulatory school, in Sweden, a method of education resorted to on account of the sparse population of the country. See the extract.

country. See the extract.

In so aparsely populated a country the organization of education (which is both free and compulsory) is a special difficulty, which has been partly overcome by ambulatory schools, in which the teacher shifts his quarters twice a year or oftener within his district. The local management of education is part of the duties of the clergy, and this system seems to work without friction, though Sweden has her Nonconformists, perhaps because the latter are compelled to contribute to the support of the State Church.

Athenœum, March 18, 1905, p. 333.

ame (ä'må), n. [Jap. ame, a kind of jelly made of flour.] A form of glucose or starch sugar made in Japan by the action of barley malt upon rice paste. It is melted and molded into numerous fanciful shapes for sale.

amebic, a. See *amæbic.

amebic, a. See *amæbic. amebocyte, n. See *amæbocyte. ameed (a-mēd), v. t. [a-1 + meed.] To reward; recompense. J. Barlow, Columbiad, vii. 611. ameen (a-mēn'), n. [Ar. 'amin, faithful, trustworthy.] A person employed in a confidential capacity; a confidential servant or agent; an assistant; a bailiff, inspector, or intendant. [Anglo-Indian.]

Ameiurus, n. An earlier spelling of Andurus. Amelanchier (am-ē-lan'ki-èr), n. [NL. (Medicus, 1789), from Mespilus Amelanchier, the Linnean name of the rock-medlar.] A genus of ornamental dieotyledonous shrubs or trees belonging to the family Malaceæ and including about 12 species widely distributed in North America, Europe, northern Africa, and eastern America, Europe, northern Africa, and eastern and southwestern Asia. They have alternate, simple, entire or serrate leaves, and usually racemose, white flowers with persistent aspals and obovate-oblong or apatulate petals contracted at the base into slender claws. The fruit is small, globose or pyriform, with aweet and juley flesh. The rock-mediar of central Europe is Amelanchier Amelanchier. See service-berry, 3.

amelification (a-mel'i-i-kā'sloon), n. [amel + 1. feere of these makes]. In suphyrul, the form

L. -ficure, \(\frac{facere}{nake.}\)] In embryol., the formation of enamel in the developing tooth.

ameliorant (a -mēl'yo-rant), n. That which

ameliorant (a-mēl'yo-rant), n. ameliorates, betters, or improves.

amelioration, n.—Latentamelioration, unperceived progress due to natural causes, for example, increase of population and migration, which makes possible artificial annelioration through conscious effort. Ward, Dynamic Sociol., II. 200.

amelioblast (a-mel'ō-blåst), n. [amel + Gr. & Amerindian (am'e-rind"), n. and n. [A backformation from Amerindian for Americian Indian.] Same as *Amerindian (which see). The tribal fraternities of the Amerindian (which see).

An. Rep. Bur. Amer. Ethnol., 1897-98, p. xlviii.

amemasu (ä'mā-mä'sū), n. [Jap.] A Japanese

a tube-foot or tentacle.—Ambulacral pore, one of the openings between adjacent ambulacral ossicles in star-churches, usually at one side of the pulpit, where formerly sat the deacons who led the responsive 'amens' during the service.

amenomania, n. See omanomania.

Amentifloræ (a-men-ti-f-ō'rē), n. pl. [N1., < 1. amentum (see ament) + flos (flor-), a flower (see flower).] In phytogeog., the catkin-bearing division of the ecological group Stigmatica, consisting of Salix, Populus, and Betula.

amentulum (a-men'tū-lum), n.; pl. amentula (-la). [NL., dim. of amentum, ament.] male inflorescence of Sphagnum compared to a

diminutive catkin.

male inflorescence of Sphagnum compared to a diminntive catkin.

amenyl (am'en - il), n. The organic radical, C₅H₁₀, derived from amylene, C₅H₁₀.

American blight. See *blight.—American class, a group of domesticated fowls including those breeds which have originated in the United States. These are the Plymouth Rocks, wyandottes, javas, American doniniques, and Jeracy blues.—American *cockroach, *copper, *copper hind-wing, *dagger, *lappet, *locust, *pottery, etc. See the noms.—American Protective Association. See *protective. American Protective for the malar bones and nose, and a skin which ranges from almost white to dark reddish brown in color. While the types of South and Central America are not well known, six fundamental types may be distinguished in North America and northern Mexico: (1) the Arctic type: short, with long and high head, very wide and flat face, and narrow hose, and of light color; (2) the Northwestern type: of moderate stature, with short head, wide face, broad and flat nose, and of darker color; (3) the Missishipi Valley type: tall, with moderately elongated head, wide face, hroad and high hooked nose, and of reddish color; (4) the Southeastern type: very tall, with rounded and high head, wide face, and high hooked nose; (6) the Sonoran type: of moderate stature, with hong, rather low head, delicate face, and of dark color; (6) the Mexican type: of moderate asture, with short head, moderately heavy face, and of dark color. A number of subtypes of these may be distinguished.—American saw-fly. See *saw-fly.—American scale, in numis., a measure of one sixteenth of an inch, used for indicating the sizes of eoins.

American & Calerian & American as weigh. See *saw-fly.—American scale, in numis., a measure of one sixteenth of an inch, used for indicating the sizes of eoins.

Americana (a-mer-i-kā'nä), n. pl. [NL., neut. pl. of Americanus, American.] Books and papers relating to America, particularly to its early

history, geography, etc.

Americanism, n. 5. A name applied to a series of opinious at variance with the policy and practice of the Roman Catholic Church. supposed for a time to be held by some members of that church, especially in the United States, and condemned by Pope Leo XIII. in 1899 in an apostolical letter addressed to 1899 in an apostolical letter addressed to Cardinal Gibbons. The chief points were; that in order to attract those who differ from her the church should shape her teachings more in accord with the spirit of the age; that larger individual independence be allowed; that the church should relax some of her ancient severity and make concessions to new opinions; that points of teaching which are of minor importance be omitted and others toned down; that the monastic orders are out of date and their vows have no noral value; and that there should be a separation between church and state in all countries and under all conditions.

We are unable to give approval to these views which, in this collective sense, are called by some Americanism. But if by this name are to be understood certain endowments of mind which belong to the American people, just as other characteristics belong to various other nations, and moreover by it is intended your politic condition and the laws and customs by which you are governed, there is no reason to take exception to the name.

Pope Leo XIII. to Cardinal Gibbons, in Amer. Cath. Quar. Rev., April, 1899.

Americanistic (a-mer-i-kan-is'tik), a. Of or pertaining to an Americanist or to his science; carried on by Americanists: as, Americanistic research.

Americanitis (a-mer-i-kan-ī'tis), n. weening national conceit in citizens of the United States, especially when shown or expressed by vulgar brag or noisy braggadoeio.

The removal (from a thletics, etc.) of the real dishonor so often revealed by the disqualification of men tainted with professionalism, less perfervid Americanits at gamea and in celebrating victories, less newspaper exploitation, and a better regulation of the rapidly-growing pecuniary side of these speciacles—these yet remain to be accomplished.

G. S. Hall, Adolescence, 11. 411.

Ame loblast (a-mel 'ō-blast), n. [amel + Gr. β/ασσός, a gerin.] In embryol., same as *ada-mantoblast.

Amer. Rep. Bur. Amer. Etanol., 1891-98, p. Myll.

Amer. Amer. Amer. Etanol., 1891-98, p. Myll.

Amer.

freed from the ambiguous and false associations of *Indian* and *American Indian*, and serving the need of a comprehensive term covering all the aboriginal tribes and languages of North and South America. The word was adopted by Major Powell and other ethnologists at Washington in 1898, and has been much used since. The formation of the word much used since. The formation of the word is analogous with that of Eurasian, Eurasiatic, is analogous with that of Eurasian, Eurasiatic, amidoazobenzene (nm'i-dō-az-ō-ben'zōn), n. Eurafrican, etc., of addehydc, albronze, chloroform, danc, etc., of cosecant, cosine, eotangent, etc., and of innumerable names of genera in zoölogy and botany.] I. a. Amerian Indian, in the widest sense; of or pertaining to the aboriginal inhabitants of North and South America (the Amerinds) or their languages; Amerind.

The four worlds of widespread Amerindian mythology.

An. Rep. Eur. Amer. Ethnol., 1897-98, p. 835.

II. n. One of the aboriginal inhabitants of North and South America; an 'Indian' (without the ambignity of that term); a 'red man'; an Amerind

Amerindic (am-e-rin'dik), a. Amerindian in the most general sense, especially as applied to matters of ethnology or philology.

ameristic, a. 2. In bot., destitute of a meristem: applied to the prothalli of certain ferns which, being inadequately nourished, produce antheridia only.

Amerosporæ (am-e-ros'pō-rō), n. pl. [NL., ζ Gr. ά- priv. + μέρος, part, + σπορά, seed.] A name applied by Saccardo to artificial divisions of various families and orders of fungi, espeeially those of the Pyrenomyeetes and Fungi Imperfecti, to include the genera which have

amesial (a-me'si-al), a. [a-18 + mesial.] In biol., not median. A median or unpaired organ in a bilateral organism may be said to be amesial in origin if it arises by the union of two bilateral rudiments.

ametabole (a-me-tab'ō-lē), n. Direct development without metabole or metamorphosis.

amethenic (am-e-then'ik), a. Noting an acid, C₇H₁₄O₂, formed by the oxidation of diamylene. It is a liquid with weak acid properties. amethyst, n. 4. A trade-name for certain artificial dyes of the azine class, as tetramethyl softwith a with the transfer of the second of the safranine and tetra-amyl safranine.—Burnt amethyst, amethyst obtained by burning out the color of smoky quartz, which is occasionally combined with the amethystine quartz.

ametœcious (a-me-tē'shins), a. [Gr. à -priv. amin (am'in), n. Same as amine. + μ erà beyond, + oixog, house. Cf. metæcious.] aminic (a-min'ik), a. [amine + -ie.] Pertain-Not changing its host: applied to parasitie plants. Compare metæcious, heterecious, heteracious, heteraciou ecism.

amfibia, n. pl. A simplified spelling of am-

amfibian, a. and n. A simplified spelling of

amfibious, a. A simplified spelling of amphib-

Amharan (am-har'an), a. and n. Same as *Amharic. Geog. Jour. (R. G. S.), IX. 315.
Amharic, n. See *Abyssinian languages (a).

amic (am'ik), a. [um(ide) + -ie.] Having the properties of an amide and also of an acid: nsually employed in composition: as, oxamic acid, CO₂H.CONH₂. Same as amidic.

A. M. I. C. E. An abbreviation of Associate

Member of the Institute of Civil Engineers.

Amici's telescope. See *telescope.

amicrobic (a-mi-krō'bik), a. [a-18 + microbic.]

Not related to or caused by microbes: as, an

*aminoform (a-min'ō-fôrm), n. [amine + -form.]

Hexamethylene tetramine. Same as *cystogen, *urotropin, and *formin.

aminoglutaric (am*i-nō-glö-tar'ik), a. [amine + glutaric.]

Pertaining to glutamic acid in a amicrobic disease.

Amicrone unease.

Amicruræ (am*i-krö'rē), n. pl. [NL., ζ Gr.
a-priv. + μικρός, small, + ουρά, tail. Cf. Micruræ.] A group of Nemertini, belonging to
the family Lineidæ, characterized by the absence of a small filamentous tail: contrasted

with Micruræ. The group includes the genera Lineus and Euborlasia.

amidah (a-mé'dä), n. [Heb., \('amad, \) stand.]
The most solemn prayer in the Jewish liturgy, also known as the shemonah 'esra ('eighteen blessings'). It is repeated thrice daily, sotto vocc, while standing. The prayer is composed of eighteen short prayers and praises which treat principally of resurrection, the restoration of Jerusalem, and the coming of the Messiah. Nothing should disturb the plous worshiper while he is engaged in this prayer.

amide. n.—Amide nowder an explosive mixture con-

amide, n.—Amide powder, an explosive mixture consisting of nearly equal parts of ammonium nitrate and niter, with a small amount of charcoal.

amidize (am'i-diz), v. i.; pret. and pp. ami-

dized, ppr. amidizing. $[amid(e) + -ize^{1}]$ To treat cotton material (cellulose) with calcium chlorid and ammonia at a temperature of 100° C., in order to increase the affinity of the fiber

or, in order to increase the animity of the liber for basic colors: not widely used.

amidmost (a-mid'mōst), adv. and prep. [amid + -most.] In the very middle; in the midst of.

William Morris, Earthly Paradise, III. iv. 52.

amidoazobenzene (um*i-dō-az-ō-ben'zōn), n.

is unstable.

amidothiolactic (am/i-do-thi-o-lak'tik), a. Noting lactic acid which contains a thio (SH) and an amido (NH₂) group. Cysteïn (C₂H₃-(NH₂),(SH),COOH) is generally regarded as an acid of this order.

amidoxime (am-i-dok'sim), n. [amide + ax-ime.] The general name for a class of compounds formed by the union of a nitrile with hydroxyl amine. They have the general formula R-C(NII₂):NOH. The amidoximes are usually crystal-line but unstable compounds and have both basic and acid properties.

amidoxyl (am-i-dok'sil), n. [amide + ox(ygen) + yl.] The univalent group NHOH, as in isobutyric amidoxyt nitrile, (CH₃)₂C(NHOH)-CN, which is formed by the addition of hydroeyanic acid to acetoxime.

mperfect, to include the genera which mays unicellular globose or short cylindric hyaline or colored spores.

Americal (a-mē'si-al), a. [a-18 + mesial] In biol., not median. A median or unpaired A friend: used specifically, in the Philippine Islands, for a native who is not hostile to the United States.

Amiichthys (am-i-ik'this), n. [NL., $\langle Gr. \dot{a}\mu | a,$ a kind of tunny, $+ i\chi\theta i c$, fish.] A genns of small cardinal fishes, of the family Apogonidæ,

in Cuba.

amildar, n. Same as *amaldar.

amimetic (a-mi-met'ik), a. [a-18 + mimetic.]

Not mimetie: applied to animals, especially insects, which do not mimic or resemble other species in coloration or behavior.

amimia, n.—Amnesic amimia, loss of appreciation of the significance of gestures.—Ataxic amimia, aphasia with inability to make gestures.

Destains

genus of deep-sea shall-like Liparididæ.

Amitrinæ (am-i-trī'nē), n. pl. [NL., < Amitra + i-mæ.] A subfamily of Liparididæ, lacking ventral fins: typified by the genus Amitra (a-mik'si-ā), n. pl. [NL., < Gr. ἀμερία, < ἀμεκτος, unmingled, < ὁ- priv. + μεκτος, < μεγνύται, mix.] In biol., cessation of interbreeding between races or varieties.

amixis (a-mik'si-ā), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis), n. [NL., < d- priv. + μεξις, amixis (a-mik'sis

amino (am'i-nō), a. [Orig. combining form of amine.] Containing the group NH2: as, aminoacetic acid. The word is also used as a prefix or in eompound words with the same meaning. Often written, incorrectly, anndo.—Amino explosive, an explosive containing an amino compound, usually in the form of a nitrate, as the nitrate of aminoacetic acid, CH₂NH₂CO₂-H.HNO₃.

aminoazobenzene (am"i-nō-az-ō-ben'zēn), n. [amine + azo- + benzene.] A yellow crystalline eompound, C₆H₅N:NC₆H₄NH₂, formed by warming diazoaminobenzene with aniline hydrochlorid and aniline. Some of its derivatives are valuable dyes. Also ealled, less correctly, **amidoazobenzene.**

amidoazobenzene.**

of the neigrammatie-ny, Corydaus cornuta (Corydaus cornuta (Rhode Island.) [Rhode Island.] A. M. M. An abbreviation of Artium Mechanicarum Magister, Master of Mechanic Arts: a degree conferred by some institutions. **ammelide (am'e-lid), n. [ammel-in + -ide.] A monamide of cyanuric acid having the formula (CN)₃(OH)₂NH₂. It is formed from ammeline the proposal cornuta (Corydaus cornuta (Cornuta (Corn *amidoazobenzene.

nexamethylene tetramine. Same as *cystogen, *urotropin, and *formin.
aminoglutaric (am*i-nō-glō-tar'ik), a. [amine + glutaric.] Pertaining to glutamic acid in a relation indicated by the specific prefix.—Aminoglutaric acid a colorless, dextrorotatory compound, H00CCH(NH₂)CH₂CH₂COOII, prepared by the action of dilute sulphuric acid on certain constituents of wheat gluten. It crystallizes in trimetric tetrahedra, melts at 202° C., and is also called a aminoglutaric acid or a-glutamic acid.

with Micruræ. The group includes the genera aminolysis (am-i-nol'i-sis), n. [amine + Gr. Lineus and Euborlasia. λίσις, dissolving.] In chem., the decomposition of a substance when involving a taking up of

cinnabar.

ammodyte, n. 3. In bot., a plant growing habitually in sandy places.

ammonal (am'ō-nal), n. A high explosive mixture consisting of 3 parts of ammonium nitrate and 1 part of aluminium.

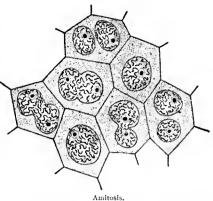
I. n. A sect of the Mennonites which arose in the 17th century in Switzerland, paged from Amish (am'ish or ä'mish), a. and n.

its leader, Jacob Amman. He insisted on the strict use of the ban, and went so far as to repudiate the use of buttons and shaving as things of the world. The Amish

Church in the United States numbers about 1,200 followers. They are also called *Hookers* from their use of hooks in their clothing.

Amishman (am'ish-or a'mish-man), n. [Amish + man.] A member of the Amish sect of the Mennonites. See *Amish.

amitosis (am-i-to'sis), n. [NL., < Gr. a-priv. +



Group of cells with amitotically dividing nuclei; ovarian follicular epithelium of the cockroach. (Wheeler.)

ίτος, thread, + -osis.] In cutol., direct celldivision, akinesis or karyostenosis, as opposed to the indirect form of division (mitosis, karyokinesis, which see): so called from the absence of thread-like figures in the nucleus.

amitotic (am-i-tot'ik), a. Exhibiting amitosis; relating to amitosis.

amitotically (am-i-tot'i-kal-i), adv. By amitosis or direct division of eells without prelim-

inary karyokinesis. Enege. Brit., XXXI. 514. Amitra (am'i-trä), n. [NL., ζGr. ἀμπτρος, without girdle or head-band, ζά-priv. + μίτρα, a girdle, a head-band: see miter.] A genus of deep-sea snail-fishes, of the family Liparididæ, lacking ventral fins.

Amitrichthys (am-i-trik'this), n. [NL., < Gr.

 $\frac{\dot{\alpha}\mu\tau\rho_{0}c_{s}}{\mu\tau\rho_{0}c_{s}}$, without girdle, $+i\chi\theta'_{1}c_{s}$, fish.] A subgenus of deep-sea snail-fishes of the family

amixis (a-mik'sis), n. [NL., ⟨ à- priv. + μιξις, mingling.] Same as *amixia.

When we reflect that species extinct elsewhere must have survived locally, and add to these those local forms which owe their origin to amizis, we cease to be astonished at the enormous number of species of Lepidoptera which we find on the earth at the present day.

Eimer (trans.), Organic Evolution, p. 131.

amly (am'li), n. [Origin unknown.] 'The larva of the hellgrammite-fly, Corydalis cornuta (Co-

by heating the latter with sulphuric acid. Also called melanurenic acid.

ammeline (am'e-lin), n. [Metathetic form of melamine.] The diamide, (CN)₃OH(NH₂)₂ of cyanuric acid. It forms microscopic needles which are very difficultly soluble in water. It is a weak base.

ammine (am'in), n. See metal-ammonia com-

pounds, under **ammonia.
ammiolite (am'i-ō-līt), n. [Gr. ἀμμιον, cinnabar in its sandy state (〈 ἀμμος, sand), + λίθος, stone.] A mineral from mines in Chile, earthy in texture and of a red color: supposed to be an impure antimoniate of copper mixed with

ammonia, n. The great value of ammonia as a fertilizer, chiefly in the form of ammonium sulphate, renders the question of its supply on a large scale one of much importance. Until recent years it was obtained mainly from the watery ammoniased liquor which is a by-product of the manufacture of coal-gas for illuminating purposes.

This source of supply has been seriously threatened by the extension, especially in the United States, of the use of carbureted water-gas, in making which little or no ammonia la obtained. Notable improvements, however, have been made in methods for the recovery of ammonia from the waste gases of coke-overs, shale-works, and blast-furnsees, and very considerable amounts are now obtained from these previously neglected sources. One of the most interesting, results secured with the aid of the obtained from these previously neglected sources. One of the most interesting results accured with the aid of the high temperature of the modern electric furnace is the synthetical production of animonia from the nitrogen of atmospheric air and the hydrogen of water. Carbon in the form of coke is mixed with lime and the mixture inthe form of coke is mixed with lime and the mixture intensely heated in the presence of atmospheric nitrogen, giving rise to carbon-monoxid gas and calcium cyanamide (CaCN₂). The latter, heated with water under pressure, yields calcium carbonate and ammonia (CaCN₂ + 3H₂O = CaCO₃ + 2NH₃). It appears that cyanamide itself may serve, when used directly as a fertilizer, to furnish assimilable nitrogen to growing plants.—Albuminotid ammonia, the ammonia formed by the decomposition of organic matter when water, sewage, or other aubstances are distilled with an alkaline solution of potassium permanguants. The determination of albuminoid minoid ammonia, the amnonis formed by the decomposition of organic matter when water, sewage, or other ambstances are distilled with an alkaline solution of potassium permanganate. The determination of albuminoid ammonia is used to secure information as to the amonot of nitrogenous organic matter in potable waters or in sewage.—Ammonia coil, in refrigeration, a special kind of gas-piping bent into a coil and used in conveying and cooling ammooia.—Ammonia comenser, a large coil of pipe built up with the proper fittings, used in cooling and condensing hot ammonia gas as it comes from the compressor. Two types are in use. In one, called a surface condenser, the gas passes through the coil while coid water flows in a film over the outside surface of the pipes. In the other, called a pipe condenser, double pipes, one within the other, are built up as a coil, the ammonia gas traveling through the smaller inside pipe and the coid water flowing in the opposite direction through the larger pipe, cooling the ammonia gas and condensing it to a liquid which, when allowed to expand, may be used in making ice or cooling a cold-storage plant.—Ammonia, fittings, couplings, elbows, tees, and other pipe-fittings of special shape, size, and weight adapted to pipes used in conveying ammonia as a liquid or a gas. See *pipe-fitting.—Ammonia-nitrate proceas. See *process.—Ammonia-soda proceas, the chief method by which at present carbonate of soda is made from common sait. Its essential feature is the action of summonia and carbon type, in chem., the structure characteristic of the molecule of ammonia and analogous compounds, an atom of nitrogen or some other triad element united to three monad atoms or radicals of electropositive character. Thus trimethylamine, N(CH₃)₃, and tri-ethylphosphine, P(C₂-H₃)₃, are compounds of the ammonia type.—Aqua ammonia cammonia and ammonia proceas. See *process.—Minemana and ammonia proceas. See *process.—Minemana and ammonia compounds, in chem., a large and comulex actios of substances for as a fixing agent for certain metalic mordants.—Mercuric chlorid and ammonia process. See *process.

—Metal-ammonia compounds, in chem., a large and complex aeries of substances formed by the union of ammonia in different proportions with the salis of certain metals, as platinum, cobalt, and copper, new compound radicals being thus produced. The term ammine (not to be confounded with amine) has been proposed for these substances. for these substances.

ammoniater (a-mō'ni-ā-ter), n. [*ammoniate, r. (\(ammonia \), + -er1.] A substance which supplies ammonia to a compound fertilizer.

ammonioplatinic (a-mo"ni-ō-pla-tin'ik), a. Derived from ammonium and platinum.—Ammonipplatinic chlorid, ammonium chloroplatinate (NH₄)₂PtCl₆, the double chlorid of platinum and ammonium: a sparingly soluble yellow crystalline precipitate often used as the form in which to determine, in chemical analysis, ammonia or its constituent nitrogen.

ammonite² (am'o-nit), n. [ammon(ium) + -ite².] A name applied to certain explosive materials, patented by Favier, containing ammonium nitrate with other substances, chiefly nitro- or dinitro-naphthalene.

ammoniticone (am-mō-nit'i-kōn), n. and a. [Ammonites + cone.] I. n. A cone-shaped shell coiled in one plane, as in an ammonite; the shell of an ammonite, ceratite, or gonia-

a. Having a close-coiled symmetrical

shell as the ammonoid cephalopods.

ammonitiform (am-ō-nit'i-form), a. [NL. ammonites, ammonite, + L. forma, form.]

Resembling an ammonite in shape, as the young of certain Gusteropoda.

ammonitoid (a-mon'i-toid), a. and n. [ammo-

nit(e) + -oid.] I. a. Related or belonging to the ammonites or Ammonoidea; resembling an ammonite. Zittel (trans.), Textbook of Paleon., I. 547.

II. n. An ammonite (which see) or amomnoid.

ammonium, n.—Ammonium bichromate, ammonium pyrochromate (NH₄)₂Cr₂O₇). By heating this sait nitrogen gas may be obtained, in accordance with the reaction (NH₄)₂Cr₂O₇ - Cr₂O₃ + 4H₂O + N₂.—Ammonium carbonate, (NH₄)₂CO₃, a commercial sait valuable in wool-scouring and also used in medicinand in common smelling-saits.—Ammonium chlorid, aal ammoniac, NH₄Cl. It is usually prepared from ammonium sniphate by heating with common salt, the ammonium chlorid subliming, and is used to some extent in the exciting fluid of the Leclanché galvanic cell, in the production of mordants, etc. It is obtained on a in the production of mordants, etc. It is obtained on a great scale as a by-product of the Solvay or ammonia

process for making soda from common salt—in this case used to recover ammonis, which is again applied in a renewal of the process.—Ammonium chloroplatinate. See *ammonioplatinic chlorid.—Ammonium hydrate. See *ammonioplatinic chlorid.—Ammonium hydroxid, in chem., the form in which ammonia is assumed to exist when dissolved in water, NH4HO, resulting from the action of NH3 and H2O upon each other. The solution, the ordinary liquid ammonia of conmerce, behaves in many respects like the solution of canstic soda (NHO) or caustic potash (KHO), but decomposes, on being heated, into pascous ammonia and water. Recent investigations of the physical properties of the solution make it very doubtful whether the hydroxid has any real existence. Often improperly called ammonium hydrate.—Ammonium magneaium phosphate, in chem., a slightly soluble crystalline salt (NH4M2PO4.6H3O) frequently resorted to in chemical analysis as the form in which to separate magnesium from other substances. It is often met with as a constituent of urinary calculi.—Ammonium mitrate, in chem., the salt formed by the union of ammonia and nitric acid (NH3+HNO3=NH4,NO3), chiefly noteworthy as the source from which, by cautionsly heating it somewhat above its melting-point, nitrogen monoxid or nitrous oxid, the so-called laughing-gas, is prepared for use as a gaseous anesthetic, most commonly by dentists.—Ammonium persulphate, a salt ((NH3)SSO8) sparingly used in the development of phois prepared for use as a gaseous anesthetic, most commonly by dentists.—Ammonium persulphate, a salt ((NH₂)eS₂O₂) sparingly used in the development of photographic pictures.—Ammonium phosphomolybdate, in chem., a salt of the composition (NH₄)₂PO₄+12MoO₃, appearing as a bright-yellow crystalline precipitate insoluble in a nitric-acid solution of ammonium molybdate. It is very commonly used in analytical processes as the form in which to separate the radical of orthophosphoric acid, for the determination of this radical or phosphoric acid, for the determination of this radical or of the phosphorns it contains, and is of great value in connection with the analysis of fertilizers and of steel.

—Ammonium picrate, a substance crystallizing in bright-yellow needles, burning on the application of fame, but exploding by shock less easily than other picrates: used in the preparation of Brugère's and Abel's powders. —Ammonium platinochlorid. Same as *ammonioplatinic chlorid.—Ammonium sulphate, in chem., the salt formed by the union of ammonia and sulphuric acid (2NH₂, HeSo₄ = (NH₄, NSo₄). It is prepared on a larger scale than any other ammonium salt, chiefly for use as a fertilizer or an ingredient of mixed fertilizers. See *ammonia.—Metal-ammonium compounds, in chem., substances in which a metal may be viewed as replacing part or all of the hydrogen of the radical ammonium: as, dimercurammonium chlorid, NH₂Cl, which may be considered as ammonium chlorid, NH₂Cl, which may be considered as ammonium chlorid, NH₂Cl, with the 4 atoms of monad hydrogen replaced by 2 atoms of dyad mercury. 2 atoms of dyad mercury.

ammono-acid (a-mo"no-as'id), n. A compound which in solution in liquid ammonia conducts itself in a manner analogous to the conduct of ordinary acids in water: as, acetamide, CH₃-CONH₂, which reacts with the ammono-base, KNH₂, giving potassium acetamide, CH₃-CONHK, and ammonia.

ammono-base (a-mō'nō-bās"), n. A compound which conducts itself in a solution in liquid ammonia as an ordinary base conducts itself in aqueous solution and which contains the group -NH2 in place of the hydroxyl, OH, of an ordinary base: as, potassium amide, KNH2.

ammono-basic (a-mō-nō-bā'sik), a. Designating a compound related to an ammono-salt in a manner analogous to the relation of a basic salt to the salt from which it is derived: that is, an ammono-salt in which a part of the acid groups have been replaced by NH2 as OH replaces acid groups in the formation of ordinary basic salts.

ammonoid, n. II. a. Pertaining to or having the characteristics of the Ammonoidea. ammonol (am'ō-nōl), n. The trade-name of a

ammonol (am'ō-nōl), n. The trado-name of a remedy said to consist of acetanilid, sodium bicarbonate, and ammonium carbonate. It is

antipyretic and analgesic.
ammonolysis (am-ō-nol'i-sis), n. The decomposition of an ammono-salt in liquid ammonia in a manner analogous to the hydrolysis of salts in water.

ammono-salt (a-mo'no-salt'), n. A compound formed together with ammonia by the action of an ammono-acid on an ammono-base in a solution in liquid ammonia.

Ammon's horn. Same as cornu Ammonis. ammotherapy (am-ō-ther'a-pi), n. [Gr. ἀμμος, sand, + θεραπεία, medical treatment.] The employment of sand-baths in the treatment of disease.

ammunition-conveyer (am - ū - nish ' on - kon-vā "èr), n. In a man-of-war, a mechanical appliance, moved by power, for transporting ammunition horizontally from the magazines to the bottom of the ammunition-hoists.

ammunition-hoist (am-\(\bar{\pi}\)-nish'on-hoist), n. mechanical contrivance, worked by hand or power, by means of which ammunition is lifted from the magazines or passages in the lower parts of a war-ship and delivered in the vicinity of the guns, or on the decks upon which they are placed.

ammunition-passage (am-ū-nish'on-pas *āj), n. A passage arranged in the lower parts

of a war-ship, beneath the protective deck, through which ammunition is transported from the magazines to the places from which it is

sent up through the decks to the guns above.

ammunition-room (am-ū-nish'on-rom), n.

Any compartment on a war-ship in which ammunition is stored for use: usually made water-tight and provided with means for flooding with water in case of fire on board. The term includes magazines, shell-rooms, and fixedammunition rooms.

ammunition-scuttle (am-ū-nish'on-skut"1), n. In a man-of-war, a scuttle in a deck or in the bulkhead of a magazine through which ammunition is passed on its way to the guns. scuttle2, n., 1.

Amnemonic agraphia. See *agraphia. amnesia, n.— Auditory amnesia, word-deafnesa. Amnesic amimia. See *amimia.

Amnesic amimia. See *amimia.

Amnigenia (am-mi-je'ni-ä), n. [NL., < L. amnis, a river. + -genus, -born.] A genus of extinct pelecypod mollusks or clams allied to the family Unionidæ and believed to be of freshor brackish-water habitat. Amnigenia Catskill-ensis is a characteristic fossil in the brackish-water Oneonta sandatones lying at the base of the Catskill formation. amnio-allantoic (am/ni-ō-al-an-tō'ik), a, Concerning or pertaining to the presence of an amnion and an allantois.

amnion, n. 5. In echinoderms, the sac in the pluteus larva inclosing the developing echinus.

—True amnion, the inner of the two embryonic envelops in reptiles, birds, and manumals, as opposed to the outer or false amnion.

amniote (am'ni-ot), a. and n. [NL. amniotus, amnion, amnion.] I. a. Possessing an amnion; amniotic.

n. A member of the Amniota. 11. n. A member of the Amniota.

Amniotle band, a cord-like formation on the inner surface
of the amnion, sometimes constricting a limb of the
fetus.—Amniotle cord, in ruminants, a band of tissue
persisting for a time after the closure of the amnion
and chorion, and connecting these two structures.—Amniotle dropsy. See *dropsy.
amniotitis (am*ni-ō-ti*tis), n. [Nl., irreg. (after anniote) < Gr. auviov, amnion, + -itis.] In-

flammation of the amnion.

Amœba coli or dyaenteriæ, an amœboid organism believed to be causative of one form of dysenter

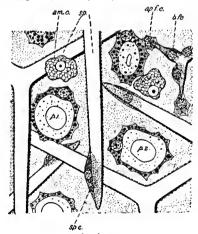
amœbiasis (a-mē-bi-ā'sis), Morbid condition in duced by the presence of amœbæ.

amæbic (a-mē'bik), [amaba + -ie.] Of, pertaining to, or characterized by

ing to, or characterized by the presence of amæbæ. Also amæbic.— Amæbic coling, inflammation of the large intestine caused by the presence of Amæba coli or dysenteriæ; amæbie dysentery, Jour, Exper, Med., VI. 167.—Amæbic dysentery, Amæbacoli. (Magnified.) a form of dysentery due to the presence of Amæba coli or dysenteriæ in the intestine. See dysentery. Jour, Exper, Med., VI. 89.

Amæbida (a-mē'bi-dä), n. pl. [NL., < Amæba + ida.] An order of Rhizopoda. They have lobose psendopodia, are with or without a shell, have one or more nuclei, and usually have a contractile vacuole. It includes the families Amæbidæ, Arcellidæ, and Euglyphidæ.

amœbocyte (a-mē'bō-sīt), n. [NL. amæba +



Amæbocytes. Body wall of Clathrina coriscea, Month, seen from the inside in the region of the oscular rim, showing pores (p, 1, p, 2)—the collarcells removed to show the underlying parentynna, ame, amobocyte; ap(p,c), apical formative cell; $b_1 c_1$, basal formative cell; $b_2 c_2$, spicule cell, or scleroblast. (From Lankester's "Zoölogy".

Gr. Altoc, a hollow (a cell).] An amoboid cell or corpuscle, usually of rounded or lobose shape (frequently packed with granules or sometimes with particles of pigment), found everywhere among the cells and tissues and in the cavities of various invertebrate animals. Buth cells are known also, from their vagrant habits, as wandering cells. In some organisms, as sponges, they give rise to the genital products, and they are also probably concerned with the functions of nutrition and excretion. Also spelled amelocyte.

amebocytogenous (a-mē'bō-sī-toj'e-nus), a. [NL., < amaba + Gr. &roc, a hollow (a cell), + ->vvg, -producing.] In pathot., relating to or producing ama-bocytes.

Amœbogeniæ (a-mē-bō-jen'i-ē), n. pl. [NL., < amæba + -genns, producing.] A group of Sporozoa having amæboid sporozoites: equiva-

lent to Muxosporidia.

Amæbosporidia (a-mē"bō-spō-rid'i-ä), n. pl. [NL., ζ amæba + Gr. $\sigma\pi \circ \rho \sigma$, seed, $\dot{\tau}$ -idia.] A group of Gregarinida which have a multinucleate amœboid form and increase by direct division or by falciform young coming from spores. They are found in the Malpighian tubules of some beetles. Same as *Schizogregarinæ.

amok (ā'mok), a. and n. [Malay āmok, āmoq, pron. ā'mok or ā'mēh: see amuck.] I. a. Same as amuck (but a form nearer the original).

See amuck.

II. n. An affray in which one or more persons (Malays) run amnek. See the quotation.

An annok took place last night, by a Malay, which resulted in the loss of his own life and the wounding of 16 nersons.

[NL, ⟨Gr. ἀμορφος, shapeless.] In teratol., a

amok (ä'mōk), r. i. To run amuck (which see). amora (a mox), r. r. 10 run amuck (which see).
amora (a-mō'rā), n.; pl. amoraim (am-ō-rā'im).
[Heb. 'amora, expounder, < Heb. Aram. 'amar,
say, speak.] 1. An officer who stood beside
a public teacher or lecturer and announced in a public teacher or lecturer and announced in a loud voice, in popular language, what the teacher had just uttered in a low voice in academic language: otherwise called 'translator' or 'interpreter.'—2. One of the expounders of the Mishnah, successors of the tannaim. The Mishnah, successors of the tannaim. The successors of the tannaim. The language of the most of the tannaim. The language of the most of the tannaim. The language of the most of t the Mishnah, successors of the tannaim. The expositions of these rabbis and the Mishnah constitute the oral law called *Talmud*. The period of the amoraim began after the death of Rabbi Judah ha. Nasi (the Prince Judah), about 200 A. D., and extended to about 500 A. D.

amoral (ä-mor'al), a. [a-18 + moral.] Devoid of moral quality; neither moral nor immoral; non-moral. R. L. Stevenson, in Longman's Mag., I. 70. N. E. D.

phous, Amorgan (a-môr'gan), a. [L. Amorgus, Amorgos, ζ Gr. 'Αμοργός.] Of or pertaining to Amorgos, one of the Cyclades, a group of islands in the Ægean Sea, or to an ancient civilization, preceding that of Mycenæ, shown by numerous remains which have been found by recent ex-Cavators. Amorgos is noted as the residence of the Greek poet Simonides (7th century B. C.) and for the production in ancient times of a very fine kind of flax which was woven into garments and dyed red.

Amorgian (a-môr'gi-an), a. Same as Amorgan. electrical current measured in amprovaments (am'ō-rizm), n. [L. amor, love, + ampere-balance (am-pār'bal"ans), n. An instrument for measuring electric currents by amatory intrigue; gallantry.

Full of the romance and colour and sparkle of that curious life—half old-world Spanish, half topsy-turvy Oriental in its fatalism and passionate amorism—which was to be found in California.

Athenæum, Jan. 17, 1903, p. 77.

amorist, n. 2. One who is given to writing love-sonnets or -songs.

The Angel determines all conceptions of the poet, who is imagined as a mild and amiable amorist.

Athenæum, April 1, 1905, p. 390.

amoristic (am-ō-ris'tik), α. [amorist + -ic.] Amatory. The Academy, April 9, 1881. Amorphophallus (a-mor-fō-fal'us), n. [NL., ζ Gr. ἀμορφος, shapeless, + φαλλος, phallus.] A giant plant of the family Araeeæ from the eastern tropics, grown as a curiosity in hothouses. It has immense spathes containing many ill-smelling flowers. The three most commonly cultivated species are A. Rivieri (commonly called *devil's-tongue), A. campanulatus, and A. giganteus. See cut in next

amorphophyte (a-môr'fō-fīt), n. [Gr. ἀμορφος, shapeless, + φυτόν, a plant.] A plant with flowers of irregular or anomalous form. Necker. amorphose (a-môr'fōs), a. Amorphous. [Rare.]



Amorphophallus campanulatus.
(After figure in Engler and Prantl's "Pflanzenfamilien,")

amorphozoary (a-môr-fō-zō'ā-ri), n. [Gr. αμορφος, formless, + NL. zoarium, q. v.] An irregular or shapeless animal growth, as a

mole or shapeless monster.

amortisseur (ä-môr-ti-sêr'). n. [F., \(amortir, \) deaden: see amortize.] In elect., an induction meter secondary winding located in the polefaces of the magnet-field of electric machines

amotion, n. 3. In law: (a) An unlawful taking amphibolization (am/fi-bol-i-zā'shon), n. [amof chattels. (b) The act of turning out an owner of an estate in land before the termination of his estate. (c) In corporations, removal of an efficial of a corporation before the expiration of the term for which he was appointed.

Mag., 1. 70. N. E. D.

amorfous, a. A simplified spelling of amorphous.

Amorgan (a-môr'gan), a. [L. Amorgus, Amorphous of Hooker and Thomas of Hooker and T (Melodorum fulgens of Hooker and Thompson), a large woody climber or small tree of the custard-apple family, having tawny-orange colored flowers and pod-like fruit inclosing a number of cinnamon-colored, somewhat aromatic seeds, which are administered medicinally in the Philippines under the name of grains of paradisc.

The material employed, and the simple form of the vase, seem to show that it belongs to the later praeMycenean or Amorgan period.

A. J. Evans, in Jour. Hell. Studies, XVII. 350.

Sample a Morgan.

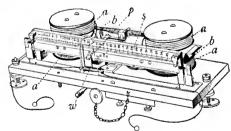
A. J. Evans, in Jour. Hell. Studies, XVII. 350.

Sample a Morgan.

Sample a Morgan.

Sample a Morgan.

Ampeliaaceous (am. paráj), n. The strength electrical current measured in amperes. ampelidaceous (am-pel-i-dā'shius), a. [NL. Ampelidace(x) + -ous.] Belonging to the Ampelidacex (that is, the Vitacex) or vine family. amperage (am-pār'āj), n. The strength of an



Ampere-balance. Ampere-balance. a, a, fixed coils, between which are moving coils, <math>b, b, b fought to a balance by sliding weight, w, on which is index, p, indicating on scale, s.

means of the attraction between a fixed coil, through which the current flows, and a movable balanced coil which forms a part of the same circuit.

ampere-hour (am-par'our), n. In elect., a unit of quantity, the electricity transferred by a current of one ampere in one hour. It is equal to 3,600 eoulombs.

Ampère's frame, rule. See *frame, *rule. ampere-turns (am-pār'ternz"), n. pl. A measure of the magnetizing power, or magnetomotive force, of a current of electricity in a conducting-coil, equal to the product of a number of turns in the coil by the current (in am-

peres) passing through it. ampharkyochrome (am -fär'ki - δ - krōm), n. [Gr. $\delta \mu \phi_i$, on both sides, + $\delta \mu \phi_i \psi_i$, net, + $\chi \rho \phi_i \mu a$, color.] In neurol., a cell in which the nodal points of the nucleus are connected by

deeply staining bands or bridges.

ampheclexis (amf-ek-lek'sis), n. [Irreg. < Gr. implections (ami-ex-lex sis), n. [1 reg. C.Gr. aμφί, on both sides, + ἐκετεξις, selection: see eclectic.] Sexual selection on the part of both male and female. Compare *gynectexis and *andreclexis. Ward, Pure Sociol., p. 361.

amphiaster, n. 3. [l.c.] A sponge-spicule eonsisting of a straight axis with a whorl of

rays near each end.

rays near each end.

amphibia, n. pl., 2. Boulinger divides the Amphibia into four orders, Stegocephalia, Apoda, Caudata, and Ecaudata, the last three being the same as the Gymnophiona, Urodela, and Anura of other writers, but bearing the names originally applied to them. Recent researches emphasize the distinctness of the Stegocephalia and show that they approach reptiles in some structural features. On this account it has been proposed by Seeley to place the two in one class, while Credner would unite the Stegocephalia with the Rhynchocephalia. The order Stegocephalia is variously divided into from 2 to 5 suborders, mainly on characters furnished by the vertebræ.

An amphibichnite (am/fi-bik/nīt), n. [Irreg. \langle as a Gr. $a\mu\phi\beta loc_{\ell}$, amphibious, $+i\chi\nu\sigma_{\ell}$, track: see ichnite.] A fossil marked by tracks of am-

phibia.

amphibole, n.—Soda amphibole, a variety of amphi-bole, or a species of the amphibole group, characterized by the presence of sodium as a prominent constituent; the species riebeckite, glaucophane, arrivedsonite, and barkevikite belong here.

amphibolic1, a. 2. Ambiguous; of a doubt-

phibotize + -ation.] In geol., the metamorphic process by which minerals of the amphibole group are produced in rocks by the alteration of other minerals.

amphibrachic (am-fi-brak'ik), a. [amphibrach + ic.] Of or pertaining to the amphibrach; eharacterized by amphibrachs. Scripture, Elements of Experimental Phonetics, p. 510.

amphicarpium (am-fi-kär'pi-um), n.; pl. amphicarpia (-ä). [NL., < Gr. aμφί, on both sides, + καρπός, fruit.] In bot., an archegonium that persists after fertilization as a fruit-envelop.

amphicarpogenous (am-fi-kär-poj'e-nus), a. [Gr. ἀμφί, on both sides, + καρπός, fruit, + -γενής, -producing.] In bot.ι developing the fruit above ground and subsequently burying it, as the peanut.

Amphicerus (am-fis'e-rus), n. [NL. (Le Conte, 1861), ζ Gr. ἀμφικερως, two-horned.] A genus of bostrychid beetles peculiar to North Amer-

of Dostryenia beeties peculiar to North America. A. bicaudatus is known in the United States as the apple-twig horer. It frequently injures apple-orchards by boring into the small twigs and causing them to break off. It also injures the canes of the grapes.

Amphichelydia (am' fi-ke-lid'i-ä), n. pl. [NL., ⟨Gr. ἀμφί, on both sides, + χέλνς (stem χελν-, assumed to be χελνδ-), a tortoise.] A name introduced by Lydekker and redefined by Baur as a suborder to include fosfined by Baur as a suborder to include fossil turtles or chelonians having free nasals, a squamosoparietal arch, pelvis not ankylosed to the earapaee or plastron, and an intergular shield. At present it embraces only a single family, the *Pleurosternidæ*, containing several generalized forms from the Jurassic, Cretaceons, and Tertiary rocks.

amphicondylous (am-fi-kon'di-lus), a. in the diagram of th

amphicotyledon (am"fi-kot-i-lē'don), n. [NL.. ⟨ Gr. ἀμϕi, on both sides, + NL. cotyledon.] The eotyledons when united so as to form a

De Vries.

amphicreatinine (am-fi-krē-at'i-niu), n. [amphi-+crcatininc.] A base, C₈H₁₉N₇O₄, found in small amount in lean meat. It forms brightyellow crystals and resembles creatine in its properties.

amphictyonian (am-fik-ti-ō'ni-an), a, Same as amphictuonic

Amphicyonidæ (am'fi-si-on'i-dē), n. pl. [NL., \(Amphicyon + -idæ. \)] A family of Carnicoru in which the characters of the teeth and base of skull are those of the dogs, while the strueture of the limbs and the plantigrade feet are like those of the bears: found in the Tertiary rocks of North America, Enrope, and Asia.

amphidepula (am-fi-dep'ū-lā), n.; pl. amphidepulæ (-lē). [amphi- + depula.] In embryol., a phase of the metadepula stage characteristic of the eyelostomes, ganoids, Inpuoi,

and Amphibia ameng vertebrates. Hacckel.

amphidesmous (am-fi-des'mus), a. [Gr. ἀμφί, on both sides, + δεσμός, a band.] Having a

on both sides, + σεσμος, a band.] Having a ligament on each side.

amphidetic (am-fi-det'ik), a. [Gr. ἀμφί, on both sides, + *δετός, bound, 〈 δεῖν, bind.] In the pelecypod mollusks, extending on both sides of the beak: noting a type of ligament.

amphidetic meanure with the ligament had

amphidetic manner; with the ligament on both sides of the beak, as in some mollusks.

Amphidiscophora (am*fi-dis-kof'ō-rä), n. pl. [NL., < *amphidiscus, amphidisk, + Gr. -φορος, < φέρειν, bear.] An order of lyssaeine, hexactinellidan sponges having amplidisks always present in the limiting membranes and no hexfamily Hyaloncmatidæ,

amphidiscophoran (am/fi-dis-kof'o-ran), a. and n. I. a. Pertaining to or having the characteristics of the Amphidiscophora.

II. n. Any member of the Amphidiscophora.

Amphidozotherium (am*ħ-dō-zō-thē'ri-um),
n. [NL., appar. a misprint for *Amphidozotherium, ζ Gr. ἀμφίδοξος neertain, + θηρίον,
a wild beast.] A genus of fossil moles from
the Tertiary phospherites of Quercy, France,
snpposed to be allied to the existing Urotrichus
of Japan and North America.

amphidromic (am-fi-drom'ik), a. [Gr. ἀμφίδρομος grunning around: see amphidromia.] Per-II. n. Any member of the Amphidiscophora.

μος, running around: see amphidromia.] Pertaining to cotidal lines arranged radially about a no-tide point.

amphigean, a. 3. In bot., bearing flowers from a rootstock.

amphigenetic (am' fi-jē-net'ik), a. [Gr. ἀμφί, on both sides. + genetic.] By means of both sexes. Amphigenetic reproduction is sexual reproduction.

Amphigenia (am-fi-je'ni-ii), n. [NL.: see amphigenous.] A genus of extinct brachio-pods belonging to the family Pentameridæ. The shells are of large size, and the ventral valve has a small spondylium or pediele-pit resting on a very short vertical septum.

These shells abounded in Devonian seas. Amphigenia

amphigenic (am-fi-jen'ik), a. [Gr. αμφιγενής, of both kinds, +-ie.] In petroy., a term applied to sedimentary rocks which are partly of organic and partly of inorganic origin, such as numerous silicious and ealcareous deep-sea deposits. Also amphoyenic.

amphigenite (am-fij'o-nit), n. [amphigene + -ite².] In petrog., a name sometimes given, especially in France and Italy, to igneous rocks rich in leneite.

amphigonia (am-fi-gō'ni-ä), n. [NL.] Same

amphigonia (am-n-go m-a), n. [NL.] same as amphigonic heredity. See *heredity.

Amphigonium (am-fi-gō'ni-um), n.; pl. amphigonia (-ä). [NL., ⟨Gr. ἀuφί, on both sides, + γύνος, generation.] That stage of the malarial parasite which is passed in the mosquito. Grassi. Compare *monogonium.

amphilepsis (am-fi-lep'sis), n. [N1... \langle Gr. appir on both sides, $+ \lambda \bar{\eta} \psi u_c$, a taking, $\langle \lambda a \beta \bar{e} v_c \rangle$ take.] The transmission to an offspring and to its descendants of characteristics of both The transmission to an offspring and parents: contrasted with *monolepsis.

amphimesodichotriæne (am-fi-mes-ō-di-kō-trī'ēn), u. [Gr. ἀμφί, at both ends, + μίσος, middle, + δίχα, in two, + τρίαινα, a trident.] In the nomenelature of the spicular elements of sponges, a form of triæne having a thick shaft or rhabd from near the middle of which arise symmetric sets of branches by threes. It is derived from the tetraxial type of spicular structure. Also called umphiaster. See *amphiaster, 3, and sponge-spicule.
amphimixis (am-fi-mik'sis), n.

 $\dot{a}\mu\dot{\phi}i$, on both sides, $+\mu i\xi i c$, a mingling.] In biol., the mingling of the hereditary tendencies of the two parents in sexual reproduction, considered abstractly, as distinct from amphigony or the reproductive process.

Although the study of heredity is greatly complicated by amphimizis, this mingling of the hereditary tendencies of two parents, and even the process of sexual reproduction which accompanies it, afford us a much deeper insight into the process of heredity than we could ever have obtained in any other way.

Weismann (trans.), Germ-plason, p. 21.

racial division of mankind.

II. n. A member of the Amphinesian race.

Amphineura, n. pl. 2. A class or order of marine Mollineura.

They have a bilaterally symmetrical clongated body, with terminal month and amis; the shell either lacking or consisting of 8 median pieces; mantle not divided into paired lobes; ctenidia absent or variously arranged; and the odontophore either present or lacking. The class includes the Chitonidæ, Neomeniidæ, and Chætodermatidæ.

amphineurous (am-fi-nū'rus), a. [Gr. ἀμφί, on both sides, + νεῦρον, sinew, nerve.] Having two lateral and two ventral nerve-cords, as the chitons; having the characteristics of the

the chitons; having the characteristics of the

Amphineura.

amphiodont (am'fi-ō-dont), a. [Gr. ἀμφί, on both sides, + ὁδούς, tooth.] In entom., having both sides, + odove, tooth.] In entom., having the dentition of the jaws intermediate between the teleodont and priodont forms: applied to eertain stag-beetles of the family Lucanidæ. amphicecious (am-fi-ê shus), a. [Gr. ἀμοί, on both sides, + οἰκος, a dwelling.] In ichth., eapable of living in either salt or fresh water. Amphion (am-fi'on), n. [NL., \ \Gr. \ \Au\varphi\) a name in poetic myth.] A generic name introduced by Pander for trilobites characterized by their bread and short cephalon, 15 to 18 thoracie segments, and pygidial ribs extended into spines. These trilobites are of Silurian age.

amphiont (am'fi-ont), n. [Gr. ἀμοί, en both sides, + ον (οιτ-), a being.] A zygospore or speront formed by the union of two individuals: specifically applied to one of the two stages of alternation of generations in the life-history of Coccidia. Hacckel. Compare

*monont.

amphiex (am'fi-oks), u. [Gr. $\dot{a}\mu\phi i$, at both ends, $+\dot{\phi}\xi^{i}c$, sharp.] In the nomenclature of the spicular elements of sponges, a slender spindle-shaped rod of monaxial type, sharp at both ends.

Amphioxides (am-fi-ok'si-dez), n. Amphioxues (am-n-ok si-dez), n. [131., Amphioxus + Gr. - $i\delta\eta_{\mathcal{G}}$ (see -ides).] A genus of laneelets, of the family Branchiostomatida, characterized by the absence of cirri about tho mouth. A. pelagieus, found in the open sea off Hawaii, is the typical species.

amphipeptone (am-fi-pep'ton), n. [amphi-+ peptone.] In the sense of Kuehne, the end-product of peptic digestion, a hypothetical mixture of anti- and hemi-peptone. Also amphopeptone.

amphiplatyan (am-fi-plat'i-an), α. [Gr. ἀμφί, on both sides, $+\pi\lambda a\tau i\varsigma$, flat, +-an.] Of vertebræ, having both of the artienlar faces of the

eentra flat or plane. Owen, amphipneustic (am-fip-nūs'tik), a. on both sides, $+\pi\nu\epsilon\nu\sigma\tau\delta\varsigma$, breathing.] Breathing at both ends: applied to certain dipterons larvæ having spiracles at each end of the body eonnected by large tracheal trunks. Cumbridge Nat. Hist., VI. 450. amphipositive (am-fi-poz'i-tiv), a. In photog.,

noting a process invented by Sabatier in which the picture is the result of a superposition or entangling of two images, one negative and the other positive. It is based upon the fact that certain substances, when poured in solution upon a negative which is in course of formation, exercise upon it, whatever be the developing agent otherwise employed, a disturbing and substituting action such that the development of the negative is stopped at the moment of contact, and the chemical combination which follows this contact gives rise to a nositive. The substances which contact gives rise to a positive. The substances which exercise this power are probably numerous. Lime-water, solutions of ammonia, and silver nitrate possess it in the highest degree. They may be applied after the use

the ingrest aegree. They may be applied and the design of pyro-developer. **Amphiprion** (am-fip'ri-on), n. [NL., \langle Gr. $a\mu\phi_l$, on both sides, $+\pi\rho i\omega r$, a saw.] A genus of damsel-fishes of the family Pomacentridx. found on the eoral reefs of the Pacific, and remarkable for their varied coloration.

amphipyrenin (am-fi-pî-rē'nin), n. on both sides, $+\pi\nu\rho\eta\nu$, stone of a fruit (nucleus), +in.] In bot., a substance, related to pyrenin, forming the nuclear membrane in the cell. Schwarz, 1887.

Amphisorex (am-fi-sō'reks), n. [NL., ζ Gr. άμφί, about, near, + 1. sorex, a shrew.] A genus representing the Soricidæ, or shrews, found fossil in the Quercy phosphorites of Oligocene age.

amphispermous (am-fi-sper'mus), a. [Gr. $a\mu\phi$, on both sides, $+\sigma\pi^i\rho\mu a$, seed.] In bot, having the seed closely invested by the peri-

Weismann (trans.), Germ-plason, p. 21.

Amphinesian (am-fi-nẽ/sian), a. and n. [Gr. aμφι, on both sides, + νισος, island.] I. a.
Of or pertaining to the aborigines of Indonesia, Polynesia, and Micronesia, considered as one racial division of mankind.

II. n. A member of the Amphinesian race.
Amphineura, n. pl. 2. A class or order of marine Mollusca. They have a bilaterally symmethand annus: the marine Mollusca. They have a bilaterally symmethand annus: the marine Mollusca.

Amphisphæria (am-fi-sfē'ri-ā), n. [NL. (Cesati and De Notaris, 1863), < Gr. aμφί, on both sides, + σφαίρα, sphere.] A genus of sphæriaceous fungi having mostly superficial scattered perithecia. The spores are two-celled and dark-colored. The species are numerous and occur chiefly on dead wood.

Amphisphæria (am-fi-sfē'ri-ā), n. [NL. (Cesati and De Notaris, 1863), < Gr. aμφί, on both sides, + σφαίρα, sphere.] A genus of sphæriaceous fungi having mostly superficial scattered perithecia. The spores are two-celled and dark-colored. The species are numerous and occur chiefly on dead wood.

[NL., \(\lambda\) Amphisphæria + -aceæ.] A family of pyrenomycetous fungi, typified by the genus

Amphisphæria.

amphispore (am'fi-spôr), n. [Gr. $a\mu\phi$, on both sides, $+\sigma\pi o\rho\dot{a}$, a spore.] A unieellular spore occurring in certain species of Puccinia, resembling a uredospore in its mode of germination, but requiring a period of rest before it will germinate. Amphisperes are found in *Puecinia vexuns* and *P. Tripsaci*.

Amphistegina (am*fi-stē-ji'nā), n. [NL., \langle Gr. $a\mu\phi$, on both sides, + $\sigma\tau\dot{e}\gamma$, a roof, + -ina.] A genns of calcareous foraminifers, of the family Nummulitidæ, having a lenticular test spi-rally enrolled and chambered: very abundant

in the Miocene Tertiary.

Amphistichus (am-fi-stik'ns), n. [NL., < Gr. $\alpha\mu\phi i$, on both sides, $+\sigma\tau i\chi\sigma\varsigma$, a line.] A genus of surf-fishes, of the family *Embiotocidæ*, found off the coast of California. A. argenteus is the common species.

amphistrongyle (am-fi-stron'jīl), n. at both ends, + στρογγίλος, round.] In the nomenclature of the spicular elements of sponges, a short monaxial rod with rounded

ends. See sponge-spicule.

amphistyly (am-fis'ti-li), u. [amphistyl(ie) + -y3.] The state or condition of being amphistylie, or of having (as some sharks) the mandibular areli attached to the skull by a ligament and but slightly supported by the hyoid. amphithecium (am-fi-the sium), n.; pl. amphitheeia (-siä). [NL., ζ Gr. ἀμφί, on both sides, + θίκη, ease.] In bot, the layer of cells at

first surrounding the endotheeium in the eapsule of a moss.

sme of a moss. amphiton (am'fi-ton), n. [Said to be \langle Gr. $a\mu\phi_i$, at both ends, $+\tau\phi_i$ oo, a rope.] In the nomenelature of the spicular elements of sponges, a monaxial pencil-like rod with abruptly sharp-

amphitriæne (am-fi-tri'en), n. [Gr. $\dot{\alpha}\mu\phi\dot{\iota}$, at both ends, $+\tau\rho\dot{\iota}\alpha va$, a trident.] A name given to a form of skeletal element in the silicious sponges which presents the appearance of a vertical rod bearing a trident at each end: regarded as a modification of the tetraxial type of spicule.

amphitriænic (am/fi-trī-ē'nik), a. [Amphitriwne + -ic.] Of the nature of an amphitrizene.

amphitrichous (am-fi-trī'kus), a. [Gr. $\dot{a}\mu\dot{\phi}i$, on both sides, $+\theta\rho i\xi$ ($\tau\rho\kappa\chi$ -), hair.] Provided with a flagelium at each extremity. amphitrider (am-fi-trī'der), n. [Gr. $\dot{a}\mu\phi i$, at both ends, $+\tau\rho i\dot{\phi}ei\rho\rho_i$, three-neeked (see trider).] In the nomenclature of the spicular elements of sponges, a trider in which the end of the principal axis is developed into a cladome. Analogous to * amphitriæne (which see). See also sponye-spicule.

amphitrochal (am-fit'rō-kal), a. [amphitrocha -al.] Pertaining to or resembling amphi-

amphityle (am'fi-til), n. [Gr. $\dot{a}\mu\phi\dot{\epsilon}$, at both ends, $+\tau\dot{v}2o\epsilon$, a knob.] In the nomenclature of the spicular elements of sponges, a slender, straight, monaxial rod with swollen ends. See spouge-spicule.

amphitypy (am'fi-ti-pi), n. The character of exhibiting both types. See the extract.

In the arrangement of the reproductive organs In the arrangement of the reproductive organs one finds the double condition designated sexual amphitypy, in which one individual is, as it were, the mirror image of the other. Usually one can be designated as having the normal arrangement, but the relative frequency may be such that neither can be said to be more typical than the other. Buck, Handbook of Med. Science, VII. 863.

amphivasal (am-fi-va'sal), a. Of or pertaining to the presence of concentric fibrovascular bundles.

Among the Cyperaceæit has been found that amphivasal bundles occur in practically alt the nodes of plants bearing well-developed leaves. Science, Jan. 21, 1905, p. 140.

amphogenic (am-fō-jen'ik), a. Same as *am- ampulla, u. 6. In Hydrocorallinæ, a pit formed

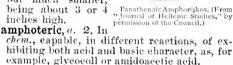
amphopeptone (am-fo-pep'ton), n. See *am-

amphophil (am'fōfil). a. [Gr. ἀμοω, both, + ρίζος, loving.] Noting granules, in certaiñ leucocytes, which have an affinity for both acid and basic dyes.

amphophilic (am-fofil'ik), a. [Gr. ἀμοω, both, + φιζείν, love.] In cytol., capable of being dyed with both acid and basic stains: said of certain cells or parts of cells.

amphophilous (amfof'i-lus). a. Same fot'i-lus). a. S as *amphophilic.

amphoriskos (am-fō-ris'kos), n. [NL., < Gr. αμφορίσκος, dim. συφορείς, amphora.] A type of Greek vase resem-bling the amphora but much smaller, being about 3 or 4 inches high.



amphoterite (am-fot'e-rit), n. [As amphoter (ie) -ite2.] See *meteorite.

amphoterogenic (am-fō-ter"ō-jen'ik), α. [Gr. W. J. and I. B. J. Sollas, In Philos. Trans. I aμφότερος, each of two, + γένος, kind.] In petrog., a term applied to sedimentary rocks re
Amsler's integrator. See *integrator.

amphoterotoky (am-fō-te-rot'ō-ki), n. [Gr. auφότερος, each or both, + τόκος, production.]

The production of both males and females from unfertilized eggs; *heteroparthenogenesis (which see). See also normal *parthenogen-level amuguis (ä-mō-gēs'), n. [Philippine Sp.]

Aname in the Philippines of Koordersioden-level amuguis (amb-ges'), n. [Philippine Sp.]

amphotoky (am-fot'ō-ki), n. [Gr. ἀμφω, both, + τόκος, production.] Same as *amphoterotoky. amplexicauline (am-plek-si-kâ'lin), a. [am-plexicaul +-ine¹.] In bot., same as amplexicaul. Syd. Soc. Lex.

Amplexopora (am-plek-sop'ō-rā), n. [NL., \langle amusement, n. 4. In music, a brief enter-L. amplexus, embraced, + Gr. $\pi \delta \rho o c$, L. porus, taining piece, often one intended to give vapore.] The typical genus of the family Am-riety to technical exercises. plexoporidæ.

Amplexoporidæ (am-plek-sō-por'i-dō), n. pl. [NL., < Amplexopora + -idæ.] A family of cryptostomatous Bryozoa which assume a variety of forms having simple zoocial tubes, no species occur fossil in the Silurian and Devonian rocks.

Amplexus (am-plek'sus), n. [NL., < L. amplexus, pp. of amplecti, embrace.] A genus of quality or effect; the quality of affording Paleozoic tetracorals of the family Zaphrentianusement.

dx, having simple subeylindrical coralla with shallow calice, well-marked septal fossula, and Muttering; in a muttering state. Mrs. Brownshallow calice, well-marked septal fossula, and Muttering; in a muttering state.

shallow ealice, well-marked septal fossula, and septa not reaching to the center.

ampliation, n. 2. (b) In French low: (1) A duplicate of an acquittance or other instrument. (2) A notary's copy of acts passed before him, delivered to the parties. Bouvier, duplicate of an acquittance or other instru-ment. (2) A notary's copy of acts passed be-fore him, delivered to the parties. Bouvier, Law Dict.—4. In med., dilatation or disten-tion of a caual or eavity.

amplitude, n. 4. (c) In function theory, if $x = \xi + i\eta$, let the polar coordinates of (ξ, η) be ρ , θ , then any one of the angles θ or $\theta + 2n\pi$, where n is any positive or negative integer, may be called the amplitude of x.— 6. In mcteor., the range or difference between the maximum and minimum values of the temperature, pressure, or other meteorological element within a definite time, such as a day, a month, or a year.—Chief amplitude, the vectorial angle θ_0 , when a year.—Chief amplitude, the vectorial angle θ_0 , when $-\pi < \theta_0 \le \pi$: abbreviated Am x, while any amplitude is am x.—Periodic amplitude, the difference between the maximum and minimum values computed by a Fourier-Bessel series, as distinguished from the non-periodic amplitude, which is the difference between the absolute maximum and minimum values, or the means of all the maxima and minima. Observations made with maximum and minimum thermometers give the non-periodic amplitude; hourly observations can give the periodic amplitude in temperature.

in the comenchyma for the reception of gonophores

ampullation (am-pul-ā'shon), n. An ampullary process or condition.

In Callicthys the ampullation of the main canal is described as a remarkable phenomenon hitherto unrecorded in any other sulmal.

Linnean Zoöl, Soc. Lond., Oct.. 1898, p. 184.

amputating-knife (am'pū-tā-ting-nīf"), n. A knife with a long narrow blade, used to divide the muscular tissues in the amputation of a

limb.

Amputation in continuity, amputation through the segment of a limb and not at a joint.—Dry amputation, an amputation performed with a minimum loss of blood.—Gritti's amputation, amputation at the kneejoint, the end of the stump being terminated by the patella, which is turned under the femur, and the opposing surfaces of the bones are denuded of cartilage, so that union occurs between them.—Intermediary amputation, amputation of a limb during the poriod of reaction following the shock caused by the injury, but before the occurrence of suppuration in the wound.—Primary amputation and the receipt of the injury necessitating operation—after the receipt of the injury necessitating operation—after the shock has subsided, but before the establishment of inflammatory symptoms.—Secondary amputation, amputation performed some time after the receipt of the injury, when suppuration in the wound has begun.—Spontaneous amputation, separation of the dead portion of a limb in case of gangrene; also, the division of a limb by constricting bands formed during intra-uterine life. Jour. Exper. Med., V. 105.

ampyx, n. 3. In the anatomic structure of the Devoniau fish Palæospondylus, an element of

Devoniau fish Palæospondylus, an element of

the anterior part of the skull.

So far as it contributes to the floor of the skull it may be described as a transverse bar or fillet, somewhat higher in front than behind, providing a support on each side for the terminal half of the low anterior cranial walls. The thickness of the bar, which for brevity may be called the 'ampyx,' is considerable and it is extended downwards to the ventral face of the skull where it is seen as a very considerable wide.

W. J. and I. B. J. Sollas, in Philos, Trans. Roy. Soc. [London, ser. B, 196. 276.

dron pinnatum, a valuable timber-tree belonging to the eashew family. It occurs also in amylobacter (am''i-lō-bak'ter), n. [Gr. ἀμυλον, Celebes and New Guinea. Its wood, which is also called palosanto, is light red sometimes marked with lead-bacterium. ling to the easnew family. It occurs also in Celebes and New Guinea. Its wood, which is also called palosanto, is light red sometimes marked with lead-colored spots. It is used in ship-building and for the construction of buildings, but it does not resist the attacks of termities.

amusia (a-mū'si-ā), n. [NL., ⟨ Gr. ἀμουσος, not musical, ⟨ ά-priv. + μοῦσα, muse: see muse, music.] Loss, through disease, of the ability to express musical sounds either vocally or instrumentally, to write musical notation (the amylocoagulase (am'i-lō-kō-ag'ū-lās), n. power of ordinary writing being retained), or [amyl + coagul(ate) + -ase, as in diastase.] A to appreciate musical sounds mentally. See ferment which coagulates soluble starch: \star tone-deafness.

amusingness (a-mū'zing-nes), n. Amusive quality or effect; the quality of affording amusement.

cha. Dall.

Amycteridæ (a-mik-ter'i-dē), n. pl. [NL., < Amycterus + -idæ.] A family ôf Australian short-beaked rhynchophorous beetles, of which

Amycterus is the type.

Amycterus (a-mik'te-rus), n. [NL. (Schönherr, 1826). ⟨ Gr. ἀμυκτηρ, without a beak or nose, ⟨ ά-priv. + μυκτήρ, beak.] A genus of rhynchophorous beetles of the family Curculiant contains anylophastic (am'i-lō-plas'tik), a. [Gr. ἀμυκτηρ, beak.] A genus of amylophastic (am'i-lō-plas'tik), a. [Gr. ἀμυκτηρ, beak.] A genus of amylophastic (am'i-lō-plas'tik), a. [Gr. ἀμυκτηρ, c. πλάσσειν, here meal (stareh), + πλαστός, ⟨ πλάσσειν, here anylophastic (am'i-lō-plas'tik), a. [Gr. ἀμυκτηρ, c. πλάσσειν, here anylophastic (am'i-lō-plas'tik), a. [Gr. ἀμνκτηρ, c. πλάσσειν, here anylophastic (am'i-lō-p onidæ, or typical of the Amycteridæ, containing

family of dicotyledonous, choripetalous plants of the order Rosales, the almond family, called by De Candolle Drupaceæ (which see), and ineluded by many authors in the Rosaccæ as a subfamily. It embraces 7 genera, of which Amygdalus (almond, peach) and Prunus (plum, cherry) are the only important ones, and about 110 species, mainly of the north temperate zone of both hemispheres, with a few in the tropics. See Amygdalus, Prunus, and Rosacez.

amygdalectomy (a-mig-da-lek'tō-mi), n. [Gr. άμιγθαλα, tonsils, + ἐκτουῆ, a euiting out, excision.] Same as amygdalotomy.
amygdaliform (am-ig-dal'i-fōrm), a. [Gr. άμιγθάλη, almond, + L. forma, form.] Almondshaped

shaped.

Amygdaline fissure. See *fissure.

amygdalolith (a-mig'da-lō-lith), n. [Gr. $\dot{a}\mu\nu\gamma$ - $\dot{b}\dot{a}\lambda\eta$, an almond, $+\lambda\dot{a}\theta\sigma$, stone.] A concretion in the substance of a tonsil. Buck, Med. Handbook, IH. 232.

amygdalotome (a-mig'da-lō-tōm), n. αμυγδαλα. tonsils, + -τομος, ζ ταμείν, cut.] Same as tonsillotome.

amygdophenine (a-mig-dō-fō'nin), n. [L. amygd(alu), almond, + phen(yl) + -ine.] Phenylglycolyl phenetidine, C₆H₄(OC₂H₅)-NHCOCH(OH)C₆H₅. Its acetyl derivative is a febrifuge; it is also antiseptic in its properties.

Amyl acetate, a compound, $C_2H_3O_2, C_5H_{11}$, prepared from fusel-oil or amyl alcohol and acetic acid. It is much used in the manufacture of lacquers, and is also used in a lamp for a primary standard in photometry.—Amylacetate standard, in photom., a standard of light consisting of the flame of an amylacetate lamp. The accepted form is that devised by Von Hefner Alteneck. See *light standard.

Amylaceous bodies. Same as corpora amylacea (which see, under corpus).

amylan (am'i-lan), n. [amyt + -an.] The name given to two compounds, known as a- and β -amylan, found in wheat, rye, and oats. In

aμφότερος, each of two, + γενος, κικαι.] το μετοτος, α term applied to sedimentary rocks retrog., a term applied to sedimentary rocks retrog. a term applied to sedimentary rocks rechanical deposits, as marl and loess.

Amstelian (am-stē'li-an), a. and n. [D. Amstelian, a. and n. [D. Amstelian, a. of or pertaining to the Anstel, a river in the Netherlands.

II. n. In geol., a proposed division of the Plicene in Holland.

The production of both males and females from The production of both males and females from Processes (Σ-mō-σ̄s̄s'). n. [Philippine Sp.]

amylate, n. 2. A metallic derivative of amyl alcohol: as, sodium amylate, C₅H₁₁ONa.

 $\mathbf{amylobacterium} \ (\mathbf{am''i\text{-}l\bar{o}\text{-}bak\text{-}t\bar{e}'ri\text{-}um}), n.; \ \mathbf{pl.}$ amylobacteria (a). [NL., \langle Gr. $\dot{\alpha}\mu\nu\lambda\sigma\nu$, starch, + $\beta\alpha\kappa\tau'\beta\rho\iota\sigma\nu$, a little rod.] A micro-organism which has the power of producing butyric acid from a large number of substances, inas well as of splitting up certain peetic compounds associated with the cell-walls of many tissnes.

found in cereals.

amyloid, a. and n. I. a. 2. In pathol., noting a degenerative change characteristic of lardaceous disease (which see, under lardaceous).

Encyc. Brit. XXXI. 548.—Amyloid bodies.

Same as corpora amylacea (which see, under corpus).—

Amyloid kidney. See *kidney.

II. n. 2. A precipitate obtained from a gelatinous solution of cotton which has been treated with concentrated sulphuric acid. Vegetable parchment is due to the partial transformation of the vegetable fibers into this

amyarian (am-i-ā/ri-an), a. [Amyaria + -an.] substance.—3. In pathol., same as lardacein.

Pertaining to or resembling the Amyaria; having no adductor museles.

Amyteridæ (a-mik-ter'i-dē), n. pl. [NL., Amyteridæ (a-mik-ter'i)-dē], n. pl. [action of diastase upon starch. They have the properties of both maltose and dextrine. They have

form.] Stareh-forming.

several Australian species characterized by an amyloplastid (a-mil- $\hat{\sigma}$ -plas'tid), n. [Gr. $\hat{a}\mu\nu$ -excessively short beak. $\hat{\sigma}$ cov., starch, $\hat{\sigma}$ to respect to the produces starch in plant or less plastid which produces starch in plant

excessively short beak.

amyelinic (a-mī-e-lin'ik), a. [Gr. ά- priv. + μνελός, medullar, +-in +-ic.] In neurol., without a medullary sheath: said of nerve-endings and embryonic nerves in vertebrates.

amylotype (a-mil'ǫ-tīp), n. [Gr. ἀμνλον, fine meal, + τύπος, type.] In photog., a picture printed by the action of light on paper which has been washed in juice extracted from

ing substance. See *authotype.

Amylum body. Same as *amyloplastid.—Amylum center. Same as pyrenoid.

Amynodon (a-min'ō-don), n. [NL., irreg. Gr. āuivetv, ward off. + òōoiç (òōoir-), a tooth.] A genus of rhinoceros-like ungulates from the Eocene of North America.

Amynodontidæ (am"i-no-don'ti-de), n. [NL. & Amnodon (& Gr. åavrev, ward off, + bbove, tooth + -idæ.] A family of ungulates, related to Rhinoceros, from the Tertiary rocks of North America. They have on each ramus of the jaw 3 incisors, 1 cauline, 4 premofars, and 3 molars. The manus is regarded as having had 4 digits and the pes 3.

amyotrophia (a"mi-o-tro'fi-a), n. [NL., \ Gr. a- priv. + μνς, muscle, + τροφή, nourishment, (τρέφειν, nourish.] Same as amyotrophy.
 Amyotrophic paralysis, paralysis resulting from mus-

cular atrophy.

amyrilene (a-mir'i-lēn), u. [amyr (iu) + -il + -ene.] A triterpene C₃₀H₄₈, formed by the action of phospherus pentachlorid en amyrin. A dextro- and leve-rotatory a-amyril-ene and a dextrorotatory β -amyrilene have been described.

Anabæna (an-a-bē'nä), n. [NL. (Bory, 1822), irreg. (Gr. àva Jaíveu, to go up: see anabasis. The name alludes to the habit of the plants in coming to the surface of the water.] One of the blue-green algæ (Schizophyceæ), consisting of numerous oval or eirenlar cells united into of numerous ovar or erremar cens united into a filament, with interealary heterocysts. It is distinguished from Nostoc by the absence of an enveloping gelatinous mass which incloses a number of filaments. This genus is responsible for some of the bad odors and tastes frequently noticeable in water during the warmer months

anabix (an'a-biks), n.; pl. anabices (a-nab'i-sez). [NL., an arbitrary or mistaken fermation, based, according to some, on Gr. αναβασίν, revive, but perhaps on ανάβασίς, a going np.] The part of certain cryptogamic plants, as liehens, liverworts, and club-messes, that per-

ishes below while vegetating above.

anabo (ä-nä-bō'), n. [Tagalog ?] A name in
the Philippine Islands of Abroma augusta and allied species, the twigs of which yield a naërobe, n.—Facultative anaërobe, an organism strong, white bast-fiber which is easily separated and is superior to sunn-hemp. The plant anaërobia² (an-ā-e-rē/bi-ā), n. [NL, abstract anaērobia² (an-ā-e-rē/bi-ā)] year. See devil's-cotton.

anabolergy (an-ab'ō-ler-ji), n. [Gr. ἀναβολή, a striking up (see anabolism), + ἐργον, work.] Energy expended in anabolism.

anabolistic (an-ab-ō-lis'tik), a. [anabol(18m) + -ist + -ic.] Relating to or consisting in anabolism or constructive metabolism, Phil. Med. Jour., Jan. 31, 1903.

anabranch (an's-branch). n. [ana-, in anas-tomosing, + branch.] A branch of a river which reunites with it lower down, thus forming an island known as a branch-island. Called by the aborigines billabong. [Australian.]

A enrious history is given of the word "Anabranch," which was applied by Colonel Jackson in the R. G. S. Journal of 1834 to the branch of a river which reunites lower days with the prairie. lawer down with the main stream.

Geog. Jour. (R. G. S.), XI. 319.

anabrosis (an-a-brō'sis), n. [NL., < Gr. aváβρωσις, an eating up, ζάναβιβρώσκειν, eat up, ζ avá, up, + βιβρώσκειν, eat.] In med., erosion

of the surface; ulceration. anabrotic (an-a-brot'ik), a. [anabrosis (-ot-) +-ic.] In med., relating to or consisting in anabrosis or superficial erosion of the surface. anacampsis (an-a-kamp sis), κ. [Gr. ἀνακαμψις, ζ ἀνακάμπτειν, bend back, ζ ἀνά, back, + κάμπτειν, bend.] Reflection as of light or sound; reaction: reciprocation.

anachlorhydria (an-a-klēr-hī'dri-ä), n. sence of hydrochleric acid in the gastric juice. anachoresis (an-a-kō-rē'sis), n. [NL., < Gr. ting, < dvaἀναχώρησις, withdrawing, retreating, \langle ἀνα-χωρείν, withdraw, \langle ἀνά, back, + χωρείν, give way.] In bot., retrograde change in an organ

anachromatic¹ (an⁴a-krō-mat'ik), a. [Gr. ἀνά, up, + χρῶμα, color.] Relating to an ascending color scale. Buck, Med. Handbook, III. 208.

anachromatic² (an-ak-rō-mat'ik), n. [an-3 + achromatic.] In photog., a corrective for achromatism. Woodbury, Dict. of Photog.,

anachronismatical (an-ak "ron-iz-mat'i-kal), a. [Irreg. \(\) anachronism \(+ \) -at-ic-al.] Same as anachronous. Barham, Ingoldsby Legends, p. 182. [Rare.] N. E. D.

plants or from flowers or in an artificial color-ing substance. See *anthotype. anacidity (an-a-sid'i-ti), n. [Gr. av- priv. + E. acidity.] Reduced or abolished acidity of the gastric juice or other fluid.

the gastric juice or other fluid.

anaclete (an-a-klēt), n. [Gr. ἀrά, back, + κα-λειν, call.] One who is called back.

anaclinal (an-a-kli'nal), a. [Gr. ἀνά, back, + κλίνειν, bend.] In geol., transverse to the dip:
said of a valley or a river which descends against the dip.—Anaclinal valley, a valley whose axial direction is not in accord with the dip of the underlying rocks. derlying rocks.

anacostia (an-a-kes'ti-ä), n. tabric with a worsted warp and a woolen weft. **Anacrogynæ** (an-ak-rē-jī'nē), n. pl. [NL., ζ Gr. ἀν- priv. + ἀκρον, apex, + γυνή, female.]

In bot., a suborder of cryptogamic plants of the order lovescent plants of the order Jungermanniales, class Hepatica, in which the archegonia are formed at a point below and remote from the apex. It embraces the thalloid genera of the Jungermanniacex, of simpler type than the *Aerogynæ (which see).

anacrogynous (an-ak-roj'i-nus), a. [Gr. ἀν-priv. + ἀκροι, apex, + γυνή, female, + -ous.] In bot., having the archegonia formed at a point below and remote from the apex, as in the Anaerogynæ.

Anacyrtus (an-a-ser'tus), n. [NL., < Gr. ἀνά-κυρτος, curved upward or backward, < ἀνά, up, + κυρτός, eurved.] A genus of South Ameri-can toothed shiners of the family Characin-

anadenia (an-a-dē'ni-ā), n. [NL., ζ Gr. ἀν-priv. + ἀδήν, a gland.] Insufficiency or ab-sence of glands, especially of the gastric glands. anadiæne (an-a-dī'ēn), n. [Gr. ἀνά, up, back, + *διάνα, an assumed form ('two-pronged

staff'), from δι-, two, parallel to τρ. αινα, a trident.] In the nomenclature of the spicular elements of sponges, a hexactine spicule hav-ing a straight rhabd or shaft and an anchor-

anadipsia (an-a-dip'si-ä), n. [NL., ζ Gr. ara-intensive + δίψα, thirst.] Intense thirst.

anadipsic (an-a-dip'sik), a. Pertaining to or characterized by anadipsia.

anaërobe, n.—Facultative anaërobe, an organism nsually requiring oxygen, which has become capable of living in either the presence or the absence of oxygen.

noun, fem. sing. of anaërobius: see anaërobious.] The ability (on the part of bacteria) to live in the absence of free exygen.—Facultative anaë-robia, the possibility of living in either the presence or the absence of oxygen.

anaërobic, a.—Facultatively anaërobie, having acquired the ability to live in either the presence or the absence of oxygen.

anaërobically (an-â-e-rob'i-kal-i), adv. In an anaërobie manner. Jour. Exper. Med., VI. 67. anaërobiont (an-ā-er-ē-bi'ont), n. Same as

anaërobism (an-ā'e-rō-bizm), n. ism.] That faculty or power of living without oxygen which is possessed by some micro-organisms, particularly certain bacteria.

anaëro-oxydase (an-ā/e-rō-ok'si-dās), n. [Gr. av-priv. + a/ρ, air, + oxydase.] Same as *peroxydase.

oxydase.

anæsthesia, n.—Crossed anæsthesia, a condition in which anæsthesia exists on one side of the face and on the opposite side of the body.—General anæsthesia, total anæsthesia, with loss of consciousness, induced by the inhalation of an anesthetic gas or vapor, such as chloroform, ether, or nitrous oxid.—Infiltration anæsthesia, local anæsthesia induced by the injection into the subcutaneous tissues, in and about the seat of operation, of large quantities of a very weak solution of cocaine or other local anæsthetic.—Local anæsthesia, anæsthesia of a circumscribed area induced by the injection of a solution of cocaine, or other substance of similar action, or by the application of cold.—Medulary anæsthesia, anæsthesia induced by injection be neath the membranes covering the spinul cord of a solution of cocaine or other substance with similar action. The anæsthesia so produced is very wide in its extent, but there is no loss of consciousness, as in general anæsthesia.—Mixed anæsthesia, general anæsthesia induced by one agent, as nitrous-oxid gas, and maintained by another, as chloroform or ether.—Primary anæsthesia, insensibility to pain occurring soon after the administration of ether is begun. It is of hrief duration, but is usually long enough to permit of the extraction of a tooth or for the incision into a boll.—Spinal anæsthesia.—Surgical anæsthesia, local or general anæsthesia induced artificially for the purpose of preventing the pain of a surgical operation.

anæsthesiant, a. and n. See anesthesiand.

anæsthesiant, a. and n. See anesthesiant. anæsthol (an'es-thôl), n. A mixture of chloroferm, ether, and ethyl ehlorid recommended as an anesthetic in place of the mixture of alcohol, chloreform, and ether.

Anagallis (an-a-gal'is), n. [NL., < L. anagallis,

ζ Gr. ἀναγαλλίς, pimpernel.] An annual, biannual, or perennial herb, cultivated in the open, a member of the family Primulaceæ and sometimes called pimpernel. Only the annual species are known in America. A. areensis is commonly known as poor man's weather-glass. Twelve species are known in the temperate zones of Europe, Africa, east Asia, and South America.

anagap (ä-nä-gäp'), n. [Philippine Sp. anaga anagat, from a native dialect.] In the Philippine islands, a tree, Pithecolobium lobatum, belonging to the mimosa family, having bipinnate leaves with a single pair of leaflets and a large pod deeply lobed along its lower suture into round divisions. The wood is durable, fine-grained, brittle, and of a yellowish-gray color. It is used in construction and for fur-

anagenesis (an-a-jen'e-sis). n. [Gr. ἀνό, up, + γένεσις, origin: see genetic.] Evolution by means of the acquiring of characters and of in creasing complexity and differentiation. Hyatt. anagenetic (an "a-je-net'ik), a. Tending to the

anagenetic (an'a-je-net'ik), a. Tending to the advancement or progressive development of organisms. Hyatt, Biol. Leet., p. 146. [Rare.] anagerontic (an'a-je-ren'tik), a. [Gr. ὁτό, up. + γέρων (γεροντ-), an old man: see gerontic.] Noting the early portion of the gerontic or senile period in the development of an organism. Hyatt.

anaglyph, n. 2. In photog., a kind of picture, invented by Duces du Hauron, with two images invented by Ducos du Hauron, with two images printed nearly in superposition, one in red and the other in greenish blue. On viewing this double image through a pair of eye-glasses, one blue and the other red, the image is seen stereoscopically. On reversing the glasses the opposite effect, or pseudoscopic vision, is the result. Three-color heliochromy has also been applied to the anaglyph. When two slides from a stereoscopic negative, one with a red image and the other with a blue, are projected on a screen together, they appear stereoscopically when viewed through colored glasses.

anaglyphoscope (an-a-glif'ō-skōp), n. [ana-glyph + Gr. σκοπεῖν, view.] In photog., a pair of eye-glasses, one red and the other greenish blue, for viewing anaglyphs so as to produce a stereoscopic effect.

anago (ä-nä'gō), n. [Jap. anago.] The Japanese name of an eel of the family Leptocephalidæ, Congrellus anago. found at Nagasaki.

anagyrine (a-naj'i-rin), n. [Anagyris + -iuc².] An alkaloid, $C_{15}H_{22}N_2O$, found in Anagyris fatida. The free base forms a gnmmy, amorphous mass. It has a powerful toxic action.

Anakim (an'a-kim), n. pl. [Heb. anakim, pl. of Anak; etym. unknewn: in one view, from 'anak, neck.] A pre-Camanite tribe mentioned in the Old Testament, otherwise called 'the Anak' or 'the sons of Anak,' and, as usual in regard to outlying tribes of which little is known, reputed to be giants.

Anal glands. See *yland.—Anal margin, the posterior margin of an insect's wing when expanded.—Anal nerve or vein, the posterior nerve or vein of an insect's wing when expanded.—Anal spot, in the Infusoria, the spot where the waste-products of digestion are ejected. Parker and Haswell, Zoology, I. 81.—Anal vesicle. See *vesicle.

analcite-basalt (a-nal'sīt-ba-sâlt"), n. See *basult

analcitite (a-nal'si-tit), n. [anulcite + -ite2.] In petrog., a basaltie rock rich in primary analcite and without elivin: preposed by Pirssen, 1896.

analeptic, a. II. n. In med., a remedy which exerts a resterative or invigorating action. Buck, Med. Handbook, H. 694.

analgene (an-al'jēn), n. [analg(ic) + -ene.]Ortho-ethexyanabenzoylaminoquineline, C_9 - $H_5N(OC_2H_5)NHCOC_6H_5$. It is a white crystalline powder, insoluble in water, used in the treatment of neuralgia.

analgesin (an-al'gē-sin), n. Same as antipyrin. analgic (an-al'jik), a. [Gr. ἀναλγής, painless, 〈 ἀν- priv. + ἀλγος, pain.] Same as analgetic. Buck, Med. Handbook, V. 865. analog, n. A simplified spelling of analogue. Analogous tissues, in pathol., morbid tissues resembling in their structure normal tissues.

in their structure normal tissues.

analogy, n.—Convergent analogy, resemblance between organisms or organs which is due to independent modification on similar lines and not to inheritance from a common ancestor.—Kirkwood's analogy, in astron, a supposed but now discredited law, announced in 1849, connecting the distances of the planets and their masses with their axial rotations by an equation in form analogous to that which expresses Kepler'a harmonic law.

analophic (an-a-lof'ik), a. [Gr. avá, up, + λόφοr, crest.] In eraniom., having the incisor crest in the anterior nearly appeture confined to

crest in the anterior nasal aperture confined to the posterior part of the floor of the nares. Harrison Allen, Jour. Acad Nat. Sci. X. 419.

analphabetic, a. 2. Non-alphabetic.—Analphabetic symbols, in phonetics, symbols or signs which do not denote sounds, but components of sounds, each simple sound being represented by a group of symbols resembling a chemical formula, in much the same way as lty might be taken to represent 'lip-teeth-voice.' analphabetism (an-al'fa-bet-izm), n. 1. Heading the same properties of the same phonetics.

iteracy: ignorance even of the alphabet.—z.

In phonetics, a system of representing the articulations of speech-sounds by means of fish-berries.

analphabetic symbols, proposed by Professor analphabetic symbols, proposed by Professor anamirtin (an-a-mér'tin), n. A crystalline substance, C₁₉H₂₄O₁₀, found in small amount, with pierotoxin, in the seeds of Cocculus.

Cocculus. It is slightly bitter and not poison-

analysis, n. 5. In ericket, an itemized record of the play of the bowler, intended to show particularly the number of runs scored by him and the number of wickets obtained. - 6. In chem., intentionally produced decomposition: often applied to the ascertainment of the composition of a substance, whether the constituents are actually obtained in separate form or ents are actually obtained in separate form or not.— Capillary analysis, a system of chemical analysis based upon the fact that solutions of different substances are propagated at different velocities by capillary attraction through porous material: used chiefly in the detection of different coloring matters in a mixture.—Partition analysis, a calculus founded upon the theory of partitions, an important part of combinatory analysis.—Polariscopic analysis. See *harmonic.—Spherical harmonic analysis. See *harmonic.

Analytic proof, algebraical proof; proof depending upon a careful analysis of the problem; opposed to synthetic proof, which appeals to intuition or common-sense and is thus not strictly apodictic.

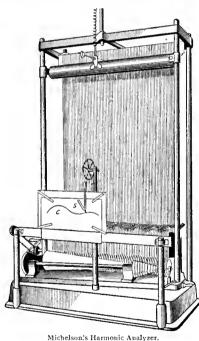
Is thus not strictly apodictic.

Analytical reference, an entry in a library catalogue relating to a particular chapter or section of a book, and referring the reader to the heading under which the book itself is entered. Sometimes also called simply an analytical.—Analytical variation, variety. See variation, *eariety.

analytics, n. pl.—Thermal analytics, the mathematical or, more specifically, the algebraic analysis of the theory of heat.

analytzer. n.—Hermania analytics.

analyzer, n. — Harmonic analyzer, a device for determining the harmonic elements of a periodic curve.



All periodic curves may be regarded as made up of one or more sine-curves, harmonically related to cach other as regards frequency. By means of a machine so constructed as to hapart to a stylus a linear oscillatory motion which is the resultant of the various simple harmonic motions which go to make up a given corve, it is possible to trace the curve in question upon a surface moving uniformly under the stylus. On the other hand, if the form of curve is given it is possible to determine by means of a suitable mechanism the amplitude and frequency of the elements of which it is the resultant. A machine of the latter description is called a harmonic analyzer. Such machines have been devised by Kelvin, Michelson, and others. That of Kelvin was constructed with special reference to the analysis of the tides. Since the number of harmonic elements in a periodic curve may be indefinitely great, the mechanical analysis is in some cases only approximate. The harmonic analyzer of Michelson, however, which peraits of a determination of 80 different clements, gives a very close approximation for most curves. mation for most curves.

anamesitic (an-am-e-sit'ik), a. [anamesite + -ic.] In lithol., having the structure or appearance of anamesite. Smithsonian Rep., 1899,

anametadromous (an - a - me - tad'rō - mus), a.

[Gr. ará, back. + μετά, beyond, + -δρομος, < anangioid (an-an'ji-oid), a. [Gr. ar-priv. + δραμείν, run.] In bryol., having the nerves of the weaker pinnules anadromous and those of the stronger catadromous.

Anamirta (an-a-mer'tä), n. A genus of climbing plants of the moonseed family (Menispering density). A collective name for those mam

Anamirta (an-a-mér'tä), n. A genus of climb-

anamnesic (an-am-ně'sik), a. [anamnesia + -ic.] Endowed with a good memory; disposed to remember. G. S. Hall, Adolescence, I. 345. anamniote (an-am'ni-ōt), a. and n. [Gr. àv-priv. + NL. amniotus, amniote.] I. a. Not amniote; having no amnion in the fetal state; anamujotic.

II. n. A member of the Anamnionata. anamonæne (an-a-mon'ēn), n. [Gr. ἀνά, up, back, + *μόνανα, assumed form ('one-pronged staff'), from μόνος, single, parallel to τρίαινα, a trident.] In the nomenclature of the spicular elements of sponges, a triame which has undergraph of the spicular elements of sponges, a triame which has undergraph. gone atrophy of two of its axial arms or cladisks, the third being reflected on the fourth, giving the spicule the form of a gaff-hook. See sponge-spicule.

anamorphic (an-a-môr'fik), a. Pertaining to or resulting from anamorphism. Van Hise, U. S. Geol. Surv., Monograph 47, p. 169.

anamorphism (an-a-môr/fizm), n. In geol., that variety of metamorphism which takes place below the zone in which cavities may exist. It results in the production of new minerals under conditions of great pressure. Van Hise, U. S. Geol. Surv., Monograph 47,

morphosis; distortive.—Anamorphote lens in photog., a lens having a cylindric element and therefore distorting the image like a cylindric mirror. Wall, Dict. of Photog., p. 32.

ananaplas (ä-nä-nä'pläs), n. [Tagalog (†).] A valuable timber-tree, Albizzia procera, belonging to the mimosa family. Its heart-wood is hard and durable, of a brown color with alternate lighter and darker bands, and a straight grain. It is used for posts in house-building, and for making rice-pounders and parts of agricultural implements and machinery. The bark is astringent and is used for tanning, and the tree yields a gum soluble in water. (Philippine Is.)

Ananas oil, ethyl or amyl butyrate diluted with alcohol: used to imitate the odor of the pineapple in confectionery, soda-water syrups, and perfumery. Also called ananas or pineapple essence.—Essence of ananas, an artificial flavoring essence possessing the odor of pineapple; ethyl butyrate, CaHr.CO.OCalla (which see, under butyrate).

Ananchytidæ (an-an-kit'i-dē), n. pl. [NL., < Ananchytidæ (an-an-kit'i-dē), r. pl. [NL., < Ananchytids holded (an ana kit'i-dē) echinoids, most of whose representatives are extinct and belonged to Cretaceous time. ananaplas (ä-nä-nä'pläs), n. [Tagalog (?).] A

extinct and belonged to Cretaceous time.

ananeanic (an a-ne-an'ik), a. [Gr. avá, up, + veaviac, a youth: see neanic.] Noting the early portion of the neanic or youthful period in the

development of an organism. Hyatt. ananepiastic (an "a-ne-pi-as'tik), a. Noting the earliest expression of the nepiastic substage in the ontogeny of the compound individual or colony, as the bryozoan Fenestella. See *nepras-

ananepionic (an-a-nē-pi-on'ik), α. [NL., < Gr. avā, up, + νήπως, infant.] In the terms of auxology or the development of the individual, noting a growth condition approaching the nepionic stage. See *nepionic. Contrasted with *paranepionic, which designates the phase which homediately follows the nepionic. The ananepionic stage is one of immature growth and directly follows the larval phase. The word was introduced by Hyatt with special reference to the stages of growth and decline in the fossil cenhalopods. cephalopods.

cephalopods.

For about half a volution or less, the shell is smooth, although lines of growth become more pronounced. At more or less regular intervals stronger lines of growth appear (anancpionic). In the later portion of the nepionic stage (metanepionic) longitudinal wrinkles or ribs appear which characterize the ambital portion of the whorl, and may be traced upward to the suture between the two whorls.

Amer. Nat., Aug. 1903, p. 518.

anangian (an-an'ji-an), a. [Gr. ἀν- priv. + άγγειον, a vessel.] Having no vascular system: applied to certain polychetous annelids in I. 39. which the colonic fluid, whose corpuscles anaphoria (an-a-fō'ri-ā), n. [NL., \lambda Gr. *\a'va-contain hemoglobin, is carried to the various opens, \lambda \a'va\checketer, carry back: see anaphora.] organs of the body by the action of ciliate The tendency of the axes of vision in the two cells which cover the peritoneum along certain definite tracts.

mals in which the retina has no blood-vessels. Philos. Trans. Roy. Soc. Lond., ser. B, 194, p. 68. anangiotic (au-an-ji-ot'ik), a. Same as *an-

anangious (an-an'ji-us), a. Having no retinal blood-vessels; anangioid.

Diood-Vessels; anangioid.

Although these creatures [Chiroptera] are so highly specialised, typical Vespertilionide occurred already in the Eocene. . . The eyes of these nocturnal creatures are very small, anangions, and devoid of any traces of higher development, except that they are also without any traces of ancestral vestiges, hesides the rather common rudiment of the hysloid artery.

Philos. Trans. Roy. Soc. Lond., ser. B, 194, p. 68.

Anantherum (an "an-thē'rum), n.; pl. ananthera (-rā). [NL., ζ Gr. ἀ- priv. + NL. anthera, anther.] Iu bot., a filament without an anther; a staminode.

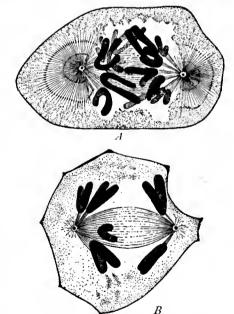
ananym (an a-nim), n. [Erroneously for *anonym², ζ Gr. ἀνά, back, + ὁνομα, ὁννμα, name.]

A name written backward, as Noremac for Cameron.

anaoxytriæne (an-a-ok-si-trī'ēn), n. [Gr. ἀνά, up, back, + ἀξίς, sharp, + $\tau \rho i a \nu a$, a trident.] In the nomenclature of the spicular elements in sponges, a form of anatriæne in which the branches are all acute. See *anatriæne and sponge-spieule.

anapaite (a-nā'pa-īt), n. [Named (by A. Sachs, 1902) (Anapa (see def.) + -ite².] A hydrated phosphate of ferrous iron and calcium occurring in colorless triclinic crystals and also in massive forms: found at Anapa on the Black sea. anapanapa (ä-nä"pä-nä'pä), n. [Hawaiian.] A name in Hawaii of a widely distributed shrub, Colubrina Asiatica, the bark of which

 p. 167.—Zone of anamorphism, the deep-seated zone of the earth in which anamorphism takes place.
 anamorphote (an-a-môr'fōt), a. [From the assumed stem of anamorphosis.] Causing anamorphosic distributions.]
 Causing anamorphosic distributions.
 Causing anamorphosic distributions. ava, back, again, $+\phi auc$, appearance, phase.] In cytol., a stage in mitosis, or karyokinetic



Anaphases of mitosis in cells (spermatocytes) of the salanander. (Drüner.) Maguified.

A. Anaphase; divergence of the daughter-khromosomes, exposing the central spindle as the interzonal fibers; contractile fibers (principal cones of Van Beneden) clearly shown. R. Laier anaphase (dyster of Flemming); the central spindle fully exposed to view; mantle fibers attached to the chromosomes. Immediately afterward the cell divides.

cell-division, characterized by the moving apart of the chromosomes destined to enter the two daughter-nuclei. Strasburger, 1884. anaphasis (a-naf'a-sis), n. [NL.] Same as

*añaphase.

anaphia (a-naf'i-ä), n. [Gr. aν- priv. + aφή, a touching, ζάπτειν, touch. Cf. Gr. ἀναφής, not to be touched.] In pathol., loss of the sense of touch. Baldwin, Dict. of Philos. and Psychol.,

eyes to assume too high a plane. Mcd. Record, April 18, 1903.

anaphylembryonic (an/a-fil-em-bri-on'ik), a. Noting the earliest expression of the phylembryonic substage in the ontogeny of any organism. See *phylembryonic.

gamsm. See *pnycentoryorac.

That it is probably not the most primitive type of gastropod is suggested by the consideration that the earliest stage (ana-phylembryonic) of the protoconch is not coiled, but rather cap-shaped like modern Patella.

*Amer. Nat., Dec., 1902, p. 921.

anaplasia (an "a-plā'si-ä), n. [NL., < Gr. aváπλώσις, reformation, adjustment, ζάναπλάσσειν, reform, mold anew, < aνά, again, + πλάσσειν, form.] 1. In pathol., the sum of the morphological, structural, chemical, and other alterations which cells undergo when assuming the characteristics of malignancy .- 2. Same as *ana-

anaplasis (an-ap'la-sis), n. [NL., ζ Gr. ἀνά-πλασις, reformation, ζ ἀναπλάσσειν, reform, renaplasis (an ar in πλασις, reform, renavard, reformation, ζάναπλάσσειν, reform, renew, restore.] In biol., the history or course of an organic type during the period or stage of anastasis (an-as'ta-sis), n. [NL., ζ Gr. ἀνάστασεις, a raising up or rising up, ζ ἀνιστάναι, stand up.] 1. In med., a condition of increasing up or respectively. full maintained vigor (metaplasis) and the period of its decline or decadence (*cataplasis). Taeckel.

Anapterygota (an-ap-ter-i-gō'tä), n. pl. [NL., appar. ζ Gr. ἀνά, back, again, + πτεριγωτός, winged, ζ πτέρνξ (πτεριγ-), wing.] A group of insects (including the orders Mallophaya and Siphonaptera and the suborder Anoplura) which contains only wingless forms, which, however, are supposed to have descended from winged ancestors.

anapterygotism (an-ap-ter-i-gō'tizm), n. [Anapterygota + -ism.] In entom., a condition of winglessness attained, usually through a parasitic life, by forms with a winged ancestry.

In these facts we have a clue to the change from ex-opterygotism to endopterygotism, namely, by an inter-mediate period of anapterygotism. Encue. Brit., XXIX, 503.

anapterygotous (an-ap-ter-i-go'tus), a. In entom., wingless, although derived from winged ancestors, as the Mallophaga, Siphonaptera, and Anoplura.

These cases render it highly probable that insects may in some circumstances become wingless, though their ancestors were winged. Such insects have been styled anapterygotous.

Encyc, Brit., XXIX. 503.

anaptyxis (an-ap-tik'sis), n. [Gr. ἀνάπτυξις, an anaptyxis (an-ap-tik'sis), n. [Gr. αναπτεις, an openiug, unfolding, ⟨άναπτεσειν, unfold, ⟨ανά, back, + πτύσσειν, fold.] In phonetics, the involuntary utterance of an auxiliary vowel, especially before r, l, m, and n, in certain positions, as in lucre, able, chasm, etc.

anaqua (an-ā'kwā), n. Same as anagua. See

anarcestean (an-\(\text{ar-ses}\)'t\(\text{e-an}\), a. [Anarceste(s)]
+-an.] 1. Pertaining to the Devonian cephalopod Anarcestes.—2. Noting a condition or growth-stage in any goniatite equivalent, in the development of the septa, to the mature the development of the septa, to the mature of communication between two canals or two portions of the same canal, usually the diges-

condition in Anarcestes.

Anarcestes (an-är-ses'tēz). n. [NL., said to be formed \(\) Gr. av- priv. + Arcestes, a genus of ammonites.] A genus of ammonid cephalopeds or goniatites of primitive structure, having very simple septal sutures with single broad lateral lobes. It is of Devonian age.

anarcestian, a. Same as *anarcestean. anarithmoscope (an-a-rith'mō-skōp), magic lantern having slides which are changed automatically.

Anarrhichthyinæ (an-a-rik-thi-ī'nē), n. pl. [Anarrhichthys + -inæ.] The subfamily of wolf-fishes typified by the genus Anarrhichthus.

Anarrhichthys (an-a-rik'this), n. [NL. irreg. ⟨Gr. ἀνσρρ(ιχὰσθαι), clamber up, + ίχθυς, fish.]
A genus of wolf-fishes of the family Anarrhichadida. It is distinguished by the very long and tapering tail, whence the name wolf-eel. A. occitatus is found on the coast of California and reaches a length of 8 fect.

Anarsia (an-är'si-ä), n. [NL. (Zeller, 1839), ⟨Gr. ἀνάρσιος, unfavorable, hostile, ⟨αν- priv. + ἀρσιος, fitting ⟨ *ἀρειν, fit.] A genus of Microlepidoptera, of the family Gelecthiidæ, containing, among others, the very injurious A. lineatella, whose larva bores into the twigs and fruit of the peach in Europe and North Amer-

anarthropod (an-är'thropod), a. and n. [As Anarthropod-a.] I. a. Without articulated appendages; having the characters of the Anarthropoda.

II. n. One of the Anarthropoda. Anaryan (an-ër'yan or -ar'ian), a. [an-5 + Aryan.] Non-Aryan; noting a people which

speaks a language that does not belong to the **anatoid** (an'a-toid), a. [L. anas (anat-), a Aryan family. Deniker, Races of Man, p. 334. duck, + Gr. είδος, form.] Resembling a duck; **anascope** (an'a-skōp). n. [Gr. ἀνά, up, + σκο- duck-like in form or character. Aryan family. Deniker, Races of Man, p. 334. duck, + Gr. εἰδος, form.] Rese anascope (an'a-skōp). n. [Gr. ἀνά, up, + σκο- duck-like in form or character πείν, view.] Än optical arrangement which Anatolian ware. See *ware² cuables one to view the image in a camera anatomicobiological (an-a-tom'i-kō-bi-ō-loj'i-right side up. Woodbury, Encyc. Diet. of Pho-kal), a. Anatomical with a view to biology;

Anaspida (an-as'pi-da), n. pl. [NL., ⟨Gr. är-priv. + ἀσπίς, shield.] An ordinal term introduced by Traquair for a group of singular fishes, chiefly from the Upper Silurian rocks omy.

Anaspida (an-as'pi-da), n. pl. [NL., ⟨Gr. är-qriv anatomicopathological thesis. anatomicopathological (an-a-tom'i-kō-pathological thesis. anatomicopathological (an-a-tom'i-kō-pathological thesis.) of Lanarkshire, without paired fins and having a tubercled skin, a heterocereal tail, and a row of prominent processes along the belly.

In some of the species, as Birkenia elegans, the branchisl openings are a series of small lateral perforations.

anaspidean (an-as-pid'ē-an), a. and n. I. a.

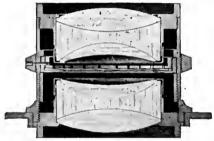
Pertaining to or having the characters of the

ing health and vigor; convalescence.—2. Res-

anastatic, a. 2. In bot., reviving after desiccation, as so-called resurrection-plants.

nastigmat (an-as'tig-mat), n. [G. anastig-

anastigmat (an-as'tig-mat), n. [G. anasug-mat: see anastigmatic.] A system of lenses in which the astigmatic aberration is overcome anatriæne (an-a-tri'en), n. [Gr. aνά, up, back, + τρίανα, a trident.] In the nomenciature of the spicular elements of sponges, a straight cyanastigmat (an-as'tig-mat), n. which the astigmatic aberration is overcome and a flat field obtained. It is of special use in photography. There are various forms with special tradenames, as collinears, planars, protars, unars, etc.—Convertible anastigmat (called in German satzanastigmat), a combination of two Zeiss amstigmats which for many purposes can be used separately.—Double anastigmat, a combination of two triple cemented lenses, each anastigmatically aplanatic. Such a system, invented by Van Hoegh, was put out in 1892 by the Goerz firm.



Double Anastigmat.

Several forms with different trade-names have been since added by the same firm, each with its own special advantages.—Universal symmetric anastigmat, a very rapid system of lenses covering a view-angle of 65° and consisting of two triple cemented lenses.

anastigmatic (an-as-tig-mat'ik), a. [< an-5 + astigmatic.] Not astigmatic: applied to a lens.

portions of the same canal, usually the digestive tract, not previously in continuity.

Anastomotic artery, a term applied to several small arteries, in different portions of the body, which serve to connect two larger vessels.

anastomotica (an-as-tō-mot'i-kä), n. See ar-Anastomotica (alr-as-ti)-mot ran), n. See a retrieva anastomotica.—Anastomotica magna. (a) A branch of the brachial artery supplying the parts about the elbow and anastomosing with other branches of the brachial and of the ulna. (b) A branch of the femoral artery supplying the parts about the knee-joint and anastomosing with other articular branches of the femoral and tibial arteries.

Anastrophia (an-a-stro'fi-ä), n. [NL., < Gr. άναστροφή, a twisting about: sec anastrophe.] A genus of pentameraceous brachiopods from the Silurian and Devonian rocks.

anat. An abbreviation of anatomy and anatomi-

See *cup. Anathema cup.

anathesis (a-nath'e-sis), n. [Gr. ἀνάθεσις, a putting off, ⟨ἀνατιθέναι, put off, etc.: see anath-

ema.] Vowel-mutation; umlaut: a proposed term, searcely used. See mutation.

Anatinacea (a-nat-i-nā/sē-ā), n. pl. [NL., < Anatina + -acea.] A suborder of Eulamelli-Anatma + -acea. A suborder of Entameta-branchiata. It includes the bivalve mollusks which have the external branchial fold directed dorsally, not reflected, sexes united, male and female reproductive glands with separate orifices, mantle edges largely united, byssus generally lacking, two adductor muscles, pallial line variable, and shell usually nacreous within. Among the families included are Anatimidæ, Pandoridæ, Pho-ludomyidæ, and Clavagettidæ. Both living and fossil forms are found.

anatinacean (a-nat-i-nā'si-an), a. and n. I. a. Pertaining to or having the characters of the Anatinacea.

II. n. One of the Anatinacea.

kal), a. Anatomical with a view to biology; treating of biology as illustrated by anatomy; as, an anatomicobiological thesis.

anatomobiological (a-nat "ō-mō-bī-ō-loj'i-kal), a. Same as *quatomicobiological.

anatomy, n.—Medical anatomy, descriptive anatomy of the heart, lungs, and other parts, the diseases of which are not usually amenable to surgical treatment.— Morbid anatomy. Same as pathological anatomy.

Plastic anatomy, surface anatomy in its relation to art.

—Practical anatomy. Same as anatomy, 1.—Surface anatomy, the study of the markings and configuration of the surface of the body.

anatrepsis (an-a-trep'sis), n. [NL., \ Gr. ἀνά, back, + τρέψε, a turning.] In embryol., that movement of certain insect embryos which brings them back to the ventral surface of the

or cladisks bent backward make a form like that of an anchor with three arms. It belongs to the tetraxial system of spicules. See sponge-

anatriptic (an - a - trip ' tik), a. [anatripsis (-tript-) + -ic.] Frictional; specifically, in med., of or pertaining to the use of rubbing or friction for remedial purposes.

anauca (ä-nä-ö'kä), n. [Native name.] A tree of the bean family, Erythrina umbrosa, a native of northeastern South America, which is used as a shade-tree in the cultivation of cacao. Also called *bucare (which see). [Trinidad.1

anautotomic (an-â-tō-tom'ik), a. Not self-in-

Anautotomic, unicuspidal, hicuspidal and tricuspidal quartics admit of a subsidiary division depending on the number of points of undulation they possess; and it must be horne in mind that, although it is convenient to use the term point of indulation, it is the tangent at this point and not the point itself which is the actual singularity.

Nature, Nov. 27, 1902, p. 80.

anaxial (an-ak'si-al), a. [Gr. av- priv. + L. axis, axis, + -al.] Without a definite axis or axes; of irregular or asymmetrical form.

anaxile (an-ak'sil), a. [Gr. av-priv. + L. axis, axis: see axile.] Noting such independent elements or spicules of sponge skeletons as do not show derivation from the unique of the statement of the second statement of the second statement of the second s axial, tetraxial, or hexaetinellid type. Such spicules are spherical, cylindrical, discoid, or stellate.

anaxone (an-ak'sōn), a. [Gr. σν- priv. + άξων, axis.] In neurol., having no neuraxon or axis cylinder: said of certain nerve-cells. Buck,

Med. Handbook, II. 334.

anaxonial (an-ak-sō'ni-al), a. [Gr. ἀν- priv. + ἀξων, axis, + -ial.] Having no definite axes of growth. See anaxonia.

ancecrite (an-ses'e-rit), n. [Irreg. (Gr. α) κη, the bent arm, + κέρας, horn, + itc².] In crustaceans, a curved projection at the base of the peduncle of an antenna.

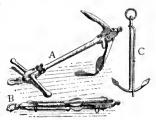
Ancestral forms, the ancestors of an organism in any remote generation or generations considered collectively.

—Ancestral heredity, inheritance. See *inheritance. Anchieta bark. See *bark 2.

anchor¹, n. 7. In the tug of war, the man at the held.

anchor', n. 7. In the tug of war, the man at the end of the line, who is supposed to hold while the rest endeavor to pull.—8. Same as

while the rest echapelet, 4.—
Anchor system, the mnemonic system according to which the ideas to be remembered are rendered readily recoverable by being deliberately associated with other ideas that are, either by familiarity or by their striking character, already easily recoverable. Thus it is an application of the



Folding Anchor. A, anchor open; B, anchor closed; C, shifting stock anchor with stock stowed,

anchor system to remember the map of Italy by its similarity to a boot. Also called peg system.—Folding anchor, a boot's anchor having a stock and fluxes which, when not in use, can be folded against the shank for convenience in stowing on board. Several styles are in use.—Shiftingstock anchor, a boot's anchor in which the stock is kept in place by a pin and, when not in use, can be laid against the shank for convenience in handling.—Stockless, the shank for convenience in handling.—Stockless, anchor, a boat's anchor having pivoted fluxes which fall into the holding position without the aid of a stock.

Ancistroid (an-sis'troid), a. [Gr. ἀγκιστροειδής, άρχιστρον, a fish-hook, + εἰδος, form.] Hookshaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, saped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., ἀγκιστροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, chaped. Syd. Soc. Lex.

Ancistrus (an-sis'troid), a. [NL., αλοικοτροειδής, c

anchorate, a. 2. As applied to the spicules of the sponges, having a pronged anchor-shaped arrangement at one or both ends, especially in the monactinellids.

II. n. An anchorate spicule.

anchor-ax (ang'kor-aks) n. An anchor-shaped ax of stone, formerly used by the natives of Brazil.

anchor-bar (ang'kor-bar), n. A wooden handspike used for prying the anchor off the bill-board, that is, the resting-place of the fluke.

anchor-beam (ang kor-bem), n. A steel or iron beam forming a part of the anchorage of the cables or chains of a suspension-bridge.

anchor-bed (ang'kor-bed). n. In shipbuilding, a support or platform on the deck, forward, on which the heavy anchors are secured when not In war-ships these beds are usually recessed below the deck-level to keep the anchors out of the line of fire of the large guns. anchor-bolt, n. 2. A long bolt which serves to

hold down a steam-engine or other piece of machinery to the masonry foundation on which it rests. The bolt passes down through the bed-or base-plate and far enough into the foundation to be securely held at its lower end by plates or other holding-devices to anchor it in place. When the nut above the bed-plate is tightened down, the machine is securely fastened to the mass of the foundation.

anchor-bracket(ang'kor-brak"et), n. A bracket or block which carries the fulcrum of a lever; a bracket to which the stationary end of a brake-band is attached.

anchor-crane (ang'kor-kran), n. In shipbuilding, a crane mounted on the deck of a ship for handling the anchor from the hawse-pipe to the bill-board or anchor-bed after the anchor is weighed. See cut of *battle-ship.

anchor-dragger (ang'kor-drag"er), n. One who makes a business of 'dragging' harbors and other anchoring-places for ships' anchors which have been lost during gales or other-W. M. Duvis, Elem. Phys. Geog.

anchored, p. a. 4. In billiards, said of two object-balls which, with the cue-ball near, straddle a short line close to the cushion, because a player can hold them long in that position by playing alternately from side to side. This is possible only in games of balkline billiards, and since 1893 has been barred among the best players.

anchor-light (ang'kor-lit), n. hibited on anchored vessels between sunset and sunrise.—Anchor-light law, that section of the international regulations of July 1, 1897, which provides for lighting anchored vessels in such a manuer as to pre-

vent collisions.

anchor-line (ang'kor-lin), n. A line attached to a small buoy and to one finke of an anchor: used in towing a raft of logs and to free the auchor when fast to rocks or snags. [U. S.]

anchor-money (ang'kor-mun"i), n. An Eng-

ish colonial coinage, so named from its device, first struck for Mauritius in 1820.

anchor-plate, n. 3. Naut.. the metal resting-place for the fluke of the anchor when the latter is fluked. See Set 18 (2)

ter is fished. See $fish^1$, 6 (b). And aquies wax. See wax-ter is fished. See $fish^1$, 6 (b). Anderson process. See *process. anchor-rod (ang'kor-rod), n. The rod or bolt which connects the bed-plate of an engine to and rine (an- $d\bar{t}$ 'rin), n. [Andira + -ine².] an anchor-plate buried in the foundation.

anchor-wing (ang'kor-wing), n. The Australian black-cheeked falcon, Falco melanogenys: so named from the fancied resemblance of its outspread wings to the flukes of an anchor.

Anchovia (an-kō'vi-ā), n. [NL., < E. an-chovy.] A genus of anchovies of the family Also called sundtite and webnerite.

Engraulididæ, now usually defined so as to inelude nearly all the tropical species. It is dis.

Andrewae + -aceæ.] A family of mos tinguished from the anchovies of temperate regions (Engraudis) by the fewer vertebræ. Also wrongly called Stolephorus.

Stotephorus.
anchovy, n.—Silvery anchovy, a name of Anchovia browni.—Striped anchovy, Anchovia browni, found on the Atlantic coast of North America.
Ancient house, one which has stood long enough to aequire an easement of support.
Bouvier, Law Dict.

Ancient house, one which has stood long enough to acquire an easement of support.

Bouvier, Law Dict.

Andrewales (an-dre-e-a'lez), n. pl. [NL., < latter in favor of the former. Also androlepsy.

Andrewales (an-dre-e-a'lez), n. pl. [NL., < latter in favor of the former. Also androlepsy.

Andrewales (an-dre-e-a'lez), n. pl. [NL., < Gr. androlepsy (an'dre-e-si), n. Same as *androlepsy.

ancient times were better than the present.

J. W. Powell, First An. Rep. Bur. Ethnol., a wip (avbρ-), man, + εκλεξα, selection.] Sexual selection through choice exercised by the nology of J. W. Powell, the whole theoretical ancientism (an' shent-izm), n. [ancient +

a crucifix, prop. **ancon; cf. L. ancon, a console or volute, ζ Gr. άγκών, a bend, a jutting angle in a wall, etc.: see ancon.] An altarpiece or group of pictures elaborately mounted in an architectural setting.

This altar-piece now hangs on the north wall of the choir of the Collegiata. It is a Gothle ancona in which four scenes are represented.

L. Douglas, in Burlington Mag., I. 309.

Ancona ruby. Same as rubasse. ancoume (än-kö'mā), n. [Kongo name.] In the Kongo region of West Africa, the fragrant Same as rubasse. yellow resin of Ancoumea Klaincana, a tree of

the family Balsamcaceæ.

ancylite (an'si-lit), n. [Gr. άγκίλος, crooked, + -ile².] A hydrated carbonate of strontium and cerium occurring in from yellow to brown orthorhombic crystals with curved faces: found in southern Greenland.

Ancylocladus (an - si - lok 'la - dns), n. Kuntze, 1891; proposed but not established by Wallich in 1832), named in allusion to the contorted tendrils, (Gr. ἀγκίλος, crooked, curved, + κλάδος, branch.] An apocynaceous genus of plants improperly known as Willughbeia. See Willughbeia.

Ancylopoda (an-si-lop'ō-dä), n. pl. [NL., ζ Gr. ἀγκύλος, crooked, + πούς (ποδ-), a foot.] Gr. αγκύλος, crooked, + ποῦς (ποδ-), a foot.] An order of extinct ungulato mammals, proposed by Cope for such genera as Ancylotherium and Chalicotherium, based on fragmentary remains from the early Tertiary deposits.

ancylopodous (an-si-lop'o-dus), a. to or resembling in structure or appearance the Ancylopoda.

ancylostome (an-sil'ō-stōm), n. [Gr. άγκύλος, bent, $+ \sigma \tau \phi \mu a$, mouth.] A blood-sucking parasitic worm of the genus *Uncinaria*, sometimes

found in the human intestine.

ancylostomiasis (an-si-los-tō-mi'a-sis), n. [NL., $\langle Ancylostoma$ (see def.) + -iasis.] A disease characterized chiefly by a profound anemia, sometimes associated with dirt-eating as cause or effect, due to the presence of one of several species of blood-sucking intestinal parasites of the genus Ancylostoma. Also called dochmiasis, uncinariasis, tunnel-discase, brickmakers' or miners' anemia, and Egyptian chlorosis.

Anda-assu oil. See *oil.

The light ex- andabatarian (an-dab-a-tā'ri-an), a. [andab-etween sunset atu +-arian.] Pertaining to or characteristic of an andabata or gladiator who fought blindfolded; hence, misdirected: said of blind, struggling endéavor.

andalusitic (an-da-lū-sit'ik), a. [andalusite + -ie.] Containing or resembling and almsite. And aman bullet-wood. See *bullet-wood.

andante, a. Special varieties of movement or style are indicated by adding other terms, as: andante con moto, in flowing style, with some quickness; andante man troppo, in flowing style, but not too slow; andante cantabile, with the movement of a song; andante massconditions, with a stately movement; and ante pastorale, in the easy style of a pastoral melody.

Andaquies wax. See wax2.

Same as *surinaminc.

undorite (an'dō-rit), n. [Andor (Andor von Semsey (?), a Hungarian) + - ite^2 .] A sulphid andorite (an'dō-rit), n. of antimony, lead, and silver occurring in steel-gray orthorhombic crystals with brilliant metallic luster: found in Hungary and Bolivia. Also called *sundtite* and *webnerite*.

[NL.. < Andrewa + -aceæ.] A family of mosses containing the genus Andrewa only. For charac-

ters see Andrewa.

andreæaceous (an-drē-ē-ā'shius), a. [Andrewacce + -ous.] Belonging to or having the characters of mosses of the family Andrewa-

male. Compare *gyneclexis. Ward, Pure So. ciol., p. 361.

andreia (an-dri'ä), n. pl. [Gr. ἀνόρεῖα, neut. pl. of ἀνόρεῖος, adj., of men, 〈ἀνίρ (ἀνόρ-), man.] In Gr. antiq., public meals, especially in Crete and Sparta.

andreion (an-dri'on), n.; pl. andreia (-a). haps for Gr. ανδρειών, ανδρεών, Attic ανδρών, m.. the men's hall (see andronitis); otherwise (Gr. *aνδρείον, Cretan ανδρήιον, a public hall where meals were served: see *andrcia.] A hall in which public meals were served.

Whether Labyrinth, Palace, or Andreion, It is evident that the prehistoric building, as yet so imperfectly known to us, belongs to the great age of Mycenæ. Evans, Cretan Pictographs, p. 12.

andrenoid (an'dre-noid), a. Having the characteristics or appearance of a bee of the family Andrenidæ.

Andreoli process. See *process. andrewsite (an'drö-zīt), n. [Named after Thomas Andrews (1813-86).] A hydrated phosphate of iron and copper occurring in bluishgreen radiate forms: found in Cornwall.

Andrias (an' dri-as), n. [NL., ζ Gr. ἀνδριάς, an image of man, ζ ἀνδρι (ἀνδρ-), man.] The generic name given by Tschudi to the giant salamander from the Miocene of Eningen, the remains of which when found were regarded as human and were characterized by Scheuchzer as Homo diluvii testis. Andrias scheuchzeri attained a length of one meter, and there is a smaller species of the same geologic age. androcentric (an-dro-sen trik), a. [Gr. $a\nu\eta\rho$ ($a\nu\delta\rho\sigma$ -), a male. $+\kappa\ell\nu\tau\rho\sigma\nu$, center.] Centering around the male; relating to the theory that

all animal life normally centers around the

all animal life normally centers around the male. Ward, Pure Sociol., p. 291.

androclinium (an-drō-klin'i-um), n.; pl. androclinia (-ä). [NL. < Gr. avip (àvōp-), man (male), + κλινη, couch.] See elinandrium.

androconia (an-drō-kō'ni-ä), n. pl. [NL., < Gr. avip (àvōpa-), male, + (?) κόνα, dust.] Certain specialized scales occurring in limited areas on the wings of the males of certain Lepidoptera. tera. They function as scent-seales and arise from scent-glands situated in folds of the wing. Androconia-like scales have also been tound on the wings of a caddis-fly (Mystaciades punctata).—Androconia glands, groups of formative specialized cells which secrete an odorous fluid.

androcracy (an-drok 'ra-si), n. (aνδρο-), man, + κρατείν, govern.] Authority and rule by man; hence, society organized on the basis of male supremacy. Compare gynccorracy. Ward, Pure Sociol., p. 341.

androcratic (an-dro-krat'ik), a. Pertaining to androcracy or the supremacy of man over woman in social relations, or having the quality of such supremacy. Ward, Pure Sociol., ity of such supremacy. p. 399.

androdiœcism (an "drō-dī-ē'sizm), a. The character of being androdiccious.

Androdiacism signifies that the same species has both male and hermaphrodite plants.

Henslow, Origin of Floral Struct., p. 227.

androgametangium (an "dro-gam-e-tan'jium), n.; pl. androgametangia (-ā). [NL., < Gr. àνήρ (ἀνδρ-), male, + γαμέτης, spouse (see gamete), + ἀγγεῖον, vessel.] Same as antheridium.

androgamete (an-dro-gam'ēt), n. [Gr. ἀνήρ (ἀνδρ-), male + γαμέτης, spouse (see gamete).] In bot., a male sexual cell.

androgenetic (an'drō-jē-net'ik). a. [Gr. ἀνηρ (ἀνδρ-), male, + E. genetic.] Productive of males only.—Androgenetic parthenogenesis, the production of males alone from unfertilized eggs; arrhenotoky. See *homoparthenogenesis.

androgonidium (an drō-gō-nid'i-um), n.; pl. androgonidiu (-ä). [NL., Gr. ανήρ (ἀνδρ-) male, + NL. gonidium.] 1. One of the male cells formed in Volvox which later subdivides into Cohn. -2. Same numerous spermatozoöids. as androspore.

androgynic (an"dro-jiu'ik), a. Having two sexes; androgynous; hermaphroditic.

Soc. Lex.

androlepsia (an-drō-lep'si-ä), n. [Gr. ἀνδρο-ληψία, seizure of men.] In international law. the seizure by one nation of the citizens cr subjects of another, and the holding of them, to compel the performance of an act by the latter in favor of the former. Also androlepsy. androlepsy (an'drō-lep-si), n. Same as *an-

science of individual man, physiological and Anemia² (a-nē'mi-ä), u.

Man is preeminently the psychic animal, so that human psychology is set over against the other attributes of man, which are grouped under the term somatology; therefore man studied as a human body gives rise to the acience of somatology and the science of psychology. To these two sciences as a group 1 give the name andrology, while andrology and demology constitute anthropology, which is the ensumary term; but as the science is coordinate with the greater systems, I shall use the term anthroponomy. anthroponomy.

J. W. Powell, in Amer. Anthropologist, Oct.-Dec., 1901,
[p. 604.

andromedid (an-drom'e-did), n. [Lit. 'de-seendant of Andromeda'; < Andromeda + -id².] Same as andromed.

andromedotoxin (an-drom/e-dō-tok/sin), n. [Andromeda, a genns of plants, + toxin.] Same as *asebotoxin. Yearbook U. S. Dept. Agr. 1897, p. 97.

andromonœcism (an'drō-mō-nē'sizm), n. [andromonæc(ious) + -ism.] The character or condition of being andromonœcious.

Andromonocism signifies that the same plant bears both male and hermaphrodite flowers.

Henslow, Origin of Floral Struct., p. 227.

andronia (an-dro'ni-ä), n. [NL., ζ Gr. ἀνήρ (ἀνδρ-), man (?).] A name given by Winterl in 1800 to a supposed new earth which was shown by a committee of the French Academy of Sciences to be merely a mixture of well-known substances.

androphobia (an-drō-fō'bi-ä), n. [NL., < Gr. aνήρ (ἀνδρ-), man, + -φοβία, < φοβεῖν, fear.] Fear of or repugnance to the male sex.

androphore, n. 1. (b) A stalk supporting an andreeinm.

androphyl (an'drō-fil), a. [Gr. ἀνήρ (ἀνδρ-), male, + φίλλον, leaf.] A male sporophyl; a stamen.

androplasm (an'drō-plazm), n. The material that is supposed, by Haeckel and others, to enter into the composition of male cells and to give them their distinctive character, and to be unlike anything that enters into the composition of female cells.

This "sex-sense" of the two gonoeytes, or elective affuity of the male androplasm and the female gynoplasm, is the cause of mutual attraction and union.

Haeckel (trans.), Wonders of Life, p. 245.

androrhopy (an-dror'ō-ni), n. [Gr. ἀνήρ, male, + ροπή, downward inclination.] The state or condition of a species in which the males depart more widely than the females from the ancestral condition, as exhibited by the young of both sexes or by allied species.

Androsace (an-dros'a-sē), n. [NL., < L. audrosaces, (Gr. ανδρόσακες, an uncertain plant.] A genus of small tufted perennial plants of the family Primulaceæ, commonly called rock-jasnaminy Trimutaeese, commonly cancel rocky someone, cultivated in alpine gardens. The only species much known in the United States are A. langunosa, A. sarmentosa, A. carnea, and A. eximea. There are about 50 species, most of which are found in the mountains of the northern hemisphere.

androsporangium (an-dro-spo-ran'ji-nm), n.; pl. androsporangia (-ä). [Gr. ἀνήρ (ἀνόρ-), male, + NL., sporangium.] A sporangium containing androspores.

androtauric (an-drō-tâ'rik), a. [Gr. ἀνήρ (ἀνδρ-) man, + ταῦρος, bull.] In Gr. antiq., a term applied to mythologic monsters in which the forms of bull and man are combined, as an androeephalous bull or a tauroeephalous man.

ane. 3. A suffix applied to the names of

elasses in the quantitative classification of igneous rocks. See *rock1. igneous rocks. See *rock1.
anecdoted (an'ek-dō-ted), p. a. Made the subject of an anecdote.

It is a story they tell in Rome, where everybody is anecdoted.

iV. D. Hovells, Ital. Jour., p. 170.

anectobranchiate (a-nek-tō-brang'ki-āt), a. [Gr. ἀν-, priv. + ἐκτός, without, + βράγχια, gills.] Having no external gills, as the gills.] Having no externa Melonitoida among echinoids.

anelectrotonically (an-ē-lek-trō-ton'i-kal-i), adv. In a manner having relation to aneleetrotonus.

trotonus.

anemia 1, n.— Brickmakers' or miners' anemia, anemia due to the presence of Ancylostoma in the intestine,—Polar anemia, a condition of blood impoverishment to which explorers and others wintering in the polar regions are itable: probably due to tack of fresh food, the inability to take sufficient exercise, and the absence of studight.— Primary anemia, anemia arising from no discoverable cause.— Sacondary anemia, anemia due to some manifest cause, such as frequent losses of blood, malaria, cancer, etc.—Splenic anemia, a condition in which anemia is associated with enlargement of the spleen, but without enlargement of the lymphatic glands.

S—4

Anemia² (a-nē'mi-ā), u. [NL. (Swartz, 1806), irreg. < Gr. ανείωων, naked.] A genus of small, simply pinnate or decompound, schizæaceous simply pinnate or decompound, schizwaceous ferns, characterized by having the ovate, sessile sporangia borne biserially upon the two elongate, rachiform-paniculate, lowermost pinnæ, or, if the genus is accepted in a wide sense, sometimes upon separate fertile fronds. Strictly delimited, the bulk of the species usually referred here will be placed under Ornithopteris, a genus technically distinguished from the typical Amenia by its free venation. The species are mainly tropical American.

Anemic gangrene.

See *gaugrene.

anemobarometer (ane e. mo. barrom'e + ter) ne

anemobarometer (an "e - mo- ba- rom e - ter), n.
An instrument consisting of two tubes leading from closed vessels containing barometers up to a free exposure to the wind. One tube open to the windward so that its harometer indicates the static atmospheric pressure plus the wind-pressure; the other tube opens to the leeward and gives the atmospheric pressure diminished by the wind-pressure or some portion thereof. From a comparison of the two readings one obtains the correct air-pressure and wind-pressure separately. As modified in 1887, only one tube is used, opening into the space between two horizontal planes. to a free exposure to the wind.

manemochore (a-nem'ō-kōr), n. [Gr. ἀνεμος, wind, + χωρείν, spread abroad.] In phytogeog., a plant whose seed is disseminated by the wind, as by means of pappus, etc. F. E. Clements. anemochorous (an-e-mok'o-rns), a. [anem

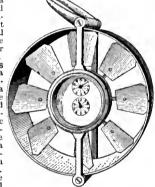
anemochorous (an-e-mok'o-rns), a. [anemo-aneretic, a. See anæretic. chore + -ous.] Having the character of an anemochore. F. E. Clements. donbted reading, equiv. to αεργία (cf. ἀνεργος,

anemogen (a-nem'ō-jen), n. [F. anémogène; αν- priv. + ἐργον, work.] Lack of (Gr. ἀνεμος, wind, + -γενής, -producing.] An apparatus for experimentally producing, measuring, and studying enrrents of air analogous cient in energy. to the natural currents in the earth's atmosphere.

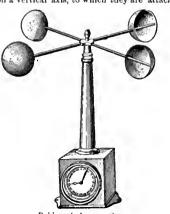
Instrumental readings into true wind-velocities or wind - pressures.

Hagemann's

anemometer, a form of auction-anemometer; a vertical tube whose lower end whose lower end opens in a manometer and whose apper end is exposed to the free wind and has a smalltip and an oralitic across which the wind blows.



the wind blows. The velocity of the wind is deduced from the snetion or rarefaction produced within the tube by the action of the wind. Special modifications of this instrument have been introduced by Abbe and Dines.—Helicoidal anemometer, a modification of Woltman's anemometer in which the radial arms are dispensed with and plates bent into helicoidal arms are dispensed with and plates bent into helicoidal arms are dispensed with and plates bent into helicoidal arms are agreement. The pendulum anemometer; a plate of metal tung as a pendulum anemometer; a plate of metal hung as a pendulum broadside to the wind, and whose deflection from the vertical cau be measured on a scale. First described in 1666.—Lander's anemometer, an ancmometer (more properly anemograph) in which a delicately counterpoised rubber bellows is inflated by the pressure of the wind and lifts a small conical float suspended in glycerlo so as to damp its oscillations. The movement of the float and the direction of the wind are both recorded.—Reflecting anemometer, the name originally given to what is better known as Aimé's nephoscope.—Robinson's anemometer, four hollow hemispheric metallic cupa revolving, when exposed to the wind, on a vertical axis, to which they are attached by



arms crossing at right angles. The motion is transmitted by an appropriate mechanism to a hand over the dial where the velocity of the wind is indicated.

anemophily (an-e-mof'i-li), u. [anemophil(ous) + -y3.] In bot., the fact or character of being anemophilous.

anemophobia (an "e-mō-fō'bi-ä), n. [Gr. ὁνεμος, wind, + -φοβία, fear.] A morbid fear of high winds. G. S. Hall, Adolescence, II. 185.

anemotropic (a-nem-ō-trop'ik), a. [Gr. ἀνεμος, wind, +τροπος, a turning.] Concerning or pertaining to the attitude or movement of organisms in relation to the direction of the wind.

anemotropism (an-e-mot'rō-pizm), n. [anemotrop(ic) + -ism.] The movement of organisms or the attitude of their bodies in relation to the direction of the wind.

This peculiarity . . . is an orientation of the body with respect to the wind. As it appears to be a true tropism I shall call it anemotropism.

W. M. Wheeler, Archiv f. Entwicklungsmechanik, 8. 373.

anencephalotrophic (an-en-sef"a-lō-trof'ik),
a. Characterized by anencephalotrophia or atrophy of the brain.

arephebic (an-e-fe'bik), a. [Gr. $\dot{a}v\dot{a}$, up, + $\dot{\epsilon}\phi\eta_{\beta}\sigma_{\varsigma}$, adult: see ephebic.] The early portion of the ephebic or adult stage in the development of an organism. Hyatt.

cieut in energy.
anergy (an-èr'ji), n. [NL. anergia.] Same

as *anergia.

anemometer, n.—Biram's anemometer, a special form of wind-gage.—Calibration of anemometer, the study of an anemometer by means of the standard whirling apparatus so as to convert its bustumental its bustumental anestheric anestheric anestheric anestheric anestheric mixture, a mixture of ether, petroleum ether, and chloroform, used by inhalation in the production of general anæsthesia. anesthetic, a.—Anesthetic ether, leprosy. See ether!, 3 (b), lepra.—Schleich's anesthetic mixture, a mixture of ether, petroleum ether, and chloroform, used by inhalation in the production of general anæsthesia. anethical (an-eth'i-kal), a. Devoid of ethical condition of the production of the period of the petroleum ethical pe

quality; neither ethical nor anti-ethical. Ward, Pure Sociol., p. 303.

aneuria (a-nū'ri-ā), n. [NL., ζ Gr. ἀνευρος, without sinews (nerves), ζ ά- priv. + νεῦρον, sinew: see nerve.] Lack of nerve force.

aneuric (a-nū'rik), a. Lacking in nerve force;

neurasthenic.
aneurism, n. 2. In thermom., an enlargement

aneurism, n. 2. In thermom., an enlargement of the capillary tube of the thermometer. Tait, in Nature, XXV. 90.—External aneurism, dilatation of an artery ontside of the visceral cavities of the body and therefore accessible to surgical methods of treatment. Also called surgical aneurism.—Gelatin treatment for aneurism, the administration of gelatin, which has the property of rendering the blood more congulable and therefore favors clotting within the aneurismal sac.—Internal aneurism, dilatation of an artery within one of the cavitles of the body and which is therefore not amenable to surgical treatment. Also called *medical aneurism.—Medical aneurism, Same as internal *aneurism.—Miliary aneurism, minute aneurisms affecting one or more of the small arteries of the hrain, rupture of which is a common cause of apoplexy.—Racemose aneurism, a condition of dilatation, lengthening, and tortuosity of the blood-vessels (arteries, capillarics, and veins) of a part.—Surgical aneurism, acavity containing blood and sometimes pus, formed hetween the layers of one of the valves of the heart.—Worm aneurism, an aneurism in horses caused by roundworm layer helonging to the species Strongytus vulgaris.

aneurism-needle (an' ū-rizm-nē"dl), n. A

aneurism-needle (an'ū-rizm-nē "dl), n. curved, blunt-pointed rod with an eye at the point, used for passing a ligature around an artery which it is desired to obliterate in the treatment of aneurism.

angarep (an'ga-rep), n. [Native name in Abyssinia (†). Appar. not in Egyptian Ar.] A light bedstead used by the Arabs, consisting of a simple framework set upon legs and covered

simple framework set upon legs and covered with a network of green rawhide which hardens to the tightness of a drum when dry. On this is laid the mat. Sir S. W. Baker, Nile Trib. Abyssinia (cd. 1867), p. 113.

angarilla (än-gä-rēl'yä), n. [Sp.; in pl. a hand-barrow, panniers, etc.] 1. A litter.—2. pl. In South America, a pair of uncovered boxes made of rawhide, fastened to each ond of a pole also covered with hide. The pole is placed across the back of a mule or a donkey, so that the boxes or chests hang on each side of the animal. Children are frequently carried on long journeys in angarillas.

3. A net used for carrying things. angekok (an'ję-kok), n. [Eskimo angakok.] Among the Eskimos of Aretic America, a medi-

eine-man; a sorcerer; a shaman.

angel, n. 6. In modern theat. slang, one who advances money to put a new play on the poards; a financial backer .- 7. Same as angelfish.—Black angel, a Bahaman name of the chiriyita (Pomacanthus paru), a West Indian species of Chætodon-

angel-cake (ān'jel-kāk), n. White sponge-

angeldom (an'jel-dum), n. [angel+-dom.] The realm of angels.

All the light of angeldom.

Mrs. Browning, Drama of Exile, Chorus of Angels, sc. 3.

angel-fish, n.—Yellow angel-fish, the isabelita, Hodacanthus ciliaris, a gorgeously colored fish of the West Indies, of the family Chectodontide. Also called blue angel-fish.

angel-food (ān'jel-föd), n. Same as *angel-cake. angelica, u.—Oil of angelica, an essence or essential oil obtained from the seeds of plants of the genus Angelica. angelica-root (an-jel'i-kä-röt), n. The aromatic root of Coleopleurum Gmelini and Angelica atropurpurea.

angelicin (au-jel'i-sin), n. [angelica + -in².] An amaroid. C₁₈H₃₀O, obtained from Cole-opleurum Gmelini. It is crystalline and melts

at 126.5°C

Angelina (an-je-lī'nä), n. [NL., < Angelin, a Swedish paleontologist.] Agenus of trilobites, A. sedywicki is an example, having a of which conic glabella with faint or no lateral fur-rows, long genal spines, 15 thoracic segments, and a small pygidium. It is of Upper Cambrian age.

angeline (an'je-lin), n. Same as *surinamine. angelito (än-he-lē'tō), n. [Sp., 'little angel'; dim, of angel, angel.] A stingless honey-bee, belonging to the genus Melipona, found in tropical America. It forms its nests in trees, and keeps its honey in cups about the size of pigeons' eggs.

angelography (ān-je-log'ra-fi), n. A treatise on angels. [Rare.] N. E. D.

Angelonia (au-je-lō'ni-ä), n. [NL.] A genus of perennial herbs and sub-strubs of the family Scrophulariaceæ, with handsome, irregular, 2lipped, axillary flowers, grown as pot-plants in warm glass houses. There are about 24 species in the northern part of South America, Mexico.

and the West Indies.

angico (än-jē'kō), n. [A European (Sp.?) form, also angica, canjica, of a supposed native name in Brazil.] The name in Brazil and Paraguay for a tree of the mimosa family, Stachychrysum rigidum, which yields an extremely hard, durable, dark-brown wood, and a gum similar to gum arabic. Both the gum and the astringent bark are used medicinally by the natives. See Prptadenia.

angiectopia (an"ji-ek-tō'pi-ä), n. [NL., < Gr. άγγεων, vessel, + ἐκτοπος, out of place.] An abnormal position of one or more of the important blood-vessels.

angiitis, n.—Consecutive angiitis, inflammation of the vessels caused by extension of the process from neighboring inflamed tissues.

angina, n.—Angina dyspeptica, a spurious angina pectoris caused by gascons distention of the stomach.

-Vincent's angina, a sore throat resembling diphtheria but associated with the presence of a different variety of

anginiform (an-jin'i-fôrm), a. [L. angina, angina, + forma, form.] Resembling angina, especially angina pectoris.

angioblast (an' ji-ō-blast), n. [Gr. ἀγγείον, vessel, + βλαστός, germ.] In embryol., an embryonic cell which takes part in the formation of the blood-vessels and -corpuscles.

angioblastic (an"ji-ō-blas'tik), a. 1. Of or pertaining to angioblasts.—2. Forming bloodvessels or -corpuseles.

angiocarpic (an/ji-o-kar'pik), a. Same

angioceratoma (an"ji-ō-ser-a-tō'mä), n.; pl. angioceratoma (an j. γ., μ., μ., angioceratomata (-ma-tä). [NL.. ⟨ Gr. άγκεον, vessel, + κέρας (κερατ-), horn, + -oma.] An eruption of horny reddish nodules caused by hypertrophy of the epidermis over circumscribed dilatations of the cutaneous capilla-Also angiokeratoma.

angioclast (an' ji-ō-klast), n. [Gr. $\dot{a}\gamma\gamma\epsilon\bar{\iota}o\nu$, vessel, $+ \dot{\kappa}'a\sigma\tau\dot{\sigma}c$, $\langle \kappa\dot{\lambda}\dot{a}\nu$, break.] An instrument shaped like a forceps, used to compress a bleeding artery. Buck, Med. Handbook, IV.

angioda (an-ji-ō'dā), n. pl. [NL., ζ Gr. ἀγγείων, vessel. The form suggests Gr. ἀγγείωδης,
like a vessel, hollow, but the sense differs.]
A collective name for those mammals in which

+ L. fibra, fiber, + -oma.] A mixed angioma and fibroma.

angioid (an'ji-oid), a. [Gr. *άγγειοειδής, άγγει-ώδης, ζάγγείον, vessel, + είδος, form.] Resembling a blood-vessel or lymphatic. Buck, Med. Handbook, VI. 955.

angiolithic (an-ji-φ-lith'ik), a. [Gr. αγγείον, vessel, + λίθος, stone.] Noting hardening of the vessels.- Angiolithic degeneration. See *de-

Angioma serpiginosum, [See serpigo.] An eruption of prominent red dots arranged in ring-shaped figures.—
Cavernous angioma, a vascular tumor containing large open spaces filled with blood.

angiomatosis (an'ji-ō-ma-tō'sis), n. [NL., < angiomatosis (an'ji-ō-ma-tō'sis), n. [NL., < angioma(t) + -osis.] A general diseased state of the blood-vessels or lymphatics.

angioneoplasm (an'ji-ō-nē'ō-plazm), n. [Gr. ayyeior, vessel, + E. neoplasm.] Same as an-

angioneurectomy (an*ji-ō-nū-rek'tō-mi), n.
[Gr. a); sior, vessel, + E. neurectomy. Excision of vessels and nerves; specifically, exsection of a portion of the spermatic cord as a means of inducing atrophy of the prostate

Angioneurotic edema, the occurrence of urticarial swellings on the skin and mucous membranes, due to morbid vasomotor action.

angioparalytic (an"ji-ō-par-a-lit'ik), a. [Gr. aγγείον, vessel, + παμάλνους, paralysis, + -ie.] Relating to paralysis of the vasomotor nerves, resulting in dilatation of the blood-vessels.

angiopathy (an-ji-op'a-thi), n. [Gr. $\dot{\alpha}\gamma \epsilon i o \nu$, vessel, $+\pi \dot{\alpha}\theta o \varsigma$, disease.] Disease of the lympathics or blood-vessels.

angiosclerosis (an" ji-ō-sklē-rō'sis), n. [NL., ⟨Gr. ἀγγείον, vessel, + σκλήρωσις, hardening.] Fibrous induration of the walls of the vessels, usually of the arteries; arteriosclerosis. Jour. Exper. Med., V. 105.

angiosclerotic (an"ji-ō-sklē-rot'ik), a. taining to or characterized by angioselerosis.

- Angioselerotic neuritis, degenerative inflammation of a nerve-trunk associated with angioselerosis of its nutri-

The combination of arteritis with intense degeneration and inflammation of arteritis with intense degeneration and inflammation of the nerves causes the angioselerotic neuritis of Joffroy and Achard, Dutil and Lamy, and Schlesinger; the vasomotor and sensory irritation without the endarteritis causes acroparasthesia.

Jour. Exper. Med., V. 105.

angiospastic (an[#]ji-ō-spas'tik), a. [Gr. ἀγγεῖον, vessel, + σπαστικός, ζ σπᾶν, draw.] Relating to stimulation of the vasomotor nerves; eansing contraction of the blood-vessels. Buck, Med. Handbook, IV. 550.

angiospermic (an "ji-o-sper mik), a. sperm + -ie.] In the sphere of or pertaining to the Angiospermæ: as, angiospermic evolution; angiospermic anatomy.

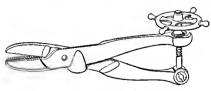
Angiosporea (an*ji-ō-spō'rē-ä), n. pl. [NL., $\langle \text{Gr. } \dot{a} \gamma \gamma \varepsilon iov$, vessel, $+ \sigma \pi o \rho \dot{a}$, a seed (spore).] A subtribe of cephaline Eugregarinæ having well-developed spores with double sporocysts composed of epispore and endospore. It comprises the families Gregarinida, Dactylophoridæ, Actinocephalidæ, Acanthosporidæ, and oth-

angiostenosis (an "ji-ō-stē-nō'sis), n. [NL., ζ Gr. ἀγγείον, vessel, + στένωσις, narrowing, contraction.] Morbid contraction of the bloodvessels

angiosthenia (an " ji - ō - sthē'ni-ä), n. αγγείον, vessel, + σθένος, strength.] Α tension.

angiotelectasia (an " ji - $\ddot{\phi}$ - te - lek - tā'si - \ddot{a}), n. [NL., ζ Gr. ἀγγεῖον, vessel, + τῆλε, far, + ἐκτασις, extension.] Same as telangiectasia.

angiotribe (an'ji-ō-trib), n. [Gr. $\dot{a}\gamma\gamma\epsilon\bar{i}o\nu$, vessel, $+\tau\rho i\beta\epsilon\nu$, rub, erush.] A strong forcepslike instrument used in surgical operations to



Tuffier's Angiotribe.

arrest hemorrhage by crushing the bleeding γεων, vessel. The form suggests Gr. αγγεωνης, like a vessel, hollow, but the sense differs.] A collective name for those mammals in which the retina is provided with blood-vessels. angiofibroma (an"ji-ō-fi-brō'mä), n: pl. angiofibroma (an"ji-ō-fi-brō'mä), n: pl. angiofibromata (-ma-tä). [NL., \langle Gr. αγγεῖον, vessel, Anglaise (ang-glāz'), n. [F. fem. of Anglais,

English.] A country-dance; also, the music for such a dance.

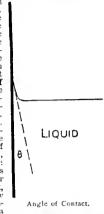
angle³, n. 6. In projective geom., a piece of a flat pencil bounded by two of the straights as sides. See the extract.

A portion of a sheaf of rays bounded by two rays of the sheaf as 'sides' is called a 'complete plane angle.' This consists of two 'simple' angles which are vertically opposite to each other.

T. F. Holgate, Geometry of Position by Reye, p. 12.

Angle of contact, (b) In the mechanics of liquids, the angle θ which the surface of a liquid in contact with a solid makes with the surface of the latter.

with the surface of the latter. The angle of contact may be greater or less than 90°. In the latter case the liquid wets the surface of the solid. In the former case it does not do so.— Angle of deviation, the angle which a branch or other organ makes with the axis of the plant which a brailen or other organ makes with the axis of the plant to which it belongs.—Angle of emergence, in geol., the angle at which the path of an earthquake-wave intersects the horizontal plane at the suriace. Geikie, Text-book of Geol., p. 366.—Angle of field, in photog, width of angle; the angle at which the circular picture of the object to be photographed, projected by the objective upor the ground-glass, appears as seen from the optical center of the lens.—Angle of hecl, in naval architecture, the angle of transverse inclination measured from the vertical when a vessel hecls over from any caus



seen from the optical center in the lens. Angle of heed, in naval architecture, the angle of transverse inclination measured from the vertical when a vessel heels over from any cause. —Angle of lag. See */agi! —Angle of mandibles, in craniom, the body, sometimes present in chronic affections of the langs. —Angle of ordination, the angle of mandibles, in craniom, the sugle formed by the coordinate the see */agi! —Angle of ordination, the angle of partial from the coordinate the see */agi! —Angle of ordination, the angle the coordinate the see */agi! —Angle of partial filling, the angle the coordinate the see */agi! —Angle of partial filling, the angle the see */agi! —Angle of pinnge, in */agi! —Angle of pinnee, in the direction of dip and less if it descends.—Angle of projection, in the theory of lenses, the angle which the exit-pinil of a system subtends at the focus conjugate to the point (object) from which the light enters the system.—Angle of shear, the angle through which a plane within a body subjected to a shearing stress (the plane having been originally perpendicular to the direction of the stress) is displaced.—Angle of slope, in */agi! —Angle of the stress) is displaced.—Angle of slope, in */agi! —Angle of the stress) is displaced.—Angle of slope, in */agi! —Angle of the */agi! —Angle

angle tendency for the rolling surface to slip without rolling. When the angle is less than this limiting value the roll tends to slip and to become polygonat from wear. This angle may also be measured from the normal instead of from the tangent. It must be determined for any two materials by experiment, since it bears a relation to the so-called angle of friction or angle of repose in experiments on sliding. An angle beyond the critical value would then be called a non-reposing angle.—Rolandic angle, the angle formed by the upper edge of the hemisphere of the brain and the fissure of Rolando.—Somatosplanchnic angle, the angle formed in the vertebrate embryo by the junction of the somatic and splanchnic layers of mesoblast.—Supplemental angles, two angles whose sum equals two right angles.—Supplementary angles. Same as supplemental *angles.—Tanchord angle, an angle between a tangent to a circle and a chord from the point of contact.—View angle, in photog., the angle inclosed by a lens. the angle inclosed by a lens.

angle³ (ang'gl), r. t.; pret. and pp. angled, ppr. angling. [angle³, n.] To lead off or deflect (a body or element) from a direction parallel or perpendicular to another body or element to which or from which it is to move: as, to

angle a rope.

The continuous change in direction experienced by the rope between the head-gear pulley and the drum in coli-ing on or off (the so-called "angling" of the rope) is a source of wear when the depth becomes considerable. Encyc. Brit., XXVII. 121.

angle-bar, n. 3. In printing, an iron bar which turns at a right angle a printed web of paper and mates it with another printed web.

Two general classes of the web press are made. In one, what is called the "angle-bar" is utilized to turn the sheets in order to assemble them from the different webs. The other is designated the "straight line," the sheet being run through the press without being diverted from s straight course.

Census Bulletin 216 (June 28, 1902), p. 63.

angle-bearing (ang'gl-bar'ing), n. A crankshaft bearing attached to an engine-bed, the center line of its joint being placed at an angle of about 45° with the bed, the purpose of which is to effect that disposition of the metal best calculated to withstand the resultants of the strains due to the motion of the crank and connecting-rod. Lockwood, Diet. Mech. Eng.

angleberry (ang'gl-ber-i), n. [A perversion of anbury.] A fleshy excreseence found growing on the feet and other parts of sheep and cattle.

Also spelled anleberry.

angle-board (ang'gl-bord), n. A board upon which pattern-makers plane their angles and bollows. It is traversed longitudinally with vee'd grooves of different depths to suit angles of different sizes, in which grooves the stuff is laid while being planed, a transverse strip near the end acting as a stop. Lockwood, Dict. Mech. Eng. Terms.

angle-bulb (ang'gl-bulb), n. A rolled bar of steel or iron, in the form of an angle with a bulb at the lower end of its long arm, used principally for deck-beams on steel ships.

angle-cutter (ang'gl-kut'er), n. machine used for cutting iron or steel angle-

angled, a. 2. A term applied to a billiard-ball which, when resting near the edge of a pocket, is so masked by the cushion that it cannot hit

the desired object.

angle-frame (ang'gl-fram), n. A type of construction for the frame or skeleton of motorvehicles in which the members that carry the weight and transfer it to the supporting springs, and thus to the axles, are made of steel angle or channel shapes to give greatest strength and stiffness with least weight of material. Sometimes for additional stiffness these angleor channel-irons are reinforced with tough wood securely bolted to the steel. Sci. Amer., LXXXVIII. 91.

angle-gage (ang'gl-gāj), n. 1. A gage or standard earefully made to the exact value of the desired angle, used in testing the accuracy of the angles of serew-threads, cutting-tools, or machine-work of any kind.—2. Specifically, an instrument for setting the angle or incline of the top comb of a Heilmann cotton-Thornley, Cotton-combing combing machine.

Machines, p. 166.

angle-hoop (ang'gl-höp), n. A hoop made of angle-iron. Such hoops are sometimes used for stiffening the furnaces in Scotch boilers.

angle-joint (ang'gl-joint), n. In carp., a joint between two pieces which are mitered to-

gether.

angle-meter, n. 2. An instrument designed to show the variations in angular velocity of the revolving shaft of an engine. Sei. Amer. Sup., Oct. 15, 1904.

angle-mirror (ang'gl-mir"or), n. A surveyor's instrument for observing and measuring angles

and the positions of distant objects in relation to one another. It consists of two mirrors, one being sometimes adjustable to the other, supported in a metal frame.

An angle-plate (ang'gl-plāt), n. An angle-elnick.

An instrument

angle-plate (ang'gl-plāt), n. An angle-ehuck. angle-prism (ang'gl-prizm), n. An instrument simitar to the angle-mirror, employing prisms instead of mirrors.

angler, n. 3. A general name of the pediculate fishes, from the presence of a modified free dorsal spine, or 'fishing-rod,' above the mouth. — Marbled angler, Pterophyne histrio, a fish of the family Antennariide, found in tropical parts of the Atlantic. It is remarkable, as are all of its relatives, for its form, color, and uest-building habits.

Anglesea penny. See *penny. angle-smith (ang'gl-smith), u. A blacksmith skilled in forging angle-bars, beams, and other profiled bars into the various forms in which

they are used in shipbuilding.

angle-valve (ang'gl-valv), n. A form of lift-ing- or spindle-valve, in a globular easing, in which the spindle or stem enters the valve in the same axis as one of the openings, and the other outlet is at right angles to the axis of the spindle; much used with steam-radiators and in other places where a right-angled corner is to be turned and a valve is also required. The angle-valve opposes less resistance to the flow of fluid through it than the globe-valve.-Angle cheek-valve, an angle-valve which opens only to steam or water flowing in one direction.—Angle stopvalve, an angle-valve which has to be closed by hand to stop the flow in the pipes.

angle-wheel (ang'gl-lwēl), n. Any gear in which the teeth, instead of being parallel to

the axis, make an angle with it; a helical gear;

a twisted gear.

angle-wing (ang'gl-wing). n. Any one of several species of nymphalid butterflies whose wings are angular and excised, as species of the genera Vanessa, Polygonia, Aglais, and Eu-

Anglicist (ang'gli-sist), n. One who favors or supports some proposition or movement relating to English or the English: specifically applied in history to one of those who favored the proposal to make the English language (and not Arabic or Sanskrit) the vehicle of instruction in those schools and colleges in India that were subsidized by the government during the administration of Lord William Bentinek (1828-35).

In describing the controversy between the "Orientalists" and the "Anglicists" [of the Committee of Public Instruction] which evoked Macaulay's famous minute . . . not a word is said [in Bonlger's Life of Lord William Bentinck] of the champion Orientalist, Horace Wilson.

Athenæum, Sept. 24, 1892, p. 411.

Anglicity (ang-glis'i-ti), n. [NL. *Anglicitas, < LL. Anglicus, Anglic.] Distinctively English quality, style, or character: as, Anglicity of speech

Anglo-African (ang glo-af'ri-kan), a. and n. I. a. Pertaining to Africans, or persons of African descent, living among English-speaking peoples, as the Africans in the United States. Keune, Ethnology, p. 380.

II. n. An African living among English-

peaking peoples.

Anglo-American pottery. See *pottery.
Anglo-Asian (ang glo-a' shian), a. and u. I. a.
Of or pertaining to England and Asia or to the English in Asia: as, Anglo-Asian enterprises. II. n. An Anglo-Asiatic.

Anglo-Asiatic (ang/glō-ā-shi-at'ik), a. and n. I. a. 1. Of or pertaining to both England (that is, Great Britain and Ireland) and Asia .-Relating to those Asiatics who are British subjects or are under British control, or who have become assimilated to the English in education, culture, etc.

II. n. An Asiatic who is under British rule.

Anglo-Australian (ang glō-as-tra'li-an), a. and n. I. a. Pertaining to Australians of English descent. Keane, Ethnology, p. 380. II. n. An Australian of English descent.

Anglo-Chinese (ang glō-chī-nēs'), a. and n. I. a. 1. Of or pertaining to both England and China or to their inhabitants, etc.: as, Anglo-Chinese relations: an Anglo-Chinese alliance. 2. Established by the English in China or for the Chinese: as, an Anglo-Chinese college.

—3. Written in English and Chinese, or prepared for the use of both English and Chinese readers: as, an Anglo-Chinese calendar; an Anglo-Chinese dictionary.

II. n. A Chinese who is under British rule r who is a British subject: as, the Anglo-Chinese of the Straits Settlements.

ure determined by three or more rays from the same point, taken in a certain order and such

that no three consecutive rays are coplanar. Anglo-Japanese (ang glō-jap-a-nēs'), a. Of or pertaining to both England and Japan: as, an Anglo-Japanese alliance or understanding.

Anglomanist (ang'glō-mā-nist), n. [Irreg. \(\) Anglomania + -ist.] An Anglomaniae: as, a rampant Anglomanist. Macmillan's Mag., XLV. 475. [Rare.] N. E. D.

Anglophile, Anglophil (ang'glō-fil), a. and

 n. [Ll. Angli. Englishmen, + Gr. φίνος, loving.]
 I. a. Friendly to England and English institutions; fond of English social life, manners, eustoms, etc.

When prudence dictated assistance to the Dutch, the Hugmenots, or the 'Anglophile' party in Scotland — the vile but convenient adjective is Mr. Beesly's — that aid was scanty and underhand.

Athenæum, March 26, 1892, p. 400.

n. One who admires or is friendly to England; a lover or admirer of English insti-

England; a lover or admirer of English insti-tutions, social life, manners, customs, etc. Anglophone (ang'glō-fōu), u. [LGr. 'A₁)'o_i, L. ingli, the Angles (English), + φωνή, sound.] A person who speaks the English language. Deniker. Races of Man, p. 508. Anglo-Venetian (ang'glō-ve-nō'shian), a. and

Venice; specifically of Venetian origin but domiciled in England: as, an Anglo-Fauctian seaman. Geog. Jour. (R. G. S.), XIII. 205.

II. n. A Venetian domiciled in or engaged

Anglovernacular (ang glō-ver-nak j-lär), a. Of or pertaining to both English and the vernacular: as, an Anglovernacular school. Encuc.

Brit., XXX. 467. [Rare.]
ango (än'gō), n. [Native name.] In Samoa,
a name applied to the turmerie-plant (Curcuma ango (än'gō), n. longa), the fleshy rhizome of which yields a yellow coloring matter which the natives use in ornamenting their bark cloth and for painting their skin. See turneric and butter ing their skin. See turmerie and huldee.

angosturin (an-gos-tö'rin), n. [.Inqostura + .m².] A compound, with the empirical formula C₉H₁₂O₅, found in Angostura bark. It is bitter and is apparently a glucoside.

Angoumian (an-gö'mi-an), a. and n. [F. Angoumois, a former name of the district (department of Charente) in which Angoulême is situated.] I. a. In geol., noting a division or substage of the Cretaeeous system as recognized by the French geologists and constituting the upper part of the Turonian: essentially equivalent to the English Middle Chalk of the Upper Cretaceous.

II. n. The Angoumian division.

Angoumois grain-moth. See *grain-moth. Angræcum (an-grē'kum), n. [NL.] A genus epiphytal orchids of tropical Africa, Madagascur, and Japan. There are at least 25 species known, of which the following are most common in collivation in America: A. articulatum, citratum, distinctum, eburneum, Ellisii, Humboltii, falcatum, Leonis, modestum, pertusum, and superbum. Most of these species need warm-house treatment.

angrite (ang'grīt), n. [Angra (Angra dos Reis in Brazil, locality of a meteorite) + -ite².]

See *meteorite.

angster (äng'ster), n. [Late MHG. (Swiss) angster.] An early Swiss copper coin, struck in Zürich, of the value of half a rapen, or seven [Late MHG. (Swiss) twelfths of a German pfennig.

Angström pyrheliometer, unit. See *acti-nometer and *unit.

Anguillula stercoralis, a parasitic species of worm which has heen found in the intestinc in certain cases of tropical diarrhea. Jour. Exper. Med., VI. 84.

anguilluloid (ang-gwil'ū-loid), a. [Anquillula -oid.] Eel-like; resembling the Auguillula. angular, a. 5. In astrol., placed in one of the four angles of a nativity. Raphael, Manual four angles of a nativity. Raphaet, Manual of Astrol., p. 154.—Angular acceleration. See *acceleration and unit of angular *acceleration.— Angular energy.—Angular lead. See *lead.*Angular point, the vertex; the point common to the two rays of an angle.—Unit of angular velocity, the velocity which causes a rotating body to turn through a unit angle in unit time; an angular velocity of one radian per second.

II. n. In ichtle., a small bone on the lower posterior corner of the articulare: same as a counter bone.

angular bone.

see, under angular).

angularization (ang "gū-la-ri-zā'shon), n. The act of angularizing or rendering angular; in decorative art, the transformation of a curved motive into a rectilinear one by the use of Haddon, Evolution in Art, p. 112

angularize (ang'gū-la-rīz), r. t.; pret. and pp angularized, ppr. angularizing. [angular + -ize.] To render augular. Haddon, Evolution

in Art. p. 112.

Angulatidæ (an-gū-lat'i-dē), n. pl. [NL., < Angulatid. a group of the ammonites, + -idæ.] A family of ammonoid cephalopods or ammon-A family of aminonoid cephalopous or animonites. They have compressed umbilicate shells with strong continuous ribs crossing the whorls and interrupted on the outer edge by a depressed zone. The septal sutures are highly complicated. Species occur in the Lias formation.

anguliform (ang'gū-li-fôrm"), a. [L. angulus, angle, + forma, form.] Bluntly pointed or bent. Annals and Mag. Nat. Hist., Jan., 1903,

angustisellate (an-gus-ti-sel'āt), a. [L. an-gustus, narrow, + sella, a saddle.] Having a narrow saddle: noting the form of the earliest septal suture in the coiled cephalopod shells and referring to the narrow saddle or forward prolongation of the suture in crossing the outer curve or venter of the shell. Contrasted with latisellate and asellate. The angustisellate stage characterizes only advanced and late forms of the ammon-

anhaline (au' ha-lin), n. [Auhal(onium) + -ine².] A crystalline alkaloid, $C_{12}H_{15}NO_3$, found in Anhalonium fissuratum. It melts at 115° C. It produces, in frogs, a paralysis of

the central nervous system.

anhalonidine (an-ba-lon'i-din), n. [Anhaton-(ium) + -id + -ine².] An alkaloid, C₁₂H₁₅-NO₃, found in Anhalonium Lewinii, a cactus from which mescal buttons are obtained. It

is crystalline and melts at 154° C. anhalonine (an-hal'ō-niu), n. [Anhalon(ium)

Same as anhalonidine.

anhedonia (an-hệ-dỗ ni-ā), n. [NL., ⟨ Gr. aνήδονος, giving no pleasure, ⟨ aν- priv. + ήδονή, pleasure: see hedonism.] In psychol.. inability to feel pleasure: the opposite of analgesia.

One can distinguish many kinds of pathological depression. Sometimes it is mere passive joylessness and dreariness, discoursgement, dejection, lack of taste and zestand spring. Professor Ribot has proposed the name anhedonia to designate this condition.

W. James, Var. of Religious Exper., p. 145.

anhedral (an-hē'dral), a. In mineral, and petrog., characterized by the absence of the external form of a crystal, though having its

molecular structure.

anhedron (an-he'dron), n.; pl. anhedra (-drä). [Gr. aν- priv. + εδρα, base (side).] A mineral [Gr. \dot{av} - priv. + $\dot{\epsilon}\partial\rho a$, base (side).] A mineral individual, for example, a constituent of a **animetta** (an-i-met'a), n. [It.] A medieval rock having the molecular structure of a crysterm for the veil or cloth used to cover the tal but not its external form.

anhistic (an-his'tik), a. Same as anhistous.

anhydrid, n.— Phosphoric anhydrid, phosphorus pentoxid, P₂O₅. By union with the elements of water in different proportions it forms meta-, pyro-, and orthophosphoric acids.

anhydrochromic (an-hī-drō-krō'mik), a. Noting the acid $(H_2Cr_2O_7)$ which corresponds to ordinary red chromate of potash. Also known

as dichromic acid and pyrochromic acid.

Anhydrous steam. See *steam.

aniconic (an-ī-kon'ik), a. [Gr. ἀν- priv. +εἰκών, an image.] Not presenting an image or portraiture: in Gr. antiq., applied to the rudest agalmata, or symbols of a divinity, consisting of a simple pillar or block without human attributes. See agalma.

anidalin (a-nid'a-lin), n. Same as *aristol.
anil² (än-il'), n. [anil(ine).] A derivative of
aniline containing the group NC₆H₅.
añil (än-yēl'), n. [Sp. añil, lit. indigo: see aniline.] A Cuban name of the blue variety of the vaqueta, a bass-like fish of the West Indies, Hypoplectrus unicolor (variety indigo of

anilao (ä-ne'lou), n. [Philippine name.] A name in the Philippines of Colona serratifolia, a shrub belonging to the linden family, the bark of which yields a strong bast fiber.

angulare (ang-gū-lā'rē), n. [NL. (sc. os, bone): anilido. [anil + -id + -id - 1.] Noting the group see angular.] Same as angular bone (which NHC₆H₅, derived from aniline: as, anilido-NHC₆I₁₅, derived from antiine: as, antiido-acetic acid, CH₂NHC₆H₅CO₂H: also used as an adjective: as, the anilido-group.

Aniline *black, *green, *orange, *process. See the nouns.—Aniline salt, a commercial name for the color-less crystalline salt formed by neutralizing aniline with hydrochloric acid. It has the formula CalioNHollcl, and is known chemically as aniline hydrochlorid. Large quantities are used in the dyeing and printing of aniline black.—Aniline spirits, yellow. See tin *spirits, *vellow. iellon

anilism (an'i-lizm), n. An illness caused by inhaling the vapor of aniline, not uncommon in workers in aniline-black dye-houses. It comes on suddenly, the lips turn purple, and temporary unconsciousness often ensues.

Animal color. See *color. Animal kingdom. According to recent conservative estimates, the snimal kingdom consists of about 386,000 species of living animals and about 160,000 described species of lossil animals, or of about 550,000 species in all.—Animal mechanics. See *mechanics.—Animal mound. See the extract.

*mechanics.—Animal mound. See the extract.

The next class is composed of the "animal mounds," or mounds in which the ground plan is more or less irregular, and is thought to resemble animals, birds, and even human beings, though it is admitted that this resemblance is often imaginary, and that there is no evidence that the builders of these works intended to copy any such forms.

Mounds of this class are common in Wisconsin, and are also found in Ohio and Georgia. They are not burisl mounds, though they are not unfrequently grouped with conical mounds that inclose human remains, as they are also with embankments and inclosures,—the grouping being always without any anparent order. being slwsys without any apparent order.

Smithsonian Report, 1891, p. 559.

Animal photography. See *photography.—Animal pole. See *pole. animate, a. 4. In gram., referring to living things as indicated by a difference of form in the designating word: said of gender in some

Animated oat. Same as animal oat; see oat,

animatism (an'i-mā-tizm), n. [animate, a., + animatism (an'i-mā-tizm), n. [animate, a., + anisochela (a-ni-so-ke la), n.; pl. anisochela (a-ni-s

sessing separable souls.

animato (ä-ni-mä'tō), a. [It.] In music, lively; with animation; usually, somewhat quick and

with spirit.

animatograph (an -i - mat'ō - graf), n. [L. animatus, alive (see animate, a.), + γραφείν, write.]

1. A cinematograph.—2. A special form of photographic camera for taking a series of pictures on films.

anime, n.—Brazilian anime. Same as anime, 3. animé (an-i-mā'), a. [F., \langle L. animatus, animate: see animate, a.] In her., animated, exmal and represented by giving the eyes, etc., a tincture different from that of the body.

chalice or eucharistic cup.

animi, n. Same as anime. Animikie (an-im-i-kē'), n. [A local name.] A name proposed by T. Sterry Hunt in 1873, and used by the Geological Survey of Canada and by the Natural History Survey of Minnesota, for a group of iron-bearing rocks, slates, schists, and sandstones which form the middle subdivision of the Algonkian as the latter term is used by the United States Geological Sur-Vey. In Canada the group is regarded as Cambrian in age, but in the Lake Superior district, especially in Minnesots, where these rocks carry the iron ore of the Mesaba range, they are referred to the Precambrian.

animikite (a-nim'i-kīt), n. [Said to be from Ind. animike, thunder, +-ite².] Au antimonide of silver from Silver Islet, Lake Superior.

He[Dr. Waldstein] does, however, point out that smong the terra-cottas we have representations of the various stages of development of her [lieras] sgalmats: the rudest of all, the anikonic. . . . He promises, moreover, to publish . . . a curious pillar which may have been the actual anikonic image of the goddess.

Athenæum, July 1, 1893. p. 38.

Athenæum, July 1, 1893. p. 38.

animotheism (an"i-mō-thē'izm), n. [L. anima, soul, life (or animus, mind?), + θεός, God, + -ism.] The belief that all things, but especially plants, animals, and the heavenly bodies, are conscious or animate beings, and that they possess supernatural, divine powers. mism. Ward, Dynamic Sociol., II. 258. anis, n. A simplified spelling of anise.

anisado (ä-ni-sā'dō), n. [Sp.: see anisated.] A native drink made in the Philippine Islands. It contains the poisonous principle of wood alcohol, and United States soldiers and em-

ployees have been forbidden its use. Army and Navy Journal, Dec. 7, 1901.

anisamic (an-i-sam'ik), a. [anis(ic) + am(ine) + -ie.] Noting an acid, a derivative of tri-+-ie.] Noting an acid, a derivative of tramethyl benzene, found in balsam of Tolu and

anisated (an'i-sā-ted), p. a. [NL. *anisatus, < L. anisum, anise.] Mixed or flavored with anise-seed. Syd. Soc. Lex.

Anisian (a-niz i-an), a. and n. A name given by Austrian geologists to a division of the Mediterranean Triassic deposits holding a position at the top of the Lower Trias.

anisidine (a-nis'i-din), n. [L. anisum, anise, + -id1+-ine2.] The methyl ether of aminophenol, C₆H₄(NH₂)OCH₃. The name is applied especially to the ortho compound, which is an oil that boils at 218° C., and to the para compound, a solid which melts at 56° C. and boils at 240° C.—Anisidine ponceau, scarlet. See

*scarlet.

anisil (an'i-sil), n. [L. anisum, anise, +-il.]
The dimethyl ether of paradihydroxybenzil,
CH₃OC₆H₄COCOC₆H₄OCH₃. It crystallizes
in golden-yellow needles which melt at 133° C.
anisilic (an-i-sil'ik), a. Noting an acid, (C₆H₄OH)₂C(OH)CO₂H, the dimethyl ether of dihydroxydiphenyl glycolic acid. It is formed together
with anisic acid when snisil is bolied with alcoholic potash. It crystallizes in needles which neit at 164° C. It
is named officially the dimethyl ether of diphenylolmeth
anotherlytic acid.

Anisoceratidæ (a - nī - sō - se - rat'i - dē) n. pl. [NL., < Anisoceras (<Gr. ἀνισος, unequal, + κερας (κερατ-), horn), + -idæ.] A family of ammonoid cephalopods or ammonites having uncoiled shells terminating in a crook, the volutions bearing tubercles and ribs. The species are found in the Cretaceous formation.

tions bearing true.

The distinction between animate and inanimate gender is still preserved in both Penobscot and Abenaki.

Amer. Anthropologist, Jan.-March, 1902, p. 27.

Animated oat. Same as animal oat; see oat,

of butterfly-fishes of the family Chætodontidæ.

monaxial rhabd having different arrangements of the processes at the two ends. See spongespicule

anisocnemic (a-nī-sō-nē'mik), a. [Gr. àv-priv. + isocnemic.] In anthozoans, a term used to distinguish a unilateral pair composed of two unequal mesenteries: contrasted with isocnemic. Annals and Mag. Nat. Hist., Aug., 1902, p. 105.

anisocoria (a-nī-sō-kō'ri-ā), n. [NL., ζ Gr. ἀνισος, nnequal, + κόρη, pupil of the eye.] Inequality in size of the pupils of the two eyes. cited; showing a desire to fight: said of an ani- anisocotyly (a-nī-sō-kot'i-li), n. In bot., the mal and represented by giving the eyes, etc., unequal development of cotyledons in dicotyledonous plants.

A medieval anisocytosis (an-ī-sō-sī-tō'sis), n. [NL., ἀνισος, unequal, + κύτος, a hollow (a cell), + -osis.] Inequality in size of the cells of a system, specifically of the red blood-corpuscles.

anisogamous (an-i-sog'a-mus), a. Characterized by anisogamy, or conjugation between sharply differentiated male and female gametes

anisogamy (an-i-sog'a-mi), n. [Gr. ἀνισος, unequal, + γόμος, marriage.] In biol., conjugation between dissimilar gametes or reproductive cells.

anisohypercytosis (an "ī-sō-hī"per-sī-tō'sis), n. [NL., \langle Gr. $\dot{a}\nu\iota\sigma\sigma\varsigma$, unequal, $\dot{+}\dot{\nu}\pi\dot{\epsilon}\rho$, over, $\dot{+}\kappa\dot{\nu}\tau\varsigma$, a hollow (a cell), $\dot{+}$ -osis.] An increase in the number of the leucocytes, with abnormal percentage relations of the neutrophilic cells. as regards the distribution of the different nuclear forms.

anisohypocytosis (an"ī-sō-hī"pō-sī-tō'sis), n. [NL., ζ Gr. $\delta vuoo_{\zeta}$, unequal. $+ \delta \tau o_{\zeta}$, under, $+ \kappa \delta \tau o_{\zeta}$, a hollow (a cell), + -osis.] A decrease in the number of the leucocytes with abnormal relations of the neutrophilic cells, as regards the percentage distribution of the different nuclear forms.

anisoin (an-is'ō-in), n. [L. anisum, anise, + -in².] The dimethyl ether of paradihydroxy-benzoin, CH₃OC₆H₄CH₂COC₆H₄OCH₃. It consists of needles which melt at 110° C.

anisol (an'i-sōl), n. [Also anisole +; L. anisum, anise, +-ol.] 1. Methyl phenyl ether, C₆H₅-OCH₃, formed by distilling anisic acid with barium hydroxid. It is an oil with a pleasant odor and boils at 154° C .- 2. A general name of derivatives of methyl phenyl ether.

anisoline (a-nis'ō-lin), n. [As anisol + -ine².]
A basic color of the xanthene group. It is comparatively fast to light. Also called rhodamine 3 B.

Anisometric texture, in petrog., the texture of granular rocks when the mineral grains are of various sizes. It is contrasted with the cometric granular texture, where the grains are approximately of the same size.

anisometrope (a-ni/so-met/rop), n. [See anisometropia.] One who suffers from anisometropia, or inequality of refraction in the two eves.

It was thought that anisometropes who fixed correctly could not have binocular vision.

**Optical Jour., June 2, 1904, p. 975.

Anisomyaria (a-nī-sō-mī-ā'ri-ā), n. pl. [NL., \langle Gr. avaoc, unequal, $+\mu v\bar{c}$ (μv) muscle, + -aria.] A group of the pelecypod mollusks, or Acephala, holding an intermediate position between the Monomyaria, or those with but one adductor muscle, and the Dimyaria, or those having two, the normal number, fully developed. In the Anisomyaria the anterior adductors are much more prominently developed than the posterior. These museural differences have frequently been used as a basis of classification; but it is now recognized that the terms Monomyaria and Anisomyaria designate different stages of degeneration in the musculature.

anisomyarian (a-nī-sō-mī-ā'ri-an), a. and n. Pertaining to or having the characters of the

Anisomyaria. Also used substantively.
anisonormocytosis (a-nī/sõ-nor/mõ-sı-tõ'sis), n. [NL., $\langle \text{Gr. å}\nu\sigma\sigma\varsigma. \text{ unequal, + L. } norma, \text{ rule, norm, + } \kappa \nu \sigma\varsigma, \text{ a hollow (a cell), + } osis.] A normal rule,$ mal number of the leucocytes with abnormal relations of the neutrophilic cells, as regards the percentage distribution of the different nu- 🙈 clear forms.

anisophylly (a-nî-sof'i-li), n. [Gr. ἀνισος, unequal, + φύλλον, leaf.] Dissimilarity in leaves dne to difference of position, as in floating and

and submersed leaves. Krasser.

Anisoplia (a-ni-sop'li-ä), n. [NL. (Megerle, 1825), ζGr. ανισος, unequal, + ôπλα, arms.] An important genus of lamellicorn beetles of oldworld distribution. It includes some serious pests, especially A. Austriaca, which occasionally does great damage to the wheat crop of Russia. About 40 species

2.nisopod (a-ni'sō-pod), a. and n. [NL. anisopus (-pod), \langle Gr. anisoyus (-pod), \langle Gr. anisoyus (-pod), \langle foot.] I. a. Having unequal feet; specifically, having the characters of the Anisopoda.

H. n. One of the Anisopoda.

Anisopoda (a-nī-sop'ō-dā), n. pl. [NL., neut. pl. of anisopos (-pod-): see *anisopod.] A tribe or suborder of arthrostracous crustaceans having a body more or less resembling that of an amphipod, and the abdomen with two-branched swimming-feet which do not function as gills, or with fin-like feet. It includes the families Tanaidæ and Pranizidæ.

Anisoptera (a-nī-sop'te-rā), n. pl. [NL., ζ Gr. ἀνισος, unequal, + πτερόν, wing.] A suborder of insects of the order Odonata or dragon-flies. It includes the families in which the hind wings are slightly larger than the front wings, as distinguished from the Zyopptera, in which the wings are of equal size or the hind pair are somewhat the smaller.

anisospore (a nī'sō-spōr), n. [NL. *anisospora, ζ Gr. ἀνασος, unequal, + σπορά, seed (spore).] A form of spore produced among colonial radiolarians by the union of gametes of unlike size, as microspores and macrospores: contrasted with *isospore, 3.

Anisotremus (a-nī-sō-trē'mus), n. [NL., < Gr. aνισος, unequal, + τρημα, hole.] A genus of grunts of the family Hæmulonidæ, having grants of the ramily Hamulondae, having numerous species in tropical America. They are remarkable for their broad bodies and sometimes for bright colors. A. surinamensis, the pompon, is the commonest species.

anisotropic, a. 3. Having predetermined axes: opposed to isotropic.—Anisotropic medium, a medium in which the strain due to a given stress varies with the direction in which the stress is applied; an solotropic medium.

anisotropic; æolotropic.

Mr. A. Broca a short time ago stated that in a powerful eld there are produced simultaneously both ordinary Mr. A. Broea a snort time ago stated that in a powerful field there are produced simultaneously both ordinary cathode rays, around the field according to well-known laws, and another kind of rays following the lines of force. These phenomena have likewise been investigated by Mr. Pellat, who accounted for them on the hypothesis of an anisotropical friction the cathode ray particles undergo in the meanute field. the magnetic field.

Sci. Amer. Sup., Aug. 27, 1904, p. 23960.

anisotropically (a-ni-so-trop'i-kal-i), adv. In an anisotropic manner.

anisotropy, n. 2. In embryol., the condition annerodite (a-ner'e-dit), n. [Also annerodite, of having the axes predetermined: applied to annerodite, annerodite; Annerod, Aannerod (see

certain differentiated animal ova: opposed to def.) + -ite2.]

anito (ä-ne'tō), n. [Tagalog; perhaps altered, under Sp. influences, from an orig. *antu, Malay antu, hantu, a spirit.] An ancestral spirit worshiped as a protecting household deity by the pagan Malay peoples of the Philippine Islands, and frequently represented by an image of wood or other material which is carefully preserved.

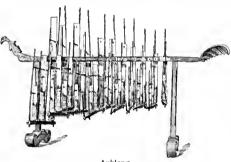
But, before Islam, ancestor worship, as has long been known, was widely prevalent. In almost every locality, every hut has its Anito with its special place, its own dwelling; there are Anito pictures and images, certain trees and, indeed, certain animals in which some Anito Smithsonian Rep., 1899, p. 522.

ankee (ang'kē), n. [Indian name in California.] The barn-yard grass Echinochloa Crusgalli, the seeds of which are ground into flour by the Mohave Indians. [Southern Califor-

anker, n. and v. A simplified spelling of an-

ankle, n—Cocked ankle, knuckling or partial dislocation of the fetlock-joint of the horse, an unsoundness predisposing the animal to stumbling and to fracture of the pastern-bone.

anklong (ang'klong), n. [Also *anklung(?), Malay and Jav. anklung.] A musical instrument used in Java and other parts of Malaysia, consisting of bamboo tubes so cut that when struck



Auklong. (After original in the Metropolitan Museum, New York.)

or shaken they give definite tones. Usually the tubes are in pairs tuned at the interval of the fifth.

ankoot (an'köt), v. i. [Eskimo, angakut, angakok, angakok, a shaman: see angekok.] To perform shamanistic ceremonies: a term used by whalers who frequent Hudson and Baffin

ankylite (an'ki-līt), n. Same as *ancylite. ankyloglossia (ang″ki-lō-glos'si-ä), n. *ankuloalossus.

ankyloglossus (ang ki-lō-glos'us), n. [Gr. αγκίλος, bent, + γ/ωσσα, tongue.] Impeded movements of the tongue due to adhesions to the neighboring parts. Also called ankyloglossia.

ankylosed (ang'ki-löst), p. a. [See ankylose.] Grown together: said of bones which are primitively separate.

Ankylostoma (ang-ki-los'tō-mä), n. Same as Ancylostoma.

ankylostomiasis, n. Same as *ancylostomiasis. anlage (än'lä"ge) n.; pl. anlagen (-gen). [G., foundation, \(\alpha\) anlegen, \(\alpha\) an, on, \(+\left\) legen, lay, found.] In embryol., the first indication of a developing organ in the embryo; a rudiment,

in the sense of a simple beginning.

annaline (an'a-lin), n. [Formation doubtful.]

A name sometimes given to an artificially prepared calcium sulphate used by paper-makers. annalism (an'a-lizm), n. The writing of annals. W. Taylor. [Rare.] N. E. D.

Annam ulcer. See *uleer.

Annealing lamp. See *lamp.

anisotropical (a-nī-sō-trop'i-kal), a. Same as annealing-machine (a-nēl'ing-ma-shēn"), n. A heating-furnace consisting of a long box of steel lined with some refractory material, open at each end, and fitted with a number of gasat each end, and fitted with a number of gas-burners. Within the furnace and extending beyond it at each end is a series of rolls connected by link-belting and turning together, all being supported by bearings in-side the furnace or by tables at each end outside the fur-nace. The bars, rods, strips, and tubes to be annealed are laid on the rolls outside the furnace, carried by their motion into aud through the furnace at a speed just suf-ficient for the annealing, and discharged at the distant end. In another form, for large pipe, a link-belt con-veyer is used to carry the pipes through the furnace.

A rare niobate of uranium. vttrium, and other elements, near samarskite in composition but related to columbite in form: found at Annerod, Norway

Anneslia (a-nes'li-ä), n. [NL. (Salisbury, 1807), named in honor of George Annesley (1769–1844), Viscount Valentia in Ireland and Earl of Mountmorris, who traveled and botanized in India.] A genus of plants belonging to the family Mimosaceæ, to which Bentham in 1840 gave the name Calliandra. See Calliandra.

annexable, annexible (a-neks'a-bl, i-bl), a. That may be annexed or added; attachable. Cockeram.

annexive (a-nek'siv), a. Expressing or serving to express annexion or addition; additive: an unnexive conjunction.

annidalin (a-nid'a-lin), n. Seo *aristol.

Anniellidæ, n. pl. Same as Aniellidæ.

annihilability (a-nī"hi-la-bil'i-ti), n. The capability of being annihilated. Dr. II. More,

Immortal. of the Soul, p. 228.

annotative (an'ō-tā-tiv), a. Of the nature of annotation: as, annotative remarks.

annotine, n. 2. A tree that bears fruit of two years at the same time, the fruit of the past ear persisting, while that of the present year is growing.

announcement, n. 2. In card-playing, a bid; a meld.

The player [at boston] who makes the highest announcement is entitled, if successful, to the contents of the pool, and a certain number of counters from each of the players; but if he be unsuccessful he must pay to the pool and to each of the other players a certain number of counters.

American Hoyle, p. 243.

annual. I. a.—Annual equation. See *equation.—Annual range, in meteor, that portion of the total yearly range which may be supposed to be periodic and the simple and direct result of the annual revolution of the earth in its orbit; that portion of the annual range that is represented by the first term of the harmonic series or Fourier-Bessel series, depending on the simple mean longitude of the earth in its orbit around the sun.—Annual variation, in meteor, the departure from the annual mean; the extreme total range darling a year; the difference between the absolute maximum and absolute minimum or between their departares from the annual variations for many years and is less than the extreme or absolute variation for those years.—Annual working. See *working.

II. n., 3. Plants become annuals because of the limitations of the seasons. Some plants die outright at the approach of cold or dry weather and leave only their seeds to carry the species over to another season; these are the true annuals. Others, truly perennial in their native climates, become annual in short-season climates hy being killed by frost; these are pteur-annuals. Others carry themselves over by means of bulbs; these are pteud-annuals.

others earry themselves over by mesus of bulbs; these are pseud-annuals.

annualize (an'ū-al-īz), v. i.; pret. and pp. annualized, ppr. annualizing. To contribute to nualized, ppr. annualizing. To contribute to an annual publication; write for an annual, See annual, 4. [Rare.]

annuity, n.—Consolidated annuities, certain annuities or annual payments representing interest on various stocks issued by the British government at different times and at different rates, which were consolidated, under an act of 1751, into one fund, commonly known as consols (which see).

Annular kiln. See *kiln.—Annular ligament. (c) A ligament attached at each extremity to a tubercle on the inner surface of the articular process of the atlas, which serves to retain the odontoid process of the axis. (d) The ligament which attaches the stapes to the rim of the fenestra ovalis.

Annularia (an-ū-lā'ri-ä), n. [NL. (Sternberg. 1822), (L. annularis, annular.] A genus of fossil plants of the family Calamariaceæ, having slender, branching, usually striate stems bearing whorls of lanceolate or spatulate leaves with a median nerve, which are fused at their bases into a sheath or annulus. The fruit is a heterosporous spike or strobile. It is not yet certain whether the specimens referred to this genus represent independent herbaceous plants or the smaller ultimate branches of calamitean plants. They are very abundant in the Carboniferous formation and range from the Devonian to the Permian.

Annulosiphonata (an"ū-lō-sī-fo-nā'tā), n. pl. [L. annulus, a ring, + sipho, siphou, pipe, + -ata².] In Hyatt's classification, a group of extinct cephalopods, including straight and curved shells, in which the siphuncle is thickened by organic deposits into solid rays extending into the septal chambers. Actino-ceras and Hurania are examples. The species are chiefly from Silurian rocks.

annulus, n. 3. (d) In the Equisetoceæ, the sheath below the spike formed by the union of the bases of the leaves. (e) In diatoms, the rim of silex formed within the frustules of some genera. (f) The fleshy rim of the

corolla in milkweeds.—4. (e) One of the external subdivisions of the body of a leech, resembling a segment of the body of an earth- anomalodesmaceous (a - nom"a-lo-des-ma'resembling a segment of the body of an earth-worm. A single annulus, however, does not correspond to an internal segment. From 3 to 5 or even 12 annull correspond to a segment in different genera.

Anodal diffusion, cataphoresis.

— Anodic rays, in elect., radiations issuing from the positive terminal or anode of a vacuum-tube.

anodyne, n.—Hoffmann's anodyne, a mixture of ether, alcohol, and ethereal oil, the last-named constituent containing ethil sulphate, much used in medicine as a stimulant, antispasmodic, and anodyne.

anodynin (a-nod'i-nin), n. Same as antipyrin.
anoësis (an-ō-ō'sis), n. [NL., \cap Gr. a- priv. +
voyacz, understanding.] In psychol., a hypovoyace, understanding.] In psychol., a hypothetic state of consciousness in which there is sentience but no thought; immediate experiance anomaly, n. 4. In meteor., the amount by which sentence out no thought; immediate experi-ence without reference to an object. Anoesis Is sometimes predicated of primitive organisms, sometimes of the marginal processes of the human consciousness. It is used, more correctly, simply as a limiting concep-tion, the logical zero-point of intellectual function.

But it is conceivable that they [items or particulars] should be given and no intellectual synthesis ensue; such a consciousness has been happily named anoetic. Whether or no it actually exists is another matter: it is a conceivable limit, and has the theoretical usefulness of limiting conceptions generally. But relative anoesis suffices here.

Energy. Brit.**, XXXII. 63.

Anœstrous (an-es'trus). a. [Gr. ap-priv. + oloτρος, vehement desire.] In zoöl., without sexual desire; relating to the completed period of sexual desire in female mammals. — Anœstrous cycle, a single completed period of sexual desire not immediately followed by another. This comprises the *proæstrum, *æstrus, and *metæstrum.

anœstrum (an-es'trum), n.; pl. anæstra (-trä).

anœstrum (an-es'trum), n.; pl. anæstra (-trä). [NL.: see *anæstrous.] In zoöl., an interval between periods in 'heat' when the female mammal has no sexual desire.

anoëtic, a. 2. In psychol., relating to or characterized by anoësis. G. F. Stout, Anal. Psychol., i. 51.

anogenic, a. 2. In petrol., noting igneous rocks which originate by ascension from the anon. An abbreviation of anonymous and anonearth's interior: synonymous with eruptive.

anogenital (an-ō-jen'i-tal), a. Relating to the anus and the genital organs; noting the region

and and the gential organs, noting the region of the body including these parts.—Anogenital band, the rudimentary perineum in the embryo.

anol (an'ol), n. [an(ise) + -ol.] Parapropenyl phenol, CH₃CH:CHC₀H₄OH, usually called para-anot. It crystallizes in leaflets which melt at 93°. Its methyl ether, anethol, is found in anise-oil.

Anomala, n. 4. pl. A tribe of brachyurous crustaceans containing the families Dromidæ, A tribe of brachyurous

Homolidæ, and Raninidæ.

Anomalocladina (a-nom a-lo-kla-dī'nā), n. pl. [NL., ζ Gr. ἀνωμαλος, irregular, + κλάδος, twig, + -inα².] In Zittel's classification, a suborder of tetractinellid lithistid sponges. In this group the skeletal spicules are mostly short rays with inflated heads which are often digitate or branched and united with the processes of adjacent rays.

Anomalocrinidæ (a-nom/a-lō-krin'i-dē), n. pl. [Nl., (Anomalocrinus ('Gr. ἀνωμαλος, irregular, + κρινον, a lily (see crinoid) + -idæ.] A family of fistulate crinoids having radial plates of very irregular form and arms with pinnules on one side only. It is represented by a single genus, Anomalocrinus, from the Silurian of North America.

Anomalocystidæ (a-nom*a-lō-sis'ti-dō), n. pl. [Nl., \langle Anomalocystites \displays -idæ.] In Woodward's classification, a family of cystidean echinoderms which have a compressed calyx, the sides of which are dissimilarly plated, generally with two free arms and a short stem. They occur in rocks of Cambrian and Silurian age. Properly, in uncontracted form, Anomalocystitidæ.

Anomalocystites (a-nom/a-lō-sis-ti'tēz). [NL., ⟨Gr. ἀνώμαλος, irregular, + κίστα, bladder, + -ιτης, -ite².] The typical genus of the

family Anomaloeystidæ.

Anomalodesmacea (a-nom^{*}a-lō-des-mā'sṣ̄-ā), n. pl. [NL., ζ Gr. ἀνώμαλος, irregular, + δέσμα, a band, + -acca.] In Dall's classification of the Pelecypoda, an order comprising burrowing shells with nearly edentulous hinge, the mantle lobes more or less completely united, nantie lobes more or less completely united, leaving two siphonal openings, a pedal opening, and sometimes a fourth opening. The valves are generally nnequal. The group includes many recent and late fossif forms, and in general expression is archaic, specially in regard to hinge-structure, which reproduces that of the Silurian and Devonian paleoconcis. anomalodesmacean (a-nom"a-lō-des-mā'sṣ-an), a. and n. I. a. Having the characters of or pertaining to the Anomalodesmacea.

Anomalon (a-nom'a-lon), n. [NL. (Jurine, 1807), ζ Gr. ἀνώμαλος, neut. ἀνώμαλον, irregular: see anomalous.] An important genus of hymenopterous insects of the family Iehneumonidæ and typical of the subfamily Anomalous. montate and typical of the sustainty, line. It comprises more than 150 species, many of them important enemies of injurious insects. Most of the deimportant enemies of injurious insects. Most of the described species occur in Europe and North America, but the genus is still more widely distributed.

a given observed quantity is greater or less than an assumed ideal or normal value; a departure.

Anomiacea (a-nō-mi-ā'sē-ä), n. pl. [NL., \ Ana-Anomiacea (a-no-mi-a' se-a), n. pl. [NL., \(\) Anamia + -acea.] A suborder of bivalve mollusks of the order Filibranchiata. It includes forms which have the heart dorsal to the rectum, a single aorts, small foot, and very small anterior adductor. The shell is oyster-shaped, without hinge-teeth, and is attached by a calcified byssus which passes through a lobe in the right valve. It includes the single family Anomiation.

anomocephalus (an "ō·mō·sef'a-lus), n.; pl. anoplous (an-op'lus), a. Relating or pertainanomocephali (-lī). [Gr. ἀνομος, irregular, + ing to the Anopla; having the proboscis unκεφαλή, head.] One with an irregularly shaped armed, as certain nemertines. head.

anomure (an'ō-mūr), n. [As NL. Anomura.]
One of the anomural or irregular-tailed crustaceans; an anomuran.

anomy, n. 2. As used by Pearson and others, a breach in the routine of perceptions. See the extract.

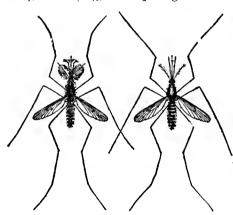
In our ignorance we ought to consider before experience that nature may consist of all routines, all anomies, or a mixture of the two in any proportion whatever.

K. Pearson, Gram. of Sci., iv. 15.

ymously.

anoöpsia (an-ō-op'si-ä), n. [NL., < Gr. ἀνω, upward, + ὀψις, vision.] Strabismus in which

the axis of vision is directed upward. **Anopheles** (a-nof'e-lēz), n. [NL. (Meigen, 1818), (Gr. ἀνωφελής, useless.] 1. Agenusoftrue



Malarial Mosquito (Anopheles maculipennis) Male at left; female at right. Enlarged. (After Howard, U. S. D. A.)

mosquitos (dipterous family Culicidæ), distinguished from the typical genus Culex by the long palpi of the female. The mosquitos of this genus are the true secondary hosts of the causative organisms of malaria, which undergo their sexual development only in the atomach of an anopheles. From this fact it results that these mosquitos convey the disease from malarial patients to healthy individusis.

2. [l. c.] An insect of this genus.

Anophelinæ (a-uof-e-lī'nē), n. pl. [NL., < Anopheles + -inæ.] A subfamily of mosquitos Anopactes + -ine.] A subraminy of mosquitos (family Culicidæ), comprising Anopheles and its immediate allies. In both sexes the palpi are about as long as the proboscis, and the terminal joint is spatulate or clubbed in the male; in the wings the first submarginal cell is as long as or longer than the second rectarior cell posterior cell.

anopisthographic (an-ō-pis-thō-graf'ik), a. [Gr. aν-priv. + ἀπισθεν, at the back, + γράφειν, write.] Not written or printed upon at the back; written or printed upon on one side only,

the North Pacific.

II. a. A member of the order Anomalodes-acea, anoplan (an-op'lan), a. and n. [Anopla + -an.] I. a. Pertaining to or resembling the Anopla. II. n. A nemertean worm of the section

manomalodesmaceous (a - nom"a - 10 - des - 111a - shius), a. [Gr. ἀνώμαλος, irregular, + δεσμός Anopla.

Telephore (a vo-, not, + δπλα, arms.] A ribe of lithistidan Tetractinellida, having no ribe of lithist the families Azoricidæ and Anomocladidæ, together with extinct forms.

anoplian (an-op li-an), a. and n. [Anoplia + -an.] I. a. Pertaining to or having the characters of the Anoplia.

II. n. One of the Anoplia.

Anoplogaster (an-op-10-gas'ter), n. [NL., ζ Gr. ἀνοπλος, unarmed, + γαστήρ, belly.] A genus of berycoid fishes found in the abysses of the Atlantic.

Anoplophora (an-op-lof'o-rä), n. [NL., < Gr. αναπλος, unarmed, + -φορος, < φέρειν, bear.] A genus of naiads from the Triassic formation

of Germany.

Anoplotheca (an-op-lō-thē'kā), n. [NL., < Gr. àνοπλος, unarmed, + θήκη, case.] A genus of convexoconcave, spine-bearing brachiopods, having a median dorsal septum and the jugum articulating into a depression in the ventral valve: characteristic of Devonian faunæ.

armed, as certain nemertines.

anoplurous (an-ō-plö'rus), a. Resembling the insects of the hemipterous suborder Anoplura.

Anor group. See *group¹.

anorectal (ā"nō-rek'tal), a. [L. anus, anus, + NL. rectum, rectum.] Relating to both the anus and the rectum. Therapeutic Gazette, May 15, 1903, p. 344.

anorectic (an-ō-rek'tik), a. [anorect-ous + -ic.] Same as anorectous.

anorganon (an-ôr'ga-non), n.; pl. anorgana (-nā). [NL., ζ Gr. ανόργανον, neut. of ανόργανος, without organs, ζ άν- priv. + ὁργανον, instrument, organ.] A body without organs, that is, an inorganic body.

anorgic (an-ôr' jik), n. [Gr. ανόργ(ανος), without organs (inorganic), +-ic.] A general designation, proposed by Haeckel, for the sciences that deal with inorganic nature, as contrasted anorgic (an-ôr'jik), n.

with the biological sciences.

anorthoclase (an-ôr'thộ-klāz), n. [Gr. ἀνορθος, not straight, + κλάσις, fracture. See orthoclase.] A triclinic feldspar allied to microcline but containing a considerable amount of soda: characteristic of certain igneous rocks, as the andesite of Pantelleria.

anorthographic (an-ôr-thō-graf'ik), a. [Gr. av-priv. + orthographic.] That deviates from or is at variance with orthography or the accepted rules of spelling.

anorthographical (an-ôr-thộ-graf'i-kal), Characterized by irregular or incorrect spell-

ing; incorrectly spelled.

anorthographically (an-ôr-thō-graf'i-kal-i),

adv. Irregularly as regards spelling. See the quotation.

A fresco painting has been discovered . . . representing the two martyrs, one of whom [Hyscinthus] bears his name written anorthographically thus, Jaquintus, Athenæum, July 14, 1894, p. 72.

anorthography (an-ôr-thog'ra-fi), n. priv. + ορθογραφία, correct writing.] Same as agraphia.

anorthoscopic (an-ôr-thô-skop'ik), a. [anorthoscope + -ic.] Pertaining to the anorthoscope or to the visual illusion which that iustrument produces. Amer. Jour. Psychol., II.

anorthose (an-ôr'thōs), a. [Gr. ἀν- priv. + δρθός, straight, +-ose.] Same as *anorthoclase.
anorthosite (an-ôr'thō-sit), n. [anorthose + -ite².] In petrog., a granular or gneissoid igneous rock of eastern Canada, consisting chiefly of the plagioclase feldspar, labradorite. The name (first used by Hunt in 1863) is now applied to rocks composed largely of any lime-soda feldspar (plagioclase). The anorthosites are regarded by some petrographers as the highly feldspathic extreme of the gabbro family of igneous rocks.

anosmatic (an-os-mat'ik), a. [Irreg. (Gr. av-priv. + oaun, smell, + -atic. A more correct form would be anosmic, *anosmetic, or *anos-motic.] Having the sense of smell or the olfacsa a proof or a broadside.

Anoplagonus (an-ō-plag'ō-nus), n. [NL., < Amer. Anthropologist, Oct.—Dec., 1903, p. 638.

Gr. ἀνοπλος, unarmed, + Agonus.] A genus of anosmic (an-os'mik), a. [anosmia + -ic.] 1.

sea-poachers of the family Agonidæ, found in Having no odor.—2. Of or affected with an-

osmia.

group

Anquetilia (an-kwë-til'i-ä), n. [NL. (De-eaisne, 1848), named in memory of A. H. An-Anquetilia (an-kwë-til'i-ä), n. quetil-Duperron (1731-1805), a French orientalist.] A genus of dicotyledonous plants of the family Rutaceæ. See Skimmia.

Ansate fissure or sulcus. See *fissure. anselmino (ān-sel-mē'nō), n. [It.] A silver eoin of Mantna: so named from the effigy and

name on the reverse.

Anseremme limestone. See *limestone.

anseriform (an-ser'i-fôrm), a. [NL. anseri-formis, \langle L. anser, goose, + forma, shape.] formis, (L. anser, goose, + forma, shape.] lying strata.

Resembling a goose; pertaining to the Anseriantecilial (an-tē-sil'i-al), a. [L. ante, before, formes, a group of birds which contains the + cilium, eyebrow, + -al.] Same as *anteducks and geese.

Anspach porcelain. See *porcelain1.

Anspach porcelain. See *porcelain¹.

ant¹, n.—Black ant, Monomorium minutum, a common species in the United States, frequently entering honses. Also called little black ant.—Bulldog ant, any ant of the genns Mymecia, which is confined to Australia and Tasmanla and contains about 30 species. They form large mounds of earth for their nests, and are the most formidable of all ants, possessing large jaws and stinging severely.—Corn-louse ant, Lasius brunneus, a small brown ant which nests in fields and cares for certain plant-lice that feed on the roots of grains and grasses.—Imbauba ant, a Brazilian arboreal ant, of the genus Azteca, which forms small nests in the interior of plants and is thought to protect them from the attacks of the leaf-cuttling ants,—Leaf-cuttling ant, that fervens, a large brown and which defoliates trees: common throughout Central America, and found slso abundantly in southern Texas.—Mound-building ant, Formica exectoides, a species in the United States which builds large mounds. Some of these mounds are 100r12 feet in diameter. The head and thorax of this ant are rust-red and the legs and abdomen are black.—Porcupine-grass ant, an Australian ant, Hypectinea facipes, which makes its nest at the roots of the porcupine-grass, frequently covering the leaves with sand brought up from the ground.—Red ant. See red!.—Shed-builder ant, Cremastogaster lineolata, a species, common in the aouthern United States, which sometimes builds sheds, composed of a paper-like pulp, over herds of aphida or scale-insects, from which they obtain honeydew. Comstock.—Small yellow ant, Solenopsis debitis.

anta³ (än-tä'), n. [Native name.] A name in northwestern South America of the ivory-nut.

anta3 (än-tä'), n. [Native name.] A name in northwestern South America of the ivory-nut palm, Phytelephas macrocarpa. See Phytele-

nhas.

Antæan (an-tē'an), a. [L. Antæus, ζ Gr. Ανταίος.] Of, pertaining to, or resembling Antæus, a giant, in Greek legend, slain by Hereules. Anteus was invincible as long as he remained in contact with his mother Gæa, the earth; but Herceles, who discovered the source of his strength, lifted him into the air and crushed him.

antagonal (an-tag'ō-nal), a. Antagonistie: as, "antagonal principles of faith and sight," J. Woodjord. N. E. D. antagonistic, a. 2. In the psychology of visual

sensation, complementary: as, blue and yellow

are antagonistic colors.

Antarctogæa (an-tärk-tō-jē'ä), n. In zoögeog., a name proposed by Sclater for an area chiefly in the southern hemisphere and embracing Central and South America, Australasia, Polynesia, and Austro-Malaysia. The association is based upon the fannal relationships.

Antarctogæan (an-tärk-tǫ-jē'an), a. Of or pertaining to the zoögeographical area known as Antarctogæa. Also Antarctogæal and Antare-

togæic. See the extract.

The Antarctogæan area thus includes what are regarded by Blandford, Lydekker and others as two separate realms, i. e., Neogrea (South and Central America) and Notogæa (Australasia, Polyneala and Austro-Malaysla), while Africa south of the Sahara was regarded as a re-

Antarian (an-tā'ri-an), a. and n. I. a. Pertaining to or resembling the star Antares .tanning to or resembling the star Antares.—
Antarian stars, stars of Secchi's third type, resembling
Antares in having a finted spectrum in which the dark
findings are sharply defined at their upper edge (toward
the blue end of the spectrum) and fade out toward the
red. They are far less shundant than Sirian and Arcturian stars, but still are not very rare.

II. n. A star of the type of Antares.

ant-cattle (ant'kat*), n. See ant-cow.

ant-cattle (ant'kat'l), n. See ant-cow. ant-disk (ant'disk), n. A circular space cleared of herbage around the nests of agricultural

ants. Stand. Dict. anteal, a. II. n. In ichth., the vomer; the anterior median bone of the eranium, imme-ante-partum (an-te-pār'tum), a. [L. ante diately behind and below the maxillary bones. partum, before delivery.] In obstet., prior to Starks, Synonymy of the Fish Skeleton, p. 508.

Antebrachial index. See *index.
antebrachium, n. 2. In ichth., the hypercoracoid, a bone of the shoulder-girdle. Starks,
Synonymy of the Fish Skeleton, p. 522.

anounou (ä-nō'ō-nō'ō), n. [Hawaiian.] In antecedent, a. 2. In phys. geog., noting rivers phenomena, as a condition to contemplating Hawaii, a species of peppergrass, Lepidium or streams which have persisted in their them.

Owaihiense, found in all the islands of the courses in spite of an uplift of the land: thus antephenomenalism (an''tē-fē-nom'e-nal-mathematical). the Meuse is an antecedent river, because it has persisted in its course by entting a deep gorge through the uplifted area of the Ardennes.

Streams which hold their courses in spite of changes Streams which hold their courses in spite of changes which have taken place since their courses were assumed are said to be antecedent. They antedate the crustal movements which, but for preexistent streams, would have given origin to a very different arrangement of river courses. Chamberlin and Salisbury, Geol., I. 161 Antecedent drainage, the drainage of antecedent streams.—Antecedent valley, a valley which has persisted throughout a period marked by crustal movement that has materially changed the attitude of the under-

ciliary

anteciliary (an-tē-sil'i-ā-ri), a. In the Lepidoptera, situated before the eiliary band, that is, before the band in front of the marginal fringe of the wings. Proc. Zool. Soc. Lond., 1902, II. 118.

anteclypeus (an-tē-klip'ē-us), n. In entom., the anterior part of the elypeus when that selerite is divided into two parts.

antecrochet (an-te-kroch'et), n. [L. ante, before, + crochet².] A fold of enamel directed posteriorly from the anterior cross-crest, or protoloph, in such a tooth as the molar of a rhinoeeros. Sometimes erroneously spelled anticrochet. See ent under *tooth.

antecubital (an"tē-kū'bi-tal), a. [L. ante, before, + cubitus, forearm: see cubitus.] In anat.,

situated in front of the cubitus or forearm.

antedoctorial (an "tē-dok-tō'ri-al), a. Prior to becoming a doctor.

Our doctor in his antedactoriat age was a student in eyden. Southey, Doctor.

anteëssive (an-tē-es'iv), a. [Irreg. < L. ante, before, + esse, be, + -ire.] In gram., noting the ease which expresses position in front of. Amer. Anthropologist, Jan.-March, 1903, p. 26. antefix, n. 2. An ornament on a vase so placed as to conceal the part where the handle joins

the body.

of, pertaining to, or of the nature of an ante-fix. S. Birch, Ane. Pottery, II. 7. N. E. D. antefurcal (an-tē-fer'kal), a. [antefurea + -al.] In entom., relating or pertaining to the antefurea.

antehumeral (an-tệ-hũ'mẹ-rạl), a. In entom. situated in front of the fore legs. Proc. Zool.

Soc. Lond., 1902, I. 77.

antelios (an-tê'li-os), n. [Gr. ἀντήλιος, opposite to the sun, $\langle \dot{a}\nu\tau i$, opposite, $+ \dot{\eta}\lambda\omega\sigma$, sun. Cf. anthelion.] The point in the heavens opposite

antelope-beetle (an'tē-lōp-bē tl), n. An American beetle, Dorcus parallelus, of the family Lucanide, with shorter jaws than the

stag-beetles proper of the genus Lucanus. antemedial (au-tē-mē'di-al), a. In entom., situated before the middle, or eephalad of the theoretical middle transverse line, of the thorax: especially used in colcopterology. Proc. Zool. Soc. Lond., 1902, I. 184. antemedian (an"tē-mē'di-an), a. Same as

*antemedial.

antenna, n. 2. (b) In Rotifera, a spur-like proeess bearing a tuft of setæ and projecting from the mid-dorsal line close to the trochal disk. Same as calcar1, 4.-4. In elect., the vertical conductor used in wireless telegraphy to send out electric waves (sender) or receive them (re-

ceiver). Phys. Rev., Sept., 1904, p. 197.

Antennal gland, lobes. See *gland, *lobe.

Antennary feet, the second and most important pair of swimming-feet in the Nauplius larva of crustaceans. These feet become the antenne of the adult.—Antennary gland. See *ytand.

antennular (an-ten'ū-lär), a. Of the nature of or resembling an antennula or small antenna: as, antennular organs. Huxley.

antenodal (an-tē-nō'dal), a. [L. ante, before, + nodus, node.] In entom., situated before the nodus: referring to a vein, or nervure, or space, as in the wings of dragon-flies. Proc. Zool. Soc. Lond., 1902, I. 49.

the delivery of the ehild.

antephenomenal (an"tē-fē-nom'e-nal), a. [L. ante, before, + NL. phænomena: see phenomenon.] Antecedent to phenomena; related to consciousness, considered as generating

izm), n. The character of being antephenomenal; the state of consciousness in so far as it generates phenomena.

anteposition, n. 3. In pathol., a forward displacement in the horizontal plane, especially

a misplacement of the uterus.

anteriad (an-te'ri-ad), adv. [anteri(or) + -ad3.] Toward the anterior end or surface of the body;

The radiment of the gall-bladder which in the previous stage is very shallow and basin-like, and opens dorsad within the primary evagination of the proton, is, in the present stage, a somewhat deeper evagination of the ventral part of the posterior wall, and opens anteriad.

Trans. Amer. Micros. Soc., Nov., 1993, p. 66.

anterodistal (an "te-rō-dis'tal), u. [L. *an-terus, assumed positive of anterior, anterior, + distal.] In entom., situated at the front end and away from the body. Proc. Zool. Soc. Lond., 1902, II. 275.

anterodistally (an "te-rō-dis'tal-i), adv. In cutom., at the front end and extending away from the body: as, an antennal joint prolonged anterodistally into a strong spine. Proc. Zool. Soc. Lond., 1900, I. 26.

anterodorsal (an te-rō-dôr sal), a. Situated in front and on or toward the back. Proc.

Zool. Soc. Lond., 1903, I. 282. antero-external (an "te-rō-eks-ter'nal), a. Sit-

uated in front and on the outer side. Amer. Jour. Sci., Jan., 1904, p. 29.

anterofixation (an"te-rō-fik-sā'shon), n. [L. "anterus, positive of anterior, anterior, + E. fixation.] Fixation anteriorly, as of the nterus to the anterior abdominal wall in eases of retroversion of that organ.

anteroflexion (an'te-ro-flek shon), n. A bending forward.

antero-inferior (an "te-rō-in-fē'ri-or), a. Situated in front and below or on the under side. Buck, Med. Handbook, II. 413.

antero-internal (an"te-rō-in-ter'nal), a. Situated in front and on the inner side. Amer. Jour. Sci., Jan., 1904, p. 32. anterolaterally (an"te-rō-lat'e-ral-i), adv. In

an anterolateral position or manner. anteromedial (an"te-rō-mē'di-al), a. Situated in front and toward the median line. Also anteromesial. Proc. Zool. Soc. Lond., 1901, I. 258. anteromesial (au*te-rō-mes'i-al or -mē'zi-al),
a. Same as *anteromedial.

anteroposteriad (an#te-ro-pos-te'ri-ad), adv. [anter(ior) + posteri(or) + -ads.] From in front backward, that is, from the anterior toward the posterior end or surface of the body; anteroposteriorly.

The vitelline veins extend antero-posteriad in the extreme dorsal portion of the septum transversum.

Trans. Amer. Micros. Soc., Nov., 1903, p. 58.

anteroposteriorly (an te-rō-pos-tē'ri-or-li), adv. From the front to the back; fore and aft.

anteropygal (an"te-rō-pi'gal), n. The median bony plate of a turtle's carapace immediately behind the posterior neural plate, which is borne upon the spinous process of a vertebra. In the cut under *Chelonia*, the line from Py runs to the anteropygal. The pygal plates are unsupported by any vertebrie, and may be three in number, in which case they are termed anteropygal, posteropygal, and marginal-py-

anterosuperior (an te-rō-sū-pē ri-or), a. Situated in front and on the upper part. Proc. Zool. Soc. Lond., 1901, I. 133.

anteroventral (an"te-rō-ven'tral), a. Situated in front and below or toward the ventral side. Buck, Med. Handbook, VII. 708.

anteroventrally (an te-ro-ven tral-i), adv. Forward and downward, or ventrally.

antescript (an'tĕ-skript), n. The writing which precedes (some other writing) as a prefatory note, or all that part of a letter which precedes the postseript, if there is one. Mrs. Browning, Letters, II. 164. [Rare.] N. E. D. anthem, n. Hence—2. A song or hymn ex-

pressive of praise, patriotism, loyalty, etc., and pressive of praise, patriotism, loyalty, etc., and set to music.—National anthem, a song or hymn adopted by a particular country, either officially or by common consent, as a distinctive expression of devotion to it or to its ruler, such as "God Save the King," the so-called national anthem of the British people, and the "Star-Spangled Banner," the national anthem of the United States. The former is said to have been written and composed by Henry Carcy (1666-1743) and first sing by him at a patriotic dinner in 1740. The "Star-Spangled Banner," was written by Francia Scott Key (1780-1843) in 1814, while a prisoner on a British ship; was set, by his

11, 637

desire, to the tune of "To Anacreon in Heaven," composed by John Stafford Smith (1750-1836); and was first sung in Baltimore by Ferdinand Durang.

anthemene (an'the-men), n. [Authemis enc.] A hydrocarbon, C₁₈H₃₆, found in the blossoms of Authemis nobilis. It melts at 64° C. anthemic (an'the-mik), a. Pertaining to or

derived from Inthemis.— Anthemic acid, a color-less, silky, crystalline principle of bitter taste contained in German canomile (Matricaria Chamomilla) and in Anthemis arrensis

anthemidin (an-them'i-din), n. A tasteless crystalline principle contained in German camomile (Matricaria Chamomilla).

anthemol (an'the-mol), n. [Anthemis + -ol.] A compound, $C_{10}H_{16}O$, found in the oil of camomile as esters of tiglic and angelic acids. It is a viscous oil with an odor like camphor.

antheridiophore (an-the-rid'i-ō-fōr), n. [NL antheridium + Gr. -φορος, ζ φέρειν, bear.] A gametophore bearing antheridia only. antherless (an'ther-les). a. [anther + -less.] Without anthers; anantherous.

antheromania (an "ther-ō-mā'ni-ä), n. [NL., ζ anthera, anther, + Gr. μανία, maṇia.] In bot., an excessive development of anthers.

antherpetic (ant-her-pet'ik), a. Preventive or curative of herpes.

anther-smut (au'ther-smut), n. A fungus (Ustilago violacea) which attacks the anthers of the carnation and of other nearly related plants.

Anthias (an'thi-as), n. [NL., ζ Gr. άνθίας, a sea-fish, Labrus or Serranus anthias, prob. < årtlog, a flower.] A genus of brilliantly colored fishes found in warm seas, the species longest known being the barbier, A. anthias, of the Mediterranean.

anthion (an'thi-on), n. [Gr. avri, against,

anthion (an'thi-on), n. [Gr. avii. against, θείον, sulphur.] The trade-name of a solution of potassium persulphate used by photographers to remove from their prints the last traces of sodium thiosulphate employed in washing.

anthocarp (an'thō-kārp), n. [Gr. ἀνθος, flower, + καρπός, fruit.] Same as pseudoearp.

anthocarpium (an-thō-kā'lus), n.; pl. anthocaulus (an-thō-tō-rā'bi-ā), n. [NL. (Newport, 1849), irreg. ⟨Anthophora + Gr. βίος, life.] A curious genus of hymenopterous parasites of the family Chalcididæ. Its species live, as A retusa, in the nests of the wild bees of the genus Anthophora. They are remarkable in atructure, the males having no compound eyes.

Anthophoridæ (an-thō-for'i-dē), n. pl. [NL., ⟨Gr. ἀνθος flower]. Anthophoridæ (an-t

Anthoceros (an-thos'e-ros), n. [NL. (Linnæns, 1753), referring to the long-horned capsule; \langle Gr. $\dot{a}v\theta o c$, flower, $+\kappa \epsilon \rho \omega c$, horned.] A genus of bryophytic plants, type of the family Anthoccrotacece. It is distinguished from the other two genera of the family by having the prolonged capsule inclosed in a sheath only at the base, and by the clearly developed columella. There are 79 species, found growing on moist ground (rarely on decaying loga) in nearly all parts of the world.

Anthocerotaceæ (an-thos/e-rō-tā'sē-ē), n. pl. [NL. (Schiffner, 1895), < Anthoceros (Anthocerot-) + -accæ.] A family of bryophytic plants of the class Hepaticæ, typified by the genus Anthoceros and containing the two other genus Anthoceros and containing the two other genera Notothylas and Dendroceros. It is characterized by the thalloid proembryonal generation, monœcious reproductive organs, the antheridia inclosed at first in the depressions of the thallus, the archegonia depressed, and the sporogonia with the 2-lobed capsules much prolonged beyond the thallus. There are more than 100 species, small plants resembling liverworts, widely distributed over the globe.

Anthocerotales (an-thos"e-rō-tā'lēz), n. pl. [NL. (Schiffner, 1895), < Anthoceros (Anthocerot-) + -ales.] An order of cryptogamic plants of the phylum Bryophyta, class Hepaticæ, coextensive with the family Anthocerotacæ, and regarded as intermediate between the Anthocerotales (an-thos/e-ro-ta'lez), n. ceæ, and regarded as intermediate between the Marchantiales and the Jungermanniales.

marchantaies and the Jungermannaies.

anthocerote (an-thos'e-rōt), n. [NL. Anthoceros.] A plant of the family Anthocerotaeeæ.

Amer. Nat., June, 1904, p. 479.

anthocodium (an"thō-kō'di-um), n.; pl. anthocodia (-ā). [NL., ⟨Gr. ἀνθος, flower, + κωδία, κώσεα, head, esp. of a poppy or similar plant.]

The free distal, tentaele-bearing portion of the bedy continuous allowers of the continuous continuous sections. body, as in alcyonarian polyps. Compare *anthostele.

anthocyan, n. 2. A red coloring matter developed in the young leaves of shade-loving plants when exposed to more light than they usually encounter.—3. A preparation from the jnice of the sweet or purple violet used in making syrup of violets and to color and flavor

liquors. Also anthokyan. Thorpe, Diet. Applied Chem., I. 174.

anthocyathus (an-thō-si'a-thus), n.; pl. anthocyathi (-thī). [NL., < Gr. ἀνθος, flower, + κναθος, eup.] The free discoid adult formed by the expansion of the upper part of the caly-ele of the tronhozoöid in *Funcia*. Compare tained from cultures of the anthrax bacillus. ele of the trophozoöid in Fungia. Compare *anthoemulus

Anthodon (an'thō-don), n. [Gr. ἀνθος, flower, + ἀδοίς (ἀδοντ-), tooth.] A genns of theromorphous reptiles of the family Pareussauridæ from the Karoo formation of South Africa.

antho-ecologist (an"thō-ē-kol'ō-jist), n. A student of flowers as correlated with their environment: a floral ecologist.

antho-ecology (an tho-e-kol o-in), n. [Gr. avoc, flower, + ecology.] The study of flowers in correlation with their environment; floral ecology.

anthogenetic (an-thō-jē-net'ik), a. Of or per-

taining to anthogenesis.

taning to anthogenesis.

anthomaniac (an-thō-inā'ni-ak), n. [anthomania + -ac (after maniac).] One who is extravagantly fond of flowers. H. Smith, Moneyed Man, II. 32!. [Rare.] N. E. D.

Anthomedusæ (an*thō-mō-dū'sē), n. pl. 1.

An order of Hydromedusæ marked by a regular stratistic for the stratistic flowers.

lar alternation of a sterile hydroid generation with a sexual generation of medusoids or other gonophores. Rigid permanent gonotheeæ and hydrotheæ into which the hydroids are completely retractile are not formed. The sense-organs of the medusoids are ocelli, and the generative organs lie in the wall of the manubrium. The hydroid may be colonial or not, fixed or free. Same as Gymnoblastea.

2. [l.c.] The medusæ budded from polyps of the

Tubulariæ, as distinguished from those budded

from the polyps of the Campanulariæ. Compare Leptomedusæ. Hacckel.

anthony (an'tō-ni), n. [Orig. Anthony pig, also Tantony pig.] The smallest pig of a litter: from the fact that one of a litter was vowed to

Anthophoridæ (an-thŏ-for'i-dē), n. pl. [NL., < Anthophora +-idæ.] A family of solitary bees, of the superfamily Apoidea. It comprises forms usually thickly clothed with hair and usually improving into the earth, where they form earthen cells which they supply with pollen and honey for the sustenance of their young.

Anthophyta (an-thof'i-tä), n. pl. [Gr. ἀνθος, Althophyta (an-thot rea), n. pl. [cf. droc, flower, + φυτόν, plant.] The flowering plants: only occasionally used. A. Braun.

anthophyte (an'thō-fīt), n. [Gr. ἀνθος, flower, + φυτόν, plant.] One of the flowering plants. See *Anthophyta.

anthopoma (an-tho-po'ma), n.; pl. anthopomata (-ma-ta). [NL., $\langle \text{Gr. } \tilde{\alpha} \nu \theta \phi_{S} \rangle$, flower, $+ \pi \tilde{\omega} \mu \alpha$, lid.] One of the spicular defenses, as calices and opercula, found among the aleyonarian polyps. anthoptosis (an-thop-tō'sis), n. [NL., \langle Gr. $\dot{a}\nu\theta o_{\zeta}$, a flower, $+\pi\tau\ddot{a}\sigma\iota_{\zeta}$, a falling.] The fall or shedding of flowers.

anthostele (an tho-stel), n. [Gr. ἀνθος, flower, + στήλη, a pillar: see stele.] The proximal portion of the body of an alcyonarian polyp by

which it is fused to the neighboring members of the colony. Compare *anthocodium.

Anthostoma (an-thos' tō-mä), n. [NL. (Nitschke, 1869), ⟨Gr. ἀνθος, flower, + στόμα, month.] A large genus of pyrenomycetous fundi, mostly saprophytic. The perithecia are buried in the bark or wood and are provided with necks. The spores are simple and are brown or black in color.

Anthostomella (an*thō-stō-mel'ā), n. [NL. (Saccardo, 1875), < Anthostoma + dim. -ella.]

large genus of pyrenomycetons fungi having the perithecia covered by the epidermis of the the perithecta covered by the epidermis of the host and a thin circular layer of dark mycelium. The spores are simple and are hrown in color. Most of the species are saprophytic, but λ , pisana attacks and kills the leaves of Chamærops humilis.

anthotype (au 'thō-tip), n. [Gr. $\dot{a}v\theta o c$, flower, $+\tau \dot{\nu}\pi o c$, type.] A fugitive photographic print produced by the action of light upon paper

treated with the expressed juice of flowers or plants. The petals of fresh flowers are crushed to a pulp and moistened with water or alcohol; the juice ex-pressed is strained through cloth and spread upon paper;

and the paper thus prepared is exposed beneath a negative. The light produces a change of color. The anthotype process was discovered by Sir John Herachel. Recently the use of artificial coloring matters, as quinoline blue, eureuma, and a rapidly fading red, has been sug-

-Anthracene acid-black, etc. See *acid-black, etc. anthracitization (an*thra-sī ti-zā'shon), n. [anthracite+-ize+-ation.] The process of changing lignite or bituminous coal into anthra-

changing ngmice of intuminous coarm to anthracite. Athenæum, Oct. 17, 1903.

A anthracnose, n. 2. A name given to those diseases of plants which are caused by the attacks of fungi of the genera Glæssporium attacks of fungi of the genera Glæosporium and Colletotrichum. Among the important diseases caused by Glæosporium are: anthracnose of the almond, due to G. amygdalinum; anthracnose of the apple, caused by G. fractigenum; anthracnose of the blackberry and raspberry, caused by G. Frenetum; anthracnose of the currant, caused by G. Ribis; and anthracnose of the rose, caused by G. Rosæ. Among the diseases produced by Colletotrichum are: anthracnose of beans, caused by C. Lindemuthianum; anthracnose of the hollyhock, caused by C. Malvarum; anthracnose of the hollyhock, caused by C. Malvarum; anthracnose of tomatoes, caused by C. phomoides.

anthracnosis (an-thrak-nō'sis), n. [NL.] Same

as anthracolithic (an"thra-kō-lith'ik), a. [Gr. ἀνθραξ, coal, + λίθος, stone.] In geol., containing anthracite coal: specifically applied by the Geological Survey of India to a series of Permian strata metamorphosed to mica schists, with graphitic and anthracitic seams. Nature, May 26, 1904, p. 86.

Anthracomartus(an"thra-kō-mär'tus),n. [NL. \langle Gr. ἀνθραξ, coal, + (?) μάρτις, a witness.] A genus of fossil spiders in which the cephalothorax is quadrangular and the abdomen is composed of 7 segments. It is found in the coal-measures of North America and Europe.

Anthraconectes (an thra-kō-nek tēz), n. [Nl., ζ Gr. ἀνθραξ, coal, + νήκτης, a swimmer.] A genus of extinct merostome crustaceans from the coal-measures of Illinois.

anthraconene (an-thrak'ō-nēn), n. [Gr. ἀνθραξ $(\dot{a}\nu\theta\rho\alpha\kappa-)$, coal, + -n- + -ene.] A resin found between the coal strata near Schlan, in Bohemia. It is brownish black or, in thin layers, hyacinth-red.

Anthracosia (an-thra-kō'si-ä), n. [NL., < Gr. anθροξ, coal, + L. -os(us) + -ia².] A freshwater or estuarine genus of pelecypod mollusks, allied to living unios, found in the Carboniferous and Permian rocks.

anthracotic (an-thra-kot'ik), a. [anthracesis (-ot-) + -ic.] Relating to or affected by anthracosis. Jour. Exper. Med., V. 156.

anthracotypy (an'thra-kō-tī"pi), n. [Gr. ἀν-θραξ (ἀνθρακ-), coal, + τύπος, type.] Printing by means of powdered charcoal or other colors; in photog., a process of reproducing subjects in tint on thin transparent paper. The image on a bichromated gelatin film is treated with warm water, which causes it to swell and become sticky at the parts not affected by light. Those parts are thereby adapted to receive and hold powdered colors, which by printing may be transferred to paper.

anthraflavic (an"thra-flav'ik), a. [Prob. \(\) anthra(cenc) + L. flavus, yellow.] Noting an acid, 1.6-dihydroxyanthraquinone, C6H3OH-(CO)₂C₆H₃OH. It is isomeric with alizarin, and crystallizes in yellow needles which melt above 330° C.

anthranil (an'thra-nil), n. [anthra(cene) + anil (indigo).] The anhydrid of anthranilie

or orthoaminobenzoic acid, C_6H_4 $\stackrel{\smile}{\longleftrightarrow}$ $\stackrel{\smile}{NH}$.

an oil with an odor resembling that of oil of bitter almonds.

anthranilic (an-thra-nil'ik), a. [anthranil + -ic.] Noting an acid, orthoaminobenzoic acid, $C_6H_4(\mathrm{NH}_2)CO_2H$: so named because it was first obtained by boiling indigo with potassium hydroxid. It has acquired great commercial importance in the manufacture of synthetic indigo. It melts at 145° C. and has a sweet taste.

anthranol (an'thra-nôl), n. [anthran(il) + -ol.] A substance, 9-hydroxyanthracene, C_6H_4 C_6H_4 C_6H_4 . It crystallizes in needles

C

which melt, with decomposition, at 163°-170° C. Anthrapalæmon (an thra-pa-lē mon), n. [NL., irreg. ζ Gr. ἀνθραξ, coal, + NL. Palæmon, a genus of crustaceans.] The generic name of an extinct crawfish from the coalmeasures of Illinois and Scotland.

anthrapurpurin, anthrapurpurine (an "thraper'pū-rin), n. [anthra(eene) + purpurin.] A mordant color, a trihydroxyanthraquinone, $C_6H_3OH(CO)_2C_6H_2(OH)_2$, isomeric with purpurin: sometimes called *isopurpurin*. It is applied in the same maoner as alizarin, but produces a yellower or more flery red. The so-called yellow shades of alizarin often contain anthrapurpurin. See *alizarin.

anthraquinoline (an"thra-kwin'ō-lin), n. [anthra(cene) + quinoline. J A base, $C_{17}H_{11}N$, formed by distilling alizarin bluewith zine-dust. It melts at 170° and boils at 446° C. It is related to both anthracene and quinoline in its structure.

Anthraquinone red. See *red1.

anthrarobin (an"thra-rô'bin), n. [anthrac(ene) + Rob(inia) + -in².] A compound, 1.2-dihy-droxyanthranol, or 1.2.9-dihydroxyanthracene, C₆H₄ COH CH₂(OH)₂, formed by the reduc-CH

tion of alizarin. It crystallizes in vellow leaf-

anthrarufin (an'thra-rö'fin), n. [anthra(cene) + ruf(ous) + -in².] A compound, 1.5-dihy-droxyanthraquinone, HOC₆H₃(CO)₂C₆H₃OH, isomerie with alizarin. It crystallizes in yellow leaflets which melt at 280° C., and is used as a dvestuff.

as a dyestum. anthrasol (an'thra-sol), n. An oily substance possessing soothing and antipruritic powers. anthrol (an'throl), n. [anthr(acene) + -ol.] A substance, 2-hydroxyanthracene, $C_6H_4(CH)_2$ - C_6H_3OH . It consists of leather-colored leaflets or needles which decompose at 200° C.

anthrophotoscope (an-thrō-fō'tō-skōp), n. [Irreg. ζ Gr. ανθρωπος, man, + photoscope.] A photographic instrument having rotating glass disks on the marginal edges of which backgrounds and figures are mounted: these, when viewed through a long-focus lens, produce the effect of a peep-show. Also used in rephotographing to change the grouping or background.

anthropic, a. 2. [cap.] In geol., a term introduced by Sir J. W. Dawson to designate the anthropic, a. human period, or the period of such Pleistocene and recent deposits as are found to contain human relics. It was divided by him into an early, or Palanthropic, and a late, or Nean-

thropic, stage. See human *period.

anthropinism (an-thrō'pin-izm), n. [Gr. ἀνθρώ-πινος, of man (⟨ ἀνφρωπος. man), + -ism.] The habit of considering everything as subordinate to man, or of considering things in relation to man and his needs and destiny. Grant Allen.

anthropinistic (an-thro-pin-is'tik), a. Of the nature of anthropinism; considering things from a purely human standpoint, or in their relation to man only. Grant Allen. [Rare.] anthropism (an'thrôpizm), n. The doctrine or opinion that man is essentially different from, and contrasted with averathing cleaking.

from, and contrasted with, everything else in nature, and the end for which the natural world was made.

anthropistic (an-thro-pis'tik), a. Of or pertaining to the doctrine or opinion of anthro-

(an "thro-po-sen 'trianthropocentricism The doctrine or opinion that the sizm), n. The doctrine or opinion that the world, or the universe, has been made for man, and for the purpose of securing human welfare. anthropoclimatologist (an "thro - po - klī - mātol'o-jist), n. One who makes a special study of the relations of the weather or the climate to mankind.

anthropoclimatology (an"thrē-pē-klī-mā-tol'-ē-iī). n. [Gr. ἀνθρωπος, man, + climatology.] ō-jī), n. [Gr. ἀνθρωπος, man, + climatology.]
The study of the mutual relations of climate climatology. 1 and mankind, including all human interests; the environment of a race or a nation; the iufluence of climate on the evolution of man.

anthropocosmic (an"thro-po-koz'mik). a. [Gr. ανθρωπος, man, + κόσμος, world.] Of man and nature. J. G. Schurman.

anthropofagy, n. A simplified spelling of anthropophagy.

anthropogeographer (an'thrō-pō-jē-eg'ra-fer), n. A person who is versed in anthropo-geographical science. Brinton, Basis of Social Relations, p. 181.

anthropogeographic (an"thro-po-je-o-graf'ik), Of or pertaining to anthropogeography. anthropogeography (an'thrô-pô-jê-og'ra-fi), n. [Gr. ἀνθρωπος, man, + geography.] Geography as related to man and the conditions of his habitat.

In our estimation, anthropogeography is a convenient term under which to include all those aspects of geography that deal with the relations of humanity, as a whole or divided into communities, to the earth, with which alone physical geography has to deal. "Applied Geography" might be taken as an alternative term, though on the whole it has a wider scope. "Political Geography" may be regarded as a subdivision or special application of anthropogeography, and therefore Prof. Ratzel's latest work is a natural sequel to that on the more general subjects. Geog. Jour. (R. G. S.), XIII. 171.

anthropoidometry (an"thrō-poi-dom'e-tri), n. [Gr. ἀνθρωποειδής, tike a mau (see anthropoid), + -μετρία, ζ μέτρον, measure.] The measurement of the bodies of anthropoid apes. Amer. Anthropol., Oct.-Dec., 1903, p. 708, anthropolatric (an-thro-pol'a-trik), a. Of or

pertaining to anthropolatry.

anthropolith (an'thrō-pō-lith), n. Same as

anthropologically (an#thro-po-loj'i-kal-i), In an anthropological way or direction.

tion of alizarin. It crystallizes in yellow leatlets or needles which melt at 208° C. Also called desoxyalizarin. Anthrarufin (an*thra-rö'fin), n. [anthra(cene)] anthrarufin (an*thra-rö'fin), n. [anthra(cene)] and mental characteristics of criminals.—Culture anthropology, that branch of anthropology which deals with the physical anthropology which deals with the mental life of mankind, or with human activities: opposed to physical anthropology, or somatology, isomeric with alizarin. It crystallizes in yel-

anthropometer, n. 2. An instrument used for anthropometric measurements.

anthropometric measurements.

anthropometrician (an"thrō-pō-mē-trish'an),

n. [anthropometric + -ian.] Same as anthropometer, 1. Smithsonian Rep., 1890, p. 563.

anthropometrics (an thrō-pō-met riks), n.

Same as anthropometry.

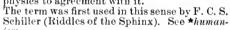
anthropometrist (an -thro - pem 'e - trist), One versed in anthropometry, or engaged in anthropometric investigations.

Anthropometrists think growth in height to be more or ss antagonistic to growth in girth.

G. S. Hall, Adolescence, I. 19.

anthropomorph (an'thro-pomôrf), n. [Gr. ἀνθρωπόμορφος, of human form, ζ ἄνθρωπος, man, $+\mu\rho\rho\phi\eta$, form.] An element in decorative art, derived from the human form. Haddon, Evolution in Art, p. 41.

anthropomorphism, n. 3. In pragmatistic philos., that philosophic tendency which, recognizing an absolute impossibility in the attainment by man of any conception that does not refer to human life, proposes frankly to snbmit to this as a decree of experience and to shape meta-Anthropomorph, primitive American. hysics to agreement with it.



anthropomorphological (an "thrō -pō -môr -fō-loj'i-kāl), a. Characterized by or of the nature of anthropomorphology.

anthropomorphologically (an thro-po-morfo-loji-kal-i), adv. With anthropomorphic language. McCosh, Divine Gov., p. 475.

anthropomorphously (an"thro-po-môr'fus-li). In an anthropomorpheus manner. anthropopsychic (an "thro-po-si'kik), a. pertaining to *anthropopsychism (which see).

anthropopsychism (an thro-pō-sik'izm), n.

[Gr. $a\nu\theta\rho\omega\pi\sigma\varsigma$, man, $+\psi n\chi\dot{\eta}$, soul, +-ism.]

The doctrine of a God who is anthropomorphic in the vaguely magnified sense of being personal and spiritual, but not necessarily in the sense of having a human body: a term proposed by the Duke of Argyll, somewhat unnecessarily, since none but the most primitive men believe in any other anthropomorphism than

anthroposociologist (an"thrē-pē-sē-shi-el'ē jist), n. [Gr. $\alpha \nu \theta \rho \omega \pi o c$, man, + sociologist.] A sociologist who is primarily an anthropologist and who explains social phenomena for the most part by anthropologic principles; especially, one of a group of writers, headed by Lapouge, who base their classification mainly on the cephalic index and hold that the doli-Sociol., p. 231.

anthroposociology (an"thro-po-so-shi-el'o-ji) n. [Gr. ανθρωπος, man, + sociology.] Sociology as studied primarily from the point of view of the physical characteristics of population constituting social groups; specifically, the

science, or alleged science, which classifies the human races primarily by the cephalic index, arranging those of Europe in a hierarchy with

arranging those of Europe in a merarchy with the dolichocephalous races at the head. Jour. Polit. Econ., Dec., 1900, p. 76.

anthropoteleological (an"thrō-pō-tel"ē-ō-loj'i-kat), a. [Gr. ἀνθρωπος, man, + teleological.] Pertaining to the teleological working of the human mind which adapts means to ends; distinguished from *theoteleological, which applies to the teleological working of the divine mind, Ward, Dynamic Sociol., I. 28.

anthropoteleology (an "thrō-pō-tel-ē-ol'ō-ji), n. [Gr. ἀνθρωπος, man, + teleology.] The doctrine

that the human mind always works teleologi-

anthropotheism (an "thrō-pō-thē'izm), n. [Gr. à νθρωπος, man, + θεός, God, + -ism.] A stage in the evolution of religion in which deities are conceived in the image of man and are often believed to be the surviving spirits of once powerful men. Ward, Dynamic Sociol., II. 257. anthropotoxin (an"thrō-pō-tok'sin), n. [Gr. $\dot{a}\nu\theta\rho\omega\pi$ oς, man, $+\tau$ o $\xi(\iota\kappa\dot{o}\nu)$, poison, +- in^2 .] A poisonous substance given off from the lungs. anthropozoic (an throp-po-zoith), a. and n. [Gr. $a v \theta \rho \omega \pi \sigma c$, man, $+ \zeta \omega \eta$, life.] I. a. Of the time of the existence of man; belonging to

these recent geologic formations which have been deposited since the appearance of man upon the earth.

II. n. [cap.] The final member in the series
Azoic, Eozoic, Paleozoic, Mesozoic, Cænozoic,
Anthropozoic, or Psychozoic.

anthropozoë, or rsychozofe. anthropozoë, or rsychozofe. anthropozoëmorphic (an"throp-pō-zō-ō-môr'-fik), a. [Gr. $\delta v \theta \rho \omega \pi \phi_s$, man, $+ \zeta \phi \sigma v$, animal, $+ \mu \sigma \rho \phi \eta$, form, + -ic.] In anthrop., partaking of the character of both man and animal: said in reference to eximple which in reference to animals which are believed by primitive tribes to be, or to have been, endowed with all the characteristics of their species and also with those of human beings, and to be able to assume animal or human form at will.

It is rather a worahlp of the ancestors of the Snake clans, which are anthropo-zoomorphic beinga, called the Snake youth and the Snake maid. An. Rep. Bur. Amer. Ethnol., 1897-98, p. 1008.

Anthurium, n. 2. [l. c.] A plant of the genus Anthurium, A. 2. (a. c.) A plant of the genus Anthurium. A. Veitchii and A. Warocqueanum are cultivated for their foliage; others, conspicuously A. Andræanum, for their showy spathes and spadices. The last-named has the spathe cordate and spreading, sometimes very large, of an orange-red color varying to white.

anthurus (an-thū'rus), n. [NL. (Gr. ἀιθος, flower, + οὐρά, tail.] A cluster of flowers at the end of a long stalk. Jackson. [Rare.] anthypophoretic (ant/hi-pof-o-ret'ik), a. Of the nature of an anthypophora. Urauhart.

Works, p. 292. anti (an'ti), n. [Short for anti-monopolist, -prohibitionist, -imperialist, etc., according to the case.] One who is opposed to some proposed or undertaken course of action, policy, measure, movement, or enactment, as, for example, to imperialism. [Colleq.]

anti-. (3) In chem., a prefix used to indicate that two groups or two atoms which might react with each other are so separated in space that they do not readily do this. It is contrasted with the prefix syn-. Thus in antibenzaldoxime, C₆H₅-Cll, the H and OH do not readily com-

HON bine to form water, while in synbenzaidoxime, C6H5-CH,

such a combination takes place easily. anti-abrin (an-ti-a'brin), n. [anti- + abrin.]

The antibody to abrin.

anti-albumid (an-ti-al'bū-mid), n. A product of albuminous digestion characterized by its

resistance to preteolytic ferments.
anti-albumose, n. 2. In immun., a specific precipitin corresponding to albumose.

anti-amaryllic (an'ti-am-a-ril'ik), a. Noting a serum suggested for the treatment of yellow fever. Also anti-amariltic.

anti-amboceptor (an-ti-am'bō-sep-tor), n. The antibody to an amboceptor.

anti-antibody (an-ti-an'ti-bod-i), n.; pl. antiantibodies (-iz). The antibody to any adaptation-product.

anti-antidote (an-ti-an'ti-dōt), n. A substance that inhibits the action of an antidote. choeephalous races are superior and are des- anti-antitoxin (an'ti-an-ti-tok'sin), n. An tined to dominate all others. Ward, Pure antibody resulting on immunization with an antitoxin, which counteracts the effect of the latter.

anti-apex (an-ti-ā'peks), n. The point opposite the "apex of the sun's way," toward toward which his motion in space is directed. Amer. Jour. Sci., Aug., 1903, p. 136.



Antiarcha (an-ti-ār'kā), n. pl. [NL., said to anticipatorily (an-tis'i-pā-tō-ri-li), adv. In be \langle Gr. $ar\tau_i$, against, + $a\rho_{\chi}\phi_{\zeta}$, rectum.] An anticipation; beforehand. Ruskin, Notes, I. 71. ordinal term introduced by Cope for a group [Rare.] N. E. D.be \langle Gr. arti, against, + $d\rho_{\chi}\phi_{\zeta}$, rectum.] An anticipation; beforehand. Ruskin, Notes, L ordinal term introduced by Cope for a group of extinct ostracoderm fishes characterized by anticipatoriness (au-tis'i-pā-tō-ri-nes), n. their heavily plated head and abdomen. their neavity placed nead and abdomen. The head is articulated to the trunk and two paddle-like pec-toral appendages are articulated to the plates of the trunk. The best-known genera of this order are Pte-richthys and Asterdepis: all its representatives are re-stricted to the Devonian formations.

Antiarcha

antiarigenin (an "ti-a-rij'e-nin), n. + L. -gen, produce, + -in².] A crystalline compound, C₂₁H₃₀O₅, obtained by the decomposition of antiarin. It melts at about 180° C. anti-arthrin (an-ti-ār'thrin), n. [Gr. $\dot{a}\nu\tau i$, against, + $\dot{a}\rho\theta\rho\sigma$, a joint.] A compound

anti-autolysin (an'ti-à-tol'i-sin), n. An anti-body which will inhibit the action of the cor-

responding autolysin.

antibacterial, a. 2. Preventing the action or development of bacteria. Mcd. Record, Mar. 28, 1903, p. 511.

antibacteriolytic (an"ti-bak-te"ri-ō-lit'ik), a.

[anti- + bacteriolytic.] Antagonistic to bacteriolytic action.

antiballooner (an "ti-ba-lön'er), n. In textilemanuf., a device employed on a ring-spinning frame to restrict the centrifugal bulging of the yarn during spinning. Nasmith, Cotton Spinning, p. 356.

[Gr. ἀντί. against, + E. benzene + Gr. πῦρ, fire, + -ine².] The trade name of a material anticoagulant (an*ti-ko-ag-qū-lant), a. and n. ferpose in receiving sletching and tartile forbins.

for use in scouring clothing and textile fabrics generally. It is used in order to avoid or to diminish generally. It is used in order to avoid or to dimmissing the danger of fire from using ordinary benzin, which is liable to become ignited by electric aparks produced by friction on the aurface of the cloth. Antibenzenepyrine is said to consist of 60-65 per cent. benzin of specific gravity .700, 20-25 per cent. hydrocarbon oil of specific gravity .825,-830, and 10-12 per cent. magnesia soap.

antibiotic, a. 2. In biol., injurious or deadly living substance: as, an antibiotic secretion.

Glandular powers directed to the production of bactericidal, or at least antibiotic aubstance.

Philos. Trans. Roy. Soc. (London), 1894, ser. B, 185. 312.

anticoherer (an"ti-ko-her'er), n. [and the state of the content of the cont

antiblennorrhagic (an'ti-blen-ō-raj'ik), a. and n. [anti-+blennorrhagia + -ic.] I. a. Curative of catarrh or of gonorrhea. Buck, Med. Handbook, I. 103.

II. n. A remedy possessing this property. antibody (an'ti-bod-i), n.; pl. antibodies (-iz). [anti- body.] A body or substance which inhibits the action of another substance. called antisubstance and, as a general term. adaptation-product. See *adaptation-product

antibromic (an-ti-brō'mik), a. and n. [anti-+Gr. βρῶμος, smell, +-ic.] I. a. Deodorant.

II. n. A deodorant.

anticathode (an-ti-kath'od), n. often of platinum, placed opposite the cathode in a vacuum-tube, on which the cathode rays, or streams of electrified particles, impinge and thus produce the Röntgen rays.

anticeltina (an "ti-sel-ti'na), n. A compound of urea and merenry which does not precipitate albumen: used hypodermically in affections of

the cornea and iris.

anticephalalgic (an "ti-sef-a-lal'jik,, a. and n. [Gr. ἀντι, against, + κεφαλάλγία, headache, + -ic.] I. a. Preventive or curative of headache.

II. n. A remedy possessing such properties. antichlorin (an-ti-klō'rin), n. Same as anti-

antichretic (an-ti-krē'tik), a. [antichresis said of four points. (-ct-) + -ic.] Of the nature of antichresis: as, anticyclonal (an-ti-sī'klē-nal), a. an antichretic agreement or contract.

antichrome (an'ti-krôm), n. [anti-+chromc.] A name given to certain pigments which are free from the defects of those in which chrome

or chromium is an ingredient. antichymosin (an-ti-ki'mō-sin), n. An anti-body which will inhibit the coagulating action

of chymosin on milk.

anticipant, a. II. n. One who anticipates or looks forward to something; an anticipator: as, "the sweet anticipant of dawn," B. Taylor, Poems of the Orient, p. 396.

Anticipating intermittent. See *intermittent.

psychol., a complex feeling accompanying the antecedent image in volition.

The antecedent image is not a volition, unless it includes a certain realized anticipatoriness, which we may which inhibits the action of diastase. describe roughly as 'the thought of a real happening.'

M. W. Calkins, Introd. to Psychol., p. 300.

Same as Antidicomarian (an'ti - di - kō - mā'ri - an), n. Same as Antidicomarianite.

n. [antiar A crystalline by the decompabout 180° C. a. [Gr. åvτί, [Gr. åvτί, [Gr. åvτί, [Gr. åvτί, [Gr. åvτί]]] A crystalline by the decompabout 180° C. a. [Gr. åvτί, [Gr. åvτί, [Gr. åvτί, [Gr. åvτί, [Gr. åvτί]]] A crystalline ticized, ppr. anticizing. [antic + -izc.] To play autics; cut capers; caper about; frolic. [Gr. åvτί, [Gr. åvτί]] A crystalline ticized (anticized, pr. anticized) and pr. anticized (anticized, pr. anticized) and pr. anticized (anticized, pr. anticized) anticized (anticized, pr. anticized, pr

against, + ἀρθρον, a joint.] A compound formed by the condensation of tannin and saligenin. It is used as a remedy in acute and chronic gout and rhenmatism.

anti-autolysin (an*ti-â-tol'i-sin), n. An antibody which will inhibit the action of the corresponding autolysin.

antibacterial, α. 2. Preventing the action or development of bacteria. Mcd. Record, against, + ἀρθρον, a joint.] A compound anticlinal, α.—Anticlinal cells, parent-cells that persist and do not produce antipodal cells. They may be (a) the content of the con

anticlinorium (an-ti-klī-nō'ri-um), n.; pl. anticlinoria (-ä). [NL., < anticline + -orium.]
A monntain formed by an anticline; a series of folds in which the anticlinal type predominates: a series of great arches with many minor undulations.

[anti-+ coagulant.] I. a. Possessing the property of retarding or preventing coagulation, especially of the blood. Buck, Med. Handbook, V. 493. II. n.

Any agent which retards or prevents coagulation.

anticoagulin (an "ti-kō-ag'ū-lin), n. An antia coagulin.

anticœlous (an"ti-sē'lns), a. In ornith., noting that condition of the intestine in which its folds are united by the mesentery and are al-

[anticoherer.] A device which, like a coherer, is a detector of electric waves, but whose resist-ance is increased by them.

anticomplement (an-ti-kom plē-ment), n. The

antifebrine (an-ti-feb'rin), n. Acetauilide:

employed in medicine as an antipyretic.

antiferment, n. 2. A specific antibody which

antibody to a complement. Substances of this order result by immunizing animals with normal aerum; they inhibit the action of the corresponding complements.

anticor (an'ti-kōr"), n. [Also anticore, antecor, anticour; anti- + L. cor, heart.] A circumscribed swelling or slough on the neck of a horse in the region of the collar, resulting from antifony, n. A simplified spelling of antiphony, pressure of badly fitting harness or from irritatantifrasis, n. A simplified spelling of antiphony.

and *immunity.

The reaction is caused by the development within the blood-serum of the injected animal of an anti-body or a property or substance which causes a certain reaction with the serum homologous to the one injected.

Med. Record, June 13, 1903, p. 953.

Mathematical devices for a railway from creeping the rails of a railway from creeping the railway from cree keeping the rails of a railway from creeping or moving lengthwise, and for diminishing the lengthwise motion of flat leather belts upon their pulleys.

anticryptic (an-ti-krip'tik), • a. [Gr. ἀντί, against. + κρυπτός, hidden.] In biol., serving to conceal or fitted for concealing one organism to the disadvantage of another: as contrasted with procryptic, serving to hide an organism for its own welfare. — Anticryptic colors, in zoöl, those colors which cause an animal to resemble its surroundings, or some other species, and thus facilitate the capture of prey. Thus some spiders closely resemble parts of flowers, and so are enabled to capture insects, while the weasel so harmonizes with the snow in winter and the earth in summer that it can approach its prey unnoticed.

anticyclic (an-ti-sī'klik), a. In math., two on a circle, the other two inverse as to that circle. ism to the disadvantage of another: as con-

a circle, the other two inverse as to that circle:

anticyclonic .- Anticyclonal gradient, the barometric gradient directed away from the center of an anti-cyclone, especially in the outer portions of the anti-

anticyclonic, a.—Galton's anticyclonic law. See

anticytolysin¹ (an-ti-sī-tol'i-sin), n. The antibedy to a cytolysin.

These cytolytic or as some prefer to call them, cytotoxic sera, when introduced into the living bodies of the apecies from which the cells inciting their formation are derived, act as toxina to which the organism responda, each after its kind, by the development of anticotic substances. These are called anticytolysins or anticytotoxina.

Med. Record, Feb. 14, 1903, p. 247.

In anticytotoxin (an-ti-sī-tō-tok'sin), n. Same 71. as *anticytolysin. antidiabetic (an-ti-dī-a-bet'ik), n. An agent

or medicine that will prevent or cure diabetes; specifically, a drug which diminishes the elimination of sugar.

Same as Antidicomarianite.

antidiphtheritic (an"ti-dif- or -dip-the-rit'ik), a. [anti- + diphtheritis + -ic.] Antagonistic to the toxin of diphtheria: as, antidiphtheritic serum.

Antidiphtheritic serum has, in the few short years of its existence, so thoroughly proved its value and reliability that the failure of other antitoxic serums to produce equally good results has resulted in disappointment, and in some distrust of serum therapy in general.

Therapeutic Gazette, Feb. 15, 1903, p. 97.

antidote, n.—Chemical antidote, an antidote which combines chemically with the polson to form an innocu-

antidromal, a.—Antidromal torsion, a twisting of a twining stem or organ in a direction opposite to that of twining.

antidrome (an'ti-drom), n. and a. δρομος: see antidromous.] I. n. Same as *heterodrome.

II. a. Same as antidromous.

The blaze reaction, whether unequivocal (homodrome) or equivocal (antidrome), requires short atrong currenta for its manifestation.

Nature, Sept. 18, 1902, p. 191.

anti-enzym (an-ti-en'zim), n. The antibody to an enzym. Also antiferment.

We have already seen that bacteria are not digested in the alimentary canal and it is a familiar fact that ascarides can survive the digestive juices and it has recently been shown that the body wall of ascaria contains an anti-enzyme to pepsin. But what is more important and interesting is the fact that the human stomach wall contains an anti-enzyme to its own ferment. Lancet, April 4, 1903, p. 946.

anti-epithelial (an-ti-ep-i-thē'li-al), a. Noting a serum obtained on immunization with epi-thelial cells and accordingly containing epitheliotoxins.

anti-expansionist (an"ti-eks-pan'shon-ist), n. In recent United States politics, one who is opposed to the expansion of the United States by acquisition or conquest of new territory beyond the seas.

will inhibit the action of the corresponding ferment. The gastro-intestinal nuncous membrane and possibly all the tissues of the animal body probably protect themselves against autodigestion by such means.

antifever-tree (an-ti-fē'vèr-trē), n. fever-tree, 1.

antifrasis, n. A simplified spelling of antiphantifreezing (an-ti-fre'zing), p. a. Not capable

of freezing; preventive of freezing. antiglobulin (an-ti-glob' $\hat{\eta}$ -lin), n.

antigioudin (an-ti-giou μ-ln), n. A specine precipitin corresponding to globulins.

Antigonia (an-ti-gō'ni-ā), n. [NL., < (*) Gr.
'Αντίγονος or 'Αντιγόνη, a personal name.] A genus of fishes allied to the boar-fish, Capros, found in tropical seas. The color is salmonred and the body is much compressed, being deeper than it is long.

aceper than it is long.

Antigoniidæ (an-ti-gō-nī'i-dē), n. pl. The family of boar-fishes. The principal genera are Capros and Antigonia. Also Caproidæ.

antigopher-plant (an-ti-gō'fer-plant), n. [anti-+gopher+plant.] Same as mole-tree.

antigravitate (an-ti-grav'i-tāt), v. i. [anti-+gravitate]. To rise from the surface of the earth; to be repelled, instead of being attracted like ordinary matter, in a gravitational field

The author refers to Hovenden's theory of a substance or fluid which, when uninfluenced by external forces, rises from the surface of the earth or "antigravitates." Electrochem. Industry, June, 1904, p. 250.

antihalation (an "ti-hā-lā'shon), a. Counteracting the effects of halation.—Antihalation plate, a photographic dry plate so prepared that the rays reflected from the glass-support do not affect the sensitive flat.

antihemolysin (au " ti - hē - mol ' i - sin), n. physiol. chem., an adaptation-product which inhibits the action of the corresponding hemolysin. Its action is dependent upon the simultaneous formation of an anti-amboceptor and an anticomplement. Also antihæmolysin.

antihemolytic (an-ti-hem-ō-lit'ik), a. Inhibit-ing hemolysis. Science, May 27, 1904, p. 831. Also antihæmolytic.

antihidrotic (an-ti-hi-dret'ik), a. Same as

antihydrophobic (an"ti-hī-drō-fō'bik), a. [anti-

antihydropic (an "ti-hi-drop'ik), a. and n. [anti-+ hydrop(sy) + -ic.] I. a. Chrative of dropsy. II. n. A medical agent employed in the

treatment of drepsy.

anti-immune (an-ti-i-mūn'), a. Adverse to an immune body.—Anti-immune body, the antibody to an amboceptor. Such bodies result on immunization with specific immune bodies (amboceptors).

The "anti-body" prevents the linking of the immune body to the cell receptor and hence acts as an anti-immune body.

Med. Record, Feb. 14, 1903, p. 247.

anti-imperialism (an"ti-im-pe'ri-al-izm), The principles or spirit of the anti-imperialists. anti-imperialist (an "ti-im-pē'ri-al-ist), a. and n. I. a. Pertaining to the ideas of the antiimperialists.

II. n. One who is opposed to imperialism, or to the spirit, principle, or methods of empire; specifically, in United States politics, one who is opposed to the acquisition and govern-ment of dependencies beyond the seas by the arbitrary will of President or Congress, with-out regard to the rights of the people to selfgovernment. In use especially since the Spanish-American war of 1898.

anti-imperialistic (an"ti-im-pē"ri-a-lis'tik), a.

Same as *anti-imperialist.

anti-intermediary (an"ti-in-ter-mē'di-ā-ri), a. Used only in the following phrase.—Anti-intermediary body. Same as *anti-amboceptor.

The next experiment was to determine whether any The next experiment was to determine whether any action was exerted by venom upon the complements of these sera. For the purpose of obtaining the aerum-complement free from the intermediary body, the rabbit was treated with dog's serum heated to 56° C. In this way the anti-intermediary body was obtained, which, when heated to 56° C. (to remove rabbit's complement) and added to fresh dog's serum, neutralized the action of the latter upon rabbit's corpuscles. From this it could be concluded that the intermediary body of the dog's aerum was neutralized by the anti-intermediary body contained in the immunized rabbit's serum, leaving behind the pure dog's complement in the fluid.

Jour. Exper. Med., VI. 299.

anti-isolysin (an"ti-ī-sol'i-sin), n. An antibody which will inhibit the action of the cor-

responding isolysin.

antikamnia (an-ti-kam'ni-ä), n. [Irreg. (Gr. άντί, against, + κάμνειν, suffer, be ill.] The trade-name of a preparation for medicinal use, antipyretic and anodyne in its action. It is said to centain acetanilide.

antikinase (an-ti-kin'as), n. In physiol. chem., anting-anting (an'ting-au"ting), n. [Tagalog a substance which inhibits or prevents the aetion of a kinase; such bodies occur in blood-

serum.

antilactase (an-ti-lak'tās), n. An antiferment which will inhibit the cleavage of lactose into glneose and galactose by means of lactase.

antilactoserum (an'ti-lak-tō-sē'rum), n.; pl. antilactosera (-ra). A serum containing the antiprecipitin corresponding to lactoserum, which will therefore inhibit the action of the latter.

antileucotoxin (an"ti-lū-kō-tok'sin), n. The antibedy to a leucotoxin.

Antilopine kangaroo. See *kangaroo.
antilysin (an-ti-li'sin), n. [Also erron. antilisin.] The antibody to a given lysin.

antilytic, a. 2. Inhibiting the lytic action of a substance.

antimalarial (an"ti-mā-lā'ri-al), a. malaria + -al.] Preventive or curative of ma-

antimephitic (an"ti-mē-fit'ik), a. [anti-+mephitis + -ic.] Tending to purify the atmosphere; destructive of noxious emanatious.

antimeron (an-tim'e-ron), n.; pl. antimera (-ra). [NL: see antimerc.] Same as antimere. antimerous (an-tim'e-rns), a. Antimeric; per-

taining to paired organs.

antimetrically (an-ti-met'ri-kal-i), adv. As

against the metric system of weights and measnres. [Nence-word.]

The questions propounded . . . are clearly biassed antimetrically.

Electrical World and Engineer, Nov. 28, 1903, p. 867.

antimetropía (an"ti-me-trô'pi-ä), n. [NL., < $\dot{a}\nu\tau i$, against, $+\mu \epsilon \tau \rho o \nu$, measure, $+\dot{\omega}\psi$, eye.] A condition in which myopia exists in one eye and hypermetropia in the other.

antiheterolysin (an "ti-het-e-rel'i-sin), n. An antimetropic (an "ti-me-trop'ik), a. Relating

parasites.

II. n. A remedy employed for the destruction or removal of parasites.

H. n. A remedy employed for the destruction or removal of parasites.

H. n. A remedy employed for the destruction or removal of parasites.

Amer. Physician, Jan., 1903, p. 14.

Hydrophobic (an "ti-hi-drop'ik), a. and n. [anti-microbic (an "ti-mi-krō'bik), a. [anti-microbe + -ic.] Destructive to, or inimical to the development of micro-organisms: as. anti-microbic (an "ti-mi-drop'ik), a. and n. [anti-microbic (an "ti-hi-drop'ik), a. and n. [anti-microbic (an "ti-mi-drop'ik), a. [anti-microbic (an "ti-mi-krō'bik), a. [anti-microbic (an "ti-mi-drop'ik), a. [anti-microbic (an "ti-mi-dr

microbic sera. Encyc. Brit., XXVI. 69.

Antimonial cup, a drinking-cup made of glass of antimony, claimed to impart the emetic antimony compounds to the contained liquid.—Antimonial nickel, powder.

See *nickel, powder.

Antimonious sulphid, a substance occurring as a natural mineral, stibnite, the chief source from which antimony and its other compounds are obtained. Artificially prepared, it was formerly called mineral kernes and golden sulphid of antimony; it is still occasionally used in medicine, but the official preparation usually contains a little of the oxid of the metal.

antimonsoon (an "ti-mon-sön'), n. monsoon. 1 1. A current of air moving in a direction opposite to that of the mensoon: it may lie above the monsoon proper, but is generally strongest on the west side of it; the northerly wind which opposes the principal sonthwest mouseen of India, and is evercome by it.—2. A northerly wind of the Gulf States antipepsin (an-ti-pep'sin), n. The antibody opposed to the southeasterly winds that draw to pepsin, which inhibits the action of the latinward from the Gulf toward the dome of the western continent in the spring and summer antipeptone, n. 2. In immunity, a specific preseasons and constitute light monsoon winds.

Antimony glass. See glass of antimony, under glass.—
Antimony other, a name sometimes given to oxidized ores of antimony when of earthy or pulverulent texture.—Feathered antimony, refined metallic antimony showing distinct crystalline structure by feather-like markings on the surface of the ingot.—Plumose antimony. Same as feathered *antimony.—Tartarized antimony. Same as tartar emetic.

antimonyl (an'ti-mō-nil), n. [antimon(y) + -yl, < Gr. \$\delta 2\, n\) matter, substance.] In chem., a compound radical having the constitution SbO and exhibiting the valence of a monad.

antimony-salt (an'ti-mē-ni-sâlt"), n. A tradename for a double salt of antimony fluoride and ammonium sulphate which has the formula $\mathrm{SbF_3(NH_4)_2SO_4}$. It is sold as a substitute for antiphase (an'ti-fāz), n, and a, \mathbf{I} , n. Oppotartar emetic, and is used chiefly as a fixing sition of phase, or difference of phase amountagent for tannin in the application of the basic colors.

Antimora (an - tim ' o - ra), n. [NL., $\langle (1) \text{ Gr.} \rangle$ artiμορος, corresponding, part to part, < arti, opposite to, + μέρος, part (μόρος, let).] A genus of deep-sea Gadidæ, allied to the ling.

antineuralgic (au "ti-nū-ral'jik), a. and n. [anti-+ neuralgia + -ic.] I. a. Curative of

II. n. A remedy employed in the treatment

of neuralgia.

anting-anting, a charm, amulet : same as Malay anting-anting, an ear-ring.] A charm supposed to protect the owner from injury, especially from bullets. [Philippine Is.]

antiniad (an-tin'i-ad), adv. [Appar. irreg., < L. ante, before, + -in² + -i- + -ad³.] Forward; toward the anterior portion of the cranium, [Rare.] Sir J. like the herns of a musk-ex. Richardson, Zoöl. of the 'Herald.'

antinion (an-tin'i-on), n. [Gr. avr/, against, opposite to, + iviov, the back of the head.] The antinial region. See antinial. antinonnin (an-ti-non'in), n. A trade-name

for a mixture of orthodinitrocresol, soap, and glycerel, used in very dilute solution as a disinfectant and preservative.

(tetra-iodo-phenolphtalein), a bluish, waterseluble powder, used as a substitute for iode-

antiodontalgic (an "ti-ō-tlen-tal'jik), a. [anti-antipodagric (an "ti-pō-dag'rik), a. and n. + odontalgia + -ic.] I. a. Relieving toeth- [anti-+podagra + -ic.] I. a. Curative of gout. ache.

II. n. A remedy for toothache.

Antiopa butterfly. See butterfly. *triangle.
antiophidic (an ti-ō-fid'ik), a. A term applied by Vital to a serum devised for the treatment eircles, another system of coaxal circles may of snakebite, and supposedly of universal effi-cacy. It is a mixture of equal parts of bothropic

and anticrotalic serum. antiparallelogram (an'ti-par-a-lel'ō-gram), n.

Same as *contraparallelogram.

antiparamœcious (an"ti-par-a-mē'shus), Applied to a scrum resulting on immunization with paramecium, an organism belonging to the protozoa.

antiparasitic (an "ti-par-a-sit'ik), a. and n.

[anti- + parasite + -ic.] I, a. Inimical to

antimicrobic (an "ti-mī-krē'bik), a. [anti-microbe + -ic.] Destructive to, or inimical to the development of micro-organisms: as, anti-microbic sera. Eneye. Brit., XXVI. 69.

Antimonial cup, a drinking-cup made of glass of antimony, claimed to impart the emetic antimony compounds to the contained liquid.—Antimonial nickel, powder.

See ★nickel, powder.

Antimonious sulphid, a substance occurring as a natural Antimonio drobrachiida

Antipathidea (an"ti-pa-thid'ē-ā), n. pl. [NL., \(\) Antipathes + -idea.] An order of colonial Zoantharia paramera with a spinose, horny, usually branching axial skeleton on which the Zoöids are seated. Six tentacles are usually longer than the others, and six primary mesenteries are always present. It includes the families Antipathidæ, Leiopathidæ, and Dendrobrachiidæ.

antipedal (an-tip'ē-dal), a. [Gr. àvrí, against, + L. pes (ped-), foot, + -al.] Situated opposite to the foot: as, the antipedul area of a mollusk. Lankester.

cipitin corresponding to peptones.—Fibrin antipeptone, antipeptone obtained from fibrin.

antipericelous (an "ti-per-i-sē'lus), a. In ornith., having the second intestinal loop open, right-handed, and inclosing the third, which is left-handed and closed.

anti-pest (an "ti-pest), a. Same as *anti-

antiphagocytic (an "ti-fag-ō-sit'ik), a. Destructive to phagocytes.—Antiphagocytic serum, a serum which causes the destruction of phagocytes.

An antiphagocytic serum, prepared in this sense, has produced its demolishing effect not only upon the macrophages, but also upon their enemies, the useful microphages.

Med. Record, July 18, 1903, p. 83.

ing to one half period or 180 degrees.

II. a. Of or pertaining to an antiphase. antiphonic, a. 2. In anc. Gr. music, of or pertaining to the interval of an octave: opposed to *paraphonic.

antiphthisical (an-ti-tiz'i-kal), a. phthisic + -al.] Same as antiphthis phthisic + -al.] Same as antiphthisic. anti-plague (an"ti-plag'), a. Used in the

treatment or as a preventive of plague: as, anti-plaque serum.

antiplanat (an"ti-pla-nat'), n. [G. antiplanat, ζ Gr. αντί, against, + L. planatus, made plane: see planation.] A combination of lenses, invented in 1881 by Adolph Steinheil, in which there are two members having large opposite aberrations which correct each other.

antiplanatic (an"ti-pla-nat'ik), a. Used, erreneously, for aplanatic.

antiplateau (an"ti-pla-tē'), n. An area in the general ocean-floor which sinks to a greater depth than the average sea; a deep. Such areas are contrasted with plateaus, and extend downward from the occan-floor in much the same manner in which plateaus protrude above the continental surface. Chambertin and Salisbury, Geol., I. 8.

antiplenist (an-ti-plē'nist), n. [anti + plenum + -ist.] One who does not believe that space is a plenum (wholly occupied with matter); a vacnist.

antinosine (an-tin'ō-sin), n. [Gr. ἀντί, against, antipneumococcic (an"ti-uū-mō-kek'sik), a. + νόσος, disease.] The sodium salt of nosophen [anti- + pneumococcus + -ic.] Tending to [anti- + pneumococcus + -iv.] Tending to destroy or prevent the development of pneumececci: as, an antipneumococcic serum. Encyc. Brit., XXXI, 526.

[anti-+podagra+-ic.] I. a. Curative of gout.
II. n. A remedy for gout.

Antipodal cone, triangle. See *cone and

eircles, another system of coaxal circles may be constructed such that every circle of either system cuts erthogonally every circle of the other system. The limiting points of either system are the antipoints of the limiting points

of the other system.

antipole, n. 2. In cytol., a term applied to one of the two poles of the karyekinetic spindle of the dividing cell, the term pole because of the dividing cell, the dividing cell, the term pole because of the dividing cell, the dividing cell, the dividing cell, the dividing cell the dividin ing reserved for the one under immediate con-

sideration.

antipolo (än-tē-pō'lō), n. [Tagalog name.] A name in the Philippines of the fertile bread-A name in the Philippines of the fertile breadfruit tree (Artocarpus communis), the sterile form of which is called (in Bisayan) coló. The seeds, sometimes called bread-nuts, are roasted and eaten like those of the jackfruit, and the milky latex is used for bird-line and as pitch for calking boats. Canoes are made of the logs, but they do not resist exposure to the weather and must be painted and kept covered when out of the water. The wood is soft and of a yellow color. It is used for interior woodwork in construction, but is not auitable for posts or sleepers. Also called tipolo, and on the island of Guam duydug. See Artocarpus, breadfruit, *bread-nut, and *duydug.

antiprecipitin (an"ti-prē-sip'i-tin), n. antibody to a precipitin, which will inhibit the action of the latter. See *antibody.

antipruritic, a. II. n. A remedy which tends to relieve itching.

antipudic (an-ti-pū'dik), a. Used or worn to prevent shame; intended to cover the pudendum, for the sake of decency.

The mcn in certain islands [of Melanesia] wear only antipudic garments.

Deniker, Racea of Man, p. 499.

antiputrid (an-ti-pū'trid), a. and u. I. a. Antiputrescent; antiputrefactive; antiscptic.

II. n. Any substance which has the power of inhibiting, preventing, or destroying putrefaction. *Diseases of the Horse*, U. S. Dept. Ag., 1903, p. 511.

antipyresis (an-ti-pir'ē-sis), n. [Gr. ἀντί, against, + πυρετός, fever.] Reduction of fever; treatment for the reduction of fever. antiquarianize (an-ti-kwā'ri-an-īz), v. i.; pret.

and pp. antiquarianized, ppr. antiquarianizing. To engage in antiquarian pursuits or research. Lyell.

antiquarianly (an-ti-kwā'ri-an-li), adv. As an antiquarian; in the manner of an antiquarian. Walpole, Letters, I. 37. [Rare.] N. E. D.

Antirabic serum, a scrum intended to inhibit the action of the specific virus of rabies. Encyc. Brit., XXIX. 377.

antirattler (an-ti-rat'ler), n. A device for holding a bolt and eye together to prevent rattling without interfering with the movement.

antirealism (an-ti-rē'al-izm). n. [anti-+ real + -ism.] The doctrine that there is nothing whose characters are independent of all actual thought about them.

The "anti-realism," which takes the lion's share in "transfigured realism," is simply a development of the phenomenalism of Hume.

Encyc. Brit., XXX. 675.

antirennet (au-ti-ren'et), n. The antibody to the action of rennin (chymosin). See *anti-

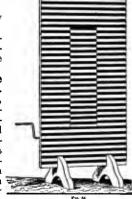
tism (an-ti-ren'tizm), n. [antirent + The principles of the Antirent party antirentism (an-ti-ren'tizm), n. (which see)

antirevisionist (an"ti-rē-vizh'on-ist), n. One who is opposed to a particular measure of revision, as, in recent French history, one who is opposed to a revision of the constitution. antirheumatic (an"ti-rö-mat'ik), a. and n.

a. In med., tending to prevent or cure rheumatism.

II. n. A remedy for rheumatism. antiricin (an-ti-rī'-sin), n. The antisin), n. The anti-body to ricin. See *antibody.

antirrheoscope (an-ti-re'ō-skōp), n. [Gr. aντί, against, + $\dot{\rho}\epsilon\bar{\nu}$, flow, + $\sigma\kappa\sigma$ $\pi\epsilon\bar{\nu}$, view.] In psy-chol., the artificial waterfall; an apparatus in which a band of horizontally striped cloth moves up or down upon a stationary background of the material: same



Antirrheoscope.

nsed for the demonstration of after-images of motion.

antiscion (an-tis'i-on), n. [NL. antiscion, ζ Gr. ἀντίσκιον, neut. of ἀντίσκιος: see antiscian.] In astrol., a sign of the zodiac equidistant with another sign on the opposite side. Signs having north declination are called commanding, those with south declination obeying.

Anti-Semite (an"ti-sem'īt), n. One who seeks
by political or other means to lessen the commercial, political, or social influence of the [anti-+ staphylococcus + -ic.] Tending to mercial, political, or social influence of the

Jews. The name is given especially to those who have participated in the agitation against the Jews in Germany, Russia, and Austria which hegan about 1878.

Anti-Semitte (an*ti-sē-mit'ik), a. Of or pertaining to the Anti-Semites.

Anti-Semitism (an "ti-sem'it-izm), n. The agi-

tation conducted by the Anti-Semites or its motives; antagonism to the Jews.

antisepsine (an -ti-sep'sin), n. A colorless crystalline compound, C_6H_4 Br.NH.CH $_3$ CO, obtained by adding bromine to a solution of acetanilide in glacial acetic acid; para-bromacetanilid. It is antipyretic. Also called asep-

antiseptol (an-ti-sep'töl), n. [antisept(ic) + -ol.] A trade-name for a solution of 25 parts of cinchonine sulphate in 2,000 parts of water,

stance, as antidiphtheria serum, antitetanus antistreptococcic (an'ti-strep-tō-kok'sik), a. serum, etc. See *immunity.

a. Same as antistreptococcic (an'ti-strep-tō-kok'sik), a. [anti-+ streptococcus + -ic.] Tending to de-

The author has produced a specific antiserum by the ancessive inoculation of animals with this toxin. Such an antiserum absolutely destroys the action of the toxin when the two are mixed in vitro. It also causes the symptoms produced by the toxin to rapidly disappear if inoculated subcutaneously or instilled into the eye of a susceptible individual shortly after such a toxin has been similarly introduced.

Med. Record, March 28, 1903, p. 511.

antisicular (an-ti-sik'ū-lār), a. [NL. anti, opposite to, + sicula, sicula.] Opposite the sicula: used to designate the part of the graptolite rhabdosomo which is opposite the siculabearing or sicular end.

antisilverite (an-ti-sil'ver-īt), n. In recent United States politics, one who is opposed to

the free coinage of silver.

antisiphonal (an-ti-si'fo-nal), a. [NL., < Gr. aντί, opposite to, + σίφων, pipe: see siphon.] Lying opposite to the siphonal (lobe): in the terminology of the ammonoid cephalopod shell, noting a lobe of the suture which lies on the inner dorsal side of the whorl and opposite to that on the ventral surface, called the siphonal lobe. Both of these are present in, and are indicative of, primitive stages, and become modified in progressed conditions.

Antislavery china. See *china.

antisocial, a. 3. Specifically, in sociol., pertaining to a class of persons devoid of normal social instincts and showing criminal tenden-

eies. Giddings, Prin. of Sociol., p. 72.
antisociality (an"ti-sō-shi-al'i-ti), n. A quality, aet, or habit of an individual, class, or group which is antagonistic to social feeling, habit,

which is antagonistic to social feeling, habit, or interest. Extreme antisociality is criminality. Amer. Jour. Psychol., XIII. 586.

antisolar (an-ti-sō'lär), a. Situated at the point in the heavens opposite the sun, as the center of the rainbow, or the 'gegenschein.' antispace (an'ti-spās), n. In math., that part of the complete spatial manifold which is without the absolute: that part which is inclosed within the absolute is called succe. within the absolute is called space.

antispectroscopic (an-ti-spek-trō-skop'ik), a.

anuspectroscopic (an-ti-spek-tro-skop'ik), a. Such as to counteract the spectroscopic effect. Wall, Dict. of Photography, p. 44.

antispermotoxin (an-ti-sper-mō-tok'sin), n. The antibody to a spermotoxin, which inhibits the action of the latter. See *antibody.

antispermy (an-ti-sper'mi), n. [Gr. ἀντί, against, + σπέρμα, seed.] In spermatophytes, the coalescence of the fertile divisions of the phyllome into a single fertile hody opposed phyllome into a single fertile body opposed to and superposed upon the sterile division.

antisporangism (ar-ti-spō-ran'jizm), n. [Gr.

antisquama (an-ti-skwā'mā), n.; pl. antisquama (an-ti-skwā'mā), n.; pl. antisquama (mē). [NL., < Gr. ävτi, against, + L. squama, scale.] The middle one of three basai lobes of the wing of a dipterous insect, the inner one being the squama and the outer one the alula. A. S. Packard, Text-book of En-

destroy or hinder the development of staphy. lococci. Med. Record, March 28, 1903, p. 510. antisteapsin (an-ti-ste-ap'sin), n. An anti-

body which will inhibit the action of steapsin. antistrephon (an-tis'tre-fon), n. [Gr. αντιστρέφων, ppr. of αντιστρέφειν, turn against: see antistrophe.] In logic, an argument in a lawsuit which is of such a nature that either party may urge it against the other with some appearance of conclusiveness. Antistrephons belong to the general class of crocodiles, the following stock example being from Aulus Gellius. Euathlus agreed to pay Protagoras, his teacher in rhetoric, a large sum of money should be win his first case in court. Having received the instruction, but not having had any case in court, he was sued by Protagoras for the amount, on the ground that ahould Euathlus win the suit he must pay, according to the contract (and a second suit would compel him to do so), while if the suit went to other way the court would compel payment. Euathlus replied that if the court decided in his favor that nust be final, while if the court decided against him a further proceeding would award the money to him. suit which is of such a nature that either party mixed with a solution of 10 parts of iodine and 10 parts of potassium iodide in 1,000 parts of water. It is used as an antiseptic.

antiserum (an-ti-sē'rum), n.; pl. antiserums (-rumz) or antisera (-rai). A serum containing the antibody to a given immunizing substant and antistreptococcia.

Same as antistreptococcic.

[anti- + streptococcus + -ic.] Tending to destroy or hinder the development of streptococci: as, antistreptococcic serum. Nature, July 9, 1903, p. 227.
antistrofe, n. A simplified spelling of antis-

antistrophic, a. 2. Enantiomorphous. antistrophize (au-tis'tro-fiz), v. i.; pret. and pp. antistrophized, ppr. antistrophizing. [antistrophe + -ize.] To form an antistrophe; correspond, but in inverse order. De Quincey, Blackwood's Mag., LI. 12. [Rare.] N. E. D.

antisubstance (an'ti-sub-stans), n. Same as *antibody. See *adaptation-product. Jour. Exper. Med., V. 62.

antisudorific (an'ti-sū-dō-rif'ik), a. and n. [anti- + sudorific.] I. a. Tending to repress the secretion of sweat. Buck, Med. Handbook,

11. 338.

11. n. A remedy possessing this property.

antisun (an-ti-sun'), n. 1. The point in the sky diametrically opposite the sun.—2. A point in the sky opposite the sun in azimuth, but fore not diametrically opposite to it. use of the word is common only in describing halos and parhelia. Encyc. Brit., XXX. 705.

antitegula (an-ti-teg'ū-lä), n.; pl. antitegulæ (-lē). [NL., ⟨ Gr. avrī, against, + L. tegula, tile.] Same as *antisquama.

antiteleology (an"ti-tel-ē-ol'ō-ji), n. [anti-teleology.] That attitude of mind which fails teleology.] That attitude of mind which fails or refuses to see any proof of teleology in nature; the doctrine or tendency which dis-putes all attempts to show that there are actions in nature determined by anything which is to be in the future.

antitetanic (an'ti-tet'a-nik), a. [anti-+ teta-nus + -ic.] Tending to destroy or prevent the development of tetanus bacilli; preventive or curative of tetanus: as, antitetanic serum. Science, June 26, 1903, p. 1006.

antitetanin (an"ti-tet'a-nin), n. The antitoxin to the soluble poison produced by the tetanus bacillus.

antitetanolysin (an-ti-tet-an-ol'i-sin), n. The antibody to tetanolysin.

antithermic (an-ti-thér'mik), a. [Gr. δvri , against, $+\theta \epsilon \rho \mu \delta c$, heat, +-ic.] In med., same as antipyrctic. Med. Record, March 7, 1903, p. 376.

antithermin (au-ti-ther'min), against, $+ \theta \hat{\epsilon} \rho \mu \eta$, heat, $+ -in^2$.] Phenylhydrazinelevulinic acid. It has been used as an antipyretic agent in medicine under this tradename.

antithesism (an-tith'e-sizm), n. [Irreg. < antithes(is) + -ism.] An antithetic sentence; an example or instance of antithesis. [Rare.] N. E. D.

antithesistic (an-tith-e-sis'tik), a. [Irreg. < antithesistic (an-tith-e-sis tik), a. [1rreg. c. antithes(is) + -istic.] Presenting an antithesis; contrary: as. antithesistic ideas. Dr. E. Darwin, Zoonomia, IV. 234. [Rare.] N. E. D. antithesize (an-tith'e-siz), v. t.; pret. and pp. antithesized, ppr. antithesizing. To put into the form of an antithesis. Burns. N. E. D.

the alula. A. S. Packara, 1845-805 antithesize (an-time-size), v. v., production of the form of an antithesized, ppr. antithesizing. To put into the form of an antithesis. Burns. N. E. D. tending to prevent or cure scaly affections of the form of an antithesis. Burns. N. E. D. antithrombin (an-ti-throm'bin), n. A substance which inhibits the action of thrombin.

antitoxic (an-ti-tok'sik), a and n. I. a. Serving to inhibit or neutralize toxic action; having the character of antitoxin.

The term antitoxic signifies that the serum has the power of neutralizing the action of the toxin.

Encyc. Brit., XXVI. 67.

Antitoxic immunity. See **immunity.— Antitoxic serum, serum containing antitoxin, as antidiphtheritic aerum and antitetanic serum.— Antitoxic unit, the unit of antitoxin, of such strength that it will just neutralize the hundredfold minimal fatal dose of the corresponding

II. n. An antitoxic remedy.

antitoxin (an"ti-toks'in), n. [anti- + toxin.]

1. A substance which neutralizes the action of a poison.—2. Specifically: (a) The antibody to a toxin of bacterial or related origin which is produced as the result of immunization with the corresponding toxin. Examples are the diphtheria antitoxin and the tetanus antitoxin. (b) In bot., a substance secreted by a toxin. (b) In bot., a substance secreted by a plant which protects it against destructive plant which protects it against destructive microbes.—Fernbach'a antitoxin flask, a special form of culture-flask used for cultures of diphtheria.—Streptococcua antitoxin, an antitoxin obtained by repeated inoculations of horses with streptococcus cultures: employed by hypodermic injection in the treatment of crysipelas, puciperal fever, septicemia, and other conditions in which there is infection by streptococci. Also called antistreptococcus serum.

antitragal (an-tit'rā-gal), a. Of or pertaining to the antitragus, or projectiou on the inferior side of the opening of the ear. -Antitragal notch, in zool, the noteh or emargination at the base of and behind the antitragus, which marks its posterior boundary. The phrase is much used in describing the ears of bats. Annals and Mag. Nat. Hist., May, 1904, p. 386.

antitrust (an-ti-trust'), a. Opposed to the power or development of trusts, or of large

combinations of capital.

antitrypsin (an-ti-trip'sin), n. An antibody which inhibits the action of trypsin. Normal blood sometimes contains such a body. Science, Aug. 19, 1904, p. 243.

antitryptic (an-ti-trip'tik), a. [anti-+ tryptic.] Antifermentative. Med. Record, June

1903, p. 1043.

antituberculous (an"ti-tū-ber'kū-lus), a. [anti-+ tubercul(osis) + -ous.] Tending to prevent or cure tuberculosis. Med. Record, July 25, 1903.

antitussin (an-ti-tus'in), n. [See *antitussive.] A white, crystalline, fragrant compound (C_6 - H_4F_2), used in ointments; diffuor diphenyl. It is used as an antispasmodic and hypnotic in whooping-cough.

antitussive (an-ti-tus'iv), a. and n. [Gr. ovi, against, + L. tussis, a cough.] I. a. Preventing or relieving cough. Buck, Med. Handbook, VI. 573.

anti-twilight (an-ti-twi'lit), n. The bright arc, or twilight arc, when first seen near the eastern horizon opposite the sun just before sunset, due to sunlight reflected from the illuminated portion of the atmosphere. The twilight arc rises, as the sun sinks lower, and eventually passes westward over the zenith.

antityphoid (an-ti-ti'foid), a. Tending to pre vent or cure typhoid fever: as, antityphoid serum. Med. Record, June 27, 1903, p. 1043. antivaccination (an "ti-vak-si-nā' shon), a.

Opposed to the practice of vaccination; considering or dealing with the subject of antivaccination: as, an antivaccination lecture; the antiraccination movement

antivenene (an'ti-ve-nen'), n. [anti-+ *vc-nene.] The antibody to venene, which inhibits the action of the latter. Buck, Med. Handbook, VI. 716. Also called antirenin, anticenine.

antivenenian (an'ti-vē-nē'ni-an), α. [Gr. ἀντί, against, + renenum, poison, + -ian.] Same as antidotal.

antivenin, antivenine (an-ti-ven'in), n. [L. anti- + ren(enum), poison, + -in2.] Same as *antivenene.

antivenomous (an-ti-ven'o-mus), a. Antagonistic to the action of snake-poison. Buck, Med. Handbook, VI. 715.

antivivisectionist (an"ti-viv-i-sek'shon-ist), n. [anti-+viviscotion+-ist.] One who is opposed to the making of physiologic and therapeutic experiments on living animals. Med. Record, Feb. 14, 1903, p. 264.

antlerite (ant'ler-it), n. [Antler (see def.) + -ite2] A hydrated copper sulphate occurring in soft lumps of a light-green color: from the Antler mine, Yucca Station, Arizona.

antodonin (an-to'do-nin), n. A pigment found in certain invertebrate animals, notably crinoids. Science, May 31, 1901, p. 847.

antonino (än-tō-nē'nō), n. [Sp. (equiv. to E.

Tony), dim. of Antonio, Antony.] A Cuban name of the mackerel-scad, Decapterus macarellus. antorbital, a.—Antorbital vacuity, in anat., the open space in front of the antorbital plate and behind the maxillary process of the nasal.

II. u. 1. ln ichth., the preorbital bone.—2.

In ornith., a bony plate morphologically the equivalent of the prefrontal of reptiles, standing at an obtuse angle to the interorbital septum and forming the anterior border of the orbit of the eye

ant-orchis (aut'ôr"kis), n. An Australian and Tasmanian terrestrial orchid, Chiloglottis Gun-

ant-rice (ant'rīs), n. A grass, Aristida oligan-tha, growing in the clearings around the nests of the agricultural ants of Texas, which feed upon its seeds.

Antrophyum (an-trō'fi-um), n. [NL. (Kaul-fuss, 1824), Gr. ἀντρον, cavity, groove, + φύειν, grow.] A genus of polypodiaceous ferns, with simple linear-lanceolate to oblong-elliptical fronds and sori borne in continuous lines (either superficial or in shallow grooves, whence the name) following the reticulate venation. There are about 25 species, widely distributed throughout the humid tropics of both hemispheres

antrorse, a. 2. In ichth., turned forward: said of spines.

antroversion (an-trō-ver'shon), n. [See *an-

trovert.] A turning forward: same as ante-version. Syd. Soe. Lex. antrovert (an-tro-vert'), v. t. [antro- for an-tero- + L. vertere, turn.] To tip, turn, or bend forward. Oven.

Antrum femininum, the small tubular entrance to the female generative passage in polyciads.—Antrum masculinum, the outer tubular opening of the male generative organs in polyciads.—Mastoid antrum, the cells in the mastoid process of the temporal bone taken collectively.—Maxillary antrum. Same as antrum Highmorianum.

ant-spider (ant'spi"der), n. Any one of several spiders which closely resemble ants, forming

notable examples of aggressive mimicry.

Antwerp (ant'werp), n. The name of a city in Belgium, used to distinguish a breed of domesticated pigeons having a large, massive head and short, stout beak with a small wattle at the base. They are bred in a variety of colors, but silver, silver checkered, "creamies," and black are those preferred. These birds fly well and have a strong homing sense: during the Franco-German war they were used for carrying despatches.—Antwerp rose. See

II. n. Any agent which possesses this anubing (a-nö'bing), n. [Philippine Sp. anubing, anubiong, anubin, anubion, & Tagalog anobing.] A valuable timber-tree, Artocarpus Omningiana. It yleids a fine-grained wood of a yel-lowish-gray color, which is light and very durable if properly seasoned. It also resists dampness, and is used for posts in house-building. [Philippine 18.]

anuclear (a-nū'klē-ār), a. Non-nucleated; con-

ceruing or pertaining to the alleged absence of a nuclens in certain low organisms.

anuhe (ä-nö'hā), n. [Maori anuhe, a large caterpillar, = Hawaiian anuhe, Samoan anufe, etc., a worm, a eaterpillar.] The New Zealand caterpillar-fungus, a species of Cordinate of the usual sodic pyroxenes, and by microperthite feldspar. Osanu, 1896.

apagogically (ap-a-goj'i-kal-i), adv. In an apagogical manner; by indirect demonstration or proof; by reductio ad absurdum. E. Caird eaterpillar-fungus, a species of Cordyceps, which attacks certain lepidopterous larvæ. See

anunu (ä-nö'nö), n. [Hawaiian, < anunu, greedy.] In Hawaii, a name of several species of climbing or prostrate herbs belonging to the genus Sicyos, of the gourd family.

anuretic (an-ū-ret'ik), a. [anuresis (-ret) + -ic.]
Same as *anuric.

anuric (a-nū'rik), a. [anuria + -ic.] Resulting

from or relating to anuria.

anusim (a-nö'sēm), n. pl. [Heb., 'the forced,' \(\frac{anas}{anas}, \text{ compel}, \text{ force}, \text{ constrain}. \] Jews who apandry (a-pan'dri), n. [Gr. \(\delta \pi \delta \eta \text{, without, + were forced to accept the Catholic religion at av\(\delta \rho \text{ (av\(\delta \rho \rho \)), man, male.} \] In \(bot., \text{ fusion of the the time of their expulsion from Spain (1492), antheridium with the o\(\delta \rho \text{ orden} \text{ orden of the constrain } \). but who secretly observed the principal tenets of their faith: same as maranos.

Anversian (an-vér'sian), a. and n. [F. Anvers, aparaphysate (a-pa-raf'i-sāt), a. [a-18 + pa-Antwerp.] I. a. Of or pertaining to Antwerp.

II. n. In gcol., a division of the Miocene in the vicinity of Antwerp, Belgium.

aparanca (ä-pä-sän'kä), n. [Sp. in Peru and Bo-Britan and Bo-Br

anvil, n.—Plattner's anvil, a small polished steel block used in blowpipe analysis.

anvil-cutter (an'vil-kut"er), n. A chisel-like cutting instrument whose shank is inserted in a square hole in the face of an anvil, the bar to be cut being laid upon the cutting edge and

to be cut being laid upon the cutting edge and struck with a hammer or sledge, anvil-paper (an'vil-pā/pēr), n. See *paper. Anxious seat or bench, a seat, bench, or pew set apart for 'anxious inquirers,' or those who are concerned about their souls' salvation and desire advice or comfort: often figurative. Haliburton, The Clockmaker.

anytin (an'i-tin), n. A trade-name for a derivative of inhthyal which is used in degree telegraph.

tive of ichthyol which is used in dermatological practice.

anytol (an'i-tol), n. A solution of such a substance as phenoi or guaiacol in water containing anytin.

A. O. In astron., an abbreviation of Argelander-Oeltzen, referring to a catalegue of southern stars observed by Argelander in zones and reduced to a regular catalogue by Oeltzen.

aoa (ä-ō'ä), n. [Polynesian name.] A name, throughout Polynesia, of the banian-tree (Ficus Ana and other species). These trees were thought by the natives to be the lurking-places of spirits, and in some islands were planted near temples. Though not occurring in Hawaii, the aoa is mentioned in the ancient sougs of the aboriginal inhabitants. See banian?

An abbreviation of Artium Obstetricarum Magister, Master of Obstetric Arts.

aorta, n. 2. In the higher invertebrates, the large blood-vessel leading from the heart, usually anteriorly and posteriorly.—Aorta chlorotica, the small-sized norta sometimes present in one suffering from chlorosis.

chlorotica, the small-sized norta sometimes present in one sinfering from chlorosis.

Aortic cartilage, the second costal cartilage on the right side, behind which is the arch of the aorta.—Aortic incompetence, or insufficiency, failure of the aortic valve of the heart to close completely, thus allowing of regurgitation of blood into the left ventricle at each diastole.—Aortic isthmus, a narrow portion of the sorta, most marked in the fetus, at the point of attachment of the ductus arteriosus.—Aortic murmur, a cardiac murmur indicating obstruction or insufficiency at the aortic ordice.—Aortic notch, a point in sphygmographic tracing indicating the time of closure of the aortic valve.—Aortic obstruction, a condition in which there are adhesions or thickening of the cusps of the aortic valve, preventing the free flow of blood from the left ventricle into the aorta.—Aortic apindle, a slight fusiform dilatation of the aorta just below the isthmus.

aosmic (ā-oz'mik), a. [Gr. doσμος, equiv. to ἀνσμος, without odor: see anosmia.] Same as *anosmic.

*anosmic.

A. P. A. An abbreviation of American Protective Associution.

Apache blue-grass. See *bluc-grass. apachicta (ap-a-chek'tā), n. [Also apachita, apachecta; Quichua of Peru and Aymará.] In Peru and Bolivia, a heap of stones and twigs raised by the Indians at any prominent landmark, such as a pass, divide, crest, or landmark, such as a pass, divide, crest, or height. The twigs are symbols of prayers offered on the site to spirits supposed to dwell on or about it, and the stones symbolize an offering. A quid or end of chewed coca-leaves is invariably deposited there also in sacrifice. apachite (a-pach'it), n. [Apache (mountains), in Texas, +-ite².] In petrog., a variety of the igneous rock phonolite, first observed in the Apache mountains of Texas, characterized by sodic amphiboles and enjoying it as associates sodic amphiboles and ænigmatite as associates

or proof; by reductio ad absurdum. E. Caird, Philos. of Kant, II. 568. N. E. D.

apaidt, p. a. [ME. apaicd, etc., pp. of apay.] Satisfied; pleased; repaid. Robert of Gloucester. N. E. D.

apalit (ä-pä'lēt), n. [Phil. Sp.] A name in the Philippines of Pterocarpus Blancoi, a tree with pinnate leaves, smooth, winged pods, and red wood with an aromatic odor. Like other species of *Pterocarpus*, it is sometimes called *narra* and asana, and is used for furniture; but it is distinguished by its fragrance, and is sometimes called *Philippine sandatwood*.

Anus cerebri, the anterior opening of the aqueduct of Sylvius. Anus vestibularis or vulvovaginalis, a malformation in which the anus is imperforate, therectum terminating at the vulva.—Artificial anus, an opening made into the large intestine for the purpose of giving exit to the fecal contents in cases of complete obstruction below.

**Apama* (a-pä'mä), n. [NL. (Lamarck, 1783), from an Indian name of the type species of the genus.] A genus of dicotyledonous plants of the family Aristolochiaceæ, characterized by the short, three-lobed, campanulate corolla. See Bragantia.

to the corresponding organs in spermato-

livia, (Peruv. (Quichua) apasanca (Tschudi); also used in Bolivia among the Aymará.] bush-spider, or great Mygale, of which a smaller variety is found as high as 13,000 feet and more in the Bolivian Andes.

apasote (ä-pä-sō'tā), n. [Also pasote, and in Porto Rico basote; Mex. Sp., < yepatzotl, the Nahuatl name of the plant.] A name in Guam and the Philippine Islands of Chenopodium am brosiondes, an aromatic plant of Mexican origin now widely spread over the warmer regions of the earth and commonly known as Mexican tea (which see, under Mexican).

Apate (ap'a-te). n. [NL. (Fabricius, 1775), Gr.

άπατη, deceit, fraud.] A genus of bostrychid beetles which has been subdivided into sevveral genera by recent authors. A. terebrans Pall, is an inhabitant of Africa.

apatetic (ap-a-tet'ik), α. [Gr. απατητικός, serving to deceive, < άπατη, deceit.] Concerning or pertaining to the copying, in an animal, of some useful characteristic of another species for the sake of obtaining the like advantage. Apatetic colors, those colors which cause an animal to resemble some part of its surroundings, or cause it to be mistaken for another species. Poulton, Colours of Animals, p. 338. apathetic, a. 2. In biol., of or pertaining to

the Anathetica of Lamarek.

apathetic-active (ap-a-thet/ik-ak'tiv), u. In psychol., noting a composite character or temperament of the moral or stoical type. Ribot (trans.), Psychol. of Emotions, p. 400. apathetic-sensitive (ap-a-thet*ik-sen'si-tiv), Ribot

a. In psychol., noting a composite character or temperament which finds its highest expression in the martyr, the hero, and the creative artist. Ribot (trans), Psychol. of Emotions, p. 401.

apathic (a-path'ik), a. [As apath-y + -ic.]
Without teeling or sensation. Todd, Cyc. Anat.,

Apathus (ap'a-thus), n. [NL. (Newman, 1834), \langle Gr. $a\pi a\theta \eta_{\ell}$, without suffering: see apathy.] A genus of true bees, of the family Apidæ, allied to the bumblebees of the genus Bombus, which they mimic and in whose nests they lead an inquiline life. The word is a synonym of *Psithyrus* (St. Fargeau, 1832), and the genus is now generally referred to under that name. apathy, n. 2. In the Stoic philos., a certain imperturbability produced in the wise man's soul by sincere rejection of the notion that pleasure is in itself desirable, or pain in itself undesirable and by trained watchfulness to exclude all unreasonable passions (all passions affecting conduct being regarded as unreasonable).

Apatosaurus (ap-a-tō-sā'rus), n. [NL, \langle Gr. $a\pi a\tau \eta$, deceit, $+\sigma a\tau \rho \sigma c$, lizard.] A genus of dinosaurian reptiles of the family Camarasauridæ, described by Marsh from the Upper

Jurassié rocks of Colorado.

A. P. D. An abbreviation of Army Pay Department

ape² (ä'pā), n. [Hawaiian.] 1. Gunnera petaboidea, a plant of the high mountain stopes. Hawaii, bearing large, broad, reniform leaves alous ambulaera crossed by tascrotes. Hawaii, bearing large, broad, reniform leaves alous ambulaera crossed by tascrotes. Hawaii, bearing large, broad, reniform leaves alous ambulaera crossed by tascrotes. Hawaii, bearing one of the five ambulaeral rays urchins, having one of the five ambulaeral rays are large to the five ambulaeral rays. loidea, a plant of the high mountain slopes of



Ape (Alocasia macrorhiza). A, inflorescence with spathe removed: a, female flowers at hase of spadix; b, male flowers; c, neutral zone; d, terminal appendage. (After figure in Engler and Prantl's "Pflanzenfamilien.")

sia macrorhiza, an aroid plant with large, oval, sia macrorhiza, an aroid plant with large, oval, sagittate leaves. It is cultivated in India, China, and many of the Polynesian islands, where the leaves of the very young plant and the corns are eaten after volatilizing the acrid principle hy drying or the application of heat. Also called apix in Hawaii.

ape-cleft (āp'kleft), n. Same as *ape-fissure. Buck, Med. Handbook, II. 278.

apedioscope (a - ped'i - ō - skōp), n. [Gr. ἀ-priv. + πεόων, a plain (taken as 'plane'), + σκοπεῖν, view.] An apparatus for observing stereoscopic projections. It consists of a wooden box

reoseopic projections. It consists of a wooden box having two apertures for the eyes of a spectator, who

views one picture in a direct line while the other picture is superposed on the first by the aid of a couple of mir-

ape-fissure (āp'fish"ŭr), n. A deep fissure in the occipital lobe of the brain, present in the ape and occasionally also in man. Also called exoccipital fissure.

ape-hand (ap'hand), n. In pathol., a deformity of the hand in which it resembles the fore paw of the ape in consequence of atrophy of the

museles of the thumb.

apeiry (a-pi'ri). n. [Gr. $\dot{a}\pi\epsilon\iota\rho\dot{a}$, the boundlessness of space, $\langle \dot{a}\pi\epsilon\iota\rho\sigma$, boundless.] In geom. topies, a number associated with a place of three or more dimensions and indicating how many places it contains for unbounded solid bodies that have no room within it to shrink to nothing. The apeiry of real space may be assumed to be either 0 or 1. If space, though infinite, be limited, so that there is no geometrical impossibility in the expansion of a small homogeneous mass without any union pansion of a small homogeneous mass without any mion of parts that had been separate, so as to fill all space, the apeiry is 0: but if that substrate fluid which the vortexatom theory supposes to fill all space geometrically could not, even if it were compressible, be so deformed as to leave any part of space empty, then the apeiry is at least 1; and while it is easy to imagine that even after a first rupture of that fluid there would still be a geometrical impossibility in its shrinking indefinitely toward occupying no solid space, which would make the apeiry of space greater than 1, there is nothing in experience to warrant or make pertinent such a suggestion.

Apeltes (a-pel'tēz), n. [NL., < Gr. a-priv. + \pi^2 \tau_{i} \tau_{i}

pelvie shield divided and the skin naked.

apena (a-pē'nä), n. [NL., ζ Gr. ἀπήνη.] In Gr. antiq., a wagon or chariot, four-wheeled or twowheeled, sometimes used for racing. The vehicle sometimes had a tilt or cover with windows at the sides.

apertometry (ap-er-tom'e-tri), n. [Irreg. < L. apertus, open, + Gr. -μετρία, < μέτρον, measure.] In optics, the art of measuring the effective or equivalent apertures of a lens or system of lenses. Jour. Roy. Micros. Soc., Feb., 1903,

aperturate (a-per'ţū-rāt), a. [NL. aperturatus, < l. aperture, aperture.] Having apertures; specifically, having reference to that division of the brachiopod genus Spirifer, termed the Aperturati, which is typified by the species S. aperturatus and characterized by the plications on the fold and sinus of the valves.

aperture, n.—Absolute aperture, the actual or measured size of the aperture of a diaphragm, generally stated in giving its diameter: used in contradistinction to effective aperture.—Pedal aperture, the opening in the mantle of mollusks through which the foot is protruded.—Relative aperture of a lens, the radius of the actual aperture divided by the focal length of the lens.

Apetala (a-pet'a-lä), n. pl. [Gr. \dot{a} - priv. $+\pi\dot{\epsilon}$ - $\tau a\lambda ov$, a leaf.] In some classifications, a section or division of the echinoids belonging to

more or less imperfectly developed.

apex, n. 1. (f) In projective geom., the point determined by 3 planes.—3. pl. The abacusmarks. Boethius. The apices of Gerbert's abacus are symbols for the digits from 1 to 9, but without the zero. See the extract.

In the tenth and eleventh centuries there appeared a large number of authors, belonging chiefly to the clergy, who wrote on aba-ns-reckoning with aprices but without the zero and without the Hindu-Arab methods.

Beman and Smith, Hist. of Math., p. 39.

aphakial (a-fā'ki-al), a. Same as aphucie. Aphaneura (af-a-nū'rä), n. pl. [NL., irreg. ζ Gr. aφανής, unseen, + νεῦρον, sinew (nerve).] A family of Oligochæta, containing the single fresh-water genus Elosoma. It is peculiar in having the central nervous system reduced to the central ganglia, which, moreover, retain the embryonic character of connection with the epidermis. The worms are small and their transparent bodies contain droplets of brightly

aphanisis (a-fan'i-sis), n. [NL., \langle Gr. $\dot{a}\phi \dot{a}\nu a u c \iota \zeta$, abolition, suppression, \langle $\dot{a}\phi a \nu \iota \zeta \dot{c} \iota v$, abolish, suppress, hide, \langle $\dot{a}\phi a \nu \iota \dot{c} \dot{c} \dot{c} v$, unseen, invisible.] In bot., the suppression or abortion of parts re-

quired by morphological analogy.

aphanophyre (a-fan ô-fir), n. [aphan(itic) +
-o- + (por)phyr(y).] In petrog., a porphyry with aphanitic ground-mass: analogous to aphonic (a-fon'ik), a. [Gr. à- priv. + phonic.] granophyre, melaphyre, felsophyre, etc.

granopayre, metapayre, jetsopayre, etc.

aphasia, n.—Associative aphasia, aphasia due to lesion in the association area of the hrain intercepting one or more of the pathways of impulses between the various centers.—Auditory aphasia, aphasia due to lesion in the hearing-center of the brain, the patient having lost the ability to understand spoken words; word-deafness.—Motor aphasia, loss of power to employ

words in phrases, although the ability to read, write, and understand spoken words is unimpaired.— Optic aphasia, a form of aphasia in which the patient is unable to recall the name of an object when he sees it.—Visual aphasia, a form of aphasia in which the patient is unable to appreciate the significance of printed or written words, although he sees the words distinctly.—Wernicke's aphasia of conduction. Same as world-deafness.

Aphelandra (af-e-lan'drä), n. [NL.] A genus ontaining about 60 species of the family Aeunthaceæ, evergreen, tropical, American shrubs grown in hothouses for the fine foliage and showy 4-sided terminal spikes of red or yellow gaudy-bracted flowers. The species most common in trade are A. aurantiaca (including A. Ræzlii), A. squarrosa (chrysops), and A. Fasci-

Aphelops (af'e-lops), n. [Gr. $\dot{a}\phi\epsilon\dot{\nu}\dot{\eta}\epsilon$, level, smooth, $+\dot{\omega}\psi$, eye, face.] In Cope's classification of the extinct rhinoceroses, a group, represented chiefly by North American species, having but three digits on the manus. These are considered as belonging to the acerathine or hornless di-vision of the genus. They occur in the Tertiary heds.

aphengoscope (a-feng'gō-skōp), n. Same as aphenaescope.

aphestic (a-fes'tik), α. [Gr. ἀφίστιος, far from hearth and home, ⟨άπό, from, + ἐσπία, hearth, family.] Relating to matters outside the home A. Sutherland.

aphidein, aphideine (a-fid'ē-in), n. [aphis (aphid-) + -e + -in².] The red coloring matter of the Aphididæ, a composite substance which may be separated into three constituents called by Sorby aphidiluteine, aphidiluteoline, and aphidirhodeine.

Aphidiides (af-i-dī'i-dēz), n. pl. [NL., prop. Aphidiidæ or Aphidiadæ, < Aphidius.] A group of hymenopterous parasites, of the family Braconidæ, typified by the genus Aphidius.

Aphidinæ (af-i-di-i'nē), n. pl. [NL.. \(\lambda\) Aphidinæ (af-i-di-i'nē), n. pl. [NL.. \(\lambda\) Aphidius + -inæ.] A subfamily of the hymenopterons family Braconidæ. All of its members are parasitic upon sphides, and they constitute one of the principal checks to the multiplication of these very injurious insects.

Aphidius (a-fid'i-us), n. [NL. (Nees, 1818), (NL. aphis (uphid-).] An important genns of bymenopterous insects, of the family Braconidæ, typical of the subfamily Aphidiinæ or Aphidiides, comprising a host of minute specific cies, all of which are parasitic on aphides.

aphidoid (af'i-doid), a. [NL. aphis (aphid-) + -oid.] Belonging to or resembling the family Aphididæ.

aphidologist (af-i-dol'o-jist), n. One who is learned in the study of the Aphididæ.

aphidophagous (af-i-dof'a-gus), a. Same as aphidiphagous.

aphikomon, aphikomen. See *afikomen.

aphis, n.—Black or brown aphis, sn sphis, Rhopalosiphum riolæ, which injures violets, especially those in greenhouses.—Corn aphis. See *corn-aphis.—Corn-root aphis, an American aphidid, Aphis maidi-radicis, found commonly on the roots of Indian corn.—Peach aphis. See *peach-aphis.

aphis-fly (a'fis-fli), n. Any species of any one of numerous genera of flies of the family Syrphidæ, the larvæ of which prey upon aphides.

aphis-wolf (ā'fis-wulf), n. The larva of any species of *Hemcrobius*, as distinguished from the aphis-lions of the genus Chrysopa.

Aphlebia (a-fle bi-ā), n. [NL. (Presl, 1838), ⟨Gr. ā- priv. + φλέψ (φλεβ-), vein.] A supposed genus of fossil plants with lobed, flabellately pinnatifid, or pinnate fronds destitute of veins, found attached to or apparently climbing over other plants, especially Pecopteris, Neuropteris, and Sphenopteris. There is now little doubt that they are stipellar outgrowths or adventitious pinnee of these plants. See Rhacophyllum and Schizopteris.

aphodal (af'o-dal), a. [aphodus + -al1.] Pertaining to an aphodu; possessing aphodi: as, the aphodal type of canal system in sponges.

aphodus (af 'ō-dus), n.; pl. aphodi (-di). [NL., ζ Gr. ἀφοδος, a going out, ζ ἀπό, off, + ὁδός, a way.] In certain sponges, a small canal leading from a flagellated chamber to the excurrent eanal.

Having no sound or pronunciation. N.E.D. 2. Having no voiced quality; not voiced. Scripture, Elements of Experimental Phoneties, p. 443.

aphorisming (af'ō-riz-ming), p. a. Affecting the use of aphorisms in speaking and writing. *Milton*, Reform, II. 33. N.E.D.

20

aphorizer (af'ō-rī-zer), n. One who indulges in aphorisms in speaking and writing; an

Aphoruridæ (af - ō rū'ri - dē), n. pl. Aphorura (Gr. ἀφορος, not bearing, + οὐρά, tail) + -idæ.] A family of thysanurous insects, of the suborder Collembola, having no ventral spring below the abdomen. It is composed of very small soft-bodied insects which are not

uncommon, although seldom noticed. aphotic (a-fō'tik), a. [Gr. à-priv. $+ \phi \tilde{\omega} c$, light, + -ie.] In phytogeog., without light: applied to the deep level in a body of water in which only non-assimilating organisms can exist. Schimper (trans.), Plant Geog., p. 782. aphotometric (a-fō-tō-met'rik), a. [Gr. a-

priv. + $\phi \omega c$ ($\phi \omega \tau$ -), light, + $\mu \epsilon \tau \rho \sigma \nu$, measure.] Noting zoöspores which not only take up a definite position with regard to the direction of light-rays (phototaetie), but which invariably present the same end to the light.

aphototropic (a-fō-tō-trop'ik), a. [Gr. ά- priv. + φῶς (φωτ-), light, + τρόπος, a turning.] Pertaining to or exhibiting the absence of growth with reference to light; not phototropic.

The direct tropic effect of light is greatest in the green rays, absent in the blue, and reversed in the red. The effect is modified by the absorbing or scattering character of the background, and by the age of the animal. At the moment of hatching, Convoluta is aphetotropic.

Nature, July 9, 1903, p. 237.

aphrasia (a-frā'zi-ä), n. [NL., < Gr. à- priv. + φράσις, speech: see phrase.] In pathol., loss, through disease, of the power of expressing one's self in formed sentences.

aphrouescin (at-ro-des'in), n. [Gr. αφρώθης, foamy, + L. xse(ulus), horse-chestnut, + - in^2 .] A glucoside, $C_{52}H_{82}O_{23}$, occurring in the cotyledons of the horse-chestnut. It forms an amorphous powder easily soluble in water. aphrodisia² (af-rō-diz'i-ā), n. [NL., < Gr. Aboulust and the sum of aphrodæscin (af-rō-des'in), n. [Gr. αφρώδη

Aphroditeum (af rō-dī-tō'um), n. [NL., < Aphrodite, Aphrodite.] In Gr. antiq., a temple, shrine, or precinct sacred to Aphrodite. There was such a temple at Cnidos, which contained the famous statue of the divinity by Praxiteles.

Aphrothoraca (af"rō-thō-rā'kä), n. pl. άφρός, foam, + θωραξ, breast.] Same as *Aphrothoracida.

Aphrothoracida (af-rō-thō-ras'i-dā), n. pl. [NL., < Gr. ἀφρός, foam, + θώραξ, breast, + -ida.] An order of Heliozoa having no skeleton, but with the power of amœboid motion and with plastic or stiff pseudopodia, the latter possessing axial filaments. It includes the genera Vampyrella, Nuclearia, Myxastrum, Actinophrys, Actinosphærium, and others.

aphtha, n.—Aphthæ tropicæ, a digestive disorder, accompanied by an aphthons eruption, occurring in tropical regions.—Bednar's aphthæ, an eruption of yellowish spots on the nucuus membrane of the hard palate in

Aphthartodocetic (af-thär"tō-dō-sē'tik), a. Of or pertaining to the Aphthartodoeetæ or their

See Aphthartodocetæ. teachings.

aphthite (af'thit), n. An alloy composed of 800 parts of copper, 25 of platinum, 10 of tungsten, and 170 of gold. Thorpe, Diet. Applied Chem., I. 189.

aphthongal (af'thong-al), a. [aphthong + -al.] Of the nature of an aphthong; written but not

pronounced; mute.

aphthongia (af-thong'gi-ä), n. [Gr. ἀφθογγος, voiceless, < ά- priv. + φθέγγεα, speak.] In pathol., spasmodic contraction of the muscles supplied by the hypoglossal nerve, resulting in loss of voice.

Aphyllites (a-fi-li'tēz), n. [NL., < Gr. a- priv. + φιλλου, a leaf, + -ites.] See *Agoniatites. aphyric (a-fir'ik), a. [Gr. a- priv. + (por)-phyric.] Non-porphyrite: a term applied to an igneous rock which does not possess the por-

phyritic texture.

Apiaceæ (ā-pi-ā'sē-ē), n. pl. [NL. (Lindley, 1836), < Apium + -aceæ.] A family of dieoty-ledonous, choripetalous plants of the order Apiales, the parsley, carrot, or celery family, based on the genus Apium as the type. See Umbelliferæ and *Apium.

apiaceous (ā-pi-ā'shius), a. [NL. Apiaceæ + -ous.] Belonging to the Apiaceæ; umbellifer-

a piacere (ä pi-ä-chā're). [It., 'at pleasure': see pleasure.] In music, same as ad libitum.

Apiales (ā-pi-ā'lēz), n. pl. [NL. (Ward, 1905),

Apium + -ales.] An order of dicotyledon-

ous, choripetalous plants embracing the families Apiaeeæ, Araliaeeæ, and Cornaceæ, and characterized chiefly by having flowers in um-See Umbellales.

apicad (ap'i-kad), adv. [L. apex, apex, + ad, toward.] Toward the apex: introduced by Hyatt in the terminology of the cephalopod shell, and used to express the relation of parts to the apex. Zittel (trans.), Textbook of Paleon., I. 574.

leon., 1.574.

apical, a.—Apical axis, in diatoms, the line through the center of the pervalvar axis in the direction of the raphe.—Apical body. Same as *acrosume.—Apical cone, the growing point.—Apical growth, growth from the apex which lengthens the axis.—Apical organ. Same as *apical piate.—Apical plane, in diatoms, the plane perpendicular to the valvar plane passing through the pervalvar and apical axis.—Apical plasm, the idioplasm to which the growth of a new shoot in a plant is due according to Weismann's doctrine of germ-plasm.—Apical plate, a thickening in the anterior end of a trochesphere or laval stage of certaininvertebrates which is the nerve-center of the larva.—Apical system, in the echinoids or sea-urchins, the system of plates at the summit of the test or corona. Also called the dorsocentral system.

apicasm (ap'i-kazm), n. [Gr. åπείκασμα, a copy.

apicasm (ap'i-kazm), n. [Gr. ἀπείκασμα, a eopy, The standard and the eeivably equally belong to it although the object it represents had never existed; a copy

or analogue; an icon. C. S. Peiree.

apicasy (a-pik'a-si), n. [Gr. ἀπεικασία, representation by a copy or analogue.] Representation in an apieasm. See *apicasm.

apicular (a-pik'ū-lär), a. [NL. apiculus + -ar.] In bot., situated or occurring at the apex: as, apicular dehiscence.

apiculation (a-pik-ū-lā'shon), n. [NL. *apiculatio(n-), < apiculatios, < apiculus: see apiculus.] In bot., a short and abrupt but not stiff

amorphous powder easily solution water.

aphrodisia² (af-rō-diz'i-ä), n. [NL, \langle Gr. point at the apex of an organ; an apiculus.

Appológioc: see Aphrodisia¹.]

1. Erotieism. apigenin (a-pij'e-nin), n. [api(n) + -gen.

-produced, + -in².] A compound, $C_{15}H_{16}O_5$,

Aphroditeum (af#rō-dī-tō'um), n. [NL., \langle formed by the hydrolysis of apiin. It erystal-

lizes in bright-yellow needles.

apikoros (ä-pi-kö'ros), n.; pl. apikorsim (ä-pi-kör'sēm). [Gr. 'Επίκουρος, Epicurus: see epicure. The word has been referred to an Aram. source, pakar, be free, break through.] In Jewish use, one who is unsound in belief or lax in the observance of religion or eeremony; one who is irreverent to rabbis; a skeptic or heretie.

apio (ä'pē-ō), n. [A colonial use of Sp. apio, celery, \(\) L. apium, parsley.] A biennial, umbelliferous plant, Arracacia Arracacka, a native of the Andes of northern South America.

tive of the Andes of northern South America. Its large, fleshy yellow roots contain from 20 to 22 per cent. / starch, and from the expressed jnice of the root alcohol is made. See arracacha.

Apiocera (api-1-os'(-rā), n. [NL. (Westwood, 1835), < ἀπιος, distant, + κέρας, horn.] A genus of bombylioid Diptera typical of the family Apioceral of the Apioceral of the Apioceral of the Apicconducture. ily Apioceridæ. A. haruspex inhabits the Yo-

semite vallev.

Apioceridæ (ap'i-ō-se'ri-dē), n. pl. [NL., < Apiocera + -idæ.] A family of brachyeerous Diptera, of the superfamily Bombylioidea, having the wings provided with five posterior cells. They are large and slender flies somewhat resembling the robber-flies, and the North American species all inhabit the western portions of the continent.

apioid, n. 2. A solid of revolution shaped something like a pear: a form assumed by a rotating liquid spheroid when the speed beeomes too great for the persistence of the ellipsoid which followed the spheroid as the

speed increased.

apioidal (ap-i-oi'dal), a. Having an incipient dumb-bell form resembling the apioid. Know-

ledge, Nov., 1903, p. 253. apiol, n. 2. In med. and phar., the green liquid alcoholic extract of parsley-seeds used as

an emmenagogue and antiperiodic.

apiolic (ap-i-ol'ik), a. [apiol (†) + -ie.]

Noting an acid, CH₂:O₂:C₆H(OCH₃)₂CO₂H,

formed by the oxidation of apiol. It consists
of needles which melt at 175° C.

of needles which met at 143° C. apione (ap'i-on), n. [api(in) + -one.] A compound, $CH_2:O_2:C_6H_2(OCH_3)_2$, formed by heating apiolic acid with dilute sulphuric acid. It erystallizes in needles which melt at 79° C.

ing an acid, $C_{14}H_{12}O_6$ or $C_{14}H_{10}O_6$, formed by the exidation of isapiol. It consists of small needles which melt with decomposition at 252° C. apionic (ap-i-on'ik), a. [apione + -ie.] Not-

Apionichthys (ap*i-ō-nik'this), n. [NL., $\langle (?) \rangle$ Gr. $\dot{a}\pi i\omega \nu$, not fat (\dot{a} - priv. + $\pi i\omega \nu$, fat), +

 $i\chi\theta i\varsigma$, fish.] A genus of small soles or tonguefishes of the family Soleidæ, found in South America.

Apiosoma (ap'i-ō-sō'mā), n. [NL.. (Gr. $\dot{a}\pi\iota\sigma\nu$, pear, $+\sigma\dot{a}\mu a$, body.] A genus of amœboid organisms found in the red corpuscles of the blood of eattle affected by Texas fever, the infection of which is earried by ticks: a synenym of *Piroplasma.

Apiosporium (ap"i-ō-spō'ri-um), n. [NL. (Kunze, 1817), ζ Gr. ἀπιον, pear, + στορά, spore.] A genus of fungi of the order of Perisporiales, having spherical perithecia, and asci containing eight brown spores with transverse Septa. Many of the described species are known only in their conidial forms, which grow on leaves and branches, where the honcydew of plant-lice is present, causing what is called sooty mold.

apiri (ä-pē'rē), n. See *aalii.

Apis¹, u. 2. A small southern constellation situated between the Cross and the Chameleon. 2. A small southern constellation Same as Museu.

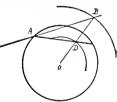
apism (āp'izm), n. [ape + -ism.] The praetice of aping; mimiery. Carlyle, Past and Present.

apiton(ä-pē-tōn'), n.[Philippine Sp., (Bisayan apitong, the resin of the tree 'dragon's-blood.']
In the Philippine Islands, a large forest-tree, Dipterocarpus grandiflorus, which yields a fine-grained wood of a grayish or greenish-gray eolor, used in construction and for the planking of boats. Like many of its congeners, this tree yields an oleoresin, which, however, is inferior to that of the panae or malapahe (Dipterocarpus vernicifuus). See Dipterocarpus and *panae.

Apium (ā'pi-um), n. [NL. (Linnæus, 1753, adopted from Tournefort, 1700), \(\)\(\)\(\) \(\) \(\) \(\) a pium, the name of parsley and related plants: \(\) A genus of dieotyledonous plants, type of the A genus of theotyledonous plants, type of the family Apiaeeæ. They are erect or prostrate glabrous herbs with compound leaves and umbels of white flowers. They are distinguished by the laterally flattened fruit and by the solitary oil-thees in the intervals between the usually prominent ribs of the carpels. The genus includes about 28 species, natives of the eastern hemisphere, with the exception of A. Ammi, which occurs from North Carolina to Florida and Mexico and extends into South America. Two or three introduced species occur locally in the eastern United States and in California. For

apjohnite (ap'jon-it), n. [Named after James Apjohn, an English ehemist, who first described it.] A manganese alum occurring in silky white fibrous masses and also in crusts. shifty white fibrous masses and also in erusts. **Aplacophora** (ap-la-kof'\[\delta\-ria\]), n. pl. [NL., \langle Gr.\[\delta\-ria\], a flat piece or part, $+ \neg \phi o \rho o \varsigma$, $\langle \phi \& \rho \epsilon w$, bear.] A suborder of Amphineura, having the body verniform, foot absent or merely a groove, and the eutiele more or less covered with spicules. It includes the families Neomeniidæ and Chætodermatidæ. Same as Solenogastres. Compare Polyplaco-

aplanat (ap'la-nat), n. [G. aplanat: see aplanatic.] A system of lenses invented by Adolph Steinheil, in 1866, for use in photography, consisting of a biconvex crown-glass aplanat (ap'la-nat), n. lens placed between two concavo-convex



raphy, eonsisting of a bieonvex crown-glass lens placed between two concavo-convex lenses of flint-glass. The invention of these objectives was a great improvement in photography, since before that time no objective gave a wide view-field undistorted and with sufficient illumination. — Group aplanat, an aplanat of large aperture with the members at a moderately great distance, effecting high illumination. Aplanat sphere, which serve to locate the path of a refracted ray within the sphere. They are situated at distances n r and \$\frac{1}{2}\$ r from the center of the sphere, where r is the radius of the sphere and n is its index of refraction. Let a ray of light meet the surface of the sphere and n is its index of refraction. Let a ray of light meet the surface of the sphere and n is its index of refraction. Let a ray of light meet the surface of the sphere and n is its index of refraction. Let a ray of light meet the surface of the sphere and having the same center O as the sphere. Let the line OB from the center of the sphere cut a circle drawn with radius nr and having the same center O as the sphere. Let the line OB from the center of the sphere cut a circle drawn with radius nr and having the same center O as the sphere. Let the line of B from the center of the sphere cut a circle drawn with radius nr and having the same center O as the sphere. Let the line of B from the center of the sphere cut a circle drawn with radius nr and having the same center O as the sphere. Let the line of B from the center of the sphere cut a circle drawn with radius nr and having the same center O as the sphere cut a circle drawn with radius nr and having the same center of the sphere cut a circle drawn with radius nr and having the same center of the sphere cut a circle drawn with radius nr and having the same center of the sphere cut a circle drawn with radius nr and having the same center of the sphere cut a circle drawn with radius nr and having the same center of the sphere cut a circle drawn with radius nr and having the

aplasmic (a-plaz'mik), a. [Gr. ά- priv. + πλασμα: see plasma.] Containing little or no protoplasm, sarcoplasm, or other form of plasma. Buck, Med. Handbook, III. 269.

aplastic, a. 2. Not molded, formed, or developed; imperfectly developed: as, aplastic

organs. Buck, Med. Handbook, I. 140.
aplitic (ap-lit'ik), a. See *haplitic.
Aplocheilus (ap-lō-kī'lus), n. [NL., prop. *Haplochilus, < Gr. ἀπλόος, single, + χείλος. lip.] A genus of top-minuows of the family Paciliidæ, found mainly in India.

Aplocœla (ap-lô-se'lā), n. pl. [NL., prop. Haploca la, $\langle a\pi\lambda \delta o c$, single, $+ \kappa o i \lambda o v$, a hollow.] Same as *Nemertini. Blanchard.

Aplodinotinæ. Aplodinotus. See *Haplodino-

næ, Haplodinotus.

tinæ, Haptodinotus.

Aplodontidæ (ap-lō-don'ti-dē), n. pl. The first published form of Haptodontidæ.

Aplysioidea (ap-li-si-oid'ē-ā), n. pl. [NL., < Aplysia + -oidea.] A group of teetibranchiate gastropods of the order Opisthobranchiata, consisting of the family Aplysiidæ. The other subdivisions of the order are Bulloidea, Pleurobranchoidea, and Siphonarroidea.

aclysiopurpurin (ap-lis'i-ō-per'pū-rin), n. [Aplysia (see def.) + purpurin.] A purple pigment found in the secretion of the dermal

glands of Aplysia.

apnea, n. See apnaa.

apnea, n. see apnaa.

apneustic (ap-nūs'tik), a. [Gr. ἀπνευστος, not blown through, < ά- priv. + *πνευστός, < πνεῖν, breathe.] In entom., having a tracheal system which is closed, that is, without stigmata or spiracles: or if these are present they are functionless. The apnenstic system is found only in certain aquatic or parasitic larve in which the blood is oxygenated through tracheal gills or through a very delicate general body-integument. A. S. Packard, Textbook of Entom., p. 440.

book of Entom., p. 440. **apo**-. In chem., this prefix is sometimes used to indicate production 'from' the particular source specified, as apomorphia, made or prepared from morphia by chemical change. In petrog., it is used with the name of an igneous rock to indicate that the rock has been altered from an original glassy state to a more or less completely crystaline condition: as, apobsidian, aporhydide, apomadesite, etc. These devitrified rocks are commonly of cryptocrystalline or microcrystalline texture and exhibit traces of perlitic or other textures of the original glass. Bascom, 1893.

apoatropin (ap-o-at'rō-pin), n. [apo- + Atropa + -in².] A crystalline alkaloid, $C_{17}H_{21}NO_2$, formed in the roots of Atropa Belladonia, and also prepared by treating atropin with nitric It melts at 60° C.

apobiosis (ap-ō-bī'ō-sis), n. [Gr. ἀποβίωσις, departure from life, $\langle \dot{\alpha}\pi \dot{\alpha}\beta \iota \dot{\alpha}\nu \dot{\nu}$, depart from life, ing. + $\dot{\alpha}\pi \dot{\alpha}$, away, + $\beta \iota \dot{\alpha} c$, life.] Death as a physio- apocytial (ap-ō-sish'al), a. [NL. *apocytium, \langle logie fact.

apocalyps, n. A simplified spelling of apocalupse.

apocarp (ap'ō-karp) n. [Gr. ἀπό, from, + καρπός, fruit.] In bot., a fruit with several separate carpels. Jackson, Glossary.

apocarpy (ap'ō-kār-pi), n. In bot., the character of being apocarpous.

apocatastatic (ap'ō-kat-a-stat'ik), a. Of, pertaining to, or of the nature of apocatastasis or restoration.

apocenter (ap'ō-sen"ter), n. [Gr. ἀπό, from, + κέντρον, center.] 1. In the orbit of a heavenly body, the point most distant from the body or point around which it revolves. Science, Feb. 7, 1902, p. 221.—2. In biol., an organism or organ which may be regarded as a specialized or divergent descendant from a more primitive or less specialized organism or organ.

apocentric (ap-ō-sen'trik), a. [Gr. āπδ, from, + κέντρον, center.] 1. Of or pertaining to an apocenter, in either sense. Encyc. Brit., XXVIII. 343.—2. Departing more or less from the primitive or average type; specifically, in ornith., departing from the primitive type of intestine.

Markedly apocentric though they may be in the matter of their intestinal coils.

Nature, July 3, 1902, p. 235.

apocentrically (ap-ō-sen'tri-kal-i), adv. an apocentric manner, or the manner that is

an apocentric manner, or the manner char to characteristic of apocentricity. Trans. Linnean Soc., London, Oct., 1901, p. 204.

apocentricity (ap'ō-sen-tris'i-ti), n. [*apocentric + -ity.] The property of being apocentric of participation of property of period property. tric or of pertaining to an apocenter.

It is obvious that the mere apocentricity of a character can be no guide to the sffinities of its possessor.

Encyc. Brit., XXVIII. 343.

tinal type.—Uniradial apocentricity, in ornith., complex structural variation in the intestinal loops, not due to any adaptive cause.

apocentron, apocentrum (ap - o - sen 'tron. -trum), n.; pl. apocentra (-trä). [NL.: see *apocenter.] Same as *apocenter, 1.

Apocenter. 1 Same as *apocenter, 1.

Apoceras (a-pos'e-ras), n. [NL. (Coville, 1905), Gr. $\dot{\alpha}\pi\dot{\phi}$, away from, $+\kappa\dot{\epsilon}\rho ac$, horn.] A genus of trees belonging to the Rutaeeæ and characterized by five horn-like diverging ovaries, four of which disappear in the fruit. It is improperly called Pentaeeras by many authors. See

Apocheilichthys (ap[#]φ̄-kī-lik'this), n. [NL., $\langle Gr. \alpha \pi \theta, off, + \chi \epsilon i \lambda \theta \varsigma, lip, + i \chi \theta i \varsigma, fish.] A genus of very small top-minnows of the family$ Paeiliida, found in the rice-ditches of Japan.

The apochromat (ap'o-kro-mat), n. [apochromatie.] A lens system, designed by Abbe, consisting of a combination of ten lenses with homogeneous immersion. It is achromatic for three colors, and therefore free from secondary spectra, and aplanatic for two colors.

a poco (ä pō'kō). [It., 'by little': see pococurante.] Gradually: used to qualify several terms for musical style or expression: as, a poco più lento, gradually slower; a poco niù mosso, grad-

apocodeine (ap- \tilde{o} -k \tilde{o} -d \tilde{e} 'in), n. [apo- + codeine.] An alkaloid, C₁₈H₁₉NO₂, prepared by heating codeine hydrochlorid with a concentrated solution of zinc chlorid. Both the base and its salts are amorphous.

ation (a-pok-ō-pā'shon), n. [See apoc-The dropping or omission of a letter or apocopation (a-pok- \bar{o} -pa'shon), n. syllable from the end of a word; abbreviation

by apocope.

apocrenate (ap-o-kren'at), n. [apocren(ic) + -ate².] Any salt of apocrenic acid, $C_{21}H_{12}O_{12}$. Some of the salts are found in the humus of

some of the satts are found in the humus of polar. soil, in sinter deposits, and, sometimes, in ferrugineous waters.

Apocrita (a-pok'ri-tä), n. pl. [NL., $\langle G_r$. apolaust (ap'ō-lâst), n. [A back-formation $a\pi\delta\kappa\rho\mu\tau\sigma\rho_{\tau}$, separated, $\langle a\pi\kappa\kappa\rho\nu\nu\epsilon\nu$, separate.] from apolaustic.] 1. A pleasure-seeker.—2. A suborder of insects of the order Hymenoptera, having the abdomen connected with the thorax by a deep constriction. It comprises the condition of polaustics of esthetics.

The philosophy of taste or enjoy-ment, apolaustics. Apocrita (a-pok'ri-tā), n. pl. [NL., < Gr. aπόκριτος, separated, < ἀποκρίνειν, separate.] A suborder of insects of the order Hymenopthe vast majority of the hymenopterous in-sects, including the three great series Parasitica, Tubulifera, and Aculcata. Brauer.

(Gr. από, from, + κύτος, a hollow (a cell).]

Noting fungi and algæ, such as the Siphonales and Phycomycetes, which contain a number of nuclei within a single cell-wall.

Apollo red. See *red1.

Apollo red. See *red1.

apodal, a. II. n. An amphibian of the order Apoda; a cæcilian. Encyc. Brit., XXV. 383. [Rare.]

apodete (a-pod'ṣ-tē), n. [NL. apodetē, \(Gr. aπό, off, + δετή, fagot, fem. of δετός, bound. Cf. *anthodete and *syndete.] That region in a bunch of aleyonarian polyps where the zoöids are separate. Compare *syndete.

Apodichthys (ap-\(\tilde{0}\)-dik'this), n. [NL., < Gr. $a\pi o v (a\pi o b -)$, without feet (allusion not apparent), $+ i\chi \theta v c$, fish.] A genus of ribbonshaped blennies found on the coast of Cali-

no pedal appendages, as Dasydetes and Gossea. See * Euichthydina.

apoëmbryony (ap-ō-em'bri-on-i), n. [apo-+embryon+-y³.] Suppression of the embryostage, in which the oösphere gives rise immediately to the vascular members.

apogalacteum (ap"ō-ga-lak-tē'um), n.; pl. apo-galactea (-ä). [NL. *apogalactæum, ζ Gr. άπό, from, + γαλαξίας (γαλακτ-), the Milky Way, + from, + γαλαξίας (γαλακτ-), the Milky Way, + -æum, as in apogæum, apogee.] The point of maximum distance from the Milky Way in the orbit of a star supposed to be revolving in an orbit within the galactic ring. Amer. Jour. [NL. (Linnews thin the galactic ring. Amer. Jour. [?], + Gr. γείτων, neighbor (as in Potamogeton).] Sci., Aug., 1903, pp. 135, 136.

apogalactic (ap#ō-ga-lak'tik), a. mum distance from the Galaxy. See *apogalacteum

apogamous, a. 2. In biol., illustrative of, per-Multiradial apocentricity, in ornith., adaptive modifications of the intestine.—Pseudocentric apocentricity, in ornith., slight departure from the primitive intessand apocentric apocentricapocentr

at random, or without conscious or unconscious preference; pangamy.

Indiscriminate isolation allows free interbreeding of all varieties, or apogamy.

Buck, Med. Handbook, IV. 33.

apogeny (a-poj'e-ni), n. [NL. *apogenia, < Gr. aπό, away, + -γενεια, < -γενης, -producing.] Sexual impotence, both male and female organs having lost their functions.

apoglucic (ap-ō-glö'sik), a. [apo-+ gluc(ose) + -ie.] Derived from glucose.—Apoglucic acid, an acid, C₁₈H₁₀O₇, found in cane-juice and formed by the action of an alkali on glucose.

apogyny (a-poj'i-ni), n. [NL. *apogynia, ζ Gr. aπό, away, + γυνή, female, + -y³.] Loss of reproductive power in the female organs.
apohyal, n. 2. In ichth., the basihyal bone.

Starks, Synonymy of the Fish Skeleton, p. 517. apoid (ap'oid), a. Of or belonging to bees of the typical family Apidæ.

Apoidea (a-poi de-a), n. pl. [NL. (Ashmead, 1899), < Apis + -oidea.] The true bees, considered as a superfamily and including the families Apidæ, Bombidæ, Anthophoridæ, No-madidæ, Ceratinidæ, Xylocopidæ, Megachilidæ, Stelidæ, Andrenidæ, Colletidæ, and Prosopidæ.

apoikogenic (a-poi-kō-jen'ik), a. [Irreg. ⟨ Gr. āποικος, absent from home, + -γενης, -producing.] Concerning or pertaining to eggs which are abundantly supplied with food-yolk, and which at an early stage of development leave the follicle in which they were formed and pass into the cavity of the ovarian tube to complete their development: contrasted with *katoikogenic. Nat. Sci., Oct., 1896, p. 232. [Rare.]

apoise (a-poiz'), adv. [a³ + poise.] Poised;
in a poised or balanced position. [Rare.]
apolar, a. 2. In geom., having no determinate

polar.

ment; apolaustics.

He was indeed only fervent in his apolausticism.

Aut Diabolus aut Nihil, p. 6 (1894).

apocryfal, a. A simplified spelling of apoc-apolegamic (ap- $\bar{\phi}$ -le-gam'ik), a. [Erroneously ryphal. formed \langle Gr. $a\pi o \lambda \dot{\epsilon} \gamma \epsilon \nu \nu$, pick out, $+ \gamma \dot{\epsilon} \mu \nu \sigma$, marapocryph (ap' $\bar{\phi}$ -krif), n. An apocryphal writing to or characterized by the conscious and intentional selection of mates in pairing or marriage .- Apolegamic mating. See

apollonicon (ap-o-lon'i-kon), n. [Apollo(n-) + -icon, as in harmonicon.] A variety of orchestrion invented in 1800 by J. H. Völler of Hesse-Darmstadt, but first manufactured in 1828 in London. It was essentially a pipe-organ which could be played either mechanically by cylinders or, as it had six keyboards, by several players, each taking part of a concerted effect.

Apollonize (a-pol'on-īz), v. i.; pret. and pp. Apollonized, ppr. Apollonizing. [Gr. Ἀπόλλων, Apollo, + -ize.] To act the Apollo, the god anov (anoo-), without feet (allusion not apparent), $+i\chi\theta i c$, fish.] A genus of ribbonshaped blennies found on the coast of California.

Apodina (ap- $\bar{0}$ -dī'nä), n. pl. [NL., \langle Gr. $\bar{a}\pi\sigma v c$]

Apodina (ap- $\bar{0}$ -dī'nä), n. pl. [NL., \langle Gr. $\bar{a}\pi\sigma v c$]

A suborder or section of Gastrotricha, containing forms having no pedal appendance as Daggedfers and Casses.

grounds and defense of the Christian faith.

apolysin (a-pol'i-sin), n. A yellowish-white crystalline powder, differing from phenacetin place of the acetic. It is antipyretic and anodyne.

Apomotis (ap-ō-mō'tis), n. [NL.] A genus of fresh-water sunfishes abounding in the Mississippi valley.

genus of ornamental monocotyledonous plants, the type and only genus of the family Aponogetonaceæ. The species most frequent in cultivation is A. distachyon. See Ouvirandra.

aponogetonaceous (ap"ō-nō-jē-tō-nā'shius), a. [Aponogetonaceæ + -ous.] In bot., belonging

to the family Aponogetonaeeæ, apophantic, a. II. u. The logical theory of the proposition. Sir W. Hamilton. apophony (a-pof'ō-ni), n. [F. apophonic, $\langle NL$. *apophonia, $\langle Gr. a\pi \delta$, off, $+ \phi \omega v \dot{\eta}$, sound.] Vowel-gradation; the vowel-differentiation of words known as ablant (which see). N. and Q., 8th ser. 1X, 200

apophysal (a-pof'i-sal), a. Pertaining to or having the characters of an apophysis. Amer. Jour. Sci., 4th ser., XV. 280.

apophysary, ".— Tronseau's apophysary points, various points on the spine, pressure upon which causes pain in certain cases of neuralgia.

Apophysis mamillaris, the olfactory bulb.— Cerebral apophysis, the pineal body.— Genial apophysis. See *genial2.

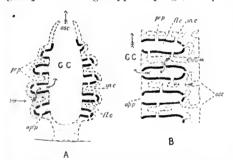
apoplectoid (ap-ō-plek'toid), a. Resembling or of the nature of apoplexy; apoplectiform.

or of the nature of apoplexy, apoplectiform.

apoplexy, n.—Bulbar apoplexy, hemorrhage into the aubstance of the pons Varoli.—Choroid apoplexy, hemorrhage between the choroid and the retina.—Heat apoplexy, aunstroke.—Hepatic apoplexy, hemorrhage into the substance of the liver.—Nervons apoplexy, the occurrence of symptoms of apoplexy without hemorrhage or other injury of the brain.—Placental apoplexy, hemorrhage into the aubstance of the placenta.—Pulmonary apoplexy, an effusion of blood from the capillary vessels into the aubstance of the placenta lung aubstance.—Serons apoplexy, a condition in which symptoms of apoplexy are due to an effusion of serum into the ventricles of the brain.—Verminous apoplexy, coma occurring as a reflex symptom of the presence of parasitic worms in the intestine.

apopyle (ap'ô-p.il), n. [Gr. āró, off, + πi2η, gate.] In the rhagon type of sponge, the open-

gate.] In the rhagon type of sponge, the open-



A Diagrams of the rhagon type of canal system. A simple type, with separate radial tubes. B, more complex type, with radial tubes fused and thickened distally to form cortex and incurrent canals; profition only of the wall is represented, ost, ostia; nece, incurrent canals; pr.p., prosopyle; pr.c., flagellated chamber; ap.p., apople; ost, osculum; C.C., gastral cavity. The arrows show the direction of the currents. The thick black line represents the gastral layer, and the dotted portion represents the dermal layer. (From Lankester's "Zoology,")

ing by which a flagellated chamber communieates with the cloacal cavity.

aporetin (ap-ō-rē'tin), n. [Gr. ἀπό, from, + ρητίνη, resin.] One of the resinous substances remaining after the crystalline substances have been removed from rhubarb extract.

aporrhaoid (ap-o-ra'oid), a. [Aporrhais Resembling the Aporrhaidæ.

-oid.] Resembling the Aporthalae.

aporthysa (ap-ō-rī'zā), n. pl. [NL., irreg. pl. based on Gr. ἀπόρρυσις, otherwise ἀπόρρυσις, a flowing off, ⟨ ἀπορρείν, flow off, ⟨ ἀπό, off, + ρεῖν, flow. Cf. epirrhysa.] In Rauff's terminology of sponge morphology, the exhalant eanals terminating on the closed surface.

aposematic (ap^rō-sē-mat'ik), a. [Gr. ἀπό, away, + σῆμα, mark: see sematic.] Of a nature to warn or alarm; serving to warn or aposematic (ap"ō-sē-mat'ik), a. alarm enemies: noting characteristics of or-ganisms which, when displayed, effect this.

We often see the combination of cryptic and sematic methods, the animal being concealed until disturbed, when it instantly assumes an aposematic attitude.

Energe. Brit., XXVII. 147.

Aposematic character, any characteristic of a dangerous, polsonous, or unpalatable organism which, when displayed, serves to warn or alarm an enemy; a warning character. The hood of the cobra, the rattle of the rattlesnake, and the large white tail of the skunk are familiar examples. — Aposematic coloring, in dangerous, polsonous, or unpalatable organisms, consplenous colors which warn or alarm enemies; warning colors. apositic (ap-ō-sit'ik), a. [apositicia] + -ac.] Causing apositia or loathing of food; tending to diminish appetite.

to diminish appetite.

aposorbic (ap-ō-sôr'bik), a. [Gr. ἀπό, from, + (t) sorb(inose) + -ic.] Noting an acid. + (t) sorb(inose) + -ic.] Noting an acid, $C_5H_8O_7$, prepared by oxidizing sorbinose with nitric acid. It crystallizes in leaflets, is bi-basic, and melts at 110° C.

order Naiadales, the lattice-leaf family, eon-taining the genus Aponogeton only. See *Aponogeton and Ouvirandra.

apostatic (ap-ō-stat'ik), a. [apostate + -ic.] Characterized by apostasy; apostate; back-sliding. Goldina. [Rare.] Characterized by apostasy; apostate; back-sliding. Golding. [Rare.] N. E. D. apostatism (a-pos'tā-tizm), n. [apostate + -ism.] Departure from or relinquishment of

the faith: as, "political apostatism." Sir R. Wilson, Diary, II. 308. N. E. D. Apostolic delegate, an ambassador or diplomatic agent

Apostofic delegate, an annussand of diplomatic agent of second rank commissioned by the pope to a national church or to a government.—Apostoli method. See *method.—Apostolic party. See apostolics, in Cyclopedia of Names.—Prefect apostolic. See *prefect.

apostrofize, v. A simplified spelling of apostorics. $ar{t}rophize.$

apostrophism (a-pos'trō-fizm), u. Apostrophic mode of address. Morning Star (London), Dec. 18, 1866. [Rare.] N. E. D. apotactical (ap-ō-tak'ti-kal), u. [Gr. ἀποτακτι-

καί, also ἀπότακτοί, certain heretics, ζάπότακτος, set apart, ζάποτάσσειν, set apart, arrange, ζάπό, from, + τάσσειν, arrange.] Recreant. Βρ. Hall,

No Peace with Rome, p. 661.

apothecal (ap-ō-thē'kal), a. [L. apotheca, a shop: see apothecary.] Of or pertaining to a shopman; shopkeeper's: as, "bucolic menace and apothecal libel," Mortimer Collins. [Rare.]

Apothecaries' measure. See measure

apothegmatically (ap-ō-theg-mat'i-kal-i), adv. In an apothegmatic manner; sententiously: pithily.

apotheose (a-poth/ē-ōz), r. t.; pret. and pp. apotheosed, ppr. apotheosing. [apotheosis.] To place or rank among the gods; apotheosize; exalt: glorify. [Rare.]

He must be apotheosed, or more than mortality or man-kind will permit, and so omnipresent. F. Philipps, Reg. Necess., p. 269.

a potiori (ā pō-shi-ō'rī or ā pō-ti-ō'rē). [L.] Literally, from the stronger or more important: hence, in *logic*, from the prevailing trend, or principal contents, of an argument or ex-

apotype (ap'ō-līp), n. One of a series of specimens upon which are based supplementary descriptions, giving additional details about some previously described species: proposed to take the place of *h.ppotppe, which is used in another sense. Science, N. S., XXI, 900.

Appalachia (ap-a-lach'i-ä), n. [NL.] A continental area of Paleozoic time which occupied

in part the general position of the present Appalachian region.

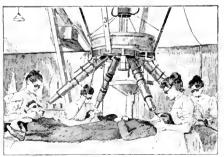
Appalachian, a. 2. In gcol., specially noting an anticlinal fold, slightly overthrown so as to have one flank dipping more steeply than the other. See the extract.

The folding in the rocks of the area is of three types; minute crinkflug, small unsymmetrical wavy tolds, and broad Appalachian ones in which the adjustment appears to have taken place along the bedding.

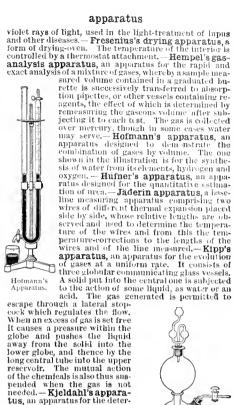
Amer. Jour. Sci., Feb., 1904, p. 150.

Amer. Jour. Sci., Feb., 1904, p. 150.

Apparatus, n.—Arsenic apparatus of Fresenius and Babo, an apparatus for the reduction of arsenious sulphid by means of potassium cyanid in a current of carbon-dioxid gas, which excludes air. Arsenic appears as a mirror at the narrow exticute.—Buck's extension apparatus, an apparatus for making extension of the leg, in order to counteract muscular action and prevent displacement of the fragments in case of fracture of the thigh-bone.—Carbonic-acid apparatus, an apparatus for the gravimetric estimation of carbonic dioxid in alkali. See alkalimetry. Varlous forms have been devised by Fresenius, Geissler, Mohr, Kipp, Schroetter, and others.—Clayton's apparatus, an apparatus for the generation of anhydrous sulphurous and sulphuric acids in the hold of a ship, for the purpose of disinfection and to kill the rats.—Elliott's apparatus, an apparatus for the rapid analysis of gaseous mixtures, such as illuminating gas. The sample is collected in the graduated eudiometer. It is then transferred to the laboratory-tube, where it is subjected to the action of a solvent. The residual gas is then returned to the graduated tube and the loss in volume measured.—Fell-O'Dwyer apparatus, an appliance for foreing air into the lungs through an Intubation-tube by means of a bellows.—Finsen's apparatus, a system of lenses for concentrating the



I msen's Apparatus.
Drawn from Buck's "Reference Handbook of the Medical Sciences.



pended when the gas is not needed.—Kjeldahl's appara-tus, an apparatus for the deter-mination of nitrogen in organic compounds by its conversion to ammonia, the weight of which is ascertained from its neutral-izing a standard acid.—Lan-

compounds by its conversion to ammonia, the weight of which is ascertained from its neutralizing a standard acid.—Langen's apparatus, an apparatus for collecting the waste gases in a blast-furnace by closing the mouth of the furnace, It has the form of a bell-shaped tube resting in an inverted conical ring. It is raised and lowered by aneans of a lever, and is provided at the extremity with a lip which dips into a water-trough in the gas-main, forming a perfectly artight joint. At the time of charging, the bell is lifted and, sliding in the water-joint on the gas-tible, allows the charge in the cup-shaped ring to fail into the furnace.—Lindeman's oxygen apparatus, an apparatus for the determination of oxygen in gaseous mixtures, based on its removal by union with phosphorus. The gas is collected in a measuring-endiometer and transferred to a vessel containing small sticks of phosphorus. On being brought again to the graduated tube, the loss in volume indicates the amount of oxygen absorbed.—Marsh's arsenic apparatus, the form of apparatus originally proposed by Marsh for the application of his method of detecting ninnte quantities of arsenic. It consisted of a U-shaped tube of glass, with a bulb on each limb, and a top-cock ending in a small jet from which the arseniureted hydrogen gas was allowed to escape and beignited. It is now superasded by a simpler but more efficient arrangement.—Memory apparatus for the volumetric determination of fluorin. Silicon tetrafluorid is evolved by heating the fluorid, under analysis, with quartz and sulphuric acid. The fluorin is calculated from the volume of the gas set free.—Orsat's apparatus, a portable apparatus for the rapid analysis of gases. It consists of a graduated burette, surrounded by a water-jacket, connected with a movable two-necked bottle by a rubber hose, and capable of being filled with gas from a stack flue, etc., through the capillary tube and stop-cock attached thereto. The measured volume can then be transferred to any one of the absorption pipetts abyop

appendical, a. 2. Relating to an appendical, a coording to the Bunsen method, by ascertaining the rate of effusion.—Schilling's blast apparatus a simple device for combining an aspirator and an air-blast, operated by water-pressure.—Soxhlet's extraction apparatus, an apparatus for the extraction of soluble constituents, as fat, with a minimum quantity of solvent, as ether. The solvent is boiled in the lower flask (see the illustration), the vapor is condensed in the water-cooled spiral, and the liquid drops upon the substance contained in the central vessel, where it accumulates until it reaches the top of the siphon, when it runs into the lower flask, the substance contained in the central vessel, where it accumulates until it reaches the top of the siphon, when it runs into the lower flask.

water-cooled spiral, and the liquid drops upon the substance contained in the central vessel, where it accumulates until it reaches the top of the siphon, when it runs into the lower flask. This operation is repeated until the extraction is complete. The extract is obtained by boiling off the solvent.—Squibby's urea apparatus. See *time-sense. Triple-effect apparatus. See *time-sense. Triple-effect apparatus, an important modification of the vacuum-pan used in sugar-refluing and other branches of industry, involving the use of latent heat from the vapor of a first pan to boil the liquid contained in a second pan in which a higher vacuum is maintained, and in like manner applying the vapor from the second to a third pan. Sometimes even a larger number of vessels than three is employed.—Wiborgh's apparatus, an apparatus for the rapid estimation of sulphur in iron and steel. About .5 gram of drillings are heated in a flask with water. Sulphuric acid is then run in from the side-finnel and hydrogen sulphid is evolved. This reacts with the cadmium acetate with which a cloth fastened over the mouth of the upper funnel-like vessel has been saturated. The shade of yellow developed is compared with a set of standards.—Winkler's apparatus for gas analysis, a convenient form of gas burette. It consists of an accurately graduated endiometer with a simple stop-cock at its upper and a three-way stop-cock at its sower end. The lower end is connected by means of rubber hose to the leveling tube. The gas may be collected over mercury or water.—Yaryan apparatus or evaporation of solutions of sugar and the concentration of liquids for many other purposes.

appareling (a-par'el-ing), n. Clothes; elothing.

appareling (a-par'el-ing), n. Clothes; eloth-

Fishing and hunting the abundant waterfowl, as well as other game, contribute to the tribal subsistence, and during recent years part of the corn, beans, and peas is carried on horseback to Yuma, where it is bartered chiefly for appareting. Smithsonian Rep., 1901, p. 72.

during recent years part of the first part of th apparation (ap-a-rish on), v. t. 10 eause to to appear in phantom form. Mrs. Whitney, Sights and Insights, II. 468. [Rare.] N. E. D. appassionato (a-pa-si-o-na'tō), a. [It., < ML. ad- + passionatus, passionate.] Impassioned; emotional: in music, noting passages to be so

rendered.

appatriation (a-pā-tri-ā'shon), n. [L. ad, to, + patria, country, + -ation.] The assignment, as of a song or a saying, to the country or place where it originated. Athenæum, July 7, 1883. [Rare.]

appeal, v. i.—To appeal from the chair, to take exception to a decision of the chairman or presiding officer of a deliberative body, and ask the sense of the meeting or assembly in regard to it; to appeal to the house from a decision of the chair.

appeal, n. — Circuit court of appeals, a federal court of appellate jurisdiction established for the hearing of ap-peals from judgments, orders, or decrees of the varlous federal district and circuit courts throughout the United

appel, n. (b) A stroke on the opponent's foil or sword designed to notify him that the bout is to begin. (c) The stamping of the foot during ceremonial salutes prior to the bout. See salute.

See salute.

appellatived (a-pel'a-tivd), p. a. Called;
named. Buluer, Disowned, i. [Rare.]

Appendages of the eye, the lacrymal apparatus, ocular
muscles, eyelids, eyelashes, and eyebrows. — Appendages of the fetus, the umbilical cord, placenta, and
membranes.—Appendages of the skin, the sweat and
sebaceous glands, nails, and hair.—Appendages of the
uterus. Same as **danexa.—Auricular appendage.
Same as appendix auriculæ (which see, under appendage.
—Cæcal appendage, vermicular appendage, the
vermiform appendix.

appendant, a.—Appendant powers, those powers which the donee is anthorized to exercise out of the estate limited to him, and which depend for their validity upon the estate which is in him. A life-estate limited to a msn, with a power to grant leases in possession, is an example. Bouvier, Law Diet.

appendectomy (ap-en-dek'tō-mi), n. A short-ened form of *appendicectomy. Med. Record, July 11, 1903, p. 46.

2. Relating to an appendix,

appendicectomy (a-pen-di-sek'tō-mi), n. [NL. appendix (vermiformis) + Gr. εκτομή, ex-[M. appendix (retrniformis) + Gr. extopy, excision.] Excision of the vermiform appendix. Med. Record, March 28, 1903, p. 484. appendicitis (a-pen-di-si'tis), n. [L. appendix (-dic-) + -itis.] In pathol., inflammation of

(-dic-) + itis.] In pathol., inflammation of the vermiform appendix, inflammation of the vermiform appendix (which see, under appendix). The disease occurs at all ages, but most commonly in young adults, especially young men. The apparently increased prevalence of the affection in late years is to be accounted for chiefly by greater skill in diagnosis. The exciting causes of inflammation of the appendix are digestive disturbances (especially intestinal indigestion attended with much flatulence), influenza, rheumatism, and blows on the abdomen; the presence of seeds in the appendix is not, contrary to the popular belief, a frequent cause of the disease. The inflammation may be acute or chronic. The most prominent symptoms of the acute form are pain of a colicky nature, usually beginning in the neighborhood of the mubilicus and later becoming localized in the right lower abdominal region; rigidity of the abdominal muscles on the right side; and tenderness to pressure. The last, at the beginning, is nearly always most acute at "McBurney's point," which is situated about two inches from the anterior spinons process of the illum on a line joining this process with the umbilicus. Nausea and voniiting, prostration, fever, rapid pulse, constipation or more rarely diarrhea, and chills are other symptoms usually present in varying degrees. In chronic appendicitis, the most prominent manifestation is constant pain in the right illac region, which is aggravated by exertion or fatigue; but the condition may be seriously prejudicial to health in many other ways, while there is also the ever present danger of an acute exacerbation with all its perils. In the treatment of acute appendicitis surgeons usually advise operations as soon as the diagnosis is made. "Interval operations are those in which the appendix is removed after the subsidence of an acute attack, so as to prevent a recurrence of the disease.—Chronic, recurrent, or relapsing appendicitis, alow grade of inflammation of the vermitorm the vermiform appendix (which see, under dence of an acute attack, so as to prevent a recurrence of the disease.—Chronic, recurrent, or relapsing appendicitis, a low grade of inflammation of the vermiform appendix, continuing without marked symptoms, but interrupted from time to time by acute exacerbations.—Perforative appendicitis, inflammation of the vermiform appendix in which perforation of this part occurs. appendicula (ap-en-dik [1-18], n.; pl. appendicula (ap-en-dik [1-18], n.; pl. appendix.] A fine hair-like growth borne at the apex of hymenomy ectous fungi.

appendicular a 2. Relating to an appendix.

appendicular, a. 2. Relating to an appendicule, specifically to the appendix vermiformis: as, appendicular colic. Buck, Med. Handbook, I. 39.

appendiculocæcal (ap-en-dik/u-lo-se'kal), a. Relating to both the cæeum and the vermiform

introspective contents of this process, that is, the clear idea itself and the changes resulting in consciousness from the induction of the attentive state.

Here we understand by apperception a psychological process in which, on the objective side, a certain contents becomes clear in consciousness and, on the subjective, certain feelings arise which, as referred to any given contents, we ordinarily term the state of 'attention.'

W. Wundt (trans.), Physiol. Psychol., I. 316.

Apperception center. See *center. apperceptionism (ap-er-sep'shon-izm), n. psychol., the explanation and systematization of mental phenomena in terms not only of the mental elements and their physiological conditions but also of the process of apperception. The word is usually applied, in current controversy, to the psychological attitude represented by Wundt's system, that is, to a specific form of voluntarism: contrasted with associationism.

But without returning to apperceptionism we can over-come the one-sidedness of associationism.

II. Münsterberg, Harvard Psychol. Stud., I. 644.

apperceptionist (ap-èr-sep'shon-ist), n. An epistemologist who embraces apperceptionism.

The idealist's view is that of the 'apperceptionists.'

Jour. Philos., Psychol. and Sci. Methods, Aug. 18, 1904,

[p. 466.

apperceptionistic (ap-er-sep"shon-is'tik), a. In psychol., pertaining to or characterized by apperceptionism. H. Münsterberg, Harvard apperceptionism. H. Psychol. Stud., I. 653.

apperceptive, a. 2. In current psychol.: (a) characterized by clearness, or by the state of attention; (b) resulting from or pertaining to the psychological process of apperception.

In almost every moment of the waking life an apper-ceptive process is taking place. Whenever an object is attended to, the presentation of it is apper-ceived. G. F. Stout, Anal. Psychol., II. 113.

We may distinguish intellectual processes from associations, on the purely psychological basis, as apperceptive connections of ideas.

W. B'undt (trans.), lluman and Animal Psychol., p. 312.

Apperceptive signal, in *psychophys.*, a premonitory signal to the observer to concentrate his attention on the coming impression.

apperceptively (ap #er-sep 'tiv-li), adv. In psychol., in an apperceptive manner; by way of the process of apperception: as, apperceptively known; apperceptively constituted.

appercipient (ap-ér-sip'i-ent), a. [NL. apper-

cipiens, ppr. of appercipere, apperceive.]
perceiving; capable of apperception.
Stout, Anal. Psychol., H. 128.
Appert glass. See *glass. G. F.

appetizement (ap-\(\bar{c}\)-tiz'ment), n. [appetize + -ment.] Appetite; craving for food; hunger. Scott, Woodstock. [Rare.]

appetizingly (ap'é-ti-zing-li), adv. In an appetizing manner; in a way to whet appetite: as, food cooked appetizingly.

applanation (ap-la-nā'shon), n. [NL. *applanatio(n-), <*applanare, <L. ap-for ad-, to, + LL. planare, make plane: see planc1, v.] Flattening: said of the crystalline lens.

In some cases the eye becomes myopic, which fact can be explained only by the assumption that the crystalline lens in toto is pressed forward toward the cornea, and that, in spite of the fact that in this manner the zonule of Zinn is stretched, and that an applanation of the lena is taking place.

Buck, Med. Handbook, 1V. 361.

be explained only by the assumption that the crystalline lens in toto is pressed forward toward the cornea, and that, in spite of the fact that in this manner the zonule of Zinn is stretched, and that an appleanction of the lens is taking place.

Buck, Med. Handbook, IV. 361.

Apple, N.** I and 2. The apple thrives under a very wide range of conditions, and in practically all temperate regions. In North America the chief regions in which it is produced commercially are the Eastern Canadian region, comprising parts of Ontario, Quebee, and the maritime provinces; the New England and New York region; the Piedmont region of Virginia; the Michandolf of the Piedmont region of Virginia; the Michandolf of the Piedmont region of Virginia; the Michandolf of Missouri and Kansas, in which the Ben Davis variety is the leading factor the Ozark region, comprising part of Missouri and Kansas, in which the Ben Davis variety is the leading factor the Ozark region, comprising part of Missouri and the rapidly developing regions of the Rocky Moontain States and the Coast States. In all these sections there are certain dominant varieties, which are usually leas successful in other localities. As a country grows older, it usually happens that the list of desirable apples increases in length, because of the choosing of varieties to suit special localities and special needs. It is impossible to give lists of varieties for planting in all parts of the country, either for market or home use. The number of varieties of apples runs into the thousands. A generation and more ago, the great emphasis in applegrowing was placed on varieties, and the old fruit-books testify to the great development of systematic pomology. The choice of varieties is not less important now; but other subjects have greatly increased in importance with the rise of commercial fruit-growing, such as the necessity and means of tilling the soil, fertilization and covercrophing, the combating of insects and diseases (sepecially by means of spraying), and revised

Such apples are not new, being mentioned in ancient times; nor has any seedless apple yet received general commendation. 'Seedless' apples are of two kinds—apples of normal form and structure in which the core is reduced to a minimum, and apples with nearly or quite apetalous and more or less imperfect flowers. The latter group comprises the so-called 'bloomless' apples, which have been known for centuries. The mete fact of comparative seedlessness has no significance in the choice of a variety, for the apple-grower must have a variety of certain quality, color, and form, with a high degree of productivity and other desirable qualities.—Seven-year apple, a West Indian tree, Genipa clusiæfolda, or its fruit. See Genipa.—Sooty blotch of apple. See *blotch.

apple-aphis (ap'l-ā*fis), n. The common leaf-

apple-aphis (ap'l-ā'fis), n. The common leaf-fouse, Aphis mali, of the apple, especially abundant in the late spring and early summer. Also apple-leaf aphis and apple-louse. See cut

under Aphis.

apple-borer (ap'l-bōr''er), n. An insect which bores into apple-trees, as the round-headed apple-borer (larva of Saperda candida), or the flat-headed apple-tree borer (larva of Chryso-tath-headed apple-tree bothris femorata). See cuts under Saperda and Chrysobothris.

apple-coal (ap'l-kol), n. Free or soft coal;

coal which mines easily. [Scotch.]
Applecross group. See *group1.
apple-dowdy (ap-1-dou'di), n. Same as *apple-slump.

apple-essence (ap'l-es"ens), n. Same as *apple-

apple-faced (ap'l-fāst), a. Having a face round like an apple. Diekens, Dombey and

Son. [Rare.] apple-fly (ap'l-fli), n. 1. A little fruit-fly, Drosophila ampelophila, of the family Drosophilidæ, which lays its eggs in overripe apples and other fruit, and especially swarms around cider-mills. See cut under fruit-fly.—2. A trypetid fly (Trypeta pomonella) whose larva, known as the apple-maggot or railroad-worm, infests apples in the northeastern United States. See cut under Trypeta.

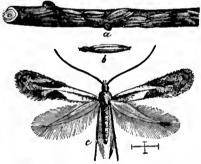
apple-gall (ap'l-gâl), n. A gall resembling an

apple. — Grape-vine apple-gall, a gall, globular, fleaby, greenish in color, and nearly an inch in diameter, attached to the stems of grape-vines: produced by the larva of a fly, Cecidomyia vitis-pomum.

apple-grinder (ap'1-grin'der), n. A grinding-mill for pulping apples, grapes, peaches, etc., or for grinding roots as food for cattle; a grinding-mill.

apple-gum (ap'l-gum), n. A medium-sized tree, Eucalyptus Stuartiana, resembling the common apple. It yields a useful hard, brown timber, and a kino. Also called turpentine-tree, peppermint-tree, and apple-scented gum. [Vieteria] toria.

apple-leaf (ap'l-lef), n. A leaf of the appletree .- Apple-leaf Bucculatrix, a tineid moth, Buccu-



Apple-leaf Bucculatrix (Bucculatrix pomifoliella), 4. apple twig covered with cocoons; 6, cocoon, enlarged; c, moth, much enlarged (Riley).

latriz pomifoliella, whose larva feeds abundantly on the leaves of the apple in the eastern United States and hibernates within a whitish elongate, longitudinally ribbed cocoon attached to the twigs or trunk of the tree. Appleleaf flea-weevil. See *flea-weevil.

apple-leather (ap'l-letH'er), n. A sort of tough

paste of a leathery consistency, made of apples partly cooked and dried in a hot sun.

apple-louse (ap'l-lous), n. Same as *appleaphis. -- Woolly apple-louse, Schizoneura Americana. See American *blight.

apple-maggot (ap'l-mag"ot), n. The larva of

Trypeta pomonella, a dipterous insect which damages apples in the New England States.

apple-midge (ap'l-mij), n. A small chironomid fly, Molobrus mali. whose larva feeds on the flesh of ripe and stored apples, hastening their decent decay

apple-nuts (ap'l-nuts), n. pl. A commercial name for the apple-shaped fruits of the ivory-

nut palms, Cælococcus Amicarum and C. Solomonensis, of the Caroline and Solomon Islands.

See ivory-nut.

apple-oil (ap'l-oil), n. Ethyl or amyl valerianate diluted with alcohol: used to imitate the odor of apples in confectionery and soda-water

syrups. Also apple-essence.

apple-scab (ap'l-skab), u. A disease of the apple-tree which attacks both the leaves and fruit, caused by the fungus Fusicladium dendriticum. See Fusicladium and scab, 5.

apple-scale (ap'l-skāl), n. Any one of several species of scale-insects or bark-lice that infest the apple notably, the oyster-shell bark-louse of the apple (Lepidosaphes ulmi, formerly Mytilaspis pomorum) and the scurfy scale (Chionaspis furfurus).

An instrument

of the apple (Lephaosaphes unit, formerly My-tilaspis pomorum) and the scurfy scale (Chio-naspis furfurus). apple-slicer (ap'l-sli"sér), n. An instrument for cutting apples into slices for culinary use.

apple-sphinx (ap'l-sfingks), n. A sphingid moth, Sphinx gordins. Its apple-green larva moth, Sphinz yordins. Its apple-green larva feeds on the foliage of the apple in Canada and the United States, from the Mississippi valley eastward.

apple-thrips (ap'l-thrips), n. nopterous insect, Phlaothrips mali, which is appressor (a-pres'or), n. Same as *appresso-

sanopterous insect, Phlwothrips mali, which is often found on young withered apples.

apple-toddy (ap'1-tod'i), n. A toddy into which the pulp of baked or roasted apples is stirred; also, a toddy made of apple-jack.

Apple-tree borer. See *borer.—Apple-tree canker.—See *canker.—Apple-tree pruner.—See *pruner.—Apple-tree shot-hole borer. See *borer and *shot-borer.—Apple-tree tent-caterpillar. See *carcaterpillar.—Bronze apple-tree weevil. See *carerpillar.—Red-humped apple-tree caterpillar. See *caterpillar.—Yellow-necked apple-tree caterpillar. See *caterpillar.—Apple-tree (ap'1-werm). n. The larva of apple-tree worm (ap'1-werm). n. The larva of

apple-worm (ap'l-werm), n. The larva of the codling-moth, Carpocapsa pomonella, a cosmopolitan tortricid moth. See codlingcosmopolitan tortified moth. See codlingmoth.—Many-dotted apple-worm, the larva of a noctud moth, Balsa malona, two generations or broods of which appear during the summer, often feeding in numbers on the foliage of the apple. It is an inch or more in length and light green in color, with longitudinal white lines and many whitish dots.

apply, v. i. 5. In astrol., of a heavenly body, to approach to the conjunction or aspect of

another.

appointment, n.—Bureau of appointments. See

*bureau.—Illusory appointment, such an appointment or disposition of property under a power as is
merely nominal and not ambstantial. *Bourier, Law Dict.

Appolt coke-oven. See *coke-oven.

apport (a-pōrt' or, as F., a-pôr'), n. [F., ⟨apporter, ⟨L. apportare, bring to, introduce.] The
introduction professed by the capable of the country and sodis-water syrups.

apricot-oil (ā*pri-kot-oil'), n. A fat oil ex-

introduction, professedly by occult or supernormal means, of flowers, musical instru-ments, etc.: used with reference to perform-ances of spiritnalistic mediums.

ances of spirithalistic mediums.

Some of the physical phenomena which I have adduced as among those proclaimed to have occurred, such as apports, scent, movement of objects, passage of matter through matter, bear a perilous reaemblance to conjuring tricks, of a kind fairly well known; which tricks if well done can be very deceptive.

Sir Oliver Lodge, in Proc. Soc. Psychical Research, XVII 48

apportionable (a-pōr'shon-a-bl), a. [apportionable (a-pōr'shon-a-bl), a. [apportionab

E. Coke, apposal (a-pō'zal), n. The act of apposing, Apposal of sheriffs, in English law, the charging them with money received upon account of the Exchequer. Bourier, Law Dict.

apposit, a. A simplified spelling of apposite. apposition. See appose2.] A public disputation or examination: now used only as a name of Speech Day in St. Paul's School, London.

The apposition apposition of the industrious.

G. B. Shaw, Fabian Essays in Socialism, p. 177.

aproctia (a-prok'ti-ā), n. [NL., < Gr. a-priv. + πρωκτός, anus.] The condition of having an imperforate anus.

apron, n. 2. (j) In mining, a block of timher forming an off-set to a pump-rod. (k) In gold-milling, the analgamated copper plates outside of a stamp-battery, need to collect the gold from the pulp which flows over these plates in a thin stream from the mortar. Also apron-plate.

appositively (a-poz'i-tiv-li), adv. In apposition or so as to stand in apposition; appositionally: as, substantive expressions put appositively.

appraisable (a-prāz'a-bl), a. [appraise + -able.] Capable of being appraised or of having the value fixed.

having the value fixed.

appreciation, n.—The world of appreciation, the world ss it appears to apiritual insight, to the broadest and wisest conception of the most human good sense. Opposed to the world of description, or world of facts, under a materialistic and, as far as possible, scientifically theoretical aspect. The world appreciation in this phrase is to be understood in sense 2, as "sympathetic understanding" which "estimates the qualities of things and gives them their due value." The world of appreciation is a world of real, living, and purposing beings, in some sense the children of God. The term was introduced in 1892 by J. Royce. See the extract.

We shall be led to make a provisional aundering of the

We shall be led to make a provisional aundering of the two points of view, viz. (1) that of our appreciative or

most explicitly volitional consciousness, and (2) that of most explicitly volitional consciousness, and (2) that of our descriptive or more theoretical consciousness,... We shall express the opposition of the two points of view by calling the realm of Being, as more abstractly theoretical consciousness defines it, the World of Description; while the world as otherwise interpreted is the world of life,—the World of Appreciation... The only justification for the more abstractly theoretical conception of the World of Description is its value as a means of organizing our conduct and our conception of what the will seeks seeks.

Royce, The World and the Individual, 2d ser., p. 26.

appreciativeness (a-prē'shi-ā-tiv-nes), n. [appreciative+-ness.] The character of being

This circumstance suggests a name for that apprehension of a whole which takes place without discernment of its parts. We may call it *implicit apprehension*.

G. F. Stout, Anal. Psychol., I. 95.

apprenticement (a-pren'tis-ment), n. [apprentice + -ment.] The act of apprenticing; prentice + -ment.] The a apprenticeship. [Rare.]

The premature apprenticements of these tender victims. Lamb, Essays of Elia, Praise of the Chimney Sweeper.

appressorium (a-pre-so'ri-um), n.; pl. appressoria (-ä). [NL., < L. apprimere, pp. appressus, press to: see appressed.] The organ by which parasitic fungi attach themselves to their hosts, consisting usually of the flattened or swollen end of a hypha.

Appressoria are also formed by some parasitic Fungi, as a minute flattening of the tip of a very short branch (Erysiphe), or the swollen end of any hypha which comes in contact with the surface of the hoat (Piptocephalis, Syncephalis), haustoria piercing in each case the cell-wall below. In Botrytis the appressoria assume the form of dense tassels of short branches.

Encyc. Brit., XXVIII. 555.

approach, n. 6. In golf, the play by which a player endeavors to get his hall on to the putting-green.

approbatory, a.—Articles approbatory. See $\star ar$ -

Approver in the marches. See *march1.

Approximate numbers. See *number.
approximator (a-prok'si-mā-tor), n. One who approximates or comes near.

apricot-oil (ā"pri-kot-oil'), n. A fat oil expressed from the kernels of apricots: now of-

ten substituted for almond-oil.

a prima vista (ä prē'mä vis'tä). [It.: see
prime and vista.] At first sight: as, to rend a piece of music a prima vista.

Aprion (a-pri'on), n. [NL., \langle Gr. \dot{a} - priv. + $\pi \rho i \omega v$, saw.] A genus of snappers of the family Lutianidæ, found in the tropical seas: distinguished by the scaleless fins. A. virescens

these plates in a finit stream from the mortar. Also apron-plate.

4. (b) The vertical portion of the slide-reat of an engine-lathe which carries the clusp-unt and the gearing for the feed. (c) The slide or grate of a punching- or shearingmachine.

slide, which guides in the desired direction logs leaving the slide. (e) The shield in front of the face of an undershot water-wheel, intended to keep the water in action upon the buckets.

6. An overwashed deposit of gravel and sand

such as is commonly spread southward from the greater moraines of the northeastern United States. Also frontal apron and morainie apron.

Where the topography was not rugged, numerous ice-derived streams built aloping plaina resembling low si-luvial fans. These are well seen on Long Island and Martha's Vineyard, and to those of the latter place Professor Shaler has given the very descriptive name of frontal aprons. Bulletin Amer. Geog. Soc., XXX, 205.

7. A trough or channel, or a shallow vat, of In pathol., diminution or suppression of the considerable width as compared with its depth, over which water or other liquid flows in a thin wide sheet, or in which it stands; specifically, the wide, shallow channel through which the water flows to the periphery of a breast-wheel or overshot wheel.—8. In saltmanuf., a shallow tray in which a dilute solution of brine is exposed to the sun to be evaporated and concentrated. — Hottentot apron. Same as *tablier.

apron-conveyor (ā'prun-kon-vā"er), u. See

*convour, 4.

apron-fall (ā'prun-fâl), u. A piece of leather attached to the top of the dash-board of a carriage: used as a cover to the apron when the latter is folded.

apronful (a'prun-ful), n. [apron + -ful.] As clear.] Same as auramine. much as can be held in an apron; as, "an apyrene (ap'ī-rēn), n. [Gr. a-priv., without, nuch as can be held in an apron; as, "an aprontal of flowers," Miss Braddon.

apron-hook (ā'prun-hūk), n. A short hook

with an eye by which it is secured to the dash abnormal or unusual forms of spermatozoa. of a carriage. Together with a ring, it holds apprite (a-pi'rit), n. [Gr. a-priv. $+ \pi v \rho$, fire, the apron in place when folded. $+ ute^2$.] A refractory substance containing

apron-plate (ā'prun-plāt), n. Same as *upron.

aprosexia (ap-rō-sek'si-ii), n. [Nl., \langle Gir. A. Q. M. G. An abbreviation of Assistant apposexia, inattention, \langle a- priv. $+ \pi \rho \phi \sigma \varepsilon x \varphi c$, attention, \langle $\pi \rho \sigma \sigma \varepsilon x \varphi c \varphi c$, attention, \langle $\pi \rho \sigma \sigma \varepsilon x \varphi c \varphi c$, attention, \langle $\pi \rho \sigma \varepsilon x \varphi c \varphi c \varphi c$, attention, \langle $\pi \rho \sigma \varepsilon x \varphi c \varphi c \varphi c \varphi c \varphi c \varphi c$, and alternion of an essential oil or gas in water, a solution of any other keep the attention fixed on any subject; an substance being termed liquor. In the British aprosexia (ap-rō-sek'si-ä), n. extreme degree of mind-wandering. Med. Handbook, VI. 112.

Apseudes (ap-sū'dēz), n. [NL., \langle Gr. $\dot{a}\psi \epsilon \nu \delta \dot{p}_{\ell}$, without deceit, \langle \dot{a} - priv. + $\psi \epsilon \nu \delta o_{\ell}$, lie, deceit: see pseudo-.] The typical genus of the family Apseudidæ. Leach, 1814.

Apseudidæ (ap-sū'di-dē), n. pl. [NL., ⟨ Ap-seudes + -idæ.] A small family of cheliferous Isopoda, having the body depressed, the carapage with a well-depth of the carapage wit Apseudidæ (ap-sū'di-dē), n. pl. page with a well-developed rostrum, and the first antennæ with two many-jointed flagella. The typical genus is Apscudes.

Apsilus (ap-si'lus), n. [NL., ζ Gr. ά- priv. + ψά/ός, smooth.] A genus of snappers of the family Latianidæ, found in tropical seas and often handsomely colored.

apterion (ap-terri-on), n.; pl. apteria (-a).

Same as apterium.

apteros (ap'te-ros), a. [Gr. ἀπτερος, wingless.] Wingless: an epithet of Nike (Victory) as represented, unusually, without wings (signifying that she did not intend to leave the precinct favored by her presence). There was a temple of Nike Apteros at Athens. See eut under Ionic.

Apterura (ap-te-rū'rā), u. pl. Apternra (ap-te-ru'ra), u, pl. [NL., \langle Gr. $\dot{a}\pi\tau\nu\rho\sigma_{c}$, wingless, $+\dot{o}\nu\rho\dot{a}$, tail.] A division of anomurous crustaceans in which the appendages of the sixth segment of the pleon are not expanded and wing-like: contrasted with $Pteru ilde{a}ura.$

Apterygogenea (ap-ter/i-go-jen/e-ä), [NL., $\langle \text{Gr. }\hat{\alpha} - \text{priv.} + \pi \tau \hat{\epsilon} \rho v \hat{\epsilon} (\pi \tau \hat{\epsilon} \rho v \gamma^{-}), \text{wing, } + -\gamma \iota \tau \hat{\epsilon} \rho, \text{producing.}]$ In Brauer's classification, one of two principal divisions of the class *Insecta*, the other being the *Pterygogenea*. It includes only the order Thysanura (Aptera of Sharp's system).

Apterygota (ap-ter-i-gō'tä), $n.\ pl.\ [NL., < Gr.\ a-\ priv. + \pi\tau\epsilon\rho\nu\rangle\sigma r\delta c,$ winged, $< \pi\tau\epsilon\rho\nu\xi$, wing.] A group of insects including only the order Thysanura, which contains wingless forms only that are supposed to have de-

scended from wingless aneestors.

apterygotism (ap-ter-i-go'tizm), n. [uptery-got(ons) + -ism.] In entom., the state of being wingless and also of being descended from wingless ancestors.

apterygotous (ap-ter-l-gō/tus). a. [Gr. ά- priv. + πτερυγωτός, winged.] In entom., without wings and derived probably from wingless ancestors, as the Thysanura and Collembola.

Were an apteryyotous insect gradually to develop wings, Were an aptergotous inscensionally in the would be on the exopterygotous system.

Energe, Brit., XXIX. 502.

Aptian (ap'ti-an), a. and n. [Apt in Vaucluse, France.] In geol., noting a geologie stage or division at the top of the Lower Cretaceous formation in France and Belgium. It comprises marls, clays, and impure limestones, and in places attains a thickness of 1,800 feet, divisible into an upper and a lower group and abounding in fossils.

aptyalia (ap-ti-ā/li- \ddot{a}). n. [Gr. * $\dot{a}\pi\tau ia\bar{a}o\varsigma$, without spittle, \dot{a} -priv. + $\pi\tau ia\bar{a}o\varsigma$, spittle.] Same as *aptyalism.

aptyalism (ap-ti'a-lizm), n. [See aptyalia.]

salivary secretion

Aptychus beds, rock strata in the Alps of Upper Jurassic Aquia Creek group. See *group1.

age characterized by the abundance of aptychi. See anticolong(a-kwik'ā-line) a [1]. a

apyknomorphous (a-pik-nō-môr'fus), a. [Gr. $\frac{\partial \pi}{\partial \tau}$ wroc, not dense (ζ $\frac{\partial \tau}{\partial \tau}$). + $\frac{\partial \pi}{\partial \tau}$ wroc, dense), + $\frac{\partial \pi}{\partial \tau}$, form.] Noting the character of a cell which, in consequence of the fact that its chromatic or staining element is not compactly arranged, takes the ordinary dyes less readily than is usual, or irregularly.

In others, the chromatic elements are more loosely distributed, and these cells, staining less intensely, are said to be in the apyknomorphous condition.

F. R. Bailey, in Jour. Exper. Med., V. 553.

apyonime (a-pi'ō-nim), n. [Formation not

 $\pi v \rho \eta v$, the stone of a fruit (nucleus).] Deficient in nuclear substance; noting certain

about 93 per cent. of silica: used at some German iron-works for furnace-linings.

pharmacopæia, only a solution of an essential oil is ealled aqua, that of a gas being called liquor.- Aqua dolee sauce. See *sauce.- Aqua fontis, in phar., spring water.- Aqua pura, in phur., pure water (distilled water).

aquacultural (ā-kwa-kul'tūr-al), a. Relating or pertaining to the production of fish and other sea, lake, and river food-stuffs; piseieultural: as, an aquaeultural experiment-station. Aquæductus cerebri, the infundibulum of the brain.— Aquæductus Cotunnii. Same as aquæductus vestibuli.

aquamanile (ak"wa-ma-nī'lē), n. [ML., also uquæmunile, etc.] Same as aquæmanale. aquamarine-chrysolite (ā"kwa-ma-rēn'kris'-ō-līt), n. The pale-yellow variety of beryl (aquamarine).

aquarial (a-kwā'ri-al), a. Same as aquarian.

aquarian, n. 2. One who keeps an aquarium. [Rare.] N. E. D.
Aquarid (a-kwā'rid), n. Same as *Aquariid.

Aquarii (a-kwa ri-1), n. pl. [See Aquarius.] A aquintocubital (a-kwin-tō-kū bi-tal), a. sect of the early church who used water inlater, partly amended form of aquinculi stead of wine in the Lord's Supper. * Abstemii.

Aquariid (a-kwā'ri-id), n. [Aquari(ns) + -id².]
One of the meteors of the flock which about
May 4 radiate from the constellation of Aquarius.

aquate (ā'kwāt), n. [NL. *aquatum, < L. aqua,

aquate (a'kwât), n. [NL. "aquatum, \ L. aqua, water.] In chem., same as hydrate.

aquatic, u.—Aquatic plants, in hort., those plants which are grown continuously in water, as in ponds and aquaria. Typical examples are the water-lilles. In looser usage the term is sometimes applied to species that grow in logs or other very wet places as well as to those that grow only in water of greater or less depth. Most aquatic plants are permanently attached to the earth or rocks at the bottom of the water, but some of them eventually break loose and for a part of their existence may float free.

aquation (a-kwā'shon), n. [L. aquatio(n-), < aquari, bring or feich water, < aqua, water.] The procurement of a supply of water: as, "conveniently situated for aquation." Gibson, Camden's Brit.—2. Disposal of the dead by sea-burial. Sci. Amer., Jan. 7, 1899. [Rare in both uses.]

aquativeness (a-kwat'iv-nes), n. [*aquative (< L. aquari, get water) + -ness.] In phren., a propensity for water.

aquavalent (ā-kwa-vā'lent), n. [L. aqua, water, + E. ralent.] In chem., the proportion of water, eounted by molecules, which is of water, counted by molecules, which is needed by a single molecule of a salt to form with it a eryohydrate.

aqueoglacial (ā'kwē-ō-glā'shial), a. [aqueo(us) + ylacial.] Formed or aeted upon by glacial ice or water from glacial streams, or exhibiting characters which show the influence of

both. J. Geikie, The Great Ice Age, p. 418. aqueo-igneous (ā"kwē-ō-ig'nē-us), a. In geo In geol., resulting from the action of heat in the presence of much steam or of its dissociated elements: applied to those rocks which, like pegmatite, exhibit the effects both of igneous action and of aqueous solution.

Aqueous chambers of the eye. See chambers of the eye, under chamber. — Aqueous extract, in phar., an extract

made by evaporating a watery solution of the drug.—Aqueous lava. Same as moya.

aquicolous (a-kwik'ō-lus), a. [L. aqua, water, + colere, dwell in: see cult.] Inhabiting the

The larvæ possess a prohose is armed with hooks and bore into the body cavity of aquicolous insect larvæ, or rarely mollusks, where they encyst.

Buck, Med. Handbook, VI. 224.

aquifer (ak'wi-fer), n. [L. aqua, water, + -fer, ferre, bear.] In gcol., a water-bearing bed or stratum, necessarily of some open-textured

The artesian system shows four or five aguifers, or water-bearing strata, more or less completely separated from one another.

Science, Nov. 22, 1901, p. 794.

Aquifoliaceæ (ak"wi-fō-li-ā'sē-ē), n. nl. Aquifoliaceæ (ak"wi-fō-li-ā'sē-ē), n. pl. [LL. (A. P. de Candolle, 1813), \(\) Aquifolium, Tourner fort's name for the genus \(Ilex\) (\(\) L. \(aqua\), water, \(+ folium\), leaf). \[\] A family of dicotyledonous, ehoripetalous plants of the order Sapindules, the holly family. It is characterized by regular polygamodiocious flowers, berry-like drupes, and simple alternate leaves mostly without stipules. They are trees or shrubs with watery sap. The family embraces four genera, of which only \(Ilex\) is specially important. See \(Ilex\) and \(Nemopanthes. \(a\text{out} \) (a. \(\) [NL. \(a\text{out} \)]

aquifoliaceous (ak wi-fō-li-ā'shius), a. [NL. Aquifoliace + -ous.] Belonging to the plant

family Aquifoliaceæ.

aquilin, a. A simplified spelling of aquiline. aquilino (\(\bar{a} - \text{kwi} - \bar{b}' n \bar{0}\), n. [It.: see aquila.] A small silver coin, bearing an eagle, which was struck in Padua during the republican epoeh (1200-1300).

aquiloid (ak'wi-loid), a. [L. aquila, eagle, + eldor, form.] Resembling an aquiline form; noting particularly a nose which resembles in form an aquiline nose. Keune, Man Past and Present, p. 470.

Aquilonian (ak-wi-lô'ni-an), a. and n. [See aquilon.] In geol., noting a division of the Jurassic formation in the Syzran district of

Gr. a- priv. + L. quin(tus), fifth, + eubtius, forearm, + -all.] Noting that condition of a bird's wing in which the fifth secondary is absent, although the coverts are present. Wray, Proc. Zool. Soc. London, 1887, p. 348.

later, partly amended form of aquincubital. Pyeraft, 1899.

aquintocubitalism (a-kwin-tō-kū'bi-tal-izm), n. In ornith., the state or condition of lacking the fifth secondary. Also ealled diastatary. Trans. Linnean Soc. London, Zoöl., Oct., 1901, p. 221.

aquiparous (a-kwip'a-rus), a. [L. aqua, water, + parere, produce.] Producing water: applied to the parotid glands, which secrete a thinner fluid than the other salivary glands.

Aquitanian, a. and n. 2. In geol., noting a division or stage in the Tertiary formations of the Paris basin representing the latest Oligocene. The deposits of this stage were essentially lacustrine, and the fossils are fresh-water and terrestrial mollusks, especially *Helix*, together with the remains of *Rhinoceros* and other mammals.

aquo-igneous (ā-kwō-ig'nē-us), a. Same as *aqueo-igneous

ar, v. A simplified spelling of are.

Ar₀, Ar₁, Ar₂, Ar₃, etc. Points of flexure in the curves of cooling of iron and steel. A. R. A. An abbreviation of Associate of the Royal Academy.

Same as arabin. Jour.

araban (ar'a-ban), n. Same Soc. Chem. Industry, XI. 931. Arabellites (ar-a-bc-li'tez), n. [NL. Arabella, a genus of worms, + -ites.] A genus of fossil worms based on detached jaws which are pre-

served as black and highly lustrous objects, and which are occasionally found in sets of like pairs. They are very variable in form, and certain phases of them have been referred to other genera, as Eunicites, Enonites, Polygnathus, and Prioniodus: found throughout the Paleozole rocks.

a rabesche (ä rä-bes'ke). [It.] With arabesques: said of decoration with motives of arabesque form usually painted on a light ground, frequently seen on the majolica wares of Genoa and Venice.

arabesquely (ar'a-besk-li), adv. In the style of the Arabians. [Rare.] N. E. D.

Arabesquely shapen barks of Carthaginian lands.

Arabianize (a-rā'bi-an-īz), v. t.; pret. and pp. Arabianized, ppr. Arabianizing. To make Arabian; to assimilate to Arabian form and usage.

It is probable that the Persian Persianized in this way neighboring tongues, that the Arabian Arabianized them. Tarde (trans.), Laws of Imitation, p. 258.

Arabicism (a-rab'i-sizm), n. [Arabic + -ism.]

Arabic pottery.

Arabin potenty.

Arabin potenty.

A compound, C₁₀H₁₈O₉, intermediate between arabin and arabinose, as dextrine is intermediate. diate between starch and glucose. It is syrupy

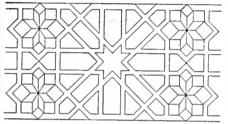
and sweet.

arabite (ar'a-bit), n. $[arab(in) + -ite^2]$. A pentacid alcohol, $C_5H_7(OH)_5$, formed by the reduction of arabinose. It is an optically inactive compound, sweet, and soluble in water.

arabonic (ar-a-bon'ik), a. Noting an acid, $C_5H_{10}O_6$, formed by the oxidation of arabinose with bromine. It is monobasic, and the optically active form malts at 800 C.

cally active form melts at 89° C.

arabotedesco (ar"a-bō-te-des'kō), a. [It., 'Arabie-German': see Arab and Dutch.] Having, or supposed to have, the characteristics at once of Saracenic and of German building or



Arabotedesco Mosaio From the Royal Chapel, Palermo

design: applied to Romanesque of the more florid sort and suggested by the use of the German Byzantinisch for the German roundarched building.

An abbreviation of Associate of the Royal Academy of Music.

aramaca (ä"rä-mä-kä'). n. [Tupi aramaca.] A Brazilian name of a wide-evod flowed arched building.

German Byzantinisch for the German roundarched building.

Araby (ar'a-bi), a. and n. [ME. Araby, < OF. Arabi, < L. Arabius: see Arabian.] I. a. Arabian; Arabie: as, "the Arabye language," Arnold's Chronicle, p. 158. [Now only poetic.]

II. n. 1. A native of Arabia. Trevisa.—2.

An Arabian horse.

Elfaydes, and Arrabys, and olifauntez noble.

Morte d'Arthur, l. 2288. N. E. D.

araça (ä-rä-sä'), n. [Tupi araça.] A general name in Brazil of several varieties of guava, shrubs or trees of the genus *Psidium*, distinguished by qualifying words: as, araça-guazu aranga (ii-rān'gii), n. [Sp. aranga, from a na-(P. Guajava), araça-iba (P. Araca), araça-ivo name (in Tayabas province?).] In the mirim (P. Araca), and araça de Praya (P. Philippine Islands, a large forest-tree, Homa-Cattleyanum).

arachic (a-rak'ik), a. [Arachis + -ic.] Same as arachime.

arachinic (ar-a-kin'ik), a. Pertaining to or derived from the earth-nut, Arachis hypogæa: as, arachinic acid.

arachnean (a-rak'nệ-an), α. [Gr. ἀραχναίος, Κάράχνη, a spider.] Of the nature of or re-

sembling a spider's web in texture.

Arachnites (ar-ak-ni'tēz), n. [NL. (F. W. Schmidt, 1793), in allusion to the form of the flowers, \ Gr. ἀραχνίτης, spider-like, \ άράχνη, spider.] A genus of orchidaceous plants allied to Orchis: characterized by two pollen-glands inclosed in separate sacs. The genus is impreperly called Ophrys by many authors. See Ophrys.

Arachnoidinæ (a-rak-noi-dī'nē), n. pl. [NL. Arachnoidius (a genns of coleoptera) + -ina.] A group of Clypeastridæ, containing the low,

flat forms with open petals.

arachnophagous (ar-ak-nof'a-gus), α. [Gr. αράχνη, a spider, + φαγείν, eat.] Spider-eating; feeding upon spiders or other arachnids: said of some birds.

arada (ä-rä'dä), n. [Sp., < arar, < L. arare, plow.] Plowed or cultivated land; arable land. [Southwestern U. S.]

Aragallus (ar-a-gal'us), n. [NL. (Necker, 1790), appar. an anagram or an analogical Aragallus (ar-a-gal'us), n. fernation from Astragallus, a form used by the same author for Astragallus.] A genus of dicotyledonous plants of the family Fabaceæ. See Oxytropis.

Arago-Davy photometer. See *photometer. Aragonite group, the isomorphous orthorhombic

species: aragonite, CaCO₃: bromlite, (Ca, Ba)CO₃; witherite, BaCO₃; strontianite, SrCO₂; and cerusite, PbCO₂. **Arago's law of polarization.** See *polariza-

araguane (ä-rä-gwä'nā), n. [Native name in Venezuela.] In Venezuela, a tree of the big-nonia family, *Tecoma spectabilis*, yielding a very hard wood of a dark-olive color.

Arabicism (a-rab i-sizm), n. [ΔΙασίο i -tom.] very naru wood of a dark-onve color. A word, idiom, or expression peculiar to Arabic. Southey.

Arabic pottery. See *pottery.

See *pottery.

Very naru wood of a dark-onve color.

araiocardia (a-rā-ō-kār'di-ā), n. [NL., < Gr. apaúc, thin, porous, with intervals, + καρδία, heart.] Same as *brachycardia. Lancet, Aug.

22, 1903, p. 529.

Arales (a-rā'lēz), n. pl. [NL. (Lindley, 1833), (Arum + -ales.) An order of monoeotyledonous plants embracing the families Araceæ and Lemnaceæ (which see). The inflorescence is new ally a spadix inclosed in a spathe, whence the name Spathifloræ, but it is sometimes naked. In Lindley's system the aral alliance included also the Pandanaceæ and Ty-

phacee.
araliad (a-rā'li-ad), n. [NL. Aralia, + -adl.]
A plant of the family Araliacee.
aralie (ä-rā-lē'), n. [F. form of a native name (!) Cf. Aralia.] A name in the West Indies of two parasitic trees, Clusia alba and C. rosca. Also called Scotch attorney, stranglerrece, marderer-tree, *chigoe-poison, and *capay.
See the last two names and Clusia.

araliin (a-rā'li-in), n. [Aralia + -in².] A

crystalline glucoside of unknown composition

crystalline glucoside of unknown composition found in Aralia spinosa.

Aralo-Caspian (ā"ra-lō-kas'pi-an), a. Of or pertaining to the Āral and Caspian Seas.—
Aralo-Caspian basin, the original area of sea-water cut off from the ancient and greater Mediterranean by the uprising of its floor in recent geologic times, and embracing the present Caspian Sea, the Sea of Aral, and the extensive salt-lagoons and marshes about them. The waters of these seas are still tenanted by seals and other animals elsewhere inhabiting the ocean. The Black Sea had a similar origin, but has been separated from the Caspian region, and the ridge that divides it from the Mediterranean has been cut through so that it now communicates therewith. It is believed that the Caspian and Aral Seas are still shrinking by evaporation.

A. R. A. M. An abbreviation of Associate of

A. R. A. M. An abbreviation of Associate of

Aramigus (a-ram'i-gus), n. [NL. (Horn, 1876). formation not obvious.] A genus of otiorhynchid beetles. It contains two North American species, one of which, A. fulleri, is a serious enemy to the rose, its larve living on the roots, while the adults feed on the foliage and flowers. See cut under rose-beetle.

aramina (ä-rä-mē'nä), n. [Brazilian Pg., < Pg.

arame, wire.] The commercial name in Brazil of the fiber obtained from the guaxima or cæsar-weed, I rena lobata. It is white and strong, and is considered a good substitute for jute in the mannfacture of sacking and twine. See *cæsar-weed, *yuaxi-na, and Urena.

linn Luzoniense, of the Flacourtia family, which yields straight logs often 75 feet long. The wood is hard and durable, of a reddish color streaked with violet, and is used for building purposes, eabinetwork, and the piles of wharves. It has the property of resisting the attacks of ship-worms.

Aran's ether. Same as ethylidene *chlorid.

Aran setner. Same as ethyludene *chlorid. Arapaho group. See *group!.

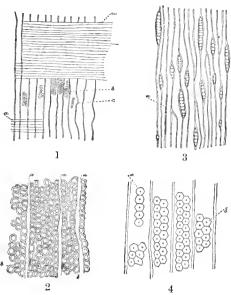
Arapaimidæ (ar-a-pi'mi-dē), n. pl. [NL., < Arapaima + -idæ.] A family of osteoglossoid fishes found in fresh waters of the tropics. It includes the gigantic Arapaima gigas, which reaches a length of 15 feet and a weight of 400 pounds and is an important food-fish.

arara, n. 2. A fish, Hæmulon plumieri, found in abundance from Rio Janiere to Cape Hat-

arariba (ä-rä"rē-bä'), n. [Tnpi *araribá, < Tupi arara, parrot, + -iba, fruit, tree.] A leguminous tree of Brazil, Centrolobium robustum, the beautiful striped wood of which is one of the kinds known as zebra-wood. Also called araroba.

araticu (ä-rii-te-kö'), n. [Native name in Brazil.] In Brazil, one of several trees, belonging to the genus Anona and to the related genus Rollinia, which bear edible fruits: as. aratica do brejo (A. palustris), aratica do rio (A. spinescens), and aratica do mato (R. sylvatica).

Araucarioxylon (ar/a-kā-ri-ok/si-len), n. [NL. (Kraus, 1870), < Araucaria + Gr. ξύλον, wood.] A genus of fossil coniferous plants, based entirely on the internal structure of the wood, which has not been connected with other parts, and which agrees in most respects with that of Araucaria. The leading character is the hexagonal



Araucarioxylon Virginianum. From the Trias of Taylorsville, Virginia.

1. Radial section: a, a, medullary rays; b, tracheids with two rows of hexagonal pits: c, walls of tracheids dislocated by pressure.

2. Transverse section: a, a, a, medullary rays; b, b, intercellular spaces. es. Tangential section: a, sections of bordered pits on radial

walls.
4. Radial section further enlarged: a, single row of rounded pits; b, double row of hexagonal pits.

areolate punctations of the tracheïds shown in radial section, which are always in two or more rows. The genus is properly Mesozoic, and chiefly Triassic, but certain Paleozoic forms have been referred to it. See Dadoxylon, Pinites, and fossil wood (a), under wood!

araxina (ä-rä-shē'nä), n. [Native name.] A name applied to a tree of southern Brazil, Vochy gummiferum, which yields large quantities ties of a useful gum, similar in appearance and properties to gum arabic.

arbacin (är'ba-sin), n. [Arbacia + -in².] A histon obtained from the spermatozoa of Arbacia pustulosa. Simon, Physiological Chem., p. 71.

Arbacina (är-ba-sī'nä), n. pl. [NL., \(Arbacia + -ina^2. \)] A suborder of Diademoida containing echinoids in which the ambulaeral plates are simple primaries near the apical area, while at the ambitus they are compound. The interambulacial plates and the peristome are

Arbaciosa (är-bā-si-ō'sä), n. [NL., < Arbacia + -osa.] A genus of cling-fishes of the family Gobiesocidæ. They live in rock-pools with the sea-urchin, Arbacia, which the fishes mimic in coler.

arbalistry (är'ba-lis-tri), n. [Also arbalestry; as arbalist + -ry.] The art of shooting with the arbalist.

arbelon (är-bē'lon), n. [Gr. * $\dot{a}\rho\beta\eta\bar{\rho}o\nu$, otherwise $\dot{a}\rho\beta\eta\bar{\rho}o\nu$.] In Greek use, a peculiar ax-shaped, round-edged knife employed in working leather. A symbol similar to the arbelon is often found in Cretan pictographs and gems.

This symbol which is the most frequent of all, occurring no less than eleven times in the present series, may represent an instrument like an arbelon—for cutting leather. A. J. Evans, in Jour. Hellenie Studies, XIV.

arbitragist (ar'bi-trā-jist), n. [arbitrage + ist.] On exchange, one who carries on an arbitrage business.

arbor², n. 5. A platform of boards upon which sea-island cotton is dried to prevent heating and improve the luster. [Islands of South Carolina.

arborean (ar-bō'rē-an), a. Same as arboreal, arborescent, a. 2. In bacteriol., specifically arborescent, a. 2. In bacterial, specifically applied to the branched, tree-like colony formed by certain bacteria in stab-cultures.

arborescently (ar-be-res'ent-li), adv. In the manner of an arborescent plant; branchingly, arborize, v. II. intrans. To divide into numerous branches.

One limb of each fibre turning caudad, . . . finally to arborize about the cells of the spinal nucleus associated with this tract.

Buck, Med. Handbook, I. 632.

arboroid (är'bo-roid), a. [L. arbor, tree, + Gr. $\epsilon idoc$, form.] Tree-like or bush-like in shape: as, an arboroid colony of Protozoa.

arborolater (är-bo-rol'a-tèr). n. [L. arbor, a tree, + -o-later as in idolater.] A tree-wor-

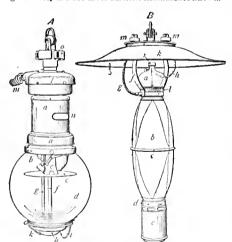
arbor-press (är'bor-pres"), n. See *mandrel-

arbor-press (är'bor-pres"), n. See *mandrel-press.

Arbroath flags. See *flag4.

arbustum, n. 2. A woody branching plant without a distinct trunk.—3. A treatise on the woody plants of any region: a sylva.

Arc rectifier. See *rectifier (e).—Arcs of parallel, portions of a parallel of latitude on the earth's surface measured both astronomically and geodetically, in order to determine the length of a degree of longitude in that latitude. Such arcs furnish data for determining the dimensions of the earth.—Arc-spectrum. See *spectrum.—Bigonial arc, in anthrop, the arc which extends along the inferior border of the lower jaw from one gonion to the other.—Brocard arcs. If 02 and 07 are the Brocard points of the triangle ABC, then the arcs AOC, AO'B, BOA, BOC, COB, and CO'A are the Brocard arcos of the triangle.—Crater of an arc, in elect. Same as crater, 6.—Electric arc, the passage of current across the gap between two conductors or terminals, through a bridge of conducting vapors consisting of and continuously replenished by the material of the electrodes. The arc must be started hy forming this vapor-bridge, which is usually done by bringing the electrodes into contact and then withdrawing them from each other. The mechanism for this, and for maintaining the electrodes at a constant distance from each other, is called an arc-lamp. The voltage consumed by an are is usually moderate, being from 40 to 80 volts. The temperature of the arc-stream is the boiling-point of the electrodes, hence it is extremely high with carbon terminals, so that these terminals, and especially the positive, get very hot and luminous. The electric are between carbons is therefore used for illumination in the carbon arc-lamp. With free access of air these carbon terminals rapidly consume, and therefore have to be replaced daily in the open arc-lamp, the arc is surrounded by an inner globe which incloses it almost air-tight, so that the life of the carbons is increased about tenfold and they have to be renewed less frequently. The arc makes



A. Magnetite Arc-lamp.

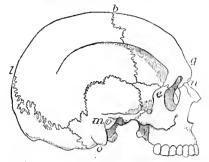
a. outer casing the following the control of globe; e, chinney; f, negative electrode; g, electrode holder; h, ash-pan; t, ash-anchain; k, ash-pan spring; l, body-casting; m, leads; m, namelate; o, wind-shield.

B. Mercury Arc-lamp.

a, arc-tube; b, holophane globe; c, guard; d, solenoid cap; c, solenoid case; f, shade-support; g, negative lead; h, positive lead; r, positive lamp terminal; k, reflector; l, ventilator screen; m, m, hood terminals.

Flame-arc. See electric *arc.—Frontal arc, in anthrop., an arc extending from the nasion to the bregma over the surface of the frontal bonc.—Length of an arc. Assume that with every arc is connected a sect auch that if an arc be cut into 2 arcs, this sect is the sum of their sects; moreover, this sect is not less than the

chord of the arc, nor, if the arc be minor, is it greater than the sum of the sects on the tangents from the extremities of the arc to their intersection; this sect itself, or its length, may be called the length of the arc.—Luminous arc. See electric *arc.—Magnetite arc-lamp. See electric *arc.—Maximum transverse arc, in anthrop., an arc extending transversely over the skull between the external auditory meatus.—Mercury arc. See electric *arc.—Nasomalar arc, in anthrop., a. arc between the onter margins of the orbits over the nasion.—Occipital arc, in anthrop., an arc extending from the lambda to the opisthion.—Parietal arc, in anthrop., an arc extending



 $m \ \delta \ m'$, maximum transverse arc; $e \ n \ e'$, nasomalar arc; occipital arc; $\delta \ \ell$, parietal arc; $m \ g \ m'$, pre-auricular arc; frontal arc; $n \ \delta \ \ell \delta$, sagittal arc. $(e' \ and \ m')$ are the point the left side corresponding respectively to $e \ and \ m$.) the points on

from the brogma to the lambda.—Pre-anricular are in from the bregma to the lambda.—Pre-auricular are, in anthrop., an are extending from the external auditory meatus over the glabella.—Reflex are, in physiol., the course of nervous action originating in the periphery, where the stimulus is applied, traversing the afferent nerve to the spinal-cord center, and then passing outward along the efferent nerve to the organ or muscle where the reflex act takes place.—Sagittal are, in anthrop., an are extending from the masion over the bregma and lambda to the opisthion.—Supra-auricular arc, in anthrop., an are extending transversely over the skull from the superior borders of the external anditory processes.—Total horizontal arc, in anthrop., the horizontal circumference of the skull taken at the height of the glabella.

height of the glabella.

Arcacea (är-kā'sē-ä), n. pl. [NL., < Arca (a genus of mollusks) + -acea.] A group of asiphonate, bivalve mollusks of the order Fitias phonate, bivarve moritisks of the order riti-branchiata. They have the mantle edge open; 2 well-developed adductors; heart with 2 aortæ; branchiæ free, without interlamellar junctions; and the renal and generative apertures distinct. The group includes the families Arcadæ and Trigoniidæ. Arca clay. See *ctay. arcade, n. 5. In anat. and zoöl., those por-tions of the cranium having an arch-like struc-

the orbital region. The inferior temporal areade corresponds to the zygoma of mammals and is largely or entirely formed by the squamosal and jugal. The superior areade, lacking in most vertebrates, is formed by the postorbital. A. S. Woodward, Vertebrate Palæontol, p. 144. See cuts under *Diaprida and *Synapsida. ture and running from the postero-external to

Arcadianly (är-kā'di-an-li), adv. In Arcadian fashion; to or toward Arcadianism.

If Arcadianly given, he might fancy the yellow butter-ups were asphodel. Froude, Carlyle, II. 152. cups were asphodel.

arcading (är-kā'ding), n. Construction or decoration by means of arcades, as in Romanesque and Gothic architecture, where arcading is a common adornment and also increases the rigidity of the walls.

arcanite (är'ka-nīt), n. $[arcanum + -ite^2.]$ Native potassium sulphate crystallizing in the orthorhombic system.

arcato (är-kä'tő), a. [It., 'bowed,' (arco, a bow: see arch'.] Bowed: in music for bowed instruments, marking passages to be played with the bow: opposed to pizzicato.

Arcestes (är-ses'tēz), n. [NL.; origin not obvious.] The typical genus of the family

Arcestida.

Arcestidæ (är-ses'ti-dē), n. pl. [NL., \(Arcestes + \) -idæ.] A family of ammonites having -idæ.] smooth and deeply involute shells with contracted outer whorl and phylliform septal sutures. The species are chiefly Triassic.

tures. The species are chiefly Triassic.

arch¹, n.—Braced arch, an arch of articulated members of timber, iron, or steel, kept in position by articulated bracing above the arch and usually extending up to the horizontal top-member on a level with or slightly above the crown of the arch.—Carpal arches. See ★carpal.—Chord of an arch.—Sec ★chord.—Compound arch, an arch made up of several rings of voussoirs, each projecting beyond that next below, so that the section is in steps. Compare compound ★pier.—Dry arch, an arch built of voussoirs without mortar: peculiar care in fitting and setting the stones is required.—Hyoid arch. See ★hyoid.—Imperfect arch, an arch the first sign or altitude of which is less than half its span. Also called diminished arch and skene arch. [Not in use among builders or technical writers.]—Maxillojugal arch, in ornith, the slender bar of bone running from the besk to the quadrate, composed of the maxillary, jugal, and quadratojugal bones. Proc. Zool. Soc. London, 1903, 1. 265.—Parahyal arch, in some parrots (notably the

archæopsychism

lories), a slender loop of bone formed by the union of two processes (parahyal processes) directed forward, upward, and at their ends inward from the superior face of the posterior portion of the bashyal.—Precoracoid arch, a bony arch found in the salmon, carp, and most other soft-rayed fishes, en the inside of the shoulder-girdle, near the base of the clavicle. 'Also called mesocoracoid arch.—Relieving arch. Same as arch of discharge (which see, under arch!).—Straight arch. Same as slat arch (which see, under rampant).—Straight arch. Same as slat arch (which see, under arch!).—Subocular arch, the inverted arch of cartilage which extends downward and ontward from the basal plate of the cranium of the lamprey, forming a support for the eye. Parker and Haswell, Textbook of Zool., II. 118.—Twilight arch. See twitight bow, under *bow2*.

Archæan, a.—Archæan protaxis, that portion of

Archæan, a.—Archæan protaxis, that portion of North America, consisting of the most ancient rocks, about which as an axis the later sediments were deposited. Geog. Jour. (R. G. S.), XIII. 231.

Archæic (är-kē'ik), a. Same as archæan. Archæochelys (är'kē-ok'ē-lis), n. [NL., < Gr. aρχαίος, ancient, + χένς, a tortoise.] A genus of chelonians or turtles, from the English Wealden formation, in which the paired shields of the plastron were separated by a median series of azygons shields extending backward from the intergular to the extremity of the xiphiplastral.

Archæocidaridæ (är kē-ō-si-dar i-dē), n. pl. [NL., < Archæocidaris + -idæ.] A family of extinct sea-urchins, or Palæocchinoidea, with a spherical test in which the ambulacra are narrow, two rows of perforated ambulacral plates, and interambulacrals beveled and frequently with strong spines. They occur only in the Paleozoic formations.

Archæocyathidæ (är"kē-ō-sī-ath'i-dē), n. pl.

[NL., \langle Gr. $\dot{a}\rho\chi a\bar{a}o\zeta$, ancient, $+\kappa\dot{\nu}a\theta\sigma\zeta$, a cup, $+-id\varkappa$.] A family of fossils from the Cambrian rocks, originally regarded as sponges but now construed as a generalized type of perforate *Hexacoratia*, having a simple turbinate form, porous septa and onter wall, and a distinct inner wall which leaves an empty central tube or cone.

Archæocyathus (är'κē-ō-sī'a-thus), n. [NL ⟨ Gr. ἀρχαίος, ancient, + κὐαθος, cup.] The typical genus of the family Archæocyathidæ.

archæocyte (är'kē-ō-sit), n. [Gr. $\dot{a}\rho\chi aio\varsigma$, primitive, + $\kappa i\tau o\varsigma$, a hollow (a cell).] In embryol., one of the undifferentiated blastomeres of the sponge embryo which give rise to the wandering and reproductive cells of the adult organism.

The archæocytes may be considered from two points of view: first, as wandering cells, or annebocytes; secondly, as reproductive cells, or tokocytes. These two categories are not, however, to be regarded as two distinct classes of cells, but simply as two different phases in the activity of one and the same kind of cell.

E. R. Lankester, Treatise on Zool, IL 58.

archæographic (är-kē-ō-graf'ik), a. Of or pertaining to archæography or the description of antiquities.

Archæohyracidæ (är*kē-ō-hī-ras'i-dē), n. pl. [NL., ⟨Archæohyrax, the type genus (⟨Gr. aρχαίος, ancient, + ὑραξ, shrew), + -idæ.] A family of extinct ungulates of small size and supposedly related to the existing hyrax, Procavia, from the Miocene of Patagonia. Ameghino, 1897.

archæolithic (är"kē-ō-lith'ik), a. [Gr. ἀρχαῖος, ancient, + λίθος, stone.] Of or pertaining to the earliest stone age.

archæomorphic (är/kē-ō-môr'fik), a. $a\rho\chi aio\varsigma$, ancient, $+\mu o\rho\phi\eta$, form.] In petrog., a term applied to rocks of which the component mineral particles have been formed in place and have retained their original form. Unaltered igneous rocks are archæomorphic as contrasted with metamorphic rocks.

archæontological (är-kē-on-tō-loj'i-kal), a. Of or pertaining to archeontology.

archæontology (är κ- on-tol - j- ji), n. [Gr. aρχαίος, ancient, + ων (οντ-), being, + -λογία, ⟨λέγειν, speak.] Archæology which deals with the remotest antiquity or with prehistoric man.

Archæopithecidæ (är"kē-ō-pi-thes'i-dō), n. pl. [NL., \langle Archæopithecus, the type genus (\langle Gr. $a\rho\chi aio_{\zeta}$, primitive, $+\pi i\theta\eta\kappa o_{\zeta}$, ape), +-idx.] A family of extinct primitive primates, of moderate size, whose bones occur in the Miocene (?) of Patagonia. Ameghino, 1897.

Archæoplax (är'kē-ō-plaks), n. [Gr. $\dot{a}\rho\chi aio\varsigma$, ancient, $+\pi\lambda d\xi$, something flat, a plank.] A genus of fossil crabs from the Miocene Tertiary formation at Gay Head, Massachusetts.

archæopsychism (är"kē-op-sī'kizm), n. [Gr. $\dot{a}\rho\chi a\tilde{\iota}o\varsigma$, ancient, $+\psi v\chi\eta$, mind, + E. -ism.] A

vestigial mental function; a mental process which is atavistically conditioned. G. S. Hall, Adolescence, II. 65.

Archæopteris (ärkē-op'te-ris), n. [NL. (Dawson, 1871), ζGr. ἀρχαίος, ancient, + πτερίς, fern.] A genus of fossil ferns, found chiefly in the Devonian, characterized by bi-to tripinnate fronds with oval pinnules narrowed toward the base. The fertile pinnules, which are borne above the sterile ones on the same pinnæ, coasist of a naked axis bearing on the upper side two rows of stalked sporangia. The genus is regarded by some authors as probably belouging to the Marattiaceæ. See Palæopteris.

archæopterygoid (är"kē-op-ter'i-goid), a. Related or pertaining to the genus Archæoptcryx. Archæornithes (är-kē-ôr'ni-thēz), n. pl. [Gr. aρχαίος, ancient, + όρνις, pl. δρνιθες, a bird.]
An ordinal name introduced to include fossil birds of the genus Archæopteryx which have a bird-like skull, conical socketed teeth, amphieœlous vertebræ, and a long, lizard-like tail.

Archæotherium (är kē-ō-thē ri-um), n. [NL., ⟨Gr. aρχαίος, ancient, + θηρίον, wild beast.]
One of several names which have been given to a genus of extinct swine, of the family Chero-polamide, in which the last lower true molar has no third lobe, the premolars are large, the canines are strong, and the functional digits are reduced to two. Other names are Elotherium, Entelodon, Oltinotherium, and Pelonaz, the first of these being preferred. Its remains have been found in the Tertiary of Quercy and Ronzon, France, in the 1sic of Wight, and in North America.

Archæozoic (ar* $k\bar{e}$ - \bar{o} -z \bar{o} 'ik), a. and n. [Gr. ap χaio_c , aneient, $+\zeta \omega \hat{\eta}$, life.] I. a. In geol., having reference to the earliest life-forms found in the rocks: a term introduced by Le Conte and employed by Dana to designate a hypothetical division or con of Archæan time Conte and employed by Dana to designate a hypothetical division or eon of Archæan time contradistinguished from the Azoic eon. This division is founded on the assumption of the existence of life on the earth during the later stages of Archæan time, aithough the rocks of this age arc chiefly crystalline or altered by metamorphism and vulcanism. Onpresumptive physical conditions Dana divided the Archezozoic into two eras: (1) that of the first plants, such as algæ and bacteria, which might exist in an occan having a temperature of 150° F., and of the deposition of limestone, silica, carbon, iron oxids and earbonates, in the accumulation of which plant life may have played an intermediary part; (2) that of the first animal life, involving a reduction of mean oceanic temperature from about 115° F. at the beginning to 90° F. or less at the end, the deposits being such lime, silica, and iron compounds as might result from animal to secretions or decomposition. Actual evidences of organic remains in the rocks (Huronian or Algonkian) of this eon are still of the most disblous character, atthough a considerable number of objects have been described as such. The Eozoön, found in Archæan rocks in various parts of the world and described as a gigantic forsminifer; the Archæophyton, a supposed plant; and alleged sponge and radiolarian spicules from Brittany and New Brunswick, are no longer regarded as of organic origin. Other remains more palpably organic, and described as from Archæan rocks, are not yet generally admitted to be of Archæozoic age, as their geologic position is not fully determined. Also Archæozo e eon.

Archæozonites (är kē-ō-zō-nī tēz), n. [NL.,

Archæozonites (är'kē-ō-zō-nī'tēz), n. [NL., Gr. ἀρχοῖος, ancient, + ζώνη, a girdle, + -ites.] A genus of pulmonate gastropods of the family Zonitidæ, from the Oligoeene and Mioeene Tertiary, having helix-shaped shells. archaicism, n. 2. In biol., abnormal or excep-

tional resemblance to ancestors; atavism; reversion. [Rare.] *Philos. Trans. Roy. Soc.* (London), ser. B, 1903, p. 185.

archangelical (ärk-an-jel'i-kal), a. Archangelic: as, "Archangelical Orders," Cudworth, Intell. Syst., p. 565.

Archanodon (är-kan'ō-don), n. [Gr. ἀρχή, beginning, + NL. Anodon, a genus of mollusks.] A genus of extinct fresh-or brackishwater peleeypods. Same as *Amnigenia. Also Archanodonta.

Archasterinæ (är*kas-te-rī'nē), n. pl. [Nl., (Archaster (a genus) + -inæ.] A group of asteroid Stellaroidea of the order Phanerozonia, family Archasteridæ. It includes the forms with a definite median line of abactinal plates, the remainder being arranged in oblique rows and with pediceliariæ

archdeaconess (ärch-de'kn-es), n. The wife

of an archdeacon.

arche³ (är'kē), n. [Gr. ἀρχή, beginning, origin.]

Something, having some mode of real being, from the understanding of which facts of exfrom the understanding of which facts of experience can be deduced. The word is Greek and was used in all periods of Greek philosophy, even by the Iouic philosophera. Plate in the Phedrus (245 D) calls the soul an arche of motion, and declares that an arche a ingenerate; and in the Timeus (42 F) "the immortal arche of a mortal being" is said to be received from the Creator. Aristotle uses the word frequently and loosely,

sometimes as a cognitive principle; at other times as a cause of any kind, an element, etc. archecentric (är-ke-sen'trik), a. [Irreg. < Gr.

 $\dot{a}\rho\chi\dot{\eta}$, beginning, $+\kappa\dot{e}r\rho\sigma\nu$, eenter.] In ornith., relating to or having the characters of the primitive type of intestine. P. Chalmers Mitchell, 1901

archecentricity (är"kē-sen-tris'i-ti), u. [archecentric + -ity.] In ornith., the state or condition of having the intestine of a primi-

Archegoniatæ (är"kē-gō-ni-ā'tē), n. pl. (Eugler, 1887), \(\begin{aligned} Archegonium + -atæ. \end{aligned} \) Agreat group or subkingdom of cryptogamic plants (also called by Engler the Embryophyta asiphonogama), embracing the Bryophyta (mosses and liverworts) and Pteridophyta (ferns and fern allies), and made coördinate with the Embryophyta siphonogama (phanerogams, spermatophytes). Generation is by means of antheridia and archegonia. Called Archegoniata by Sachs.

archegosaurian (är"kē-gō-sâ'ri-an), a. and n.
I. a. Pertaining to or having the characters of Archegosaurus.

II. n. An amphibian of the genus Arche-gosaurus.

archegosauroid (är*kē-gō-sâ'roid), a. and n. I. a. Having characters similar to those of Archegosaurus.

II. n. An amphibian related to Archego-

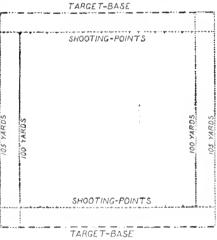
archeion (är-ki'on), n.; pl. archeia (-ä). [Gr. apχείον: see archive.] In Gr. antiq., originally the name of the office or official residence of a magistracy; later, the body of magistrates itself, and, afterward, the depot in which public archives were preserved. Ruins of the archive of Magistrale also have been proported by archeia of Megalopelis have been recovered by excavation

archencephalic, a. 2. In craniom., having a hypsicephalic skull curving from the glabella to the occipital protuberance so as to form a more or less regular arch. A. Meigs.

archenema (är-kē-nē'mä), n. [NL., < Gr. αρχε-, primitive, + νήμα, ä thread.] A gametophytic structure in the lower cryptogams. Macmillan.

archer, n. 4. A Persian gold coin, the darie, bearing the figure of an archer.

archery-ground (är'chêr-i-ground), n. A field measured and marked for an archery meeting. Usuaily the targets are in two parallel rows facing each other so that after shooting in one direction the archers may recover their arrows and shoot in the opposite di-



Archery-ground.

rection instead of returning to their original standing-points. The ground is a rectangle having the target-bases on opposite sides at the greatest distance to be shot (in the York Round 100 yards) plus 5 yards. Targets are placed at intervais on each target-base. On interior lines parallel therewith and at the proper distances for the several ranges, shooting-points are marked opposite each target.

archesporial (är-kē-spō'ri-al), a. lating to archespores.—Archesporial cells, the first eight cells in a spore-formation.—Archesporial pad, a mass of cells developing beneath the sporogenous tissue in certain pteridophytes. Bower.

archestome (är'kē-stōm), n. See archæostoma. archetypally (är'kē-tī-pal-i), adv. Same as archetypically.

arch-genethliac (ärch"jē-neth'li-ak), n. astrol., the chief calculator of nativities.

Here amid the scrawled Here amid the scrawied Uncount recordings of the dupes of this Old arch-genethiac, lie my life's results!

Browning, Paracetsus, ii. 25.

archibenthal (är-ki-ben'thal), a. [archibeathos + -al.] Of or pertaining to the depths of the primitive ocean or archibenthos.

The archibenthal species, as was to be expected, have a greater range than those restricted to the more variable environment of the shallow waters of the coast.

Science, Oct. 7, 1904, p. 463.

archibenthos (är-ki-ben'thos), n. [NL., \langle Gr. $\dot{a}\rho\chi\nu$, primitive, $+\beta\dot{\epsilon}\nu\partial\sigma$, depth.] The depths of the primitive or Paleozoic ocean. archicarp, n. 2. In ascomycetous fungi, the cell or group of cells fertilized by a sexual act.

archicembalo (är-ki-chem ba-lō), n. [lt.] A form of cembalo, said to have been made in Italy about 1537, provided with an enharmonie scale, 31 tones to the octave. See ccmbalo, 2. archicenter (är-ki-sen'ter), n. [Gr. ἀρχι-, first,

+ κέντρον, center.] An archetype; an organism or an organ which may be regarded as the primitive or ancestral or central or unspecialized type from which allied organisms or homol-

ogous organs are descended. Also archecenter. Enege. Brit., XXVIII. 343.

archicentric (är-ki-sen'trik), a. Of or pertaining to an archicenter: archetypal. An archicentric organism or organ is one which may be regarded as the common ancestor of allied organisms or homologous organs. Also archecentric.

When a series of the modifications of an anatomical structure has been sufficiently examined, it is frequently possible to decide that one particular condition is primitive, ancestral, or central, and that the other conditions have been derived from it. Such a condition has been termed... archecentric. Encyc. Brit., XXVIII. 343.

archicentricity (är "ki-sen-tris'i-ti), n. [archi-centric + -ity.] The property of being or of pertaining to an archetype or archicenter.

archicerebrum (är-ki-ser'ē-brum), n.; pl. archicerebru (-brā). [NL., ζ Gr. ἀρχι-, first, + L. cerebrum, brain.] The primary brain of arthropoles archicenter. thropods. The hrain of an arthropod is to be regarded as a compound structure or syncerebrum consisting of the archicerebrum fused with the morphological equivalents of two or more ganglionic portions of the ventral

Archichætopoda (är″ki-kē-top′ō-dā), n. pl. [NL., ⟨Gr. aρχι-, first, + NL. thætopoda.] An order of Polychæta consisting of aberrant or primitive forms in which the nervous system is not separated from the epidermis and the veutral nerve-cord is not segmented iuto ganglia. Saccocirrus is the only genus.

gna. Saccourras is the only genus. Archichlamydeæ (är"ki-kla-mid'ē-ē), n. pl. [NL. (Engler, 1887), \langle Gr. $\dot{\phi}\rho\chi\nu$, first, $+\chi\lambda a\mu\dot{\nu}c$ ($\chi\lambda a\mu\nu\dot{\sigma}c$), mantle, +-eæ.] A series of dieotyledonous plants embracing the Apetalæ (Achlamydeæ and Monochlamydeæ) and the petalæ (Polypetalæ), and coördinate with the Metachlanydeæ. The plants of this series appeared earlier in the geologic listory of plants, and possess a lower organization than those of the Metachlanydeæ.

archichlamydeous (är"ki-kla-mid'e-us), a. [Archichlamydeæ + -ous.] Belonging to the plant series Archichlamydeæ.

archiclistogamous (är'ki-klis-tog'a-mus), a. [Gr. ἀρχι-, first, + clistogamous.] In bot., having none of the flowers opening at any time; unqualifiedly elistogamous.

archicœle (ar'ki-sēi), n. [Gr. ἀρχι-, first, + κοιλος, hollow.] A cœloma, or body-eavity, which is a persistent remnant of the segmen-

tation-eavity. **archicyte** (är'ki-sīt"), n. [Gr. ἀρχι-, first, + κύτος, a hollow (a cell).] In *embryol.*, the fertilized egg before it undergoes segmentation.

archidepula (är-ki-dep'ū-lä), n.; pl. archidepula (ia-ki-dep'ū-lä), n.; pl. archidepula (-lė). [NL. (Haeckel), ζ Gr. ἀρχι-, first, + NL. depula, depula.] Iu embryol., the depula arising by cetl-division from the archicytula.

Archidesmus (är-ki-des'mus), n. [NL., \langle Gr. $a\rho\chi\nu$, ehief, $+\delta\epsilon\rho\mu\nu\rho$, band.] A genus of extinct centipeds from the Old Red Sandstone of Scotland.

archigenesis (är"ki-jeu'ē-sis), n. [NL., ⟨Gr. aρχι-, first, + γένεσις, genesis.] The genesis of the first living beings in the history of the earth. While there is no reason to believe that the first appearance of life on earth was abrupt, or that, if one had witnessed it, he could have recognized the exact point when the houndary between lifeless matter and the first living things was passed, belief in the fact of a first origin of life (archigenesis) seems to be logical and necessary.

archigonocyte (är-ki-gon' δ -sīt), n. [Gr. $\delta \rho \chi \iota$ -, first, + gonocyte.] The primary germ-cell which results from segmentation of the impregnated ovum. Buck, Med. Handbook, VI. 864.

rus. *archegonus, $\langle \text{ Gir. ap}\chi i \text{ povo, first-born,} \rangle$ $\langle \text{ap}\chi i \text{-, ap}\chi i \text{-, first,} + \text{-, povo, -born, -produced.}]$ Produced at the beginning: originating as first of living beings. Hackel (trans.), Wonders of Life, p. 157.

archigonous

archigony (ar-kig'a-ni). n. [Gr. *άρχιγονία for αρχέγονα, ζάρχέγονος, first-born, of the prime-ral race: see *archigonous.] Archigenesis.

archikaryon (är-ki-kar'i-on), n.; pl. archikarya (-ä). [Gr. $a\rho \gamma c$ -, first, + $\kappa a\rho v c$ -, nnt (nucleus).] In embryol., the nucleus of the fertilized egg;

In embryol., the nucleus of the fertilized egg; the cleavage-nucleus. Also archicaryon.

Archil extract. Same as *archil substitute. Archil substitute. There are three so-called archil substitutes, all artificial dyestiffs of the monoazo-sulphonic-acid type. See Apollo **rcd. Brilliant archil C, an acid coal-tar color of unpublished composition, which dyes wool and silk red in an acid bath.— Canary archil, a lichen, Rocella tinctoria. See archil.—Flat archil, a name sometimes applied to the lichen Rocella fuciformis.

archilithic (är-ki-lith'ik), a. [Gr. àpxc-, first, + Zitter rock.] In acal, noting the period of

+ $\lambda i\theta \rho_0$, rock.] In geol., noting the period of primitive rocks. [Rare.] archimartyr (är-ki-mär'ter), n. [Gr. $\dot{a}\rho\chi t$ -, first, $+\mu \dot{a}\rho\tau v\rho$, martyr.] The most eminent or chief among a group of martyrs in a given period or country.

period or country.

A group of sufferers called the Madamrian martyrs seems to belong to the same period: for in the correspondence of St. Augustine, Namphamo, one of their number, is spoken of as "archimartyr," which appears to mean protomartyr of Africa.

Eneye. Brit., XXXII. 462.

Archimedes (är"ki-mē'dēz), n. [NL., < L. Archimedes, < Gr. 'Αρχινήδης, a Greek philose.

Ithe allusies in the Angling doc's corest.]

opher. The allusion is to Archimedes's screw.] A genus of extinct cryptostomatous bryozoans having a broadly spiral zoarium coiled about a solid vertical axis. It is very abundant in a solid vertical axis. It is very abundant in the Lower Carboniferous limestones.—Archimedes limestone, a formation of Lower Carboniferous age, well developed in the Mississippi valley, especially in Missouri and Iowa. It was defined by Swallow as lying below the St. Louis limestone and as characterized by the serew-shaped bryozoan Archimedes.

archimime (är'ki-mim), n. [L. archimimus, ζ Gr. ἀρχίμμος, ζ ἀρχι-, chicf, + αἰμος, mime.]

The chief mime; the hero of the Roman low comedy: also, the chief buffoon at a Roman

comedy; also, the chief buffoon at a Roman functal. See mime.

archimorphic (är-ki-môr'fik), a. [Gr. ἀρχι-, first, + μορφή, form.] Of the first form, or of the form shown in the earlier ages: as applied in anthrop., characteristic of races which for very long periods have had a fixed habitat, as the Mediterranean, Mongolian, and negro races: distinguished from protomorphic and metamorphic. Amer. Anthropol.. July-Sept., 1902, p. 539.

Archimycetes (är/ki-mī-sē'tēz), n. pl. [NL., ζ Gr. $a\rho\chi\iota$ -, first, $+\mu \dot{\nu}\kappa\eta\tau\varepsilon$, pl. of $\mu\dot{\nu}\kappa\eta\varepsilon$, fungus.] A subclass of the *Phycomycetes*, including the

single order Chytridiales.

Archimylacris (är″ki-mi-lak′ris), n. [Gr. ορχι-, first, + μυλακρίς, a cockroach.] A genus of extinct cockroaches from the Carboniferous rocks.

Archipithecus (är "ki-pi-thē 'kus), n. [Gr. $\dot{a}_0 \chi_l$ -, first, $+ \pi i \theta \eta \kappa o_c$, ape.] A supposed apeform, assumed as the ancestor of the *Pithecan-*

thromes. archiplasm (är'ki-plazm), n. [Gr. $\dot{a}\rho\chi\iota$ -, first, $+\pi\lambda \dot{a}\sigma\mu a$, anything formed.] 1. The simplest

and most primitive living matter, homogeneous, undifferentiated into nucleus and cell-body. Haeckel (trans.), Wonders of Life, p. 158.—2. In embryol., the substance of which the fertilized ovum consists: not to be confounded with *archoplasm (which see).

archipresbyteral (är ki-pres'bit-e-ral), a. Pertaining to the office of archipresbyter, which arose in the church in the fourth century. His

arose in the chareful the fourth century. His duty was to preside over worship and to take the place of the bishop in his absence. archipterygial (är"kip-te-rig'i-al), a. Pertaining to or like an archipterygium, the theoretical primitive fin from which the limbs of vertebrates have been developed.

of vertebrates have been developed.

As regards the Dipneusti, in the course of some intercsting remarks on vertebrate limb theories, the author adopts Dollo's view as to their probable derivation from the Crossopterygii, the corollary to which, as the present writer has also pointed out, is that the "archipterygial" form of limb must have been diphyletically realised, on the one hand, by the Pleuracanthid Selachii, and on the other by the Holoptychii and the lung-fishes.

Nature, Aug. 7, 1902, p. 340.

archisperm (är'ki-sperm), n. [See Archispermæ.] 1. A member of the *Archispermæ (which see).—2. A structure formed before fertilization, or at an early stage in the macrospere. Boulger.

archigonous (är-kig'ō-nus), a. [NL. *archigo-nus, carchigonous, carchig adj., \langle Gr. $\delta\rho\chi \epsilon$, first, $+\sigma\pi \epsilon\rho\mu a$, seed.] Same as Gymnospermæ (which see) and *Metaspermæ. The term is designed to emphasize the fact that these plants appeared early in the geologic series, occurring as they do in the Paleozoic. See *Archichtanyplæ. archispore (är'ki-spōr), n. [Gr. $\delta\rho\chi \epsilon$, first, $+\sigma\pi \delta\rho c \epsilon$, seed (see spore).] In certain Coceididea, one of the uninucleate masses of pro-

toplasm into which the sporont divides and from which later spores arise. Labbe, 1899. Samo as sporoblast. Also archespore.

In general, it may be stated that the entire organism takes part in the formation of archispores (or sporoblasts), each archispore giving rise to spores, and each spore to sporozoites, either directly or indirectly.

Calkins, Infusoria, p. 151.

Archistes ($\ddot{u}r$ -kis' $t\ddot{e}z$), u. [NL., $\langle Gr. (?) \dot{a}\rho\chi\delta\varsigma$, a leader, +-ist-es(?).] A genus of small sculpins of the family Cottide, found in the Kurile islands.

architecturalization (är-ki-tek"tū-ral-i-zā'-shon), n. Adaptation to architectural purposes: as, "the architecturalization of foliage," G. G. Scott, Lectures on Med. Arch., I. 103.

architecturalize (ar-ki-tek'tū-ral-īz), v. t.; pret. and pp. architecturalized, ppr. architecturalizing. Te adapt to architectural purposes. turalizing. To adapt to architectural purposes G. G. Scott, Lectures on Med. Arch., H. 139.

architecturalize (ar ki-tek'tū-rai-īz), v. t.; pret. and pp. architecturalized, ppr. architectural purposes, G. G. Scott, Lectures on Med. Arch, H. 139. architecture, Coltic architecture, the meganithic menuments of western Europe.—Chalukyan reditioner and the severage medical menuments of western Europe.—Chalukyan architecture, and the severage medical menuments of western Europe.—Chalukyan reditioner of the family of Chalukya, or the Chalukyan in the southern part of the Indian peninsula, from the sixth to the thirteenth century A. D.—Columnar architecture, architecture dispassed and needlassic styles. The style of the Grecian temples, the Roman porticos, and all buildings not vaulted was columnar.—Cottage architecture, excitecture, displayed in the careful planning and designing of modern cottages, from either an artistic or a sanitary point of view.—Dravidian architecture, the architecture of ancient Flanders, heuding the important citles of formal jurges, Ypres, Denai, and Oudenarde.—Garden architecture, (a) The design and regulation of pleasure-grounds, especially formal gardens. (b) the view of the formal gardens. (c) The design of the supplemental specially formal gardens. (c) The design of the formal gardens. (d) The design of the gardens architecture as developed in England under the four Georges, especially the earlier sovereigns of that name. Its reproduction in the American colonies produced what has been called in the United States colonial architecture (which see, under colonial).—Greco-Roman architecture, architecture as developed at Rome or under the influence of the Roman dominion, but founded on Greek models. Throughout the empire the tendency was steadily away from the purely Greek type, and the buildings of the fourth century can hardly be classed as Greco-Roman except that portices of purely columnar architecture were still in favor. See cut made hexastyle.—Indo-Aryan architecture, —Gorgan architecture, architecture of the four see Saroketiur styles of princitive times, such as the Accadin

risorgimento at the beginning of the fifteenth century, It includes the Renaissance proper; the Italian dessiciano and decadenza of the sixteenth century; the French and German styles as they grew to a close following of classic types about 1550; and the Jacobean of England, at least from the time of Inigo Jones. The succeeding styles (called baroque, rocaille, or rococo), the revived classic of the eighteenth century, and the buildings of the nineteenth and twentieth centuries founded on the above-named styles, are all included under this term. In careful writing it may be used to distinguish that which is closely Greco-Roman in style from that which shows much modern influence.—Persepolitan architecture, the architecture of Persia during the sixth and fifth centuries B. C., or from about the conquests of Cyrus (549 B. C.) to the conquests of Alexander (334 B. C.): named from the ruins at Persepolis near Shlraz.—Persian architecture, the architecture of the country now known as the kingdom of Persia. It is generally divided into three great schools, or epochs, the Persepolitan, the Parthian, and the Mohannmedan, beginning with the Moslem conquest in the nintb century and existing to the present day.—Peruvian architecture, the architecture of western South America before the invasion of the Spaniards in the sixteenth century. The epoch of the most important buildings cannot be fixed with precision. They consist largely of tombs, in the form both of mounds and of masonry towers. The ancient city of Cuzco near Lake Titicaea contains the most important residential architecture and the most elaborate sculptured decorations.—Phenician architecture, the architecture of the people of Syria before the strong Greco-Roman influence was felt. The Plenicians were hardly a building race, but used largely a monolithic architecture, and the most elaborate sculpture, mainly in the form of rock-cut caves. Their colonies on the shores of the Mediterranean developed styles of their own, as at Carthage, though these have been litt risorgimento at the beginning of the fifteenth century.

architrave, ".—Banded architrave, an architrave, as in the case of a window opening, of which the molded parts forming the usual architrave of the order employed are cut across, or interrupted by plain projecting blocks; a device of the latest neo-classic *architecture (which

archive. n.-Bureau of Indexes and Archives. See

archivolt, n.—Interlacing archivolta, an arcade apparently formed by a series of arches, generally semi-circular, crossing one another so that the actual openings are pointed arches below and triangular spandrels above: are pointed arches below and triangular spandrels above; a feature peculiar to Romanesque architecture. The construction may be strictly arcuate, but is oftener a fitting together of stones cut to produce the decorative effect required. The arcades so produced were a common English wall decoration in the twelfth century. See cut at interlacing arches, under interlace.—Returned archivolt, an archivolt in which the band forming it is carried off horizontally, making a sharp angle with the curvepart, or, more rarely, is curved up again to meet another archivolt, as was often done in Syrian churches of the sixth and seventh centuries. See cut under return.

Archizoic (är-ki-zō'ik), a. and n. [Gr. aρχι first, $+ \xi \omega \eta$, life.] In geol., noting the period of earliest life. Same as $\star Areh \& ozoic$. archontal (är'kon-tal), a. [archon(t-) \div -all.]

Of or pertaining to the office of archon. Athenæum, Aug. 22, 1891, p. 257. archoplasm (ar'kō-plazm), n. [Gr. $a\rho\chi\delta c$, ruler, $+\pi\lambda\delta\sigma\mu a$, anything formed.] In cytol., the substance which forms the attractionspheres, astral rays, and spindle-fibers in the karyekinetic figure of dividing animal and plant cells. *Boveri*, 1888.

archoplasma (är'kō-plaz"mä), n. [NL.] Same as *archoplasm.

archoplasmic (är-ko-plaz'mik), a. Consisting

of or pertaining to archoplasm. Archosargus (är-k $\hat{0}$ -sär'gus), n. [NL., \langle Gr. $\hat{\sigma}\rho\chi\delta\varsigma$, chief (\hat{t}), $+\sigma\alpha\rho$, $\delta\varsigma$, a fish: see Sargus.] A genns of sparoid fishes, containing the wellknown sheepshead, A. probatocephalus, of the Atlantic coast of the United States.

Archosauria (är-kō-sā'ri-ä), n.pl. [NL., $\langle Gr. ap \chi \phi_c$, chief (l), + $aa \chi p \phi_c$, a lizard]. A name introduced by Cope to distinguish those orders of reptiles which have two temporal arches, Rhynchocephalia, Crocodilia, Dinosauria, and Pterosauria. According to Zittel, the group properly includes the Squamata in which one or both arches have become obsolete.

archosaurian (är-kē-sâ'ri-an), a. and n. I. a. Of or relating to the Archosauria.

II. n. A member of that group. Archozoic (är-kō-zō'ik), a. Same as *Archæo-

arch-solid (ärch'sol"id), n. Same as arch-stone.

archt. An abbreviation of architect.
archt. P. a. A simplified spelling of arched.
arciform, a. 2. Having the form or structure of the shell of the melluscan genus Arca.

arc-lamp (ark'lamp), n. See electric lamp, under electrie, and electric **arc.—Differential arc-lamp, an arc-lamp the operation of which is controlled by the opposing magnetic forces of a shunt coit and a series coll. This is the most common type of lamp. A. R. C.O. An abbreviation of Associate of the

Royal College of Organists.

arcocentrous (är-kō-sen'trus), a. [Irreg. < L.
arcus, arch, + Gr. κέντρον, center.] Having the

vertebral centra formed by the development of the arches about the sheath of the notochord; arcogenous.

The vertebræ do not possess, and cannot form, neurocentral sutures, because their bodies are exquisitely areocentrous, formed, in fact, by the arches proper, namely, by the basidorsalia and basiventralia, while the interbasalia produce the ventral, intervertebral mass.

H. Gadow, in Philos. Trans. Roy. Soc. (London), 1896, [ser. B, 187, 14.

[L. arens, arch, arcogenous (är-koj'e-nus), a. Having the centra of + -genus, -producing.] the vertebræ developed from arcualia, or arches formed about the sheath of the notochord, and not from ossifications arising in the chordal sheath. Such vertebræ are found in Amphibia and their centra are called arch-centra. Philos. Trans. Roy. Soc. (London), 1896, ser. B, 187. 51. arcose, u. See arkose.

Arcot rupee. Sec *rupee.

Arctatlantis (ärkt-at-lan'tis), n. [NL., \ Gr. άρκτος, the north, + 'Ατλαντίς, the Atlantic (ocean).] In zoögeog., a sea-region proposed by Salator consisting of the rest by Sclater, consisting of the northern portion of the Atlantic down to about 40° north lati-

The North Atlantic Sea-region, or Arctatlantis, consisting of the northern portion of the Atlantic down to about 40° N. lat. Geog. Jour. (R. G. S.), X. 219.

arctian, n. II. a. Of or belonging to the lepidopterous genus Arctia or to the family Arctiida.

Arctica. Arctica. Arctica (ark'ti-ka), n. [NL., said to be \(\) Gr. \(\alpha \) genus of teleodesmaceous pelecipods believed. a genus of teleodesmaceous perceypous belouging to the family Pleurophoridæ. They have oval or rounded valves, prominent curved beaks, and three cardinals in each valve. The genus abounds in the Jurassic and Cretaceous formations, and also exists

in present seas

In present seas.

arcticize (ärk'ti-sīz), v. t.: pret. and pp. arcticized, ppr. arcticizing. [arctic + -ize.] To accustom or inure to arctic conditions. Kanc. Grinnell Exped., p. 261.

Arctirenia (ärk-ti-rē'ni-ä), n. [Gr. ἀρκτος, the north, + εἰρήνη, peace.] In zσόμουμ., a searegion proposed by Sclater, comprising the northern portion of the Pacific Ocean down to about the transc of Cancer. about the tropic of Cancer.

The North Pacific Sea-region, or Arctivenia, containing the northern portion of the Pacific Ocean to about the trople of Cancer. Geog. Jour. (R. G. S.), X. 220.

Arctium (ärk'ti-um), n. [NL. (Linnæus, 1753), Arctium (ārk'ti-um), n. [NL. (Linnæus, 1753), ⟨ Gr. ἀρκτων, a plant mentioned by Dioscori-des, supposed by some of the early German botanists to be the burdock.] A genus of di-cotyledonous plants of the family Asteraceæ. They are coarse, branching herbs with broad alternate leaves and heads of purple or white flowers: distinguished from Carluus, a related genus, by the bracts of the invo-lucre ending in a long stiff point hooked at the extremity. There are about six species, natives of Europe and Asia. Three have been introduced into the United States. For A. Lappa see batweet, burdock, hardock, and harebur. Arctogæic (ārk-tō-iĕ'ik). a. Same as Arcto-

Arctogæic (ark-tō-jē'ik), a. Same as Arctogæal and Arctogæan.

arctoidean (ärk-toi'de-an), a. 1. Pertaining to or resembling the Arctoidea .- 2. Loosely, same as arctoid.

Arctopithecus, n. 2. A genus of three-toed sloths comprising those species in which the pterygoids are not inflated. Gray, 1850. Conpterygoids are not initiated. Gray, Fishers sidered by some as synonymous with Bradypus.

Arctos (ärk'tos), n. [Gr. ἀρκτος, bear.] The constellation of the Great Bear, Ursa Major. Arcturian (ärk-tu'ri-an), a. and n. I. a. Per-

taining to or resembling the star Arcturus.

—Arcturian stars, those of Secohl's second type, which have a spectrum resembling that of Arcturus (a Bootze), numerous metallic lines. Next to the Sirian stars these are the most abundant.

e the most abundant.

II. n. A star of the type of Arcturus. arcuale (\ddot{a} r- $\dot{k}\dot{n}$ - \ddot{a} / \ddot{e}), n; pl. arcualia-(\ddot{a}). [NL., neut. of "arcualia, adj., $\langle L.$ arcus, a bow, an arch; see arc^1 , $arch^2$.] The name given an arch: see arcl. archi.] The name given by Gadow to one of the paired cartilages which form on the superior and inferior faces of the notochord in amphibians and by their extension and ossification form the centra, spinous processes, and hemapophyses of the vertebre. There are typically fourpairs of aroualia, the two above being the bandorsalia and interdersalia, and the two inferior pairs the banicentralia and interventralia. See **arocentrous**, **apartocentrous**, and **hotocentrous**. **arculite** (är'kū-līt). n. [L. arculum, a hoop, dim. of arcus, a bow, +-ite².] In petrog., a term proposed by Rutley, 1891, to denote minute bow-shaped augregates of ervstallites. sion and ossification form the centra, spinous

minute bow-shaped aggregates of crystallites, such as are commonly found on the micro-

scopical study of semi-vitreous volcanic rocks, especially rhyolites and pitchstones.

Arcus juvenalis [L. 'bow of youth'], an opacity encir-cling the cornea, sometimes seen in the young, which greatly resembles the arcus senilis.

arcyid (är'si-id), a. and u. I. a. Having the characteristics of or pertaining to the spider family Arcyidæ.

II. u. A spider of the family Arcyidæ.

Ardisia (är-dis'i-ä), n. [NL. (Swartz, 1788) ⟨Gr. ἀρόφ, a point.] A very large genus of tropical trees and shrubs of the family Myrsinaceae, a very few of which are grown in hotsnuccee, a very few of which are grown in not-houses and conservatories. About a dozen species are in cultivation, but only two are generally known, and these are grown as pot-plants for their berries. They are A. crenduta, red-berried, and A. Japonica, white-berried. The former, from castern Asia, is one of the popular pot-plants, with persistent foliage and ber-ries that remain for months or even for a year or more. It is a synonym of Locorea.

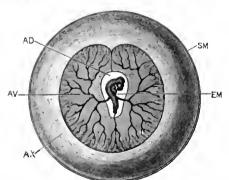
ardite (är-de'te), n. [Sp.; referred by some to Basque ardia, sheep.] An ancient copper coin of Catalonia.

Ardois lantern, signal system. See *lantern, \star signal.

Ardor urinæ, a scalding sensation on urination, in cases of urethritis.—Ardor ventriculi, pyrosis; heartburn.
-are. A suffix applied to the names of orders in the quantitative classification of igneous rocks proposed by Cross, Iddings, Pirsson, and Wash-

ington : as, eanadare, columbare. cation of igneous rocks, under *rock. area, n. 5. In conch., a space behind the ape

of the shell, in certain bivalves, including the dorsal posterior side.—6. In Polyzoa, the calot the sneal, in certain bivalves, including the dorsal posterior side. — 6. In Polyzoa, the calcareous surface outlined on the zooccium by a raised ridge. — Abysmal area, that part of the lithosphere which is more than 10,000 feet below sea-level. — Alleghanian (faunal or floral) area, the eastern humid division of Merriam's transition life zone. (See *zone.) It covers part of Nova Scotia, a large part of New England, New York and Pennsylvania, middle Ontario and Michigan, most of Wisconsin, a large part of Minnesota, and parts of the Dakotas. — Area amniotica, the transparent portion in the human embryo corresponding in general to the area pellucida in the chick. — Area cribrosa ('sleve-like tract') or cribriform area. In anat.: (a) The anterior surface of the nipple, marked by the orifices of the milk-pores. (b) The srea at the bottom of the internal auditory meatus giving passage to branches of the auditory nerve. — Area of characterization, a region in which the several varicties of plants and animals inhabiting it have been able to preserve their individuality through geographical isolation. W. Z. Ripley, Races of Europe, p. 48.— Area of high pressure being slightly higher under the tropics of Cancer and Capricorn thon to the north or south. This increase is specially marked over the continents in the winter and over the oceans in the summer season. Small areas of high pressure being slightly higher under the tropics of Cancer and Capricorn thon to the north or south. This increase is specially in the respective winter seasons, and are usually designated on the; daily weather-maps as "highs." — Areas of Langerhans., minute collections of cells in the interstitial connective tissue of the pancreas: more commonly called idends of Langerhans. — Area of low pressure, any region on the earth over which atmospheric or barometric pressure is lower than in the neighboring regions. A large region of this kind occupies the antarctic circle and there is a less marked region in the summer season and oceanic areas ove careous surface outlined on the zoecium by a



The yolk of a hen's egg at the end of the third day of incubation. AD, area pellucida of the blastoderm. AK, area opaca. AV, area vasculosa. EM, embryo. SM, vitelline membrane. (From Marshall's "Vertebrate Embryology.")

as the opaque as distinguished from the pellucid area (area pellucida), especially in the embryonic bird.— Area placentalia, that portion of the ectoderm, in the human

ovum, which is in intimate contact with the wall of the uterns.—Area system, in photog., a system of calculating relative exposures with various stops and leuses, based on the law of squares.—Arid transition (faunal or floral) area, that part of Merriam's transition zone, (see *zone) lying west of the hundredth meridian and merging at length into the Pacific coast humid area. Its outlines are very irregular, being much affected by altitude. It extends interruptedly from British America far into the mountains of Mexico.—Association areas, portions of the cerebral cortex in which there are apparently no motor nor sensory centers, their function scenning to be to correlate the various impressions received and excite motor impulses consistent with them; in other words, to exercise the functions of the mind.—Austroriparian (faunal or floral) area, the eastern lumid division of Merriam's lower austral life zone (see *zone), alternatively called Louisianian area. Beginning in southern Virginia, it extends along the coast-plain to Florida, thence west over a large portion of the Gulf States to middle Texas. In the Mississippi yalley it reaches north to the boundaries of ovum, which is in intimate centact with the wall of the Merriam's lower aistral life zone (see *zone), alternatively called Louisianian area. Beginning in southern Virginia, it extends along the coast-plain to Florida, thence west over a large portion of the Gulf States to middle Texas. In the Mississippi valley it reaches north to the boundaries of Illinois and Indiana. The semitropical or gulf strip is a subdivision of this. The southern extremities of Florida and Texas belong to the tropical region.—Broca's area, the portion of gray matter in the brain between the peduncle of the corpus callosmia and the middle olfactory lobe where are stored the memories of the movements necessary to articulate speech.—Carolinian (faunal or floral) area, the eastern moist division of Merrian's upper austral life zone (see *zone). It extends along the coast from Connecticut to Virginia, thence along the base of the mountains to Alabama, north through Tennessee, to Onario, and from there west over Indiana and succeeding States to the hundredth meridian.—Conservation of areas, the description of equal areas in equal times by the radius vector in all orbits described under the action of a central force.—Cord area, the portion of the brain injury to which is often followed by degenerative processes in the spinal cord.—Culture area, an area in which the forms of human enlture have assumed a definite shape, owing to the influence of geographical environment.—Distributional area, germinal area, hyperbolic area. See *distributional, *germinal area, hyperboli

But as it is in the association areas (hitherto termed the min as it is fittle association at a consideration of the minor) wilent nreas "because, forsooth, we understood them not) that the higher intellectual activities are carried on, it is that the migner intellectual activities are carried on, it is in these portions of the cortex that the higher feetings assume shape and control or influence the somesthetic areas with which they are connected. Herein it is that the mind of man differs most from that of the brute.

Amer. Anthropologist, Oct.-Dec., 1903, p. 609.

Subpermanent areas of pressure. See *pressure.—Upper Sonoran (faunal or floral) area, the western arid division of Merriam's upper austral life zone. (See *zone.) It occupies irregular and discontinuous spaces, determined largely by altitude, west of the hundredth meridian from Montana and Washington to far south in Mexico.—Vascular area, it the anniote embryo, that portion of the extra-embryonic blastodisc which gives rise to the first blood-vessels. See cut at *area opaca.

area-drain (ā'rē-ā-drān). n. An area near the

area-drain (ā'rē-ä-drān), n. An area near the foundation-walls of a building, having a slight slope to carry the moisture off.

Areal geology, stimulation, etc. See *geology, etc

area-wall (ā'rē-ā-wâl"), n. The wall which retrea-wall (a rest wal).

tains the earth on either side of an area. In eities it is becoming increasingly common to set buildings of all kinds in what seems a pit formed by areas on all the street-fronts; the area-wall then becomes an important construction, like the counterscarp of a fertification.

arecaidine (ar-ê-kā'i-din), n. [Irreg. < areca + id + inc².] An alkaloid, C₇H₁₁NO₂+H₂O, formed by the saponification of arecoline with barium hydroxid. It is erystalline, melts at 223° C., and is not poisonous. It is an acid as well as a base.

arecaine (ar'ệ·ka-in), n. [Irreg. < areca + -ine².] Au alkaloid, C₇H₁₁NO₂+H₂O, found in the betel-nut from Arcea Catechu. It is crystalline and melts at 213° C.

tailine and melts at 213° C.

arecoline (ar'ē-kō-lin), n. [areca+-ol-+-ine².]

The chief alkalòid, C₈H₁₃NO₂, of the betelnut from Areca Catechu. It is an oil, is easily soluble in water, boils at 220° C, and is very poisonous. It is the methyl ester of arecaidine, and is used in medicine, principally as arecoline hydrobromate, as a vermifuge.

Arenacea (ar-ē-nā'sē-ā), n. pl. [NL., neut. pl. of arcnaccus, of sand: see arenaccous.] A cronn af Erraminifera in which the test is not

group of Foraminifera in which the test is not secreted by the organism, but is constructed by it from particles of sand, shell, sponge-spicules, and other adventitious bodies picked up by it and cemented together by a modification of the sarcode. The name does not indicate a true zoölogical group.

arenicole (a-ren'i-kôl), a. [L. arena, harena,

sand, + colere, dwell in: see cult.] Living or burrowing in the sand, as certain marine

worms; arenicolous. areniferous (ar-ē-nif'e-rus), a. Bearing or coutaining particles of sand, as the horny fibers of certain sponges.

of certain sponges.

Arenig group. See *group1.
arenoid (ar'ē-noid), a. [L. arena, sand, + είδος, ferm.] Resembling sand. Buck, Med.
Handbook, IV. 114.
arenosity (ar-ē-nos'i-ti), n. [arenose + -ity.]
Sandy character or quality; sandiness. Dr.
H. More.

H. More.

areographer (ā-rē-og'ra-fer), n. One who writes upon or describes the physical features of the planet Mars.

areola, n. 2. (b) A tessellation in the thallus of some lichens.—Areola umbilicalis, a dark circle surrounding the umbilicus in pregnancy.

Areolar cancer. See *cancer.

Areolate mildew of cotton. Same as *leaf-

mold of cotton.

areolatin (ar' \hat{e} - \hat{o} -lâ-tin), n. A white crystal-line neutral compound, $C_{12}H_{10}O_7$, found in the lichen Pertusaria rupestrus. It melts at

areolin (a-rē'ō-lin), n. A white crystalline substance, $C_{16}H_{14}O_{7}$, found in the lichen *Pertusaria rupostris*. It melts at 243° C.

areometrically (ar/e-e-met'ri-kal-i), adv. By means of the areometer or hydrometer.

Mrethusina (ar-ệ-thủ-sĩ'nä), n. [NL., < L. Arethusa, < Gr. 'Αρέθουσα, a proper name, + -ina¹.] A genus of trilobites belonging to the family Proëtidæ. It is characterized by a broad cephalon with small glabells and ocular ridges running out to the eyes, a thorax with 22 segments, and a small pygidium. It occurs in the Silurian rocks.

a reverbero (ä rā-ver'be-rō). [It.: see re-verberate.] With reflection: noting a peculiar tint of luster found on the old Moorish and majolica wares, consisting of iridescent metallic

pigments.

Argand diagram. See *diagram.

arganin (ar ganin), n. A glucoside, probably identical with *sapotin.

argantid (är-gan'tid), a. and n. I. a. Having the characteristics of or belonging to the family Argantidæ.
II. n. A tick of the family Arganlidæ.

Argelander's method, scale. See *method, *scale3.

argentamine (är-jent-am'in), n. [As argent + amine.] A solution of silver phosphate in an aqueons solution of ethylene diamine; ethylene-diamine silver phosphate. It is used as

an antiseptic.

argentan, n. 1. This alloy, also known as German silver, isoften made with manganese instead of with mickel, the other constituents, copper and zinc, being the same in either case.

7. Matallia tim in a state of fine

argentine, n. 7. Metallie tin in a state of fine subdivision, precipitated by zine from a dilute solution of a tin salt: used for tinplating and for printing upon paper and cloth. - 8. A gold coin of the Argentine Republic, equivalent to

argento (är-jen'tō), n. [It.] A silver coin struck by Pope Clement V. at Carpentras near Avignon in the early part of the fourteenth

century.

argentol (är-jen'tõl), n. [L. argentum, silver, quinolinesulphonate, HOC₀H₅NSO₃Ag. It is a yellow, pulverulent eompound used in surgery as a dusting-powder.

argentotype (är-jen'tõ-tīr)

argentotype (är-jen'tō-tīp), n. 1. A picture printed by exposure behind a negative, on paper previously prepared by the use of ferric

oxalate and silver nitrate solutions. The pre- argumentarian (är-gū-men-tā'ri-an), n. An cess was devised by Mallman.—2. A special arguer or debater. [Colloq.]

make of gelatinobromide paper.

argillomagnesian (ii-jil*ō-mag-nē'ṣian), a.

[Gr. ἀργιλλα, clay, + NL. magnesia, magnesia.] Containing both clay and magnesia, as a limestone or a cement made from it

t argillophyre (är-jil/ō-fīr), n. [L. argilla, elay, etc., + (por)phyr(y).] In petrog., a porphyry, with a ground-mass rich in elay, resulting from the decomposition of the original feldspar particles contained in it.

arginase (är'ji-nās), n. [argin(in) + -ase.] A ferment which causes the decomposition of arginin into ornithin and urea. It has been found in the liver, the thymus, lymph glands, the mucosa of the small intestine, etc. Nature, June 16, 1904, p. 160.

arginin (är'jin-in), n. [Gr. $\dot{a}\rho\gamma\iota\nu$ ($\dot{e}\iota\varsigma$), bright, shining, white ($\dot{a}a\rho\gamma\dot{e}\varsigma$, white), + - in^2 .] A constant decomposition product of the protamins and possibly of all albumins. It is a hexone base, $C_6H_{14}N_4O_2$. On hydrolysis it yields urea and ornithin.

Argiope (är-jī ^{(o}-pē), n. [L. Argiope, (Gr. ἀργι-όπη, a proper nane.] A genus of braehiopods having a straight hinge-line, plicate shells, dor-sal valve with from three to five septa, and a broad continuous brachidium divided into lobes by the septa. It occurs fossil in Mesozoic and Tertiary rocks, and also exists in present seas.

Argoan (är'gō-an), a. [L. Argōus, ζ Gr. Άργώος, ζ Άργώ, Argo.] Of or pertaining to the ship Argo, in which Jason sailed for the golden

argon (ar'gon), n. [Gr. ἀργόν, neut. of ἀργός, inert.] A gaseous element having, in the pure state as a gas, a density of 19.96 (H=1) and an nert.] A gaseous element having, in the pure state as a gas, a density of 19.96 (H=1) and an atomic weight of 39.6. It exists in the atmosphere, and is also obtained from the gases yielded by the water of some aprings, and, with helium (which see), from certain minerals and from meteoric iron. It was first recognized in 1895 by Lord Rayleigh and Professor W. Ramaay, who separated it from the nitrogen with which it had till then been confounded largely because of its chemical inertheas, it being more indifferent to reagents than even that element. It yields two characteristic spectra, marked respectively by certain prominent red and blue lines. This element, the first of five previously unknown gases existing in the atmosphere, exhibits the same chemical inertness or incapacity for combination as the others, with which when first examined it was more or less mixed. It can now be separated from them by reduction to the liquid state and fractional distillation of the mixture. When liquefied it boils under normal pressure at -186.1° C., and in the solid state it melts at -189.5° C. Argon is nearly 23 times as soluble in water as nitrogen. As a gas it is more opaque to the Röntgen rays than either nitrogen or oxygen. It forms about .94 per cent. by volume or 1.33 per cent. by weight of the atmosphere. The fact that this substance was actually obtained by Cavendish in 1785 is interesting, although he did not pursue its examination or ascertain its elementary character.

Argonian (3r-gō'ni-an), a. and n. [Argo+n-+

Argonian (är-gō'ni-an), a. and n. [Argo + -n-+-ian. The normal adj. from Argo is Argoan (Gr. $^{1}A\rho\gamma\bar{\phi}\rho\varsigma$).] I. a. Noting stars having spectra like those of γ Argus and ζ Puppis (the stars shown in the figure of the constellation) stars snown in the neutre of the constellation on page 305, the former (*) on the deck a little forward of the mast, the latter (*) north of it and just overboard). These spectra are characterized by the predominance of the two series of hydrogen lines. They are considered by Lockyer to be the hottest of all stars, and some of them show bright lines.

II. n. An Argonian star.

argonin (är'gō-nin), n. [Gr. ἀργός, white, +-on -in².] A white, amorphous, practically nentral compound of silver (4 per cent.) and ca-sein. It is used as a bactericide in cases of gonorrhea. argosy, n. 2. A fleet of ships.

Fun enough to float an argosy of second rates.

Forster, Life of Dickens.

argotic (är-got'ik), a. Of the nature of argot

or slang: as, argotic locutions.

Argovian (är-gō'vi-an). a. and n. [NL. Argovia, F. Argovie, G. Aargau, a canton of Switzerland.] In gcol., noting a division of the Middle Jurassic or Oxfordian in France and the Jura, corresponding to the upper part of the Oxford-

Arguesian (är-gē'si-an), a. [(Des)argues + -ian.] Of or pertaining to the French mathe-

The graph of an equation shows very clearly how the function varies as the argument changes.

G. A. Gibson, Introd. to the Calculus, p. 3.

Argumentum a contingentia mundi [L., 'argument from the indeterminate nature of the universe'], the argument that because the universe was not by any a priori necessity arranged exactly as it is, therefore it must have a preëxistent and independent cause.

argus-butterfly (är-gus-but'er-fli), n. Any one of the meadow-browns of the family Agapctidæ, as the little wood-satyr, Cissia curytus: so called on account of the numerous eve-spots on the wings.

argus-tortoise (är'gus-tôr"tis), n. A tortoise-beetle of the family Cassididæ, Chelymorpha argus, a large brick-red American species with many black dots. It feed plants of different families. It feeds on herbaceous

Argyll-Robertson phenomena. See *phenomenon.—Argyll-Robertson's sign. Same as Argyll-Robertson pupil (which see, under pupil2).

argyræscin (är-ji-res'in), n. argyræscin (är - ji - res'in), n. [Gr. apyrpoc, silver, + L. æsc(ulus), horse-chestnut, + -in².]

A glucoside found in the horse-chestnut.

On hydrolysis it yields argyrol (är'ji-rol), n. [Gr. ἀργυρος, silver, + -ol.] The trade-name of a compound of silver with proteid material said to be obtained from wheat: used as an antiseptic instead of the more irritant mineral salts of silver.

argyropyrite (är"ji-rō-pī'rīt), n. [Gr. ἀργυρος, silver, + πυρίτης, pyrites.] A sulphid of silver and iron from Freiberg in Saxony. It is allied to the more definitely known species sternbergite, Argentopyrite from Joachimsthal in Bohemia is a closely related compound.

argyrosis (är -ji- rō'sis), n. [NL., < Gr. άργυρος, silver, + -osis.] Same as argurism.

Argyrosomus ($""a"ji-r\~ρ-s\~ρ"ms)$, n. [NL., $"a"ji-r\~ρ-s\~ρ"ms)$, n. [NL., $"a"ji-r\~ρ-s\~ρ-s\~ρ"ms)$, n. [NL., $"a"ji-r\~ρ-s\~ρ-s\~ρ"ms)$, n. [NL., $"a"ji-r\~ρ-s\~ρ"ms)$ dæ. It is distinguished by the relatively large mouth In connection with the large scales and small teeth. A. artedi, the lake cisco or Michigan herriog, is the commonest of the numerous American species.

arhinencephalus, n. See *arrhinencephalus. arhythmia, arhythmic. See arrhythmia, arrhythmic.

ari (ä'rē), n. [Telugu.] A small crooked tree, Bauhinia racemosa, distributed from India to Burma, China, and Malaysia. It yields a strong fiber used for cordage.

strong fiber used for cordage.

aria, n. Special varieties of movement or style are indicated by adding various terms: as, aria cantabile, an aria in a flowing, connected style, with but alight accompaniment; aria concertato, an aria of large dimensions, with an elaborate or concerted accompaniment; aria parlante, an aria in which the dramatic delivery of the text is conspicuous; aria di brawara or d'agilità, an aria in which special opportunity is given for vocal display through rapid passages and figures, trills and other embellishments, extreme notes, and the like; aria d'imitazione, an aria in which the music recalls some physical asound like the song of birds, the noises of battle, etc.

aribine (ar'i-bin), n. [NI. Ar(ar))ba (< Tuni

aribine (ar'i-bin), n. [NL. Ar(ar)iba (\lambda Tupi arariba, \lambda arara, a (red) parrot, + iba, fruit (tree), + -ine².] An alkaloid, C₂₃H₂₀N₄ + 8H₂O, found in the bark of Arariba rubra, which is used in Brazit as a red dye. The alkaloid is crystalline and melts at 229° C.

Arid region, a region where the rainfall is decidedly less than the annual evaporation, such as the great deserts of Sehara, Arabia, and Persia, and portions of Nevada, Utah, southern California, Arizona, New Mexico, and Spain.

aridian (a-rid'i-an), a. [NL. *Aridia, the arid region (< L. aridus, arid) + -an.] Relating to the arid countries of the southwestern parts of the United States. of the United States.—Aridian culture, the culture of the puebles of the southwest. F. N. Cushing.

Aridine red. See *red1.
aridium (a-rid'i-mm), n. [NL., < L. aridus, dry:
see arid.] A supposed new chemical element
announced by Ullgren in 1850: later shown to consist of the oxids of iron, chromium, and phosphorus.

ariegite (ar'i-e-jit), n. [Ariège, a locality in the French Pyrenees, + -ite².] In petrog., a granular igneous rock consisting essentially of pyroxenes (diopside, diallage, bronzite) and spinel, with or without garnet (pyrope) and hornblende. This rock was named by Lacroix in 1901.

Aries, n.—First of Aries or first point of Aries, the point at which the sun crosses the celestial equator in the spring; the vernal equinox, from which right-ascension and (celestial) longitude are reckoned; the Greenwich of the celestial sphere.

arietean (a-ri-ē'tē-an), a. Pertaining to or having the characters of the cephalopod genus Arietes.

Arietes (ar'i-e-tez or a-rī'e-tez), n. [NL., < I. aries (ariet-), a ram.] The typical genus of the family Arietidæ.

Arietidæ (a-ri-et'i-dē), n. pl. [NL., \(\) Arietes + -idæ.] A family of ammonoid cephalopods Arietidæ (a-ri-et'i-dē), n. pl.

arigue (ä-re'gā), n. [Philippine Sp. (Blumentritt), a form of Tagalog and Bisaya haligi.]
In the Philippine Islands, timber, especially when whole, used in the construction of buildings; a post or pile.

a-ripple (a-rip'l), adv. $[a^3 + ripple.]$ In a ripple; rippling.

That young man,
The muscles all a-ripple down his back.

Arisæma (ar-i-sē'ma), n. [NL.] A genus of about 50 widely distributed species of tuberous-rooted herbs of the family Araceæ. The tropical species are sometimes grown as hothouse subjects; but those commonly known are the two native species, A. Dracontium, the dragon-root, and A. triphyllum, the Indian turnip or jack-in-the-pulpit. These two species are easily transferred to the garden, and they can be grown in pots indoors for very early spring bloom.

Arisatig series. See *series.

aristiform (a-ris'ti-fôrm), a. [L. arista, awn. + forma, form.] Of the form of an arista, in either sense; awn.like

either sense; awn-like.

aristochin (a-ris'tō-kin), n. A white tasteless derivative of quinine; diquinine - carbonicether. It possesses antimalarial properties. Also aristoquin.

Aristoclesia (ar'is-t̞-klē'zi-a̞), n. [Nl. (Co-ville, 1905), < Gr. Αριστοκλη̈̄ς, Aristocles, the arithmetize (a-rith'me-tiz), r. t.; pret. and pp. early name of Plato, the Greek philosopher. See *Platonia*.] A genus of trees belonging to the family *Clusiaceæ*, improperly known by the name *Platonia* (which see).

arithmetized, ppr. arithmetizing. To render arithmetical. See *arithmetization.

arithmetizer (a-rithmetizer), n. One who arithmetizes. Specifically: (a) one who builds the arithmetizes. Specifically: (a) one who builds the arithmetizes.

Aristocystidæ (ar"is-tô-sis'ti-dē), n. pl. [NL. < *Aristocyst(ites) + -idæ.] A family of cystoid</p> echinoderms or cystids having a spherical or pear-shaped calyx composed of numerous very irregular plates which are traversed by simple canals. The ambulacral grooves lie beneath the plates. These echicoderms are without arms or stem. They are found only in the Silurian rocks.

Aristocystites (ar[#]is-tō-sis-tī'tēz), n. •[NL., ζGr. ἀριστος, best, + κίστις, bladder, + -ιtes.] The typical genns of the family Aristocystidæ. aristodemocratical (ar "is-tō-dem-ō-krat' i-kal), a. Of the nature of an aristodemocracy; combining both aristocratic and democratic features of government, as the Swiss Confederacy.

aristogen (a-ris'tō-jen), n. [Gr. ἀριστος, tho best, +-γενης, -producing.] In photog., a tradename for a concentrated solution of hydroquinone used in developing faintly printed [Gr. άριστος, tho pictures on printing-out paper.

pictures on printing-out paper.

aristol (a-ris'tôl), n. [Gr. $\delta \rho \iota \sigma \tau \sigma c$, best, +-ol.]

A pale-brown amorphous compound, C_3H_7 .

CH₃.C₆H₂(Ol)₂, of faint odor, containing the construction of machines for the construction of machines for the construction of machines for the sodium hydrate, iodine, and potassium arithmetical operations.

Ariyalur group. See *group1. iodide; di-thymol-di-iodide; thymol iodide. It is used as a substitute for iodoform. Also called annidalin.

aristolic (ar-is-tol'ik), a. [Aristol(ochia) + -ic.] Derived from Aristolochia.—Aristolic acid, an orange-red compound, $C_{15}\Pi_{1}07N$ or $C_{15}\Pi_{13}07N$, contained in Virginia and Texas anakeroot, Aristolochia argentina. It crystallizes in needles and melta at 260°-270° C.

Aristolochiales (är"is-tō-lō-ki-ā'lēz), n. pl. [NL. (Lindley, 1833), \ Aristolochia + -ales.] An order of dicotyledonous, apetalous (mono chlamydeous) plants, characterized chiefly by the thick, leathery, tubular, corolline calyx. It embraces the families Aristolochiacea, Rat-

flesiaceæ, and Hydnoraceæ.

aristolochine (ar"is-tō-tō'kin), n. [Aristolochia + -inc².] An alkaloid, C₃₂H₂₂N₂O₃, found in the seeds of Aristolochia Clematitis. It crystallizes in orange-yellow needles which decompose at 215° C. It is a violent poison for animals.

Aristotelian experiment. See *experiment. Aristotelism (ar"is-tot'el-izm), n. Same as Aristotelianism.

aristotype (a-ris'tō-tīp), n. [Gr. ἀριστος, best, + τέπος, type.] A photograph printed on paper on which silver salts are spread with collodion or gelatin. The name was originally

eomprising discoidal and widely umbilicate shells having a channeled periphery, strong ribs on the sides of the whorls, and highly complex septal sutures: characteristic of the Lower Lias beds.

arigue (ä-rē'gā), n. [Philippine Sp. (Blumentritt), a form of Tagalog and Bisaya haligi.]

In the Philippine Islands, timber, especially a stribment of the printing-out process. Woodbury, Eneye. Dict. of Photog., p. 42.

Aristozoe (ar''is-tā-zô'ē), n. [NL., < Gr. ἀριστος, best, + ζωή, life.] A genus of extinct crustaceans of the order Phyllocarida. They have a bivalved nodose carapace jointed by symphysis along the back, and a long cylindrical abdominal segment curiously articulated with the caudal spine. Typical species are from the Devonian of Bohemia.

arithmachine (a-rith'ma-shēn"), n. arithmachine (a-rith'ma-shēn"), n. [Irreg. (a. ripple.]] In a few mediane in the back.
Browning, Cleon.
A genus of who is versed in the theory, construction, and construction of the back.

operation of an arithmachine.

arithmechanical (a-rith-inē-kan'i-kai), a. Of or pertaining to devices for computation by mechanical means or by machines.

arithmetic. n.—Mechanical arithmetic, the science

arithmetic. n.—Mechanical arithmetic, the science

arithmetic. n.—Mechanical arithmetic, the science

arithmetic, n—Mechanical arithmetic, the science of the constructive principles and the practical use of mechanical aids to arithmetical computation. arithmetization (a-rith "mg-tī-zā'shon), n. [arithmeti(ie) + -ize + -ation.] The process by which any part of mathematics is so reeast as to be made to depend only upon purely arithmetical concepts, to the exclusion of all measurement.

The Theory of Functions of Real Variables as it has been remodelled in the process of complete arithmetization.

Encyc. Brit., XXVIII. 544.

arithmetized, ppr. arithmetizing. arithmetical. See *arithmetization.

arithmetizer (a-rith me-ti-zer), n. One who arithmetizes. Specifically: (a) One who builds the entire number system, irrational numbers, and the mathematical continuum without any use of measurement or intuition or geometric magnitudes. Dedekind and Georg Cantor. (b) One who would abolish irrational numbers and the modern extensions of the number econcept, substituting for them equivalents expressed in terms of whole numbers only. Kronecker.

arithmogram (a-rith me-gram), n. [Gr. authure a number + yedung a letter] The

the smaller guns such a probable, a number, $+ \gamma \rho \acute{a}\mu \mu a$, a letter.] The the smaller guns such as 3-inch, 6-pounders of the number obtained by summing the numerical armature, n. 6. values of the letters of a word.

arithmography (ar-ith-mog'ra-fi), n. [As arithmograph + -y3.] A formal presentation of the properties of numbers.

arithmological (a-rith/mo-loj'i-kal), n. In math., of or pertaining to arithmology; pertaining to the rigorous treatment of numbers. arithmology (ar-ith-mol'ō-ji), n. [Gr. αριθμός, number, + -λογία, < λέγειν, speak.] The theory We may conclude that those authors have erred who call the government of Soleure aristo-democratical, for it is certainly a most complete aristocracy.

Coze, Trav. in Switzerland, 1 tetter xx.

Tinningly (at-thermof-pl, n. elithermof), n. elithermof arithments, single arithments, single arithments, single arithments, single arithments, and reference arithments (a.e., it is not reference arithments), n. elithermof arithments, single arithments, si André, 1873. Gr. ἀριθαός, number, + μανία, madness.] In pathol., a morbid impulse to work over mathematical problems, or to count objects or acts, such as buttons, steps, etc. Baldwin, Diet. of Philos. and Psychol., I. 68.

arithmomechanics (a-rith mō-mē-kan iks), n. pl. [Gr. ἀριθμός, nnmber, + mechanics.] Mechanical principles and devices employed in the construction of machines for performing

arize, v. i. and n. A simplified spelling of arise. Arizonian (ar-i-zō'ni-an), a. and n. [Arizona + -ian.] I. a. Of or pertaining to Arizona.

II. n. A native or an inhabitant of Arizona.

A. R. jug. See ★ jngl. arkyochrome (är'ki-ŏ-krōm), n. [Gr. ἀρκις, net, + χρώμα, color.] In neurol., a somatochrome nerve-cell in which the stainable portion of the eytoplasm appears in the form of a network or reticulum. Nissl.

Arkyochromes or cells in which the chromatic substance is present in the form of anastomosing chains, making a coarser or finer meshwork; as, for example, in the Purkinje cells of the cerebellum and in the mitral cells of the olfactory lobe.

Jour. Exper. Med., V. 552.

arkyostichochrome (är/ki-ō-stik/ō-krōm), n. [Gr. άρως, net, + στίχος, row, + χρώμα, color.] A somatochrome nerve-cell in which the stainabie evtoplasmic substance combines a striate with a reticular arrangement. Typical examples of such cells are the Purkinje cells of the cerebellar cortex. Nisst.

In the cerebellum, the only cells of special interest, when subjected to the method of Nissl, are those of Purkinje. Formerly classed as arkyostichochromes, these cells Nissl now includes in the arkyochrome group. They lie as a distinct row of cells at the junction of the molecular layer with the granular layer, their cell bodies embedded in the latter.

**Jour. Exper. Med., V. 568.

given by Liesegang to the gelatinochlorid or arm¹, n. 7. In violin-playing, the arm or its collodiochlorid printing-out process. Woodbury, Eneye. Dict. of Photog., p. 42. longitudinal half of a bow, extending from the handle to the end of the bowstaff; limb: classifield as upper and lower arm, according to their relative position when the bow is held perpenrelative position when the bow is held perpendicularly, as in shooting.—At arm's end, beyond the reach of one's arm; hence, at a distance, or at such a distance as to prevent contact or familiarity in personal, social, or other relations: as, to keep one at arm's end,—At arm's length. (a) At arm's end; at a distance as regards personal relations. (b) At a disadvantage: as, to work at arm's length.—Base-ball pitcher's arm, a condition of sprain, with pain and soreness over the points of insertion of the muscles, occurring aometimes as a result of overuse by base-ball players.—Glass arm, a neurosis, analogous to writers' cramp, marked by spasm of the pronator teres muscle, occurring in base-ball pitchers.—Golf arm, a neurosis, analogous to writers' cramp, which interferes with the motions of driving or putting at golf.

arm². n.—Cessation of arms. suspension of hostili-

CArmadillididze.

Armadillididæ (är-ma-di-lid'i-dē), n. pl. [NL. Armadillidium + -idæ.] A family of land isopods having the body very convex and contractile into a globular form. Armadillidium

is the typical genus.

Armadillidium (är-ma-di-lid'i-um), n. [NL., Δrmadillo, n., 2, + dim. -idium, Gr. -iδιον.]

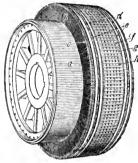
The typical genus of the family Armadillididæ.

Brandt, 1833.

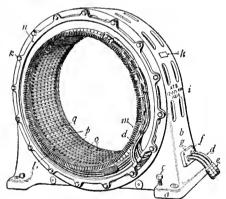
armament, n. 2. In a large war-ship, the armament is distinguished as the main armament, including all the largest guns,

all the largest guns, usually mounted in barbettes or turrets in the largest vessels; the secondary or intermediate armament, including all the medium-caliber guns such as 5-inch or 6-inch; and the tertiary or minor armament, including the smaller guns such as 3-inch, 6-pounders

(b) That part of an electric machine in which electric power is generated (generator) or consumed (motor). Sometimes



Revolving Armature. a, commutator; b, commutation-leads; c, soldered clips; d, armature-winding; e, binding-wires; f, top stick; g, laminations; h, ventilating ducts.



Stationary Armature.

a, foot; b, frame; c, holding-down bolts; d, armature-leads; c, couplings; f, lead inlets; g, connection-hoard; h, name-plate; t, rating; k, clamping-bolts; d, armature-windings; m, soldered clips; n, clamping-ring; o, top-stick; p, laminations; q, ventilating-

rotating element is called armature, irrespective of its function. See *field*, 13. arm-chair, n. II. a. In one's arm-chair; seated

comfortably at home; fireside; hence, theoretieal, not practical: as, arm-chair geographers.

Much of the objection to horizontal fishing had no greater weight than belongs to armehair disputations on the subject.

Geog. Jour. (R. G. S.), XIII. 153.

Armeniaca (är-mē-nī'a-kā), n. [NL., ζ L. Armeniaens, adj., ζ Gr. Άρμενιακίς, ζ Άρμενία, L. Armenia, Armenia.] An old generic name of the common apricot, but now most commonly used as a specific name in *Prunus*, as *P. Armeniaea*. The purple apricot is *Prunus* (*Armeniaea*) dasycarpa. The Japanese apricot is *P. Or (A.) Mume*.

armeniaceous (är-mē-ni-ā'shus). a. Having the color of an apricot, Prunus Armeniaea; dull orange

Armenioid (är-mē'ni-oid), a. [L. Armenii, ζ Gr. Αρμενοι, Armeniaus, + είδος, form.] Re-sembling the Armeniau; in anthrop., noting a type of man found in Armenia and throughout Asia Minor, and in a few places in Syria and Mesopotamia: a branch of the Melanochroi characterized by a very short and high head and narrow, high nose. W. Z. Ripley, Raees

and narrow, high nose. W. Z. Riptey, Raees of Europe, p. 444.

Armenoid, a. Same as *Armenioid.

Armeria (är-mē'ri-ä). n. [NL.] A genus of plants of the family Plumbaginaceæ, commouly called sea-pink or thrift. They are small perennial herbs, with rosettes of narrow, evergreen leaves on the ground. The species are much confused. They are used chiefly for border planting in the open. border-planting in the open.

armes parlantes (arm par-lant'). [F.] Allu-

metal, ivory, or other substance to protect the bow-arm and wrist from the friction of the bow-string, and to prevent the string from army-ant (är'mi-ant), n. The foraging ant. catching on the sleeve; a bracer.



Armillaria mellea Fruiting plants arising from the mycelium (Rhizomorpha), (After figure in Engler and Pranti's "Pflanzenfamilien.")

and the stipe furnished with an annulus. anellea is a common and widely distributed species, growing about old stumps, and regarded as the cause of certain root-diseases of trees.

Arminianizer (är-min'i-an-ī-zer), n. [Arminianize + -er1.] One who spreads or seeks to spread Arminian doctrines; a promoter of Arminianism.

arm-lyre (ärm'lîr), n. A lira da braccio (which

see, under lira?).

armor, n. 5. In paleobotany, the thick covering or jacket which surrounds the woody axis of fossil cycadean trunks, consisting of the persistent leaf-bases and the copious ramentum which fills the interstices between them. The ramentum is firmly silicified, forming walls around the leaf-bases; and where, as is usually the ease, only the lower portion of the leaf-base is preserved, the triangular cavities remaining give to the trunks a honeycomb-like averagement. like appearance.

armor-bar (är'mor-bär), n. In a man-of-war, a heavy steel bar, about an inch thick and six inches to a foot deep, used to protect an opening in a protective deek from shot or splinters. An assemblage of such bars constitutes an

armor-prating (which see).

armor-belt (ir' nog-belt), n. The portion of the armor of a war-ship in the vicinity of the waterline. In a battle-ship, it is usually thicker than the armor above it. A complete armor-bell extends the whole length of the vessel; a partial belt covers only the middle portions, behind which are the engines and boilers.

armor-clad (är'mor-klad), n. A war-vessel protected by external armor; an ironclad. Modern armor-clads include battle-ships, armored cruisers, and armored coast-defense vessels.

In 1861 the British Government began the construction of eleven armour-clads, six of which, including the Hector and Valiant, sister ships of 6700 tons, were iron vessels.

Encyc. Brit., XXX11. 554.

Arpaditidæ (är-pa-dit'i-dē), n. pl. [NL., < Arpaditidæ (är-pa-dit'i-dē), n. pl. [NL.,

See *scale3, *wood1. Armored scale, wood. Armorial porcelain. See *porcelain¹.
Armorian sandstone, in geol., the lowest division of the Silurian series of northwestern France.
armor-plating (är mor-plat ning), n. The protestival series of the series of northwestern france.

tective sheets or masses of steel which are used arpeggione (är-pej-i-ō'ne), n. [lt., < arpeggio: to cover the hull of a war-ship or erniser, in whole or in part, to resist the perforating impact of projectiles.

pact of projectiles.

arm-ossicle (ārm'os"i-kl), n. One of the elongate ambulacral plates which form a roof over the ambulacral furrows of the Asterozoa.

Proc. Zool. Soc. London, 1896, p. 1029.

arm-plate (ārm'plāt), n. One of the constitution o arm-ossicle (ärm'os"i-kl), n. One of the elon-

the ambulacral furrows of the Asterozoa. Proc. Zool. Soc. London, 1896, p. 1029. arm-plate (ärm'plāt), n. One of the constituent plates in the arm of a crinoid or ophiurid; a brachial.

armstake (ürm'stāk). r. t.; pret. and pp. armstaked, ppr. armstaking. In leather-working, sive or cauting heraldry. See allusive arms, to stake or soften by means of a crutch. under arm².

arm-guard, n. 2. In archery, a guard of leather, arm-viol (\(\text{urm'vi-gl}\)), n. A viola da braccio

(which see, under viola1), Army blanket. See *blanket.

eatehing on the sleeve; a bracer.

armied (är'mid), a. [army² + -cd².] Forming an army; army-like. Bailey, Festus, xxxiii. 358. N. E. D.

armilla, n. 6. In bot., the frill originally eovering the hymenium of agaries and adhering to the stipe after the expansion of the pileus.

Armillaria (är-mi-lā'ri-ā), n. [NL. (Endlicher, 1836), < l. armilla, ring. + -aria.] A genus of white-spored agaries having the gills deeurrent the larva of a noctuid moth, Caradrina exigua, which damages sugar-beet plantations.—Cotton army-worm, the larva of a noctuid moth, Alabama aryilacea, occurring abundantly in tropical America and in the southern United States very seriously, the estimated annual money loss amounting to \$15,000,000.—Fall army-worm. See grass-worm.—Forest army-worm, nother name for the so-called forest tent-caterpillar larva of any one of several species of midges of the genus Sciara. These larva ere gregarious and travel in large snake like masses, whence the name army-worm or worm-snake. worm-snake

Arnica yellow. See *yellow.

arnillo (är-nēl'yō), n. [Cuban Sp., \langle Sp. arnillo, a small beehive.] The Cuban name of a snapper-like fish of the species Apsilus dentatus

arnimite (är'nim-īt), n. [Named after the German family Von Arnim.] A hydrated copper sulphate occurring as a green incrustation Zwickau, Bohemia.

Arnoglossus (är-nō-glos'us), n. [NL., ζ Gr. aρνός (gen.), lamb, + γλῶσσα, tongue.] A genus of small, thin-bodied flounders found in southern Europe.

Arnold's canal, fold. See *canal1, *fold1 Arnusian (är-nū'si-an), a. and n. [Irreg. \langle It. Arno, L. Arnus, a river of Italy, whose valley (Val d'Arno) is famous.] Noting the uppermest stage in the Pliocene Tertiary deposits of the Mediterranean.

aroar (a-rōr'), adr. $[u^3 + roar]$ In a roar; roaring.

Hail! day of storms! with thy woods aroar like rivers and thy rivers aroar like seas.

Blackwood's Mag., XXXIX. 842. N. E. D.

aroast (a-rost'), adv. [$a^3 + roast$.] In pro-Arrhenius's theory of electrolysis. cess of roasting.

*He smelleth not his flesh

-roast, nor yet the saudal and the apice
hey burn.

*Edwin Arnold, Light of Asia, iii. They burn.

aroeira, n. 2. The name of several other trees of the eashew family, especially Schinus terebinthifolius of Brazil and Astronium frax-inifolium, an allied Brazilian tree. All of these yield medicinal resins, and the last-named yields a very hard, valuable wood. aroid, n. II. a. Like or representing the

genus Arum or the family Aracea: as, an aroid

Aroides (a-rō-i'dēz), n. [NL. (Heister, 1763), ⟨ Arum + -oides.] A genus of monocotyledo-nous plants of the family Aracæ. See Rickardia and Zantedeschia.

Aromatic species, a mixture of the leaves and stems of several aromatic plants.—Aromatic wine. See *wine. aromaticalness (ar.ō-mat'i-kal-nes), n. Aro-

matie quality; spiciness. Bailey, 1731. aromaticness (ar-ō-mat'ik-nes), n. Same as *aromaticalness.

aromite (a-rō'mīt), n. [Aroma (see def.) + -ite².] A hydrated sulphate of aluminium and magnesium from the Pampa de Aroma, Tarapaga, Chile.

aromo (ä-rö'mō), n. [Sp. aromo, prob. \(\aroma\), fragrance.] The sponge-tree, Aeacia Farnesiana. It yields a reddish gum similar to gum arabic, and its wood is very heavy, hard, reddish-brown in color, and handsomely grained. See Acacia and sponge-tree.

on arose.

Arpaditidæ (är-pa-dit'i-dē), n. pl. [NL., *Arpadites (?) + -idæ.] A family of ammonoid cephalopods or ammonites. They have laterally compressed whorls with low transverse ribs, a channeled periphery or venter, and comparatively simple ceratitoid sutures. The species occur in the Triassic formation.

see arpeggio.] A small six-stringed violoncello, invented by Staufer of Vienna in 1823, having a body shaped somewhat like that of a guitar:

In Spanish law, a voluntary gift made by a hnsband to his wife upon marriage in consideration of the portion which he receives from her-tin ade, and the property is not more than one-tenth of the husband's estate, it becomes the absolute property of the wife, free from all debts of the husband.

array, n. 10. In statistics, the values of one variable which are correlated with a certain, definite value of another variable. See *correlation. 5.—Commissioner of array, the officer who held, in England, a 'commission of array' for a county; now superseded by the lord lieutenant of the county. See array, 8, and commission of array, under commission.

urrayado (ä-rä-yä'dō), n. [Cuban Sp.] The Cuban name of the fish sailor's-choice, Hæmuarrayado (ä-rä-yä'dō), n.

lon parra.

arrayan (i-rä-yän'), n. [Sp. arrayán, myrtle.]

1. Eugenia apiculata, a small Chilean tree or shrub of the myrtle family, which has been introduced in the milder regions of the United States and Europe as an ornamental plant.—2. A similar shrub of Ecuador and Colombia, Eugenia Arayan, first collected by Humboldt in the Andes.

arre³ (är'e), n. [Also in a more English-looking form arrie, NL. arra (Pallas), from a native name in the Aleutian Islands, based upon the harsh cry of the birds, represented by arrr, arrr.] A name given by the Aleutian natives to the Pacific murres, Uria troile california and Uria longia arra. fornica and Uria lomvia arra.

in porcelain-jasper: found at Planitz, near arrest, n.—Nerve of arrest. See *nerve. Zwickau. Bohemia. arrested (a-res'ted), p.a. Retaining through Arnoglossus (är-nō-glos'us), n. [NL., ⟨ Gr. life an infantile or a juvenile state of development with respect to any organ. Modifications of structure from arrested development, so great or so serious as to deserve to be called monstrosities, are of common occurrence. Darwin, Variation of Animals and Plants, II.

> arretted (a-ret'ed), p. a. 1. Convened before a judge and charged with a crime. Bouvier, Law Dict.-2. Imputed or laid to one's charge: as, no folly may be arretted to any one under age. Bouvier, Law Dict.

> arrhenal (a-rē'nal), n. A name of the sodium salt of monomethyl arsenite, Na₂CH₃AsO₃ + $6H_2O$.

arrhenoid (ar'e-noid), n. [Gr. άρρην, male, + \(\ellin \text{loo}\)c, form.] In \(\ellin \text{mbryol}\), the attractionsphere or aster belonging to the sperm
during the fertilization of the egg. \(\text{Henking}\).

arrhepsia (a-rep'si-ä), n. [NL., \langle Gr. $\dot{a}\rho\rho\epsilon\psi ia$, equilibrium, \langle a- priv. + $^*\dot{\rho}\epsilon\pi\tau\dot{o}$ c, \langle $\dot{\rho}\epsilon\pi\epsilon v$, incline, as a balance.] Mental equilibrium: same as ataraxia.

Arrhina (a-rī'nij), n. pl. [NL., neut. pl.] An ordinal name formerly applied to a division of the fishes including the extinct genera Pteras-

pis and Cephalaspis: not now recognized.

arrhine (ar'in), a. and n. [NL. arrhinus, ζGr. ἀρρις, noseless, ζά- priv. + ρίς (ρα-), nose.] I. a. Noseless: applied specifically to the Arrhina, an extinct order of fishes, ineluding Pteruspis and Cephalaspis.

II. n. One of the Arrhina. 11. π. One of the Arrinad.

arrhinencephalus (ar-in-en-set'a-lus), n.; pl. arrhinencephali (-lī). [NL., ⟨ Gr. ἀρρις (ἀρριν-), without nose (power of smell), + ἐγκέφαλος, brain.] A monster without the olfactory lobe of the brain, or rhinencephalon. Also spelled arbinencephalus.

arhinencephalus.

arriccio (ä-rieh'ō), n. [It., \langle arricciare, bristle
up, \langle riccio. \langle L. ericius, a hedgehog: see urchin.] In Italian art, generally a coat of plaster prepared for mural painting, but not usually a final coat. See intonaco.

arrogater, arrogator (ar'o-ga-ter, -or), n. One who makes unwarrantable or pretentious claims.

Against all Merlinical arrogators.

Gaule, Magastron., p. 376.

Gaule, Magastron., p. 376.

atrow, n., 1. Arrows now used in archery are of two kinds, the self-arrow and the footed arrow. The former has a shaft made of a single piece of wood, the latter a foreshaft or footing of hard wood about 7 inches long next the head. The parts of an arrow are the hornat the butt (the end resting upon the bowstring), in which is cut a nock for the string; the shaft or staff of soft wood; the feathers, glued upon the shaft near the butt; the foreshaft (in a footed arrow); and the head or pile at the point or striking end. Arrows are now usually from 25 to 25 inches long, and their weight is measured by that of new (British) silver coins: as, a 4s. 6d. arrow. They are made in four shapes: bobtail, with the greatest diameter at the point; chested, with the greatest diameter at the point; chested, with the greatest diameter at the siddle and the nock; barreled, with the greatest diameter at the middle and the nock; barreled, with the greatest diameter at the middle; and parallel or cylindrical, with a uniform diameter throughout.

2. (c) The arrow-shaped panicle of the sugar-cane.

in tour control in the steel, with the nock; barreau, tween the middle and the nock; barreau, est diameter at the middle; and parallel or cylinaricus, est diameter at the middle; and parallel or cylinaricus, with a uniform diameter throughout.

2. (c) The arrow-shaped paniele of the sugar-cane, Nature, LXVII, 365.— Love's arrows, an English translation of the French steches d'amour. Also called Venus's hair-stones.— Rankling arrow, an arrow wine head of which is loosely attached to the shaft, so that it stays in the wound while the shaft drops off. O. T. Mason.— Retrieving arrow, an arrow with a barbed head designed for retrieving fish or burrowing animals.

Arrow, v. i. 3. To blossom: said particularly of sugar-cane, which throws out an arrow-of sugar-cane, which throws out an arrow-of sugar-cane, which throws out an arrow-of sugar-cane, which throws out an arrow-area of these has been obtained in the separate and pure state.—Arsenious anhydrid, Same as arsenious orid (AsyO3).

Arsenious anhydrid, Same as arsenious orid (AsyO3). arsenohæmol (är"se-no-hē'noil), n. A brown arseniate of manganese occurring in victoria, ish-red masses: found in Sweden.

Arsenious dar-seriosiderite (är-sê'mi-ō-sid'c-rīt), n. [arsenious stielle (ar-sê'mi-ō-sid'c-rīt), n. [arsenious be siderite.] A busic arseniate of ferric iron and calcium occurring in yellowish-brown fibrous forms.

Arsenious actd. This acid, corresponding to the orthorsenites, has the formula 15, AsO3, while the acid corresponding to the meta-arsenites is 11AsO2; but neither of these has been obtained in the separate and pure state.—Arsenious anhydrid. Same as arsenious orid (AsyO3).

Arsenious (arrow-mine) arrow-mine arrow-mine

egg-and-dart modding; the 'dart' or 'tongue.' See cut at egg and durt, under egg1.—Arrowhead and feather illusion. See **illusion.
arrow-maker (ar'ō-mā-kêr), n. One who makes arrows.

There the ancient Arrow-maker Made his arrow-heads of sandstone, Arrow-heads of chalcedony, Arrow-heads of flint and Jasper.

Longfellow, Hiawatha, iv.

arrow-pocket (ar'ō-pok-et), n. In archery. a arrow-pocket (ar'ō-pok-et), n. In arcary, a pecket in a coat, used instead of a quiver by an archer to hold his arrows while shooting. Arsinoite (är-sin'ō-īt), a. Of, pertaining to, or made at Arsinoite in the Fayûm, Egypt: as, the Arsinoite collection of antiquities. arrow-point (ar'ō-point), n. Same as arrow-

arrow-poison (ar'ō-poi-zon), n. See poison. arrowroot, n.-Florida arrowroot. See Zamia. arrow-shaft (ar'ô-shaft), n. The shaft of an

arrow.—Arrow-shaft polisher, an implement made of stone, with a groove extending across one surface: often found in pairs. The shaft of the arrow was placed often found in pairs. The suart of the arrow was praced in the groove, or in the tube formed by the two grooves of the pair of polishers placed face to face; then the surface of the arrow-sbaft was rubbed down.

arrow-staff (ar'ō-staf), n. 1. The wooden

shaft or main part of an arrow, from the nock or horn at the butt to the head or pile at the end.—2. A selected and prepared piece of wood for an arrow: the arrow in a rough state.

arrow-straightener (ar'ō-strāt"nėr), n. An implement used for straightening arrow-shafts, consisting of a strong piece of bone perforated at one end. By means of this implement the arrow-shaft when steamed is bent until it is straight.

arrow-weed (ar'ō-wēd), n. Same as *cachimilla.

arrow-wood, n. 2. Same as *eachimilla.
'Arry (ar'i), n. [The cockney form of the very eommon Eng. name Harry.] A type of the London cockney of the lowest middle class, whose animal spirits and good-natured vulgarity of manner (as displayed in public, frequently in the company of his sweetheart or wife, 'Arriet) are made prominent in the comic papers. [Eng.]

'Arryish (ar'i-ish), a. Like 'Arry; vulgarly jovial. [Eng.]
A. R. S. A. An abbreviation of Associate of the Royal Scottish Academy.
arseneted, arsenetted (är'se-net-ed), a. Same

as arseniureted.

arseniated (är-sē'ni-ā-ted), a. Same as arse-

niureted.

Arsenic mirror. See *arsenical mirror.—Arsenic test, any one of several methods for detecting minute quantities of sraenic, often required in cases of supposed poisoning. The most important of these are known as the *Marsh test, the *Reinsch test, and the electrolytic test, the last of which has been improved and rendered more delicate by Thorpe. In using the first and last of these the arsenic is obtained in the elementary or metallic form deposited upon the surface of a piece of porcelain or a small glass tube; in the direct application of the Reinsch test a like deposit is formed upon a strip of pure copper foil.—Presenius test for arsenic. See *test!.—Flowers of arsenic, the white oxid of arsenic (As₂O₃) in fine powder.

arsenical, d.—Arsenical mirror, the lustrous deposit of metallic arsenic obtained upon the surface of a glass tube by means of the Marsh test. See *arsenic test.—Arsenical paste of Frère Côme, a paste made of gum

arabic, arsenious acid, red sulphid of mercury, charcoal and water; used as a caustic application in the treatment of cancer.

II. n. A substance which owes its efficiency for the purpose to which it is to be applied to the presence of arsenie or some of its compounds, as medicinally employed remedies, in-

secticides applied to cultivated plants, etc. Yearbook U. S. Dept. Agr., 1896, p. 619. arsenic-glass, n. 2. The white oxid of arsenic (As₂O₃) when first sublimed, in an amorphous and therefore transparent state. In time it crystallizes and becomes white, nearly opaque, and porcelain-like.—Yellow arsenic-glass, an impure sulphid of arsenic obtained by sublining white arsenic with sulphur. It contains much oxid and is therefore very poisonous.

arsenide, ".- Hydrogen arsenide. Same as arseniu-

per cent. of arsenious acid.

One who arsenoid (ar'se-noid), n. [arsenic + -oid.]
The trade-name applied to various commercial arsenical insecticides.—Pink arsenoid, the trade-name for an insecticide preparation consisting essentially of lead arsenite.

arsenolamprite (är "se-nō-lam'prīt), n. senie + Gr. $\lambda a \mu \pi \rho \delta c$, bright, + -ite².] A supposed allotropic form of native arsenic.

Arsinoitherium (ar-sin " o -i-the' ri-um), n. NL., ζ Gr. 'Αρσινόη, a queen of Egypt (who had a palace in the region where the fossils



Skull and lower jaw of Arsinoitherium Zitteli, from the Upper Eocene of the Fayum, Egypt. About one-twentieth natural size

(From "A Guide to the Fossil Mammals of the British Museum," by permission of the Trustees.)

have been discovered), + θηριον, a wild beast.] A genus of extinct ungulate mammals recently discovered in the Upper Eccene rocks of the Libyan desert. The creature seems to have attained the size of a large rhinoceros, and bore a pair of very heavy bony horns over the nose. The form of the feet and legs suggests relationship to the elephants and Dinocerata.

arsonist (är'son-ist), n. [arson + -ist.] One who commits arson.

Those whose houses were first seen in flames were imprisoned at the Yevo-gan's quarters, but they were not proved to be the real arsonists.

R. F. Burton, Mission to Gelele, II. 305.

arsonium (är-sö'rı-um), n. [Formation not arsonium (ar-so'ri-um), n. [rofmation not obvious; appar, an arbitrary formation, ar-s(enic) + -on- + -inn.] A hypothetical group, AsH₄, known only in derivatives: as, tetramethyl arsonium hydroxid, (CH₃)₄AsOll. Arts and crafta, industrial art. The name was originally given to a society founded by William Morris, Walter Crane, and others for the encouragement of artistic design in utilities.

In utilities.

It was momentous for the painter's art that in Germany, no less than in England and France, a new movement at this time set in—the so-called "arts and crafts."

Hitherto the various branches of art bad followed differ ent courses. The most beautiful paintings were often hung in surroundings grievously lacking in taste. Now arose the ambition to make the room itself a work of art.

Energe. Brit., XXXII, 450

Arts of design, those arts in which graphic or plastic methods are employed, as distinguished from music, poetry, dancing, etc.—Graphic arts. See graphic, 3.—Intermediate arts, the intermediate grade in any particular course of study in the faculty of arts, as distinct from the 'junior' and 'advanced' grades.—Liberal arts. See art?, 6.—Social art, the application of social science to human betterment, especially through legislation and government. L. P. Ward, outlines of Sociol., p. 271.—The art preservative of all arts, printing.—The manly art or the art of self-defense, boxing. artanthic (är-tan'thik), a. [Artanthe + -ic.]
Noting an acid found in the oil from the mat-

Noting an acid found in the oil from the matieo, Piper angustifolium (Artanthe clongata). artarine (är'ta-rin), n. An amorphous alka-

loid, $C_{21}H_{23}O_4N$, from the root-bark of Zanthoxylon Schegalense.

artel (är-tel'), n. [Russ. artélă.] In Russia, a voluntary association of workingmen for any general or specific purpose. It is an ancient in-stitution. Formerly the members of an artel usually dwelt together communistically, and the practice is still found among the peasantry.

artemisin (är-tem'i-sin), n. [Artemisia + -in².] A compound sometimes found as an impurity in commercial santonin.

Arteria profunda cerebri, a branch of the basilar artery distributed to the temporosphenoidal and occipital lobes. Arterial constitution, the florid habit in which the blood is rich in fibrin and contains a relatively large proportion of red blood-globules.— Arterial sclerosis. Same as arteriosclerosis.

arterin (är'te-rin), n. [arter(y) + $-in^2$.] A hypothetic compound of oxyhemoglobin and lecithin occurring in arterial blood. arteriofibrosis (är-te-ri-e-fi-bro-sis), n. [NL.,

(arteria, artery, + fibra, fiber, + -osis.) Same as arterioselerosis.

arteriolith (är-tē'ri-ō-lith), n. [Gr. ἀρτηρία, artery, + λίθος, stone.] A concretion formed in an artery; arterial calculus.

arteriometer (är-të-ri-om'e-tër), n. [Gr. $a\rho\tau\eta\rho ia$, artery, $+\mu\dot{\epsilon}\tau\rho\sigma\nu$, a measure.] An instrument for determining the changes in caliber of an artery caused by the cardiac pulsations. *Buck*, Med. Handbook, 1, 130.

of an artery caused by the cardiac pulsations. Buck, Med. Hundbook, 1, 130, arteriosclerosis, n. An increase of connective tissue in the walls of the arteries, especially in the inner coat. The resulting progressive thickening and contraction of the vessels interfere with the blood-supply of their own walls so that these become degenerated and weak, while at the same time their abnormal rigidity makes it difficult or impossible for the normal variations in caliber, in response to nervous stimuli, to take place. Local areas of fatty degeneration with the subsequent deposition of lime salts are apt to form, especially in the larger vessels, and are called atheromatons patches. A pulse of high tension with enlargement of the heart, due to the increased resistance to the blood flow, and Bright's disease owing to the involvement of the small vessels of the kidney, frequently accompany arteriosclerosis. Various disorders of the brain, including a tendency to apoplexy, and a predisposition to gangrene of the extremities, are other common consequences of the disease. In old age there is usually a greater or less degree of arteriosclerosis, and its presence then indicates that the bodily machine is beginning to wear out, but certain other factors, notably intemperance in eating and drinking, may eause it to appear early in life.—Diffuse arteriosclerosis, general fibrous thickening of the walls of the arteries.—Nodular arteriosclerosis, a disease of the arteries marked by the presence of nodules of fibrous thickening of the walls of the arteriosclerosis, fibrous thickening of the walls of the arteriosclerosis, characteristic of senile degeneration.

Arteriosclerotic (är-te*ri-ō-sklē-rot'ik), a. Relating to or affected with avtenical arteriosclerosis.

arteriosclerotic (är-tē ri-ō-sklē-rot'ik), a. Relating to or affected with arteriosclerosis. Buck, Med. Handbook, II. 107.

Arteritis deformans, a condition of roughness and cal-careous infiltration of the inner walls of the arteries fol-lowing upon atheromatous ulceration.

careous infiltration of the inner walls of the arteries following upon atheromatous ulceration.

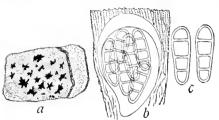
artery, n.—Celiac artery. Same as celiac axis (which see, under axis!).—Central arteries of the hrain See *central.—Dental arteries. See *clental.—Gasaerian artery, a branch of the middle meningeal or internal carotid artery which supplies the Gasserian ganglion.—Hemerrhoidal arteries, three sets of arteries, superior, middle, and inferior, which supply the rectum and anus.—Interesseous arteries, numerous small arteries running between the metacarpal bones of the hand and the metatarsal bones of the foot. There are two sets of each, doesal and palmar in the hand, and dorsal and plantar in the foot.—Mammary arteries. See *mammary.—Metatarsal artery, an artery crossing transversely the dorsum of the foot and giving off branches to the interesseous muscles.—Nasal artery. See *masal.—Pallial artery, either of two branches which arise from the lesser aorta in certain cephalopods and run forward and backward respectively to supply the misule and other organs.—Pipe-stem arteries, a late stage of arteriosclerosis in which the walls of the arteries have become calcified and converted into hard inclastic tubes.—Terminal artery, an artery which has no anastomotic connection with another.

arthemis (är'the-mis), n. [Nl.; appar. a factitions name.] A nymphalid butterfly, Basilarchia arthemis, inhabiting the northern At-

larchia arthemis, inhabiting the northern At-

lantic United States. wints the object of the states. The upper surface of the wints is velvety chocolate-black, with a conspicuous white arch extending across each pair. The larva lives on the foliage of birch, poplar, and the shad-bush. Also called the banded purple.

Arthonia (ār-thō'ni-ā), n. [NL. (Acharius), said to be formed (erroneously) < Gr. ἀρδειν,



Arthonia radiata.

a, a group of star-shaped apothecia showing the habit of the fichen; δ, hymenium with spore-case; ζ, spores. (δ and c highly magnified.) (Drawn from Engler and Pranti's "Pfianzenfamilien.")

A genus of discolichens of sprinkle, water. the family Arthoniaeex, having a crustaceous thallus and speres. mostly hyaline, with two

thallis and speres, mostly hyanne, with two or more cells. The species are numerous, occurring on rocks and the bark of trees.

Arthoniaceæ (är-thō-ni-ā'sē-ē), n. pl. [NL., ζ Arthonia + -aceæ.] A family of discoliehens typified by the genus Arthonia.

arthrectomy (är-threk'tō-mi), n. [Gr. ἀρθρεν, a joint, + ἐκτομή, excision.] Exsection of a significant control of the second control of the sec

cases of ankylosis.

Arthritis interna, gout of the stomach or other internal organ.—Diaphragmatic arthritis. Same as angina pectoris.—Navicular arthritis, an inflammation of the cartilage covering the small bone (navicular bone) situated on the back of the joint within the hoof of the horse. It frequently extends to the bone itself and sometimes involves the pedal joint.—Rheumatic arthritis, and or one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral arthritis. Same as *arthritis interna.

arthritis. Same as *arthritis interna.

arthritism (är-thrō-stōm) n. [NL., ⟨Gr. internation of one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral arthritis. Same as *arthritis interna.

arthritism (är-thrō-stōm) n. [NL., ⟨Gr. internation of one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral arthritis. Same as *arthritis interna.

arthritism (är-thrō-plö'rä), n. pl. [NL., ⟨Gr. internation of extinct isopod crustaceans, or sow-bugs, from the Carboniferous formation.

arthropodal (ar-throp-od-all), a. [arthropod+-all.] Same as arthropodius.

arthrosteitis (är-thrō-plö'rä), n. pl. [NL., ⟨Gr. internation of one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral arthritis. Same as *arthropodius.

arthrosteitis (är-thrō-plö'rä), n. pl. [NL., ⟨Gr. internation of one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral arthritis.

arthrosteitis (är-thrō-plö'rä), n. pl. [NL., ⟨Gr. internation of one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral arthritis.

arthrosteitis (är-thrō-plō'rā), n. pl. [NL., ⟨Gr. internation of one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral of one or more joints associated with urethritis or following the passage of a catheter or sound.—Visceral of or

-ism.] A predisposition to rneumacijoint-affections; urie-acid diathesis.

arthrobranch (är'thrǫ-brangk), n. [NL. arthrobranchia.] Same as arthrobranchia.

Arthroclema (är-thrǫ-klē'mä), n. [NL., ⟨ Gr. ἀρθρον, joint, + κλημα, twig.] A genus of extinct cryptostomatous Bryozoa having segmented growing arthribrance are all afternoons.

with persistent notochord and head and trunk covered with symmetrically arranged bony plates, the head-shield being movably articulated to the body-shield. The group embraces the coccostean fishes formerly included in the *Placodermi*, and its species are among the most striking and enormous of the ancient fishes, *Dinichthys* and *Titanichthys*. All belong to the Devonian formations, especially to the black Upper Devonian shale of Ohio and the Old Red Sandstone of Great Britain.

arthrodiran (är-thro-di'ran), a. Of or pertaining to fishes of the order Arthrodira.

arthrodire (är'thrō-dīr), n. A fish of the sub-class Arthrodira. Science, Nov. 7, 1902, p. 749. arthrodirous (är'thrō-dī'rus), a. [Gr. āρθρον, joint, + δειρή, the neck.] Same as *arthrodi-

Arthrodonteæ (är-thrō-don'tē-ē), n. pl. [NL., ζ Gr. ἀρθρον, joint, + ὁδούς (ὁδοντ-), tooth.] A division of the stegocarpous mosses in which the teeth of the peristome are transversely septate. It embraces by far the greater number, including some in which the teeth are wanting. Compare Nematodontee. Also written Arthrodontei. arthrogastran (är-throgas'tran), a. and n. I.

a. Pertaining to or resembling the Arthrogas-

II. n. A member of the Arthrogastra.

arthrogenous (är-throj'e-nus), a. [Gr. ἀρθρον, joint, + -γενής, -produced.] Originating from a joint; noting any deformity caused by gout or other articular disease. Buck, Med. Handbook, IV. 496.

Arthrognatha (är-throg'na-thä), n. pl. [NL., neut. pl., \langle Gr. $\hat{a}\rho\theta\rho\sigma\rho$, joint, $+\gamma\nu\hat{a}\theta\sigma\rho$, jaw.] A term applied by Dean to the group of fossil fishes commonly called Arthrodira, the latter name being restricted by him to those having the coat of mail jointed at the nape.

+ λίθος, stone.] In geol., a cylindrical coneretion with transverse segmentation, occa-sionally found in marls and clays. Tsehersky, 1887. Capable of sionally found in marls and clays. Tsehersky, lables or words.

Arthrolycosa (är#thro-li-ko'sä), n. Gr. åptipor, joint, + Nixoc, a wolf, also by transfer a spider.] A genus of fossil spiders belonging to the order Anthracomarti, obtained from the ironstone nodules in the coal-measures of Mazon ereck, Illinois.

arthromeningitis (är-thrō-men-in-jī'tis), n. [NL., ζ Gr. ἀρθρον, joint, + NL. meningitis.] Same as synoritis.

arthroncus (är-throng'kus), n. [NL., < Gr. άρθρον, joint, + όγκος, bulk, mass.] Swelling of a joint.

arthropathic (är-thrō-path'ik), a. Relating to arthropathy. Buck, Med. Handbook, IV. 512. arthropathy, Buck, Med. Handbook, IV. 312.

arthropathy, n.—Charcot's arthropathy, a disease of the joints (usually of the larger joints, though even the fingers may at times suffer) occurring as a result of trophic disturbances in certain diseases of the spinal cord, especially locomotor staxia and syringomyelia.—Osteopulmonary arthropathy, an enlargement of the ends of the long bones occurring in connection with chronic disease of the lungs.

arthroplastic (är thro-plas'tik), a. Relating

to or of the nature of arthroplasty. Med. Record, May 30, 1903, p. 877. arthroplasty (är'thrö-plas-ti), n. [Gr. åρθρον, ioint, $+\pi \lambda a \sigma \tau \delta c$, formed.] In surg., the operative establishment of an artificial joint in cases of ankvlosis.

arthritism (är'thri-tizm), n. [arthrit(is) + arthrostome (är'thrō-stōm), n. [Gr. $\dot{a}\rho\theta\rho\rho\nu$, joint, + $\sigma\tau\dot{\phi}\mu a$, mouth.] The mouth of an arthropod.

[NL. Arthrostraca, n. pl. 3. An order of Arthropoda, including those malacostracous crustades of earth of exsecond, thoracic segment fused with the head and bearing maxillineds, while the recognition of the second of the secon arthroclema (är-thrō-klē'mā), n. [NL., ⟨ Gr. apθρον, joint, + κλημα, twig.] A genus of extinct cryptostomatous Bryozoa having segmented zoaria, celluliferous on all sides: widely distributed in Silurian and Devonian formations. arthrodesis (är-throd'ē-sis), n. [NL., ⟨ Gr. apθρον, joint, + δέσις, a binding.] In surg., the operative production of ankylosis in a joint. Lancet, June 18, 1904.

Arthrodira (är-thrō-dī'rā), n. pl. [NL., ⟨ Gr. arthrodira (är-thrō-dī'rā), n. pl. arthrodira (är-thrō-dī'rā), n. pl. [NL., ⟨ Gr. arthrodira (är-thrō-dī'rā), n. pl. arthrodira (är-thrō-dī'rā), n. pl. arthrodira (är-thrō-dī'rā), n. pl. arthrodira (är-thrō-dī'rā), n. pl. arthrodira (är-thrō-

Arthrostylus (är-thrō-stī'lus), n. [NL., \langle Gr. $\dot{a}\rho\theta\rho\sigma v$, joint, + $\sigma\tau\bar{\iota}\dot{\lambda}\sigma c$, pillar.] The typical genus of the family Arthrostylidæ.

arthroxesis (ür-throk'sĕ-sis), n. [NL., \langle Gr. $\hat{a}\rho\theta\rho\sigma\nu$, joint, $+\xi\xi\sigma\iota\varepsilon$, scraping, $\zeta\xi\xi\epsilon\nu$, scrape.] In surg., the process of scraping the articular surfaces for the removal of fungosities.

artichoke, n.—Chinese artichoke, Stachys Sieboldi, a species from China bearing tubers somewhat like those of the Jerusalem artichoke. Known in France as crosnes.

of the Jerusalem artichoke. Known in France as crosnes.

article, n.—Articles approbatory, in Scotch law, that part of the proceedings which corresponds to the answer to the charge in an English bill in chancery. Bouvier, Law Dict.—Articles improbative, in Scotch law: (a) Articulate averments setting forth the facts relied upon. (b) That part of the proceedings which corresponds to the charge in our English bill in chancery to set aside a deed. The answer is called articles approbatory. Bouvier, Law Dict.—Articles of partnership, a written agreement between two or more parties stating the conditions and terms upon which an enterprise for profit shall be carried on by the parties.—Articles of roup, in Scotch law, the conditions under which property is offered for sale at auction.—Articles of set, in Scotch law, an agreement for a lease. Bouvier, Law Dict.—Proprietary articles, patent medicines and other erty is offered for sale at auction.—Articles of set, in Scotch law, an agreement for a lease. Bowier, Law Dict.—Proprietary articles, patent medicines and other patented articles the manufacture and sale of which are restricted to the patentee or patentees or their assigns.—The Schwabach articles, seventeen articles of faith drawn up by Luther and presented to the princes of the evangelically minded states at Schwabach (Oct. 16, 1529) as the foundation for their political combination. The articles are directed mainly sgainst Zwinglianism; hence the prominence of the doctrine of original sin, of baptism, and of the doctrine of the real presence of Christ body and blood in the eucharist. These articles furnished the material for the positive (first) part of the Augsburg Confession.—The Torgau articles, ten articles drawn up by Luther, Melanchthon, and Jonas, by order of the Elector, at Torgau, Mar. 20, 1530. They were a kind of apologia for the Elector, stating that he had established a true service of God and had proscribed certain abuses of the Roman Church. These articles furnished the material for the polemical part of the Augsburg Confession.

The upper surface of the arthrolite (är'thro-lit), n. [Gr. ἀρθρον, joint, articulability (är-tik-ū-la-bil'i-ti), n. The quality of being articulable.

[NL., \langle articulamentum (är-tik/ \tilde{u} -la-men'tum), n.; pl. articulamenta(-tā). [NL., L. articulare, join, articulate: see articulate, v.] In the chitons or amphineurous mollusks, the inner or porcelanous layer of the shell-substance, the outer

nous layer of the shell-substance, the outer being termed the tegmentum. In many of the chitons the articulamentum projects beyond the outer layer of the shell and its ends are firmly inserted in the flexible girdle which binds the shell-valves together.

Articular arteries. (a) Five smsil arteries, three superior and two inferior, derived from the popliteal and surrounding the knee-joint. (b) The circumflex arteries of the arm (which see, nnder circumflex).—Articular dropsy. See *dropsy.—Articular sense, the consciousness which attends novement of a joint.

articulary, a. II. n. In ichth., the articular hone, or bone at the joint or insertion of the lower jaw. Starks. Synonymy of the Fish

lower jaw. Starks, Synonymy of the Fish Skeleton, p. 515.

Articulata, n. pl. (f) An order of the Crinoidea which includes all recent and later fossil forms of this class, characterized by having the mouth and foodgrooves exposed or suprategminal and the lower brachist plates incorporated into the calyx.

plates incorporated into the caryx.

articulation, n.—Axia of articulation, in arthropods, a line drawn between the right and left hinges of the aegments of the abdomen.—Peg-and-aocket articulation, a term applied to the insertion of scales of ganoid and other primitive fishes having bony scales, in which each scale has a produced point or peg, which is inserted into a socket or cavity in a scale above or below it. The structure is sometimes complicated by the presence of two pegs.

articulationist (in-tik-5-la'shon-ist), n. One

articulationist (är-tik-ū-lā'shon-ist), n. One who teaches articulation to deaf-mutes. N. E. D.

articulo-angular (är-tik/u-lo-ang/gu-lär), a. Relating to the articular and angular elements of the jaw collectively. Proc. Zool. Soc. London, 1901, I. 173.

articulo-kinesthetic (är-tik"ū-lō-kin-es-thet'ik), a. In psychol., pertaining to the sensations aroused by the movements of articula-

Made up of artificialisms — for nothing seemed resisabout him but his ill-temper.

Mrs. H. Wood, Roland Yorke, III. 156.

artificing (är-tif'i-sing), n. [*artifice, v. (a back-formation from artificer), + -ing1.] Artificers' work; craftsmanship.

Yet in spite of all this backwardness in invention, the ty is full of beautiful workmanship in every branch of rtificing.

W. D. Howells, Venetian Life, p. 300. artificing.

artinite (är'ti-nīt), n. [Named for E. Artini of Milan.] A basic hydrated magnesium carbonate occurring in spherical forms with radiated structure: found at the asbestos-mines of Val

Lanterna, Italy. **Artinskian** (är-tinsk'i-an), a. and n. I. a. Of or pertaining to Artinsk in the Urals: in geol., noting the lowest division or stage in the development of the Permian system in the Ural velopment of the Permian system in the Ural Mountains. It consists of sandstones, couplomerates, shales, and limestones which carry a marine fauna having many species of the Carboniferous formation below and show no unconformity with those strata. This stage is named from Artinsk, but its rocks are distributed from the Arctic Ocean to the Kirghiz steppe. It apparently corresponds in age, as it does in position, to the Autunian of France, which bears a terrestrial flora.

II. n. The Artinskian division.

artiphyllous (är-tif'i-lus), a. [Gr. åρθρον, a joint, $+ \phi i \lambda \lambda o v$, leaf.] In bot, bearing buds or leaves on the nodes or joints.

or leaves on the nodes or joints.

Artique's process. See *process.

artisticism (är-tis'ti-sizm), n. [artistic + -ism.] Artistic pursuits or theories; artistic tendency.

Our present-day, lackadaisical, sham artisticism. H. Herman, His Angel, p. 40.

artlike (ärt'lik), adv. and a. I. adv. According to the rules of art: as, "not artlike writ," W. P. Taylor, 1630.

II. a. Having the appearance of art.

It is among birds that we find specific modes of nest-building and a highly artlike, almost artistic song. Whitney, Life and Growth of Lang., xiv. 289.

art nouveau (är nö-vō'). [F., 'new art.'] A name given to a secession movement in art which had its origin in Paris at the close of the nineteenth century, and is still in process of development. It is concerned with architecture and the decorative arts chiefly. So far as the movement has any definite underlying principle, it is the negation of the conventional types which have attached themselves to art in the course of centuries and the realization of beauty by the proper management of necessary lines and values. In the hands of the practitioners, bowever, liberty has become libertinism, and results bave been produced which have thrown discredit upon the move-

artois (är-two'), n. [Artois, an ancient province of northern France.] A long coat worn by women about 1790. It had several capes, and lapels and revers like a box-coat.

artophagous (är-tof'a-gus), α. [Gr. άρτος, bread, + φαγείν, eat.] Bread-eating: as, an artophagous propensity.

Aruncus (a-rung'kus), n. [NL., < L. aruncus, < Gr. έρτος βρτικός καραίτς hourd also

Gr. πριγγος, Dorie ἀρυγγος, a goat's beard, also a plant (see eringo).] A genus of tall, perennial herbs of the family Rosacce, often referred to the genus Spiraa, with numerous small, diocious flowers. There are two species, A. Aruncus in the northern parts of America and Europe, and A. astilboides from Japan. Aruncus is often confounded with Astilbe. The latter is much used for forcing.

Arundel group. See *group1.

Arvernian (är-ver'ni-an), a. 1. Of or pertaining to the Arverni, a tribe of ancient Gaul which occupied a region corresponding to the modern Auvergne.-2. In ethnot., relating to or exhibiting the European type, commonly known as Alpine, of which the inhabitants of

Auvergne are typical representatives.

Arvonian (är-vo'ni-äu), a. and n. [W. Arfon (pron. arvon) in Wales.] A term applied by Hicks to a division of rocks in Pembroke regarded by him (together with the Dimetian below and the Pebidian above) as of Precambrian age, but by others considered as purely eruptive intrusions into Cambrian rocks.

I regard the so-called "Dimetian" as a granite which has invaded the Cambrian rocks; the "Arconian" includes the quartz porphyries which appear as apophyses of the granite; while the "Pebidian" is an interesting group of basic lavas which form here the lowest visible part of the Cambrian system. Geikie, Text-book of Geol.

Aryanization (är'yan-i-zā'shon), n. The process of Aryanizing or the state of having been made Aryan in character, appearance, etc.

The Aryanization of Europe doubtless resembled that of India.

I. Taylor, Origin of Aryan, p. 212. aryballoid (ar-i-bal'oid), a. [aryballus + -oid.]

Like an aryballus.

aryl (ar'il), n. [ar(omatic) + -yl.] A name introduced by Vorländer to designate a radical

derived from an aromatic hydrocarbon, as phenyl, C_6H_5 , tolyl, C_7H_7 .

arzrunite (ärts-rö'nit), n. [Named after A. Arzruni, a German mineralogist.] A mineral consisting of basic copper sulphate and copper chlorid, and occurring in bluish-green crystalline crusts: found in Chile.

ås (ås), n.; pl. åsar (å'sär). [Sw. ås.] Same as os³ or eskar.



Asana. Pterocarpus Indicus. (From a photograph by Warburg.)
(Drawn from Engler and Prantl's "Pflanzenfamilien.")

Asaheim (as 'a - hām), n. [leel. * Āsa heimr, 'home of the gods.'] Same as Asgard.

home of the gods.'] Same as Asgard.
asana (ä-sä-nä'), n. [Tagalog asana (Bisaya naga, whence Sp. narra).] A name in the Philippine Islands of Pterocarpus Indicas and P. echinatus, valuable timber-trees, the wood of which is sometimes called Philippine mahogwhich is sometimes called Philippine muhogany. The trunks are surrounded at their base by radiating buttersess which yield planks of extraordinary width. The wood is of a beautiful red color often variegated with yellow, hard and durable, but porous and very brittle. It takes a flue polish and is much used in the Philippines for cabinet work and for furniture, handsome large table-tops being often made of single stabs. P. Indicus is known in the East Indies as Burmese rosewood, Andaman redwood, and kiabooca-wood. In the Philippines it is also called narra. P. echinatus, known as narra pula, or "red narra," is distinguished by having spiny seed-pods. See Pterocarpus and kiabooca-wood.

asaphia (as-a-fi'ä), n. [NL.. < Gr. ἀσάφεια, indistinctness, ζ ἀσορίς, indistinct, ζ ά- priv. + σαρής, clear, distinct.] Defective speech, heard especially in cases of cleft palate.

Asaphic (a-saf'ik), a. Of or pertaining to Asaph, one of the chief singers in the Temple in the time of David and Solomon, and eponymous head of one of the gilds of singers, "sons of Asaph." Psalms 50 and 73-83 are called Asaphic, having the name of Asaph super-seribed. Also Asaphitic.

asaphid (as'a-fid), 'a. and u. I. a. ing to or having the characters of the trilobite

family Asaphidæ.

A member of the family Asaphidæ. Asaphidæ (a-saf'i-dē), n. pl. [NL., (Asaphus + -idæ.] A family of trilobites which have a large and subequal cephalon and a pygidium, in both of which the lobes and furrows are and of the robes and introns are rather obscure. The eyes are large; the facial sutures cut the posterior margin of the head-shield within the gensl angles and unite at the middle of the frontal border; and the thorax has from 5 to 10 segments. The family includes highly important genera of Silurian trilobites, Asaphus, Ilkenus, Nileus, and Ogygia.

Asaphitic (as-a-fit'ik), a. Same as *Asaphic. Asaphus (as'a-fus), n. [Also Asaphes. Nl., ⟨Gr. aσαφης, indistinct.] The typical genus of the family Asaphidæ.

asaprol (ā'sa-prōl), n. Same as *abrastol. asar, n. Plural of *ās.

asaresinotannol (as-a-rez"i-nō-tan'ōl), n. amorphous compound, $C_{48}H_{68}O_8(OII)_2$ or C_{24} - $H_{33}O_4$. (OH), existing in small quantities in the free state, but principally combined as a fer-ulic acid ester in the resin of asafetida.

ulic acid ester in the resin of asarctida.

asarol (as a-rol), n. [Asarum + -ol.] A colorless, feebly dextrorotatory alcohol, $C_{10}H_{18}O$,
eontained in oil of Canadian snakeroot, Asarum Canadense. It boils at 196°-199° C. and is

unit Canadense. It boils at 196°-199° C. and is rum Canadense. It boils at 196°-199° C. and is probably identical with linalool.

asaronic (as-a-ron'ik), a. [asarone+-ic.] Derived from asarone; noting an acid, the trimethyl ether of 2, 4, 6-trihydroxybenzoic acid $C_6H_2(OCH_3)_3CO_2II$, formed by the oxidation of asarone. It erystallizes in needles which melt at 144° C.

asarotum (as-a-rô'tum), n. [L. asarotum, neut. of asarotos, applied to floors painted in spots or divisions as if not swept clear, $\langle Gr, \dot{\alpha}\sigma\dot{\alpha}\rho\omega\tau\sigma\varsigma$, unswept, < ά- priv. + *σαρωτός, < σαροῦν, sweep, ζ σάρον, a broom, ζσαιρειν, sweep.] In anc. arch.,

massive asbestos reduced to a fibrous pulp and used for wall-plaster, etc.

asbestin, a. A simplified spelling of asbestine. asbestinize (as-bes'ti-nīz), v.t.; pret. and pp. asbestinized, ppr. asbestinizing. To treat (cotton goods) chemically in order to render them fire-proof or not easily inflammable.

asbestolith (as-bes'tō-lith), n. [Gr. ἀσβεστος, asbestos, + λίθος. stone.] The trade-name of a material made from short-fiber asbestos, with the addition of cementing and coloring substances, for use in the construction of the day and the stop of bayes. It has the advanged to the stop of the floors and walls of houses. It has the advantages of light weight, durability, and capability of resisting fire and dampness.

Asbestos burner, a gas-stove burner employing Bunsen burners in combination with sheets or masses of fibrous

asbestos which become incandescent in the flame. Such burners are used with gas-logs and gas fireplace-heaters.—Asbestos cloth, a fabric composed of woven fibrous asbestos used in making gloves for protection against heat and acids, as a covering for dining-tables and for steamheated rolls, as a strainer in filtering acids, and for other purposes.—Asbestos curtain, a curtain of asbestos cloth hung before an open fireplace. When drawn down it acts as a fire-screen and a blower. Large and heavy curtains of this material are hung in the proscenium arch of theaters as a protection against the spread of fire—Asbestos porcelain. See *porcelain.—Asbestos porcelain. See *porcelain.—Asbestos porcelain. Asbestos torch, a metal vessel or cresset suspended from a pole and packed with asbestos which is saturated with oil used to destroy the nests of caterpillars.

A. S. C. An abbreviation of Army Service Corps. ascalaphoid (as-kal'a-foid), a. Belonging to

ascalaphoid (as-kal'a-foid), a. Belonging to or resembling a member of the family Ascalanhidæ

ascaricide (as-kar'i-sid), n. [ascar(id) + L. -cida, ⟨ cædere, kill.] An agent destructive of round- or thread-worms which occur as intestinal parasites.

tinal parasites.

Ascaris equorum, the cel-worm or lumbricold worm parasitic in the small intestine of the horse. It measures from 15 to 37-centimeters in length, and in most cases is without serious effect. Goeze, 1782. — Ascaris megalocephala. Same as *ascaris equorum. Cloquet, 1824.

Ascelichtys (as-ē-lik this), n. [NL., \(\) Gir.

άσκελής, without legs (without fins), + ιχθίς, fish.] A genus of small sculpins found in the rock-pools along the coast of California. characterized by the absence of ventral fins. A. rhodorus is the known species.

ascendancy, n. 2. Same as ancestry.

Epilepsy is followed chiefly by brain affections in childhood, while phthisis and alcoholism are prominent in the ascendency.

Buck, Med. Handbook, V. 37.

Ascending *degeneration, *neuritis. See the

Ascension theory, in mining geol., the theory that ores are derived from the depths of the earth by means of uprising solutions.—Right-ascension circle or hour-circle. See **eircle*.

ascensionist (a-sen'shon-ist), n. One who

makes ascensions; a mountain-climber; also. a balloonist who makes ascensions.

Ascensiontide (a-sen'shon-tid), n. The period

comprising the ten days from Ascension day to Whitsunday.

discipline; self-denial.

Ascetta (a-set'ā), n. [NL.; origin not obvious.] A genus of sponges containing the simplest and most primitive forms, of which A. primordialis is an example.

aschaffite (a-shaf'īt), n. [Aschaff(enburg), a eity in Bavaria, + -ite².] In petrog., a name proposed by Gümbel, in 1865, for an igneous rock of the diorite family rieh in quartz, feldspar, and mica. It is now considered as belonging to kersantite.

ascham, n. 2. A box for carrying bows, arrows, and other archery equipment from place

asbarg (is'barg), n. A dyestuff consisting of the dried flowers and flowering stems of Delphinium Zalil, imported from Afghanistan and Persia: used in native calico-printing and for dyeing silk a bright sulphur-yellow. See *zalil. asbestic, a. II. n. A local commercial ascharite (ash'a-rit), n. A hydrated magnesimm borate occurring in white lumps with boracite: found near Aschersleben, Germany. Aschersonia (ash-èr-sô'ni-à), n. [NL. (Montagne, 1848), named for F. M. Ascherson, a German botanist who wrote about fungi.] A genus of sphæropsidaceous fungi having the pycnidia buried in a pulvinate and the hydronic and the hydronic association of the commercial association of the dried flowers and flowering stems of pheropsidaceous fungi having the pycnidia buried in a pulvinate and the hydronic association of the dried flowers and flowering stems of pheropsidaceous fungi having the pycnidia buried in a pulvinate and the hydronic association of the dried flowers and flowering stems of Delphinium Zalil, imported from Afghanistan and for dried flowers and flowering stems of Delphinium Zalil, imported from Afghanistan and for dried flowers and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil, imported from Afghanistan and flowering stems of Delphinium Zalil (ash-èr-sô'ni-à), n. [NL. (Montagne, 1848), named for F. M. Ascherson, a genus of sphæropsidaceous flowering stems of Delphinium Zalil (ash-èr-sô'ni-à), n. [NL. (Montagne, 1848), named for form sporophores. The species are mostly tropical, growing on leaves. A. Aleurodis grows on Aleurodes Citri, a plant-louse on Citrus in Florida.

Ascherson's haptogenic membrane. See *haptogenic membrane.

aschistic (a-skio'tik), a. [Gr. ἀσχιστος, undivided, + -ic.] In petrol., a term applied to hypoabyssal igneons rocks occurring in dikes which are considered to represent undifferentiated magmas of the depths, and thus to stand in contrast to *haplitic and lamprophyric dike rocks, considered as complementary differentiation products of deep-seated magmas.

ascidicolous (as-i-dik'ō-lus), a. [NL. ascidium + L. colere, dwell in.] Inhabiting or parasitic in or on an ascidian.

Ascitan (a-sī'tan), n. [L. ascitæ, ζ Gr. ἀσκίται, pl., ζ ἀσκός, a skin.] A member of a sect, an offshoot of the Montanists, which appeared



in Galatia about 173 A.D. In their religious revels they danced around skin bottles, declaring them to be the ones referred to in Mat. ix, 17, asclepiadin (as-klē-pi'a-din), u, [Asclepias $(-ad_{-}) + -iu^{2}$,] A glucoside of uncertain composition derived from Asclepias vincetoxicum. Asclepieum (as-klē-pi-ē'um), n. [Gr. Ασκλη-παιου: ζ Ασκληπιος, Æsculapius.] A temple or shrine sacred to Æsculapius.

asclepione (as-klė'pi-on), u. [Asclepias + -one.] A neutral, tasteless, crystalline compound, C₂₀H₃₄O₃, formed in the juice of the milkweed, Asclepias syruca L. It melts at

ascobacterium (as/kō-bak-tē'ri-um), n.; pl. ascobacteria (-ii). [Nl... < Gr. άσκος, a bag, + βακτήριον, a staff or rod.] In bacterial., a bacterium whose cells form masses embedded in or surrounded by gelatinous matter.

Ascobolaceæ (as-kō-bō-lā'sē-ē), n. pl. .tscobolus + -accw.] A family of saprophytie, discomycetous fungi occurring mostly on dung. Ascobolus is the typical genus. Also erroneously written Ascabolcie.

Ascoboleæ (as-kō-bō'[ē-ē), n. pl. See *Asco-

Ascobolus kob'ō-lus), [NL. (Persoon, 1791), in allusiou to the foreible projection of the asei, < Gr. ἀσκός, sae, ascus, $+\beta o$ λος, a throw.] A genus of discoinycetous fungi having a fleshy ascoma and simple brown or violet spores. The asci when mature are projected from the disk and the spores forcibly expelled.
The species are mostly saprophytic and occur on old

Ascoceras (askos'e-ras), [Gr. ἀσκός, 11. leather bag, κερας, a horn.] A singular genus of nautiloid cephalopods. In early growth it had a regularly septate shell with a siphuncle, but

a, a plant showing the habit, enlarged; b, an ascus with paraphyses, cut longitudinally to show the spores, greatly magnifed; c, upper end of an ascus, showing the lid sprung open for the foreible exhont the septa, leaving a plusion of the spores, greatly magnifed; long tubular living (Drawn from Engler and Prantl's "Pflanchamber with the zenfamilien.") chamber with the zenfamilien.")
septa of later growth
at one side. It occurs in the Silurian rocks and is typical

C

at one side. If decement in the sindram rocks and is typical of the family Ascocratidæ.

Ascochyta (as-kok'i-tä), n. [NL. (Libert,

Ascochyta (as-κος 1-19), π. [MI. (Einert, 1831), ζ (fr. ἀσκάς, sae, + χυτός, poured out, ζ χείν, pour.] A genus of sphæropsidaeeous fungi having membranous pycnidia embedded in discolored spots on the leaves and twigs of the host. The pyenospores are hyaline and uniseptate. About 250 species have been described. A. Pisi attacks the leaves and pods of the pea. See *leaf spot of pea.

Ascococcus (as*kō-kok'us), n.; pl. ascococci (-si). [NL, < Gr. ασκός, sae, + κόκκος, berry.] In bacteriol., a generie name generally regarded as a synonym of Micrococcus. See Micrococcus.

Ascocorticiaceæ (as "kō-kôr" ti-si-ā'sē-ē), n. pl.

[NL., < Ascocorticium + -aceæ.] A family of simple, saprophytie, ascomycetous fungi con-

taining the single genus Ascocorticium. Ascocorticium (as#kō-kôr-tis'i-nm), n. (Brefeld, 1891), ζ Gr. ἀσκός, sac, aseus, + Corticium (which see).] A genus of simple, as-eomyeetous fungi in which the asei are borne on a thin membranous, mycelial layer and the

spores are simple and colorless.

spores are simple and colorless.

Ascoglossa (as"kō-glos'ii), n. pl. [NL., < Gr. aσκός, a bag, + γλῶσσα, tongue.] A group of gasteropods of the order Opisthobranchiala. The branchie, mauthe cavity, and shell are generally wanting; the liver is ramified, with its branches inclosed in external papillæ ealled ceruta, or beneath the dorsal surface; the radula has one series of strong teeth, and the worn-out teeth at the front end do not drop off, but are preserved in a special sae, or ascus, whence the name of the group. It includes the families Oxnæcidæ. and the worked teet at the root and all of the half as preserved in a special sac, or ascus, whence the name of the group. It includes the families Oxynorides, Hernæcites, Elysides, and Limapontides.

ascoglossan (as-kō-glos'an), a. and n. [Asco-

II. u. One of the Ascoglossa.

ascogonial (as-kō-gō'ni-al), a. [ascogonium + -al. Of or pertaining to an ascogonium.

When the fertilized oospore of Sphærotheca develops it puts out an ascogonial filament, destined to form the ascus.

Encyc. Brit., XXVIII, 562.

Ascolichenes (as-kō-lī-kē'nēz), a. pl. [NL., < Gr. ασκος, sae, ascus, + Lichenes (which see),] A large group of lichens, including all those which produce asci. They are divided into two subgroups, the Discolichenes and Pyreno-

ascoma (as-kō'mā), n.; pl. ascomata (-ma-tā). [NL., ζ Gr. ἀσκωμα, a leather pad or bellows, ζ aσκός, a leather bag; see ascas.] The sporo-earp of disconvectous fungi and truffles.

It seems probable that the ascomata of the truffle are formed in the late autumn, and lie over the winter in a

ascomycetal (as-ko-mi-se'tal), a. Same as ascomucetous.

ascomycete (as'kō-mī-sēt), n. Any member of the class Ascomycetes.

Ascospora (as-kos po-rā), n. [NL. (Fries, 1825), ζ Gr. ἀσκός, a leather bag, + σπορά, seed.] A genus of pyrenomycetous fungi having small peritheeia and asei and simple hyaline spores.

A. Beyerinckii produces a leaf-spot of cherries, peaches, plums, etc. Coryneum Beyerinckii is said to be its conidial form, and to cause gummosis of cherry-trees.

ascosporic (as'kō-spō-rik), a. Of or pertaining

to an ascospore.

ascript, a. II. n. An annexed remark, note, or explanation; a gloss. Athenæum, Aug. 27, 1892, p. 280.

ascription, n. 3. A prayer at the end of a ser-

mon, ascribing praise to God.

[An assumed suffix taken from diastase (prop. dia-sta-se, where only -se is suffixal), used parallel to -ose. 1 1. In chem., a suffix used to designate the different kinds of ferments, as arginase, lipase, maltase, etc., as well as diastase. See the etymology.—2. A suffix applied to the names of rangs in the quantitative classification of igneous rocks: as, liparase. See classification of igneous rocks, under *rock1.

asebotin (a-sē'bō-tin), n. [ascbo(fuscin, etc.) + -t- + -in².] A glucoside, $C_{24}H_{28}O_{12}$, which is the active poison of *Pieris japonica*. It crystallizes in colorless needles which melt at

Ь

Ascobolus immersus

asebotoxin (a-sē-bō-tok'sin), n. [asebo(fuscin, etc.) + toxin.] An extremely poisonous neutralcrystalline compound, $C_{31}H_{50}O_{10}$, found in Japan in the leaves of *Pieris japonica* and in the United States in lanrel (*Rhododendron maximum*). It is often fatal to sheep and

asellate (a-sel'āt), a. [Gr. à-priv. + L. sella, a seat, saddle.] Without saddle: applied to the primitive septal suture in the ammonoid eephalopods or geniatites, in which the course of the suture over the venter is direct, or without curve.

asellin (a-sel'in), n. [L. asellus, a sea-fish taken to be a eod or haddock, + -in².] A taken to be a eod or haddock, + -in².] A ptomaine ($C_{25}H_{32}N_4$) found in eod-liver oil. asepsine (a-sep'sin), n. Same as *antisepsine. Aseptic surgery. See *surgery. aseptically (a-sep'ti-kal-i), adv. In an aseptic manner; by means of asepsis. asepticism (a-sep'ti-sizm), n. The state of being aseptie; the earrying ant of massyring asseptic.

ing aseptie; the earrying out of measures which insure asepsis.

Popliteal, carotid, and other aneurysms, which are not of traumatic origin, are sometimes most snecessfully dealt with on this plan [dissecting out the aneurysm], which is the old "Method of Antyllus" under the influence of asepticism.

Encyc. Brit., XXXIII. 76.

aseptol (a-sep'tōl), n. [asept(ic) + -ol.] The trade-name for an antiseptic solution containing 33½ per cent. of orthophenolsnlphuric acid, $C_6H_4(OH)SO_3H$.

aseptolin (a-sep tō-lin), n. A solution said to contain 2.74 per cent. of phenol and .018 per cent. of pilocarpine. It is used subeutaneously in phthisis.

In pathal, a lack of normal sequence; specifically, an irregularity in relation between the aurienlar and ventricular contractions of the heart.

The blood pressure . . . is also fairly high when some simple ratio is maintained between the rate of the auricusashen light. See *light1.

glossa + -an.] I. a. Resembling or pertaining to the Ascoglossa.

Buck, Med. Randbook, 11. 689.

asexuality (a-sek-sñ-al'i-ti), n. The quality of being asexual; absence of sex.

asexualization (a sek sū al i zā shon), n. [asexualize + -ation.] The act of rendering sexually incompetent, as by castration. Buck, Med. Handbook, II. 713.

asfalt, u. and r. t. A simplified spelling of as-

asfyxia, n. A simplified spelling of asphyxia. as-gravel (as'grav'el), n. The water-worn constituents of eskars.

This theory seems to account satisfactorily for the passage of the as-gravels into moralinic matter, and for the fact that the gravels in the upper part of an as are often not well rounded.

J. Geikie, The Great tee Age, p. 171.

ash1, n. 1. (d) In Anstralia, the name of vaash', n. 1. (a) In Anstrana, the name of various trees having a real or fancied resemblance to those of the genera Frazinus, especially of trees of the genera Elecocarpus and Findersia.

— Americana ash, specifically, the white ash, Frazinus velutina.— Basket-ash, the black ash, Frazinus nigra: so called because it affords basket splints. [Massachusetts.]— Berlandier ash, Frazinus herlanderiana of the Mexican boundary region.— Blue ash. (a) See ash!, 1. (a). (b) Frazinus lanceolata. [Arkansas and Iowa.] (c) A small Australian tree, Elecocarpus holopetalus, yielding a close-grained pinkish wood is used for staves, oars, and shingles. Also called olive-wood.— Blueberry-ash, an Australian tree, Elecocarpus holopetalus, yielding a close-grained white wood valuable for turning and cablnet-work.— Brown ash, Frazinus nigra; also, F. Pennsylvanica.— Cane-ash, the white ash, Frazinus Americana: so called because it grows in cane-brakes. [Gulf States.]— Crow's ash, a very large tree, Flindersia australis, of Queensland and New South Wales. Also called beech, red cedar, and rasp-pod. See rasp-pod sand Flindersia.— Crow's ash, a very large tree, Flindersia australis, of Utah and elsewhere. The trifoliste dwarf ash is F. anomala of the adjacent United States.— The shrubby fringe-ash is F. dipetala of California.— Gregg ash, Frazinus Gregofi of the Mexicau boundary region.— Leatherleaf ash, Frazinus Oregona of the northwestern United States.— Moreton Bay ash, a very large tree, Eucalyptus tessellaris, of central and northeastern Australia, yielding a timber, tough but not hard, which is excellent for building purposes. It also yields a kino from which a varnish may be made.— New Zealand ash. See *titoki.— Oregon ash, Frazinus Oregona of the morthwestern coast of North America.— Pop-ash, poppy-ash, the water-ash, Frazinus Pennsylvanica. [Rhode Island and Ontarlo.]— Swamp-ash. (a) Same as hoop-ash. (b) The green ash, Frazinus Pennsylvanica. [Rhode Island and Ontarlo.]— Swamp-ash. (a) Same as hoop-ash. (b) The green ash, the re rious trees having a real or fancied resemblance to those of the genns Fraxinus, especially of

the solid residue evaporated to dryness.

As a distinctive mark of genuine wine the ash is of the Encyc. Brit., I. 173.

Canada ashes, a trade-name for ashes from Canada valued as a lertilizer.— In sackcloth and ashes, clothed in sackcloth and sitting in ashes, in sign of deep mourning: a custom among Orientals. Also used figuratively. Mat. xi. 21.

ashamnu (a-sham'nö), n. [Heb. ashamnu, 'we have trespassed,' (asham, trespass.] The Jewish 'short confession of sin.' It is composed of twenty-four acrostic sections which begin with the letters of the Hebrew alphabet in consecutive order (the twenty-first letter, the last, being used three additional times).

ash-bed (ash'bed), n. A bed of ashes; specifically, in geol., a greatly decomposed amygdaloidal basalt on Keweenaw Point, Michigan, which is locally impregnated with native eop-

per.—Ash-bed diabase. See *diabase.
Ashberry metal. See *metal.
ash-canker (ash'kang-kèr), n. A disease of ash-trees which has been attributed to bacteria.

ash-cart (ash'kärt), n. A eart in which ashes and other refuse are earried.

ash-chute (ash'shot), n. Same as ash-shoot. ash-conveyer (ash'kon-vā/er), n. Any form of conveyer used in removing ashes, as from a of conveyer used in removing ashes, as from a boiler-room or locomotive-engine house. Examples are: (1) a screw-conveyer which removes the ashes as fast as they fall from the locomotives into the ash-pit of an engine-house, and delivers them to a traveling-apron or carrier; and (2) a combined conveyer and elevator which passes through a series of ash-pits in an engine-house, conveying and lifting the ashes to an elevated hopper, where they may be discharged into cars. These machines are made in a great variety of forms.

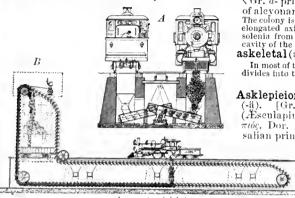
Achdowy cond. Soc. **equal*

Ashdown sand. See *sand1.
ash-dump (ash'dump), n. 1. A place where ashes are put, either temporarily or permanently.—2. A device for dumping the ashes

from a furnace or conveyer. ash-elevator (ash'el'ō-vā-tor), n. Same as

asherah (ash'e-rä), n. [Heb. 'asherah, pl. asherun, or, rarely, asheroth; Assyr. ashirtu, pl. ashrāti.] 1. A wooden pest or pole planted near the altars of various Semitic gods: in the authorized version of the Bible erroneously translated 'grove.'—2. [cap.] A Semitie goddess not mentioned in the Bible except in three dubious passages, but whose name is ertified by early tablets. She was sometimes confused with Ashtoreth. Basl seems to have been the consort of Asherah. The two are often mentioned together in connection with the idotatrous worship of Israel; see 2 Kn. xxiii. 4; 2 Chron. xxxiii. 3; Judges iii. 7. See Ashtoreth.

ash-hoist (ash'hoist), n. An apparatus for lifting ashes, as from the ash-pit of a locomo-



Locomotive Ash-hoist,

A, section across the tracks, showing the inclined screw-conveyers which lift the ashes to e longitudinal bucket-conveyer shown in B. B, section along the tracks, showing then geomeogrep by which the ashes are transferred to the dump.

tive-engine house, the boiler-room in a building, or the stoke-room of a vessel. The simpleat form is a telescopic frame which when open extends from the basement of a building upward through an opening in the sidewalk and carries a block and tackle for hoisting ash-barrels to the sidewalk, where they may be dumped into a cart. When closed the frame sinks below the walk and the opening is covered. A more complicated form consists of a telescopic frame inclosing a drain-and-bucket elevator for lifting ashes from a subcellar to the street and discharging them through a chute into a cart.—Pneumatic ash-hoist, a traveling-crane having a pneumatic hoisting-cylinder which lifts the body of a car loaded with ashes and travels with it across the tracks to an ash-car, into which it is dumped.—Skip ash-hoist, a skip traveling upon an inclined track from the ash-pit of a boiler-house to the top of a tower over a railroad track. The ashes are discharged through a hopper, which delivers its load to a car on the track below, ash-hopper (ash'hop-er), n. Same as leucching, or the stoke-room of a vessel. The simplest

ash-hopper (ash'hop-èr), n. Same as leuch-tub. [Local, U. S.]

ashiver (a-shiv'er), adv. [a3 + shiver.] In a shiver; quivering.

ashler, n. 4. In carp., studding or furring used to eut off the angle at the floor in a garret, so that the room inclosed will have a vertical wall of some height.—Coursed ashler, ashler masonry in which the stones form regular courses, all the blocks in one course being of the same height.—Random-coursed ashler, ashler masonry in which rather broad courses are made of uniform height or width from end to end, but are made up in part of smaller stones, two or three of which together make the height of the course. See eut under ashler (a, b, and c).—Rough ashler, quarried stone selected for ashler masonry, but not dressed.

ashlered, ashlared (ash 'lèrd, -lärd), p. a. Faeed with ashler: said of a wall.

Faced with ashler: said of a wall.

Ashley beds. See *bed1.

Ashmolean (ash-mo'lē-an), a. Of or pertain-Ashmolean (asn-mo le-an), a. Of or pertaining to Elias Ashmole, an eminent English antiquary (1617-92), who founded the Ashmolean Museum at Oxford University in 1679. His collections, which were presented to the university, consisted of books, manuscripts, colns, curlosities, and antiquities. The Ashmolean Society, founded in 1828, was named in his honor.

ash-pan (ash'pan), n. A pan under the grate of a boiler or other fire, into which ashes and elinker may fall and be caught when the fire is

sliced or the fireplace cleaned. **ash-pumpkin** (ash'pump*kin), n. [ash² + pump-kin. It is covered with an ashy bloom.] The wax-gourd, Benincasa hispida. See Benincasa

wax-gourd, princeusa ausmaa. See Dodanden and *condol. [East Indies.]

ashrafi (ash'ra-fe), m. [Also ashrafe, ashrafi; Hind. Pers. ashrafi, < ashrafi, < Ar. ashrafi, gentle, refined, urbane, ashrafi, n., nobles, gentry.] The gold mohur of India.

ash-trolley (ash'trol-i), n. An overhead trolley from which ash-buckets are suspended for transporting ashes from ash-pits to the place of disposal.

Asiatic class, a group of domesticated fawls comprising those breeds which are supposed to have originated 0.-6.

In eastern Asia, and including the brahmas, cochins, and langshans.

asilid (a-sil'id), a. and n. I. u. Having the characteristics of or belonging to the dipterous family Asilidæ.

II. n. An insect of the family Asilidæ.

asiminine (a-sim'i-nin), n. [Asimina + -ine².]
An alkaloid obtained from the fruit of Asimina triloba.

asimmer (a-sim'er), adv. [a3 + simmer.] In a simmering state.

Noon smote flerce the roof's red tiles to heart's desire, The court a simmer with smoke.

Browning, Ned Bratts, st. iv.

Asiphonacea (a-sī-fō-nā'sē-ā), n. pl. [NL., ⟨ Gr. a- priv. + σίφων, pipe, +-acea.] A group of aleyonarian polyps of the order Stelechotokea. The colony is erect, simple or branching, consisting of an elongated axial zooid with thickened walls containing solenia from which secondary zooids are formed. The cavity of the axial zooid is not divided by a partition.

askeletal (a-skel'e-tal), a. Having no skeleton. In most of the askeletal vermaliathe subdermal muscle divides into two layers.

Haeckel (trans.), Wonders of Life, p. 277.

Asklepieion (as-klē-pi-i'on), n.; pl. asklepieia (-a). [Gr. Ασκληπιείον, a temple ... (Æsculapius), neut. of Ασκληπιείος, adj.. ζΑσκλη-τ Εσουμανίμε, a Thesπιός, Dor. Άσκλαπιός, L. Esculapius, a Thessalian prince famous as a physician, later the

tutelary god of medicine.] temple of Asklepios (Æscula-

If we regard with reverence the dim traditional form of Asklepios as a founder of our art, and the Asklepios as tracks, showing the tracks, showing the venerable I-em-hotep and view with interest the primæval unddigne temples and hospitals of Evynt

medicine temples and hospitals of Egypt.

Lancet, June 25, 1904, p. 1771.

asmolder, asmoulder (a-smol'der), adv. [a3 + smolder.] In a smoldering state. Ewinburne.

asoka (ä-sō'kä), n. [Skt. åsoka (åçoka), a tree so ealled (lit., free from sorrow) (a- priv. + soka (çoka), flame, anguish, sorrow.] 1. A low-spreading, leguminous tree, Saraca Indica. bearing large sweet-scented, pale orange-searlet flowers. It is found from southeastern India and Ceylon to Burma and the Malay peninsula and archipelago, and is much cultivated for its beauty and the odor of its flowers. It is a sacred tree of the Hindus, and figures prominently in their legends and literature. 2. The mast-tree or Indian fir, Polyalthia longifolia, of the eustard-apple family. It is eultivated for the sake of its flowers, and is planted in avenues and near temples. See *ran-

asonant (a-so'nant), a. [a-18 + sonant.] With-

asouth (a-south'), adv. phr. [a³ + south.] In or on the south; to or toward the south. J. Barlow, Columbiad, i. 571.

asparaginate (as-par'a-ji-nāt), n. [asparagin + -ate¹.] A salt of asparagin: as, silver asparaginate, NH₂COCH(NH₂)CH₂CO₂Ag, Also aminosuccinavidate.

asparagus-knife (as-par'a-gus-nif), n. A knife having a long bent handle with a chisel-blade at the end, used in cutting the stems of aspara-gus. The chisel-blade is pushed into the soil below the surface.

asparagus-miner (as - par'a - gus - mi"nėr), he larva of a dipterous insect of the lamily Agromyzidæ, Agromyza simplex.

asparagus-rust (as-par'a-gas-rust"), n. A serious disease of asparagus, caused by the fungus Puccinia Asparagi.

asparkle (a-spär'kl), adv. pler. [a3 + sparkle.] In a sparkling state; sparkling.

Otho, free to judge of both,
Ecelin the incready, harsh and loth,
And this more plausible and facile wight
With every point a-sparkle, chose the right,
Browning, Sordello, iv. 585-588.

aspect, n. 9. In forestry, the direction toward which a slope faces. The eight main points of the compass, north, northeast, east, southeast, south, southwest, west, northwest, are distinguished in forest description. Also called exposure.—10. In logic, the concept of a compound object, or this object itself, resulting from mentally connecting a definite conception to an indefinite or partially indesignate object, the compound being regarded as identical with the previously indefinite object.

If with each unit of a collection a, b, c, \ldots of n units [where a, b, c, etc., are absolutely indistinguishable, so that there is nothing to determine which unit is a, which b, etc.] of any form we mentally associate one of a given discrete heap of n marks [if, for example, we distinguish the units by numbers arbitrarily attached to them, or by proper names,] so that each unit thereby becomes distinguished from each of the others and from all other units, we obtain what 1 have termed an aspect of a, b, c, \ldots . A. B. Kempe

A. B. Kempe.

Aspect of the sky, the appearance of the sky as to clouds or rain or color, especially with reference to the possibility of forecasting from it an appreaching change of the weather.—Aspect of the weather-map, the appearance of the isobars, isotherms, and other details given in the daily weather-maps, with special reference to the changes then progressing toward a given station; specifically, the direction of the gradient at any given station. If the gradient rises toward the northwest the aspect is northwest.—Barometric aspect, in sweathermap, the direction toward which the principal barometric gradient is rising; the direction from which the barometric pressure appears to be pushing hardest toward a given station.—Dexter aspect, in astrol., one cast in the reverse order of the signs.—Doctrine of two aspects or double-aspect theory, a variety of psychophysical parallelism consisting in the opinion that the external physical world and the mental world (whether this is understood as synonymous with the internal world or not) are two aspects, though not necessarily aspects of any third more substantive being.

From causal theories we must distinguish sharply what

From causal theories we must distinguish sharply what may be called ultimate theories of the relation of mind and body: theories, that is, which seek to explain and make intelligible to us why mind and body are connected at all. The double aspect theory, with its assertion of one reality manifesting itself under two diverse forms, is an example of such a theory.

C. A. Strong, Why the Mind has a Body, p. 3.

Globe aspect, the presentation of features upon the surface of a sphere as seen from the outside, i. e. as given upon a terrestrial or celestial globe, or upon a geographical map: opposed to sky aspect, which represents things as seen from inside the sphere, as in star-maps. In the globe aspect, not heing at the top of the map, east is at the right; in the sky aspect cast is at the left.—Sky aspect, the presentation of features of a sphere as viewed from a point within it: used in maps of portions of the celestial sphere, which show the relative positions of stars as seen by one looking up to the sky: opposed to globe *aspect (which see).—Thermal aspect, in a weather-map, the direction toward which the principal thermometric or temperature gradient is moving; the direction from which a higher or a lower temperature appears to be advancing toward a given station.

aspectabundt, u. [NL. *aspectabundus, \(\) L. aspectare, look at, observe: see aspect, v.] Of expressive countenance; expressive in face. [Rare.] Globe aspect, the presentation of features upon the

[Rare.]

On the stage he [Dogget] is very aspectabund, wearing a farce on his face, his thoughts deliberating, fram ng his utterance congruous to his look. He is the only comic original now extant.

Downes, Roscius Anglicanus, p. 22. asperated (as'pe-rā-ted), p. a. Roughened; characterized by nnevenness or harshness. Boyle, in Phil. Trans., XI, 806. aspergation (as-per-gā'shon), n. [Erron.

formed from L. aspergere, sprinkle, + -atiou.] The act of sprinkling; aspersion.

They [the Indians and Iranians] had common words They the Tholans and Transhis had common words for priest, sacrifice, song of praise, religious aspergation, for the sacred soma drink, for God, Lord, for heroes and demons, and for Mitra, the god of light.

Isaac Taylor, Origin of the Aryans, p. 190.

asperger (as-pėr'jėr), n. [asperge + -er1.] One who sprinkles.

This asperger personates the old Teamahia of Wnkoki, who parted from the Snake clans at that puchlo to seek his fortune in the east, finding it at Acoma. An. Rep. Bur. Amer. Ethnol., 1897-98, p. 589.

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.]

Aspergillaceæ (as "per-ji-la'se-e), n. pl. [NL., delow the surface.] cluding Aspergillus.

tous fungi including six families and a great diversity of forms. The ascocarp is mostly small and without an opening. The confidal forms include the common moids Aspergillus and Penicillium.

Aspergillidæ (as-pér-jil'i-dē), n. pl. Same as

* Brechitidæ.

aspergillin (as-pér-jil'in), n. [Aspergillus, 2(?),

-in2.] Same as palmellin.

aspergillosis (as per - ji - lo'sis), n. [NL., < Aspergillus + -osis.] A morbid condition resulting from the presence in the ear, sometimes in the lungs, of certain forms of Asper-

Other forms of fungus disease or Mycoses are described. Aspergillosis, or pigeon breeders' disease, is the result of the infection with the Aspergillus funigatus.

Encyc. Brit., XXXI. 131.

asperite (as'pe-rit), n. [L. asper, rough, + -ite2.] In petrog., a term proposed by Becker for andesitic lavas of light color which are porous in texture and consequently rough or harsh to

the touch. The asperites are contrasted with the darker, denser andesites of basaltic habit. They are more commonly called trachytic andesites.

aspermia (a-spėr'mi-ä), n. [NL., ζ Gr. ἀσπερμος: see aspermatism.] Same as aspermatism.

asperolite (as'pe-ro-lit), n. [L. asper, rough, + Gr. $\lambda i\theta_{0\zeta}$, stone.] A variety of chrysocolla copper ore from Tagilsk, Russia.

Asperula (as-per'ū-lā), n. [NL., fem. dim., \(\) L. asper, rough.] A genus of dwarf hardy herbs, used for borders, rockeries, and shady places, containing almost 80 species of ill-defined plants of the family Rubiaccæ, two of which, A. odorata, commonly called sweet woodruff, and A. hexaphylla are commonly cultivated in America.

asperulous (as-per'ū-lus), a. [NL. *asperulus, dim. of L. asper, rough.] lu bot., minutely roughened.

asphaleia (as-fa-le'yā), n. [Gr. ἀσφάλεια, se-eurity, safety certainty, ⟨ἀσφαλής, secure, safe.] A name applied to a safety system of stage mechanism in which the stage-floor and the overhead scenic appliances are all moved by hydraulie power.

Asphalt brown, process. See *brown, *pro-

asphaltene (as-fal'ten), n. [asphalt + -cuc.]
A name originally given by Boussingault to a residue left on distilling asphalt from an oil-The name is now used to designate that portion of asphalt which is soluble in boiling threentine or cold chloroform, but not in gasolene, ether, or acetone. The portion soluble in the latter solvents is called pstrolene.

asphaltum, n.—Gum asphaltum, a term sometimes applied to the purer and more glossy forms of hitumen or asphalt, as used in the manufacture of varnishes.

Asphodeline (as*fō-de-li'nē), n. [NL., < Gr. ἀσφοδέλινος, adj., < ἀσφόδελος, asphodel.] A genus of hardy herbs of the family Liliaccæ. About 14 species are found along the Mediterranean Sea and extending into Persia and Caucasia. A. lutea is most commonly grown in the United States, but other species are not unlikely to be found under cultivation. Asphodeline (as/fo-de-lī'nē), n. not unlikely to be found under cultivation.

Asphodelus (as-fod'é-lus), n. [NL : see asphodel.] A genus of hardy, stemless herbs, with white, lily-like flowers in long racemes, members of the family Liliacew. There are 6 or 7 species natives of the Mediterranean region, Western Asia, the East Indies, and Madagascar, some of which are found in flower-gardens. A. ramosus and A. albus are the only common trade-names in America. Most of the species are found along the Mediterranean Sea.

asphyxia, n.—**Secondary asphyxia**, asphyxia which sometimes recurs with fatal result after apparent recovery from drowning or other form of suffocation.

asphyxiater (as-fik'si-ā-ter), n. 1. A device or apparatus for producing suffocation by surrounding the victim with an irrespirable gas. -2. Specifically, a portable fire-extinguisher which operates by filling the air or space about the fire with a gas which does not support combustion.

asphyxied (as-fik'sid), p.a. Asphyxiated. Car-

aspidate (as'pi-dāt), a. [Gr. $\dot{a}\sigma\pi i\varepsilon$ (- $\iota\delta$ -), shield, $+-ate^1$.] Shield-shaped; having the form of a flat plate. Zittel (trans.), Textbook of Paleon., II. 143.

aspidin (as'pi-din), n. [Aspidium +-in².] A crystalline principle, $C_{23}H_{32}O_7$, said to be poisonous, which is contained in the rhizome of the male-fern, Dryopteris (Aspidium) Filix-

Aspidiotus (as-pi-di-o'tus), n. [NL. (Bouché, 1834), < Gr. ἀσπιδιώτης, shielded, or provided with a shield.] A very im-

portant genus of diaspine scale-insects. comprising many notorious pests of fruit-trees. The seales are

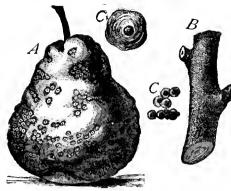
amall and round, those of the males being somewhat oblong; the pellicles of the female are com-

com. pletely super-posed, and in both sexes a, scales on twig; c, immature stage; d, female; e, male; f and g, inside of scales. (Marlatt, U. S. D. A.) are more or less centrally or

European fruit-scale (Aspidiotus ostreafor-mis).

Walnut-scale (Aspidiotus juglans regia).
d'ande, infested twigs.
(Howard, U. S. D. A.)

e, male; f and g, inside less centrally of scales, (Marlatt, U.S., located; the pellicles are aurounded by a broad secretionary supplement; and the circumgenital glands occur in not more than five groups. To this genus belong the San José scale (A. perniciosus), the grapescale (A. uvæ), the walnut-scale (A. juglans-regiæ), the oleander-scale (A. neri), the quince-scale (A. cydoniæ), and many other destructive species.



San José Scale (Aspidiotus perniciosus).

A, infested fruit; B, branch; C, enlarged scales. (Howard,
U. S. D. A.)

Aspidistra (as-pi-dis'trä), n. [NL.] A genus of the Liliaceæ, one species of which (A. lurida) from China is a common florists' plant. It is grown for its handsome crown of long, shining, recurving foliage, in the rorth in pots and as a window decoration, in the south in the open in moist ground. There is a striped-leafed form. The flowers are inconspicuous.

aspidium, n. 3. In phar., the rhizome of Dryopteris Filix-mas and D. marginalis, the oleoresin obtained from which is used for the expulsion of tape-worms.

Aspidobranchiata (as"pi-dō-brang-ki-ā'tä), n.

Aspintoniata (as pi-do-orang-ki-a ta), n. pl. [NL.] Same as Scutibranchia. aspidobranchiate (as pi-dō-brang ki-āt), a. and n. [NL. aspidobranchiatus, \langle Gr. aσ π i \langle (aσ π i δ -), a shield, + β ρaγ χ i α , gills.] I. a. Having the gills bipectinate, as certain gasteropods.

II. n. One of the Aspidobranchiata. Aspidocephali (as "pi-dō-sef'a-lī), n. pl. [NL., ⟨Gr. ἀσπίς, shield, + κεφαλή, head.] A Pale-ozoic order of singular ostracoderm fishes. They have a large, heavily plated head-shield composed of three layers; orbits close together; body, in the typical genera, covered with quadrangular scales; no paired fins; and heterocereal tail. The best-known of these forms is cephalaspis. The species have been found only in the Upper Silurian beds of Great Britain and the Baltic provinces and in the Old Red Sandstone.

Aspidoceras (as-pi-dos'e-ras), n. [NL., \langle Gr. $\dot{a}\sigma\pi\dot{c}$ ς ($\dot{a}\sigma\pi\dot{c}$ -), shield, + $\kappa\dot{e}\rho a\varsigma$, horn.] A genus of Jurassic ammonites with wide umbilicus and rounded whorls having ribs in young

Aspidoceratidæ (as pi-dō-se-rat'i-dō), n. pl. [NL., \(Aspidoceras + -idæ. \)] A family of ammonoid cephalopods from the Jurassic

Aspidocotylea (as "pi-dō-ko-til'ē-ā), n. pl. [NL., ζ Gr. ἀσπίς (ἀσπιδ-), shield, + κοτίλη, socket, +-ca.] A group or an order of trematode platyhelminths having a large ventral round or oval adhesive apparatus, with numerous suckers in one or several rows. They are parasitic in the gall-bladder and alimentary canal of chelonians and flahes and in various organs of mollnsks. The group contains the single family Aspidobothridæ.

contains the single ramily Aspidosothridæ. Aspidoganoidei (as "pi-dō-ga-noi'dō-ī), n. pl. [NL., \langle Gr. $\dot{a}\sigma\pi ic$ ($\dot{a}\sigma\pi \iota \dot{b}$), shield, $\dot{+}$ NL. Ganoidoi, the ganoid fishes.] The proper name for the group of fishes, including extinct species, commonly called Ostracodermi or Ostracophori. Gill, 1876.

Aspidophoroides (as"pi-dof-ō-rō-ī'dēz), n. [NL., < Aspidophorus + -ides.] A genus of very small fishes (sometimes ealled sea-poachers), of the family Agonidæ, found in the Atlantic and North Pacific. It is characterized by the absence of the first dorsal fin. A. monopterygius is the common species.

Mopierygras is the common species. Aspidosoma (as"pi-dō-sō'mā), n. [Gr. ἀσπίς (ἀσπίδ-), shield, + σῶμα, body.] A genus of Paleozoie star-fishes of the order Asterozoa. They have broad ambulacral fields with well-defined marginal plates, and a madreporite on the oral side of the disk. The genus, represented by the appeles A. petaloides, occurs in the Lower Devonan of the Rhine.

aspidospermatine (as*pi-dō-sper'ma-tin), n. [Aspidosperma(t-) + -inc2.] A crystalline, strongly basic, bitter alkaloid, C₂₂H₂₈O₂N₂, found in quebracho bark. It melts at 162° C.

aspidospermine (as"pi-dō-spèr'min), n. [As-pidosperma + -ine².] A erystalline alkaloid, 22H30ON2, found in Aspidosperma Quebracho. It melts at 206° and is very difficultly soluble in water.

aspirate, v. t. 2. To impel by aspiration or suction: as, to aspirate a current of air through

They connected a series of four sir-tight cages by means of rubber tubing and aspirated a steady current of sir through them.

Buck, Med. Handbook.

aspiration, n. 7. The staccato mark (which sec, under staccato).—8. The drawing forward, in flight, against the direction of motion of a wind-current. See the extract.

It would not account for those flights in which the bird maintains his altitude without turning upon his course, as he so often does when the winds are high. This feat . . . is known as "aspiration."

E. C. Hufaker, in The Aeronant. An., 1897, pp. 130, 131.

Aspiration pneumonia, pnenmonia due to the inhalation of infections material, as of vomited matter in a patient recovering from surgical anesthesia.—Aspiration psychrometer. See *psychrometer.

aspirin (as'pi-rin), n. A white crystalline compound, obtained by the action of acetic anhydrid or acetyl chlorid on salicylic acid; acetylsalicylic acid. It is used in the treatment of chorea.

Asplenieæ (as-plē-nī'ē-ē), n. pl. [NL., < Asplenium + -cæ.] A large tribe of polypodiaceous ferns, typified by the genus Asplenium. It contains many important genera of various types, with fronds uniform or dimorphous, venation free or anastomoslug, and usually with the sori distinct, oblong to elongate, uniserial or biaerial, mostly lateral and indusiate; or, as in Stenochtæna, with the naked sorl diffused over the parenchyma of the under surface, asplenioid (as-nelévicid). a. [Asplenium +

[Asplenium + asplenioid (as-plē'ui-oid), a. -oid.] Resembling or pertaining to the fern genus Asplenium.

Asporea (a-spō'rē-ä), n. pl. In Labbé's classification of *Sporozoa*, a group in which the occyte gives direct origin to sporozoites. It includes the single genus *Eimeria*. Also Monogenica.

Asporocystea (as" pō-rō-sis' tē-ā), n. pl. [NL., \langle Gr. a-priv. + $\sigma\pi\rho\rho\dot{\sigma}$, a seed (spore), + $\kappa\iota\sigma\tau\nu$, bladder.] One of two divisions, the other being Sporocystea, proposed by Mesnil for the Coccidia.

asporogenic (a-spō-rō-jen'ik), a. [Gr. à- priv. + σπορά, a seed (spore), + -γενης, -producing.] Not spore-bearing: applied to bacteria, algæ, and similar simple plants which have no spores.

[a-18 +asporogenous (a-spō-roj'e-nus), a. [a-18 + sporogenous.] Not reproducing by means of spores; asporous. Buck, Med. Handbook, means

Asporomycetes (as"pō-rō-m̄-sō'tēz), n. pl. [NL., < Gr. ά- priv. + σπορά, seed (spore), + Mycetes (see Mycetes²).] A name given by Wallroth to a heterogeneous group of fungi, including sterile and imperfect forms, as well

as the work of insects (erincum).

asporulate (a-spor'ö-lat), a. [a-18 + sporulate.] Not producing spores or encysted bodies: as, the asporulate cycle in the de-

velopment of certain coccidia.

Aspro¹ (as pro), n. [NL., ⟨ (†) LGr. ἀσπρος, white, or (†) ⟨ L. asper (It. aspro), rough.] A genus of European river-fishes of the family Percidæ. They live in swift waters, lying close to the bottom and moving with great quickness from one station to another, in the fashion of the American darters (Etheostomatinæ), to which they are closely related.

aspro² (as'prō), n. A silver coin of the Knights of St. John of Jerusalem at Rhodes, in the 14th century; the Rhodian danaro.

as-river (as riv er), n. [See *as.] A stream which is so related to glacial waste as to aecumulate gravelly debris in the form of long ridges or eskars.

There can be no doubt, for example, that the asar are in some way connected in their origin with the great ice-sheet. Dr. Holst therefore accepts Hummel's main contention. He thinks, however, that the as-rivers flowed upon and not underneath the mer de glace.

J. Geikie, The Great Ice Age, p. 171.

assailableness (a-sal'a-bl-nes), n. The quality of being assailable or open to attack. Assam fever. Same as *kala-azar.

Assamese, I. a. 2. Pertaining to the languages

of Assam. II. n. 2. A language of Assam, one of the

Aryan family, akin to Bengali. assassin-bug (a-sas'in-bug), n. Same as *can-

nibal-bua. Assault at arms. (b) A hand-to-hand contest.

Assault at arms. (b) A hand-to-hand contest.

assay, n.—Brightening of assay. See blick.

assaying, n. In chem., this term is usually applied to the ascertainment of the presence and amount of one or more metals in a given substance, and commonly refers to the precious metals, gold and silver. But it is sometimes used in the more general sense, the testing or examination of any substance, as, for example, the determination of the proportion of pure sulphur in a sample of the crude material.

assay-office (a-sā'of-is), n. A laboratory where ores or metals are assayed.

assedation (as-ē-dā'shon), n. In Scotch law, a term formerly used to signify the right of any inferior tenant in the feudal system.

assemblage, n. 4. In the logicomathematical science of multitude, otherwise called the theory of eardinal numbers, a collection, not in the sense that the objects are assembled or collected, but merely in the sense that many things are regarded in thought as constituting one thing. Thus, in this sense, all the variable stars make up an assemblage, although they are scattered through all the universe. The word collection has from ancient times been used in this sense, but assemblage has only recently been so used, by a small number of persons who are either unacquainted with or indifferent to the established terminology of logic.

assemble1, v. t. 4. In entom., to eolleet together (the males of certain moths and other insects) by exposing a female in a wire-gauze

cage: an insect-collector's device.

assembler, n. 4. That part of a linotype typ making machine which groups and holds together, against the mold, the matrices arranged in order for one line of type.

When a key is depressed, the matrix to which it corresponds emerges from its channel, is caught upon an in-clined traveling belt, and is then carried to the assembler. Census Bulletin 216, June 28, 1902, p. 57.

assembling-box (a-sem'bling-boks), n. In a type-easting machine, a box in which the matrices are assembled prior to their delivery to the easting position.

As the keys are struck on the keyboard the matrices and spacers descend into the assembling-box, traveling a distance of about four inches, and the bars are dropped more or less, according to the position of the letter to be brought in line to be cast.

Census Bulletin 216, June 28, 1902, p. 58.

assembling-line (a-sem'bling-lin), n. A line which unites the head of a harpoon to the shaft, and is carried down the shaft, to which it is made fast here and there with knots, thus holding the pieces together in case of a break. J. Murdoch.

The connecting line of a barbed harpoon at first was only a bit of string or thong uniting the head to the shaft. If there be no connecting line between head and shaft, the weapon is called a ranking arrow, hecause the head stays in the animal and causes death. However, head stays in the animal and causes death. However, the rude Fuegian inventors have gotten beyond that, for the thong is carried halfway down the shaft and made fast here and there with knots. The same happy thought is called by Murdoch an "assembling line," since it serves in case of a break in the shaft to save the pieces.

Smithsonian Rep., 1900, p. 200.

assembling-shop (a-sem'bling-shop), n. A shop, room, yard, or other place where the parts, as of machines, barrels, vehicles, motors, pnmps, watches, etc.. are put together to form the finished product. Also called setting-up shop.

assentaneous (as-en-tā'nē-ns), a. [assent + -ancous, as in consentaneous.] Inclined to assent; deferential. Landor.

assentations (as-en-tā'shius), a. [assenta-ti(on) + -ons.] Ready to assent; compliant. assertoric, a. II. n. A proposition capable of being stated absolutely but not affirmed as necessary.

Symbolic logic is confined exclusively to one kind of propositions, viz. assertorics. Athenæum, April 8, 1905, p. 439.

assertorically (a-ser-tor'i-kal-i), adv. [Erron. \(\) assertor + -ie-al + -ly^2.] In an assertorial manner; as an assertion. J. Martineau, Essays, II. 190.

voluntarily sacrificed to prevent a total loss.

assessment-roll (a-ses'ment-rol), n. The official list filed with the tax department of a municipality, containing the names of the property-holders and the amount of property upon which the tax is to be levied.

assest, pp. A simplified spelling of assessed.
assets, n. pl.—Assets enter mains, property coming at once to an executor, administrator, or trustee to satisfy the debts of the estate.—Assets per descent, real property of an heir which may be charged to satisfy the debts of his ancestor.—Liquid assets. See *liquid.
asseverantly (a-sev'e-rant-i), adv. By way of assertion the liquid that Expose on Jonah

of assertion. Abp. Abbot, Expos. on Jonah, p. 562. N. E. D.

assi (as'i), n. [Creek Indian assi, abbrev. of

assi lupub'ski, said to mean 'small leaves.'] The yapon, Ilex Cassine, or the drink made from it. Also assi-shrub.

The Creeks made use of the assi as we use fermented liquors, to promote conviviality.

Gatschet, quoted in Bulletin 14, Botany, U. S. Dept. [Agr., p. 13.]

assideration (a-sid-er-ā'shon), n. [≡lt. assiderazione, ⟨ML. *assideratio(n-), ⟨ *assiderare, pass. *assiderari (It. assiderare), in pp. assiderare eratus, benumbed, \langle L. ad- + siderari, be benumbed, paralyzed, or planet-strnck, \langle sidus (sider-), a constellation, star: see sidereal.] A form of homicide, especially of infauticide, in which death is eaused by placing the victim in ice-eold water.

assiette (ä-si-et'), n. [F., seat, base, foundation, \(asseoir, \text{ sit: see assize.} \) In book binding, a compound applied to the trimmed edges of the leaves of books before the application of goldleaf. It is usually made of bole, bloodstone, and

assify (as'i-fi), v. t.; pret. and pp. assified, ppr. assifying. [ass + -i-fy.] To make an ass of: as, to assify one's self. Southey. [Humorons.] assigned (a-sind'), p. a. Allotted; appointed; transferred; prescribed: as, an assigned position; an assigned quantity.—Assigned servant, during the early history of New South Wales and other British colonies, a convict assigned or silotted to a settler as an unpaid servant, "bound to perform diligently from sunrise to sunset all usual and reasonable labor." The system of assigning convicts from the British islands in this way was established in Australia in 1804. See assignment, 7 and *assignment, 1804. 7, and *assignee, 2. assignee, n. 2. An assigned servant; a con-

vict formerly assigned to an Australian settler as an inpaid servant. See *assigned and

assianment, 7.

assigneeship (as-i-ne'ship), n. The official position of an assignee.

assignment, n.—Equitable assignment, the sale or transfer of property, or rights of property not in existence, or not capable of delivery at the time of the sale, but which may come into existence in the future. Such a sale or transfer is not enforceable except in courts of chancery.

assimilator, assimilator (a-sim'i-la-tér,-tor), One who or that which assimilates

assimilation, n. (e) In physiol., the conversion of chyle into material suitable for appropriation by the tissues. (f) In psychol.: (1) The process whereby new contents are received into a given consciousness; a general term covering the processes of fusion, association contrast, recognition, etc. (2) In Wundt's terminology, a particular form of the simultaneous association of ideas.

Simultaneous associations made up of elements from different psychical compounds may be divided into two classes: into assimilations, or associations between the elements of like compounds, and complications, or associations between elements of unlike compounds.

W. Wundt (trans.), Outlines of Psychol., p. 227.

(g) In petrog., a term used to express the theory that molten magmas, when forced upward into the solid rocks, may, through fusion of included fragments or wall rock, absorb or assimilate a certain amount of these foreign maassort of assimilate a certain amount of these foreign may terrials, thus changing in some degree the chemical composition of the magma as a whole.—Primary assimilation, in physiol., the taking up of chyle by the lactuals.—Progressive assimilation, in philot., assimilation of a sound to the grade or nature of one that precedes it, as of d (a medial) to k (a tenuis) in the word looked, namely, by becoming t (a tenuis).

assishness (as'ish-nes), n. The quality of being like an ass, as in stupidity, stubbornness, ete.; asinine quality or character. Florio, 1598.

assistant, a. 3. Assisting; hence, subordinate in rank; specifically, as an official designation, occupying the next lower grade: as, an

asservilize (a-sér'vil-īz), v. t.; pret. and pp. asservilized, ppr. asservilizing. [asservile + -tze.] To make servile; reduce to the condition of a serf. [Rare.] N. E. D. assessment, n. 5. In marine insurance, the fixing of that part of a loss which saved property must bear to compensate for property volunted. assizes, or beds, constitute a group, stage, or ctuge. Tholed an assize, a plea in bar in Scotland, in a criminal case, to the effect that the accused has once been tried for the oflense charged. Bourier, Law Dict. Assmann's aspiration psychrometer. See

*psychrometer.

Associate. I. a.—Associate antagonists, muscles which, when acting singly, are antagonists, but when setting together move the part in an intermediate direction.—Associate movements, in physiol., movements which take place in a paralyzed part when the non-paralyzed fellow is moved.—Associate muscles, muscles which act together to effect a certain movement.

II. u. 6. In logic, a unit not contained in the collection which is paired with each unit of the collection so as to make a pair distinguished from every pair consisting of the associate and a unit not a member of the collection. Thurs if a lift not a member of the collection. Thus if we consider a number of indistinguishable regular tetrahedrons each with a point at its center, the point at the center of any one of these is an associate of the collection of its summits. According as the pairs of the associate with the different units of the collection are all, some but not all, or none, distinguished from one another, it may be called a discrete pair associate, a various pair associate, or a uniform pair associate; but Kempe terms the last two multiple pair associate and single pair associate.

7. In law: (a) An officer in each of the superior courts of common law in England whose duty it was to keep the records of his court, to attend its nisi prius sittings, and to enter the verdict, make up the postea, and deliver the record to the party entitled thereto. Abbott, Law Dict. (b) A person associated with the judges and clerks of assize in commission of puggest delivery. Modes, and Whiteley. general jail delivery. Mozley and Whiteley Diet. (Bouvier, Law Dictionary.)

associated (a-so'shi-a-ted), p. a. United into or forming an association; showing association; specifically, in phys. chem., noting liquids some of whose molecules consist of aggregates of two or more of the molecules in which the of two or more of the molecules in which the substance exists when in the state of vapor. Thus water in the state of vapor has molecules whose weight is eighteen times the weight of an atom of hydrogen; but in the liquid state it is believed that many of its molecules are two or three times as heavy, or that water is an associated liquid. See *association, 3. Amer. Jour. Sci., June, 1904, p. 428.—Associated Press, an association of newspapers (originally confined to New York) for the collection and distribution of telegraphic news throughout the United States, with central bureaus in New York, Chicago, Cincinnati, and Washington.

associatedness (a-sō'si-ā-ted-nes), n. The condition or fact of being associated. Fitzedward Hall, Hindn Philos. Syst., p. 226.

association, n. 3. In phys. chem., the union of chemical molecules to form more complex aggregates; especially, the union of the molecules of a vapor to form more complex aggregates when the temperature is reduced nearly to the boiling-point, or when they condense into liquids. Acetic acid at 250° C. consists of molecules weighing sixty times the atom of hydrogen, but at 125° C. about half of the molecules weigh twice as much, which proves that two thirds of its gaseous molecules show association of two normal molecules into one. Amer. Jour. Sci., June, 1904, p. 428. 4. In phylogeog., the aggregation of plant in-

dividuals initiated by reproduction on the spot of growth, but finally determined by environment. See *formation and plant *association.

Association is divided into several kinds, according to the factor determining in specific cases, e.g. light association, water-content association.

F. E. Clements, Bot, Surv. Neb., VII. 9.

Anthropogenic association, in sociol., an assumed stage of social evolution in which ape-like creatures, once merely animal, were becoming human, through inonce merely animal, were becoming human, through in-creasingly close association and cooperation: the stage in which language, religion, and other distinctively hu-man acquisitions were evolved. Giddings, Prin. of So-ciol., p. 74.—Association area that portion of the brain surface which is not occupied by centers of sensation: believed to be the seat of the intellectual activities of perception, ideation, memory, etc.—Association cen-ter, a nerve-center which regulates associated move-pents.—Association consciousness or associative believed to be the seat of the intellectual activities of perception, Ideation, memory, etc.—Association center, a nerve-center which regulates associated movements.—Association consciousness or associative consciousness, esc *consciousness, esc association.

chol., p. 296.— Writ of association, in English practice, a writ whereby certain persons (usually the clerk of assize and his subordinate officers) are directed to associate themselves with the justices and sergeants; and they are required to admit the said persons into their society in order to take the assizes. Bouvier, Law Dict.—Zogenic association, in sociol., a stage of social evolution in the lower animals in which the animals consorting in bands, swarms, flocks, or herds find in mutual aid a powerful arm in the struggle for existence, and in which social instincts greatly affect the processes of natural and sexual selection. Gladdings, Prin. of Sociol., p. 74.

associationistic (a - so si - ā - shon - is'tik), a. Pertaining to the theory of associationism, Amer. Jour. Psychol., XIII. 164.

association-time (a-sō-si-ā'shon-tīm"), n. In psychophys.. the time required for the completion of a mental association. The term is used most commonly for the time obtained by subtracting the simple from the associative reaction-time; sometime used for the total duration of the associative reaction.

Associative *aphasia, *comparison, *consciousness, *memory, *reaction. See the

associatively (a - sō 'shi - ā - tiv - li), adv. psychol., by way of association of ideas.

associatory (a-sō'si-a-tō-ri), a. Associative; having the quality of associating; as, the associatory activity of the senses.

Assoc. Sc. An abbreviation of Associate in

Assonia (a-sō'ni-ā), n. [NL. (Cavanilles, 1786), named in honor of Ignacio Jordan de Asso y del Rio .1742-1814), a Spanish botanist.] genus of sterculiaceous trees or shrubs, usually with cordate leaves and axillary or terminal

eymose flowers. See *Dombeya*. **assortative** a-sôr'ta-tiv), a. [assort + -ative.]
Involving a sorting of objects which brings together those of one kind and separates them from all other kinds .- Assortative mating. See

assortive (a-sôr'tiv), a. [assort + -ive.] Same assortative.

assumentum (as- \bar{n} -men'tum), n.; pl. assu-stele or axial cylinder. menta (- \bar{n}). [NL., < LL. assumentum, a patch: aster¹, n. 6. In sponges, a multiactinate see assument.] In bot, one of the valves of a microsclere: same as euaster.—7. In cytol., siliane.

assumingness (a- $s\bar{u}'$ ming-nes), n. The quality of assuming, or of taking upon one's self more than is proper or just. Bentham, 1832.

Hau is proper or just. Bentutm, 1832. **assumption**, n.—Archimedes's assumption, the following: let A₁ be any point on a straight line between any given points A and B₃; then take the points A₂. A₃, A₄, , such that A₁ lies between A and A₂, A₂ between A₁ and A₃, A₃ between A₂ and A₄, and so on, and also such that the sects AA₁, A₁A₂, A₂A₃, A₃A₄, , there is always such a point, A₀, that B lies between A and A₂.

assurant (a-shör'ant), n. [assure + -ant. The word should mean the assurer, not the assured.] One whose life or whose property is covered by insurance. [Rare.] N. E. D.

Assyro-Aramean (a-sī"rō-ar-a-mē'an), a. In chiding Assyrian and Babylonian on one side, and Aramean and its cognates on the other: a group-name in a classification of Semitic lan-

Assyro-Babylonian (a-sī/rộ-bab-i-lō/ni-an), a. Pertaining to or common to both Assyria and

Babylonia.

Assyroid (a - sī'roid), a. [More prop. *Assyroid, (L. Assyrii, Gr. 'Ασσυμια, Assyrians, + ειδος, form.] Of or pertaining to a race of western Asia, the purest representatives of which are pictured on ancient Assyrian monuments: characterized by a prominent hooked nose and thick lips. Deniker, Races of Man,

Astacidea (as-ta-sid'ē-ä), n. pl. [Astacus + -idea.] A tribe of macrurous decapod crustaceans including the families Eryontide, Nephropsidæ, Potamobiidæ, and Parastacidæ.

astacoid, a. 2. Resembling a lobster or crawfish.—Astacoid rash, a diffuse reddish form of emption in smallpox, the color of which resembles that of the shell of a boiled lobster.

astacomorph (as - tak ' o - môrf), n. [Astaco-One of the Astacomorpha.

Astacomorpha (as ta-kō-môr fā), n. pl. [NL., ζ Gr. αστακός, a lobster, + μορφή, form.] A group of crustaceans which includes the crawfishes and lobsters. Huxley.

astacomorphous (as ta-kō-môr fus), n. [As

astacomorph + -ous.] Resembling or having

astalk (a-stak'), adv. [a3 + stalk.] Stalking about: afoot: lurking about. M. N. Murfree, Broomsedge Cove, p. 471.

A-standard (ā'stan"därd), n. A vertical fram-

ing shaped like the capital letter A: used as a

support for the parts of vertical pumps and engines. Also called *A-frame.

astarboard, adv. 2. Specifically, said of the tiller when it is shoved or drawn over to the starboard side of the vessel.—Hard astarboard (naut.), a phrase signifying that the tiller is jammed to starboard to its fullest extent, so that the rudder is thrown to the port side as far as it will go.

Astartian (a-stär'ti-an), a. and n. Astarte, a genus of molfüsks.] In geol., noting a subdivision of the Jurassic system in France and the Jura, constituting the upper substage of the Sequanian, which lies between the Kimmeridgian below and the Oxfordian above and corresponds to the Corallian or Coral Rag

astartoid (as-tär'toid), a. and n. [NL. Astarte, a genus of mollusks, + -oid.] I, a. Similar to the genns Astarte.

II. n. A pelecypod mollusk allied to Astarte. **Astasia**, n. 2. [l. c.] Inability to stand in consequence of defective muscular action, which is not necessarily incoordination or paralysis.

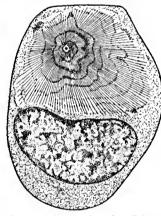
astatki (as-tat'ki), n. [Appar. a trade corruption of Russ. ostatokň, residue.] The residuum from the distillation of Russian petroleum after the more volatile hydrocarbons, np and including kerosene or illuminating oil. have been driven off. It occurs in the proportion of 10 to 15 per cent., and has a specific gravity of .9 to .95. This material is to some extent treated for the production of lubricating oil, but is for the most part utilized as fuel.

Astbury ware. See *ware2.

astegorrhine (as-teg'ō-nin), a. [Gr. \dot{a} - priv. + $\sigma \dot{\epsilon} \dot{\gamma} o \dot{\epsilon}$, roof, + $\dot{\rho} \dot{\epsilon} \dot{\epsilon}$ ($\dot{\rho} \dot{\nu} \dot{\nu}$), nose.] In craniom., having a flat nose, like apes. Von Török.

astelic (a-stel'ik), a. In bot., destitute of a stele or axial cylinder.

astely (a-ste'li), n. [NL. *astelia, \langle Gr. a-priv. + $\sigma \tau \dot{\eta} \dot{\gamma} \eta$, pillar: see stele.] In bot., absence of a stele or axial cylinder.



Spermatogonium of Salamander. (Drüner.)

The nucleus lies below. Above is the enormous aster, the centrosome at its center, its rays showing indications of nine concentric circles of microsomes. The area within the second circle probably represents the "attraction-sphere" of Van Beneden. Highly magnified. From Wilson's "The Cell."

the star-shaped structure at either pole of the karyokinetic figure during cell-division: same as *karyaster (which see).—8. Two small arches of precious metal, transversely riveted (said to have been invented by St. John Chrysostom), placed over the sacred wafer in the paten in preparation for the eucharistic sacrifice, to prevent the veil from touching it: now out of use.

The aster consists of two crosses and is used to place over the wafer.

Encyc. Brit., XXVII. 238. The aster consists of two crossed half-hoops of silver

Energe. Brit., XXVII. 238.

Calico-aster, Aster lateriforus: so called on account of the calico-like effect of its dull purple-and-whitish heads. Also called starved aster.—Frostweed-aster. Same as white heath aster, below.—New England aster, Aster Norve-Angliæ, a tall species bearing large heads with deep-purple rays.—New York aster, an Atlantic coast species, Aster Novi-Belgii, the heads of which have violet rays.—Plume-aster, a species, Aster plumarius, on North Carolina mountain-tops, which has a long violet inflorescence.—Purple-stem aster, a large swamp species, A. puniceus, ranging from Nova Scotla to Minnesota and south to North Carolina, with numerous smallish, violet-purple flowers and thick, rough-hairy, purple stems. See *cocash.—Rayless aster, a plant of the asteraceous genus Brachyactis, the heads of which have the rays very short or wanting.—Rice-button aster, Aster dumosus, a delicate species with small whiterayed heads on stender branchlets.—Sea-shore aster,

Aster Tripolium, a salt-marsh species of Europe and Russian Asia.—Starved aster. Same as calico-aster, above.—White heath-aster, a pasture weed, Aster ericoides, with small white heads: very abundant in the eastern United States.—White-wreath aster, Aster multiforus: so called from its densely crowded small white heads.—Wood-aster, one of several woodland species, especially A. cordifolius, the blue wood-aster.

especially A. cordifolius, the blue wood-aster.

-aster. From its use in oleaster, etc., this suffix has been used in new formations, implying 'false,' as in verticillaster, false verticil. The Latin form appears in new systematic names, as Lupinaster, Malvastrum, etc.

Asteraceæ (as-te-rā'sē-ē), n. pl. [NL. (Lindley, 1836), < Aster + -aceæ.] A family of dicotyledonous sympetalous plants, the aster family, usually included in the Composite, of which it constitutes the Tubulidare expent it constitutes the Tubulifloræ, except that the Ambrosiaccæ are now segregated. Called Carduaceæ by some authors. See Composited Graduter by some authors. See Com-posited, Tubulifloræ, Ciekoriaccæ, Ligulifloræ, and ★Ambrosiaccæ.

asteraceous (as-te-rā'shius), a. [Asteraceæ + -ons.] Belonging to or having the characters of the Asteraceæ.

astereognosis (as-tē"ri-og-nō'sis), n. [NL., < Gr. \dot{a} - priv. + $\sigma\tau\epsilon\rho\epsilon\dot{o}\epsilon$, solid, + $\gamma\nu\dot{\omega}\sigma\iota\epsilon$, knowledge.] A defect in tactile sensation, which causes inability to estimate the form or substance of a body by touch.

Isolated loss of muscle sense usually shows itself in one of two ways; as loss of power to appreciate the position of the limbs, and as astereognosis, or failure to estimate the size, shape and weight of objects. The former is more marked in the legs and is seen in some cases of loconotor ataxia and multiple sclerosis; the latter is more often found in the arms and is a rare accompaniment of organic brain disease.

Buck, Med. Handbook, VII. 120.

Asteriidæ, n. pl. 2. A family of asteroid Stellaroidea, of the order Cryptozonia, having opposite ambulacral ossieles, tube-feet in four rows, and an abactinal skeleton reticular and consisting of small unequal plates. It includes Asterias, Anasterias, Uniophora, and several

other genera.

Asterina, n. 2. In bot., a genus of perisporiaceons fungi having the perithecia covered with or seated on a dark-colored radiating Haver of hyphæ. The spores are uniseptate and hrown. Many of the species are tropical and occur on leaves and stems. Léveillé, 1845.

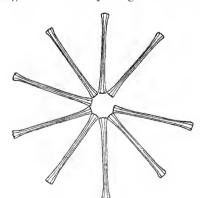
Asterinidæ, n. pl. 2. A family of asteroid Stellaroidea, of the order Phanerozonia. They have opposite ambulacral ossicles, small inconspicuous marginal plates whose axes are convergent, and internediate plates inhiciate and without pedicellaria. The family includes Asterina, Radiaster, Nepanthia, Palminary delicerations of the control of the contr pes, and other genera.

asterioid (as-tē'ri-oid), a. [Asterias + -oid.]

Shaped like a starfish.

asterion, n. 2. [cap.] The northern of the two 'hunting-dogs' in the constellation Canes Venatici. The other is Chara.

Asterionella (as-te"ri-ō-nel'ä), n. [NL., irreg. ⟨ Gr. ἀστέριος (neut. ἀστέριον), starlike (⟨ ἀστήρ, star), + dim. -ella.] A genus of diatoms



Asterionella formosa. Hass, Greatly magnified. (From West's "British Freshwater Algre.")

characterized by the arrangement of the frustules into stellar shapes; one of the organisms responsible for a bad odor and taste in drinking-water.

asterisk (as'te-risk), r. t. To insert an asterisk (in a text) as the reference to a foot-note or for any other reason for which an asterisk is used. See asterisk, I.

asterismal (as-te-riz'mal), a. Of or pertain-

ing to asterisms, or groups of stars.

asterium (as-tē'ri-nm), n. [NL., < Gr. ἀστήρ,
a star.] The name given by Lockyer to a supposed element the presence of which in

the atmosphere of certain stars seemed to be asthenoid (as-then'oid), a. Weak; prone to the growth-stages of the simple individual orindicated by spectroscopic examination of the light received from them. At one time it was suspected that helium was compound in character and asterium one of its constituents; but the more careful study of helium by Ramsay has rendered it improbable that this is the case or that asterium really exists.

Asternata (as-tèr-nā'tā), n. pl. [NL., ⟨Gr. ā- asthenope (as'the-nōp), n. [Back-formation priv. + στέρνον, sternum, + -ata².] A sub- from asthenopia.] One who suffers from order of irregular Echinoidea, of the order asthenopia or weak vision. Buck, Med. Hand-Attoostomata. The peristone is central and never bilabiate; the ambulacra are simple, petaloid, and generally all similar; the floscelle is usually present; and there is no sternum.

Asternopteryx (as-tér-nop'te-riks), n. $\langle Gr. a - priv. + \sigma \tau \epsilon \rho rov, breast, + \pi \tau \epsilon \rho v \xi, wing.$ A genus of small blennies without ven-

tral fins, found on the coast of Greenland, asterol (as'te-rol), n. [Gr. àστήρ, a star, +-ol.] A trade-name for a double salt of mercuric paraphenolsulphonate and ammonium tartrate, $(C_6H_5(OH)SO_3)_2Hg.4C_4H_4O_6(NH_4)_2 + SH_2O$. It is used as an antiseptic in place of mercuric chlorid.

asterolepid (as-te-rō-lep'id), a. and a. I. a. Pertaining to or having the characters of Asterolepis, a genus of fossil fishes.

The theory which explains asterolepid limbs as the produced and jointed head-angles, or 'cornua,' of forms like Cephalaspis.

Amer. Jour. Sci., Aug., 1904, p. 141. Cephalaspis.

II. n. A member of the genus Asterolepis. Asterolepidæ (as*te-rō-lep'i-dē), n. pl. [NL., \(Asterolepis + -idæ. \) A family of extinct and very curious fishes from the Devonian formations of Great Britain, Germany, and Canada. of which Pterichthys, Asterolepis, and Bothrioof which Preventings, Asterotepis, and Bothriolepis are the best-known genera. In Pterichthys
the head and trunk are heavily plated, the former being
articulated to the latter and having a movable plate between the orbits; the tail is sealy and bears a single dorsal fin and a heterocercal caudal fin; and a pair of lateral plated appendages is jointed to the anterior part of
the trunk. These were articulated near the middle and
were probably used in crawling over muddy bottoms.

asterolithology (as"te-rō-li-thol'ō-ji), n. Same as astrolithology.
Asteroma (as-te-rō'mā), n. [NL. (De Candolle,

1815), (Gr. αστήρ, star, + -oma.] A genus of sphæropsidaceous fungi having the small pyatches. The pycnospores are minute, simple, and hyaline. The species are numerous and widely distrib-uted, occurring mostly as parasites on leaves.

Asterophora (as-te-rof $\tilde{\phi}$ -rä), n. pl. [NL., ζ Gr. $g\sigma\tau\eta\rho$, star, + - $\varphi\sigma\rho\sigma\varsigma$, ζ $\varphi\varepsilon\rho\varepsilon\iota\nu$, bear.] Same as *Astrophora.

Asterospondyli (as te-rō-spon'di-lī), n. pl. [NL., ζ Gr. αστήρ, star, + σπόνδυλος, a vertebra.] A suborder or division of sharks containing those species in which the vertebral ossifications radiate from the centers of the vertebræ, which are largely cartilaginous: correlated with *Cyclospondyli.

asterospondylous (as "te-rō-spon'di-lus), a.

Having vertebræ which are partly cartilaginous and cartilaginous and partly ossified by the deposit of bone radiating from the center: this, when seen in cross-section, has a starlike pattern.

Asterozoa (as "tero-rozoa" (as "tero-ro Asterozoa



Asterospondylous vertebra of a fossil shark, Oxyrhina, seen in profile and in section, showing the star-like rays of bone.

others being Pelmatozoa and Echinozoa) into which Haeckel divided the Echinodermata. It includes the Ophiuroidea and the Asteroidea.

asterozoan (as "te-rō-zō'an), a. and n. I. a. Pertaining to or having the characters of the Asterozoa.

II. n. A member of the branch or order Asterozoa.

asthenic. I. a.—Asthenic emotions. See **emotion.
II. n. One who is asthenic or physically undeveloped or run down.

asthenical (as-then'i-kal), a. Relating to asthenics or asthenic conditions or persons;

Asthenodonta (as"the-no-don'ta), n, nl. [NL. \(\lambda\) Gr. \(\alpha\) \(\delta\) \(\delta\) (\rangle\) (\rangle\) \(\delta\) (\rangle\) \(\delta\) (\rangle\) (\rangle\) \(\delta\) (\rangle\) (\ran value in which the hinge-teeth have become obsolete from disnse. It comprises boring and burrowing species. In some of the genera, as *Pholas*, a conspicuous onyophore is developed. The group also includes the myas, corbulas, saxicaves, and teredos.

decay or die out; lacking in persistency.

The dwindling or asthenoid species, by failing with different successive periods of time have a value of another kind in associating rocks together in groups, Etheridge, Man. of Geol., I. 437.

book, 1, 581,

book, 1. 581.

Asthma crystals. See Charcot-Leyden crystals, under crystal. — Bronchial asthma, true asthma, due to spasm of the smaller bronchial tubes and not dependent upon any evident organic lesion.—Essential asthma. Same as bronchial **asthma or asthma (without qualifying word).—Furriers' asthma, chronic bronchitis, due to the inhalation of hair-dust and particles of dyes, to which workers in fur are exposed.—Heberden's asthma, angina pectoris.—Humid asthma, asthma accompanied by profuse expectoration; edena of the lungs.—Kopp's asthma, laryngismus stridulus.—Miners' asthma, anthracosis.—Petters' asthma, pneumonoconiosis.

asthma-herb (ast'mä-erb), n. A spurgewort, Euphorbia hirta, found in the tropics of the whole world, and of repute in Australia as a remedy for asthma.

asthma-paper (ast'ma-pā/per), n. Bibulons
paper moistened with a definite-strength solupaper moistened with a definite-strength solupaper moistened with a definite-strength solution of potassium nitrate and dried. fumes from the ignited paper are inhaled by asthmatics.

asthmatic, n. 2. Any agent or medicine capable of preventing or relieving asthmatic attacks, as stramonium, chloroform, etc.

Astian (as'ti-an), a. and a. [It. Asti, a town in Piedmont.] In gcol., noting the middle stage in the Pliocene series of the Mediterranean region, consisting of fluviatile and fluviolacustrine sands interbedded with marine deposits. These beds abound in fossils, among them being remains of rhinoceroses, mastodons, the Asiatic apes, and the African antelopes.

astigmatic, a. 2. In bot., without a stigma: applied to the flowers of gynnosperms from an ecological point of view. See *Stigmatica. an ecological point of view. See Sugmettee. F. E. Clements.—Astigmatic difference, in the theory of lenses, the distance between the two focal lines in the image of a laminous point, formed by the passage of any elementary ray through an astigmatic system.

pyenidia seated on star-like, dark mycelial astigmatically (as-tig-mat'i-kal-i), adr. In patches. The pyenospores are minute, simple, and hysline. The species are numerous and widely distributed openwing mostly as parasites on leaves. the axis of a lens system or mirror, or when the reflecting or refracting surface has two different curvatures

different curvatures.

Astigmatism against the rule, a condition of astigmatism in which the curvature of the refracting surface is greater in the horizontal meridians.—Astigmatism with the rule, the usual form of astigmatism, in which the curvature of the refracting surface is greater in the vertical meridians.—Compound astigmatism, astigmatism combined with myopla or hypermetropia.—Corneal astigmatism, astigmatism due to irregular refraction in the cornea.—Hypermetropic astigmatism, astigmatism in which hypermetropic astigmatism, astigmatism in one meridian (simple) or in both meridians (compound).—Irregular astigmatism, astigmatism the degree of which varies in different portions of the same meridian.—Lenticular astigmatism, astigmatism due to irregular refraction in the crystalline lens.—Mixed astigmatism, astigmatism in which hypermetropia coexists in one meridian (simple) or in both meridians (compound).—Regular astigmatism, astigmatism in which myopia eoexists in one meridian (simple) or in both meridians (compound).—Regular astigmatism, astigmatism in which the meridians of greatest refraction are at right angles to each other.

astigmia (as-tig'mi-ä), n. [NL.] Same as astigmatism.

astigmoscope (as-tig'mō-skōp), n. [astigm (a-tism) + Gr. σκοπείν, view.] Same as astigmom-

Astilbe (as-til'bē), n. [NL.] A genus of perennial plants, belonging to the family Saxifraganial plants, belonging to the family Saxifragaceee. There are some 7 or 8 species in Asia and North America. A. Japonica, with large, conical or pyramidal, terminal clusters of many small, white flowers, is much used for forcing, particularly for early spring bloom. These plants may also be grown in the open. This genus is often confounded with the resucceous genus Aruncus. The genera Aruncus and Spireae are characterized by having many stamens and usually several or many pistils; Astilbe has 8 or 10 stamens and a single 2-3-lobed pistil. Astilbe Lemoinei is said to he a hybrid between Astilbe Japonica and Aruncus astilboides.

astipulate (as-tip'ū-lāt), a. [a-18 + stipulate, a.] Same as existipulate.

Same as exstipulate.

astite (as'tit), n. [From Cima d'Asta.] In petrog., the name proposed by Salomon, in 1898, for hornfels consisting of mica and andalusite.

astogenetic (as-tō-jē-net'ik), a. [Gr. åστν, eity, + γένεσις, birth: see genetic.] In zoöl., a term applied to the growth-stages of a compound individual or colony: as, astogenetic series, in distinction from ontogenetic series, or

ganism.

astomatal (as-tō'ma-tal), n. Same as astoma-

Astomea (as-to'mē-ii), n. pl. [NL.. < Gr. α-priv. + στόμα, mouth.] A group of Protozou, of the class Mastigophora and the order Polymastigida, having many flagella and no mouthopening. It includes the genera Multicilia and Grassia.

astomia (as-tō'mi-ji), H. astomia (as-tō'mi-ii), n. [NL., ζ Gr. αστομικς, αστομικς, without a mouth. ζ α- priv. + στόμα, mouth.] Congenital absence of the mouth.

astonishedness (a-ston'ishd-nes). n. state of being astonished; as onishment. Pals-

grace. [Rare.] N. E. D.

Astoria shales. See *shale?.

astræiform, a. 2. In the study of the madreporarian corals, noting colonies of calycles, all of which reach the same height and seem to exhibit no tendency to grow or bud independently: from the coral genus Astraa.

The true astræiform colony is therefore that built up by a calicle which is by habit low and whose buds spread laterally over the substratum all round the parent. Annals and May. Nat. Hist., Jan., 1904. p. 27.

knuckle-downs. Am March, 1902, p. 154. Amer. Anthropologist, Jan .-

astragalectomy (ns-trag-a-lek'tō-mi), n. [Gr. $a\sigma\tau\rho\alpha$) alog, astragalus, $+i\kappa\tau\sigma\mu\dot{\nu}$, excision.] In surg., excision of the astragalus.

astragalizont (as'tra-gal-i-zont), n. [Gr. agrag-ASTragalizont (as tra-gal-1-zont), n. [Gr. αστρα-γαλίζων (-αντ) ppr. of ἀστραγαλίζειν, play with astragali, < ἀστραγαλος, astragalus.] In Gr. antiq., an astragalus or hucklebone player. This was a favorite subject with Greek artists, and sev-eral statues representing it are to be found in European museums. There was a famous statue of an astragalizont by Polyeletus. museums. Th

astragalocalcanean (as-trag"a-lō-kal-kā'nę̃-an), a. In anat., relating to both the astragalus and the calcaneum. Buck, Med.Handbook, IV. 192.

astragalocrural (as-trag"a-lō-krū'ral), a. In anat., relating to the astragalus and to the leg; specifically, noting the ankle-joint. Buck, Med. Handbook, IV. 194.

In astragalus, n. 3. pl. The small carpal and tarsal bones of animals, used by the ancients in games of chance. Different sides had dif-ferent numbers and different names. There were many artificial astragali, some of which were decorated.

astral, a. 3. In cytol., of or pertaining to an aster: as, the astral rays in the karyokinetic or mitotic division-figure of the cell.—4. In some geologic classifications, noting the primitive period or era in the earth's history characterized as "that of the fluid globe, having a heavy vaporous envelop containing the future water of the globe or its dissociated elements and other heavy vapors or gases." Plana, Manual of Geology, p. 440.— Astral light, in theosophy, the light supposed to be derived from the stars.— Astral world, in theosophy, the world of stars and stellar spaces with the spirits supposed to inhabit them.

astralin (astra-lin), n. [astral + -m².] One of the grandes of illuminating oil from Light.

of the grades of illuminating oil from Russian netroleum.

astrally (as'tral-i), adv. 1. By means of or according to the stars.—2. In theos., with reference to or by means of astral bodies, the astral fluid, etc.

astrapophobia (as"tra-pō-fō'bi-ä), n.

astrapophonia (as tra-po-to or-a), n. [ALL., \
Gr. aστραπή, lightning, +-φοβία, \ \ φοβείν, fear.]

A morbid fear of lightning.

Astrapotheria (as -tra - pō - thē ' ri - ā), n. pl.

[NL., pl. of Astrapotherium, the type genus, \
Gr. aστραπή, lightning, + θηρίον, beast.] The

Astranotheriidæ considered as a suborder Astrapotheriidæ considered as a suborder.

Astrapotheriidæ (as-tra-pō-the-rī'i-dē), n. pl. [NL. Astrapotherium, the type genus, + -idæ.] A family of extinct ungulate mammals of large size, with molars much like those of a rhinoceros, a pair of tusk-like npper incisors, and tusk-like lower canines. Their bones are found

tusk-like lower cannies. Their bones are toinna in the Miocene of Patagonia. Ameghino, 1887. astrochemistry (as-trō-kem'is-trì), n. [Gr. άστρον, star, + Ε. chemistry.] That part of astronomy which treats of what is known of the chemistry of the celestial bodies.

astrocœle (as trō-sēl), n. [Gr. ἀστρον, star, + κοῖλος, hollow.] In cytol., the space in which κοίλος, hollow.] In cytol., the space in which the centrosome lies at the center of the astrosphere at either pole of the karyokinetic spindle. **Astrocrinidæ** (as-trō-krin'i-dō), n. pl. [NL., < Astrocrinus (ζ Gr. ἀστρον, star, + κρίνον, a lily)

+ -idx.] The only family of the irregular tack. I are only laminy of the irregular blastoid echinoderms of the order Irregulares. They are unpedimentated forms in which one ambulaerum differs in form and size from the rest. They occur in the Carboniferous limestone.

astrocyte (as'trō-sit), n. [Gr. ἀστρον, star, + κίτος, a hollow (a cell).] In histol., a hone-cell or bone-corpuscle: so called on account of its

starlike form.

astrographic (as-trō-graf'ik), a. or pertaining to astrography, or the charting of the stars. At present this charting is done mainly by means of photography. Nature, June 4, 1903, p. 111.—Astrographic chart. See *chart.

astroidin (as-trō'i-din), n. A yellow pigment

astrolari in certain lower invertebrates.
astrolarva (as-trō-lär'vä), n.; pl. astrolarræ (-vē). The swimming bilateral larval stage of an echinoderm.

The little astrolarva has no muscles, and no water-vessels nor blood-vessels.

Haeckel (trans.), Wonders of Life, p. 279.

astrolater (as-trol'a-ter), n. A worshiper of the stars and other heavenly bodies.

astrologous (as -trol'o - gns), a. Astrological.

Byron. [Rare.]

astrology, n.—Judicial astrology, the art of fore-telling future events by the positiona and motions of the stars, as contradistinguished from natural astrology, which treats of the supposed influence of the stars upon mankind, but does not attempt prediction.

Astrolytes (as-trol'i-tēz), n. [NL., ζGr. ἀστρον, star, + (?) -λντης. ζάνεν Ιορος.] star, + (?) $-\lambda \nu \tau \eta \varepsilon$, $\langle \lambda \nu \varepsilon \nu \nu$, loose.] A gent sculpins found on the coast of California. A genus of

astromancer (as'trō-man-ser), n. An astroi-

astrometeoroscope (as#trē-mē'tē-o-rē-skop), of the optical lantern, geometrical designs which constantly change their form.

astrometrical (as-trō-met'ri-kal), a. Pertaining to astrometry or designed to furnish, in astronomical work, quantitative measures of magnitude, position, distance, and motion.

Radial-velocity determinations, for example, are based largely upon astrophysical methods, but the direct results are mostly astrometrical.

Astrophysical Jour., Sept., 1903, p. 156.

Astronomical geography. See *geography.—Astronomical meridian, a great circle passing through the zenith and the celestial poles.—Astronomical *revolver, *telescope, *tunit, *zenith. See the nouns.

astronomy, n. Several other branches of the science are recognized: gravitational astronomy or astronomy, which is now generally discarded heeause of the danger of confusion with astronomical physics or astrophysics; nautical astronomy, astrenomy applied to navigation; sidereal astronomy, the branch of the science which deals with the stars; spheric astronomy, which treats of the apparent position and motions of bodies on the celestial sphere; theoretical astronomy, which deals with the calculation of orbits and perturbations. These various branches interface in all directions.—Astronomy of the invisible, that branch of the actence which deals with heavenly bodies which cannot be seen, and deducea inferences concerning them from their effects on those that are visible. Thus Bessel ascertained the existence of the companions of Sirius and Procyon long before any telescope was made which would show them. Knowledge and Scientific News, Mar., 1904, p. 31.

astrophobia (as-trō-fō'bi-ä), n. [NL., < Gr.

astrophobia (as-trō-fō'bi-ā), n. [NL., ζ Gr. άστρον, star, + -φοβία, ζ φοβείν, fear.] Morbid dread of starlight, or of going out of doors on

a eloudless night.

Astrophora (as-trof'ō-rā), n. pl. [NL., < Gr. aστρου, star, + -φορος, < φέρειν, bear.] A group of choristidan, tetractinellid sponges one or more of whose microscleres are asters.

astrophotographic (as-trō-fō-tō-graf'ik), a. [astrophotograph(y) + -ie.] Of or pertaining to astrophotography or astrographic work earried on by means of photography: also sometimes applied to any astronomical work into which applied to any astronomical work into which photography enters: as, the general investigation of the "Conditions of Maximum Efficiency in Astrophotographic Work," Astrophysical Jour., XVI. 672.—Astrophotographic campaign, the combined operations of various observatories for forming a complete photographic chart of the heavens: begun in 1888.

astrophotometry (as-trō-fō-tom'e-tri), n. [Gr. άστρον, star, + photometry.] The science and art of measuring the brightness of stars or other heavenly bodies; astronomical photom-

astrophysicist (as-trō-fiz'i-sist), n. An as-tronomer who occupies himself with astrophysics. Sci. Amer. Sup., Nov. 22, 1903,

(astronomy) into astrophysics; study (astron-Herbert Spencer, entirely destitute of ap-

omy) chiefly as astrophysics. G. S. Hall, Adolescence, H. 548.

astrophysics (as'tro-fiz*iks), n. Astronomical physics.

Astrophytonidæ (as*trō-fi-ton'i-dē), n. pl. [NL., < Astrophyton + -idæ. The correct formation is *Astrophytidæ.] A family of ophimrans having the arms much branched, as the basket-fish.

astropyle (as'trô-pil), n. [NL., ζ Gr. ἀστρον, star. + πίζη, a gate.] In zoöl., one of the funnel-like projections of the membrane around

the pores in Cannopylea. astrorhiza, n. 2. [1. c.; pl. astrorhiza.] In the fossil hydrocorallines named Stromatoporoidea, one of the shallow stellate furrows on the surfaces of successive lamina which radiate outward from numerous centers.

Astrorhizidea (as 'trō-ri-zid'(÷-ii), n. pl. [NL., \(\) Astrorhiza + -idea.] An order of Foram-inifera containing the families Astrorhizidæ, Pilulinidæ, Saccamminidæ, and Rhabdam-

I. a. Pertaining to or resembling the Astrorhizidea.

II. n. One of the Astrorhizidea. Astroscopus (as-tros'kō-pus), n. [NL., \langle Gr. $\dot{a}\sigma\tau\rho\sigma\nu$, star, $+\sigma\kappa\sigma\sigma\dot{\sigma}c$, wateher.] A genus of fishes belonging to the family Uranoscopides (star-gazers), found along the Atlantic coast of the United States.

astrospectroscopic (as-tro-spek-tro-skop'ik), a. Pertaining to the observation of the spectra of heavenly bodies. Nature, July 14, 1904,

astrosphere (as'trō-sfēr), n. [Gr. ἀστρον, star, + σφαίρα, ball, sphere.] In eytol.: (a) In the karyokinetie figure, the central portion of the aster, inclusive of the region in which the centrosome lies, but exclusive of the astral rays; the attraction-sphere of Van Beneden. Fal, 1891; Strasburger, 1892. See cut at *aster1, 7. (b) The whole aster, exclusive of the centrology. trosome; the astral sphere of Mark. Boveri,

astrozoön (as-trō-zō'on), n.; pl. astrozoa (-ä). An echinoderm.

By a very curious modification the small bilateral astrolarva is transformed into the totally different pentaradiad astrozoon, the large sexually mature echinoderm with a pronounced five-rayed structure.

Hackel (trans.), Wonders of Life, p. 279.

astylic (a-sti'lik), a. Same as astylar.
Astylospongia (as"ti-lō-spon'ji-ä), n. [NL., ζ Gr. ἀστιλος, without a pillar, + απόγγος, a sponge.] A genus of silicions lithistid sponges, spherical in form, depressed at the summit, with large exhalant orifice, numerous radial canals, and larger circular canals. The skeleton consists of 4-rayed apicules with their arms fused to those adjoining, forming a continuous network. The species are highly characteristic of the Silnrian formations. asudden (a-sud'n), adv. [a³ + sudden.] Of a sudden; suddenly; at once.

A-sudden atood I in a glowing sphere.
B. Taylor, tr. of Goethe's Faust, I. iv.

asulcar (a-sul'kär), a. [a-18 priv. + sulcus + -ar. The preferable form would be antisulcar.] In Anthozoa, pertaining to that aspect of the body which is opposite to the suleus; dorsal.

The zooids ao oriented that their aultar (ventral) aspects are abaxial, their asulcar (dorsal) aspects axial.

Trans. Linnean Soc. London, Zool., March, 1900, p. 527.

asweat (a-swet'), a. [$a^3 + sweat$.] sweating state; sweaty; sweating; moist.

The Dardan ahore
So oft asweat with blood.
J. Long, tr. of Æneld, ii. 739.

asyllabia (a-si-lā'bi-ā), n. A form of word-blindness or visual aphasia in which the patient recognizes the letters but is nnable to form them into syllables.

asylum, n.—Asylum of ignorance [L. asylum igno-rantiæ], a phrase used by Spinoza to denote the pro-nouncing of any matter to be a mystery in order to evade arguments against its reality.

argumenta against its reality.

asymmetric, a.—Asymmetrie carbon atom, a carbon atom combined directly with four different atoms or groups. All optically active carbon compounds have been found to contain such an atom.—Asymmetric compound, a compound in which the atoma are not symmetrically arranged; especially, a derivative of benzene having atoma or groups in the position 1, 2, 4.—Asymmetric group, in crystal. See *symmetry.—Asymmetric reflection, reflection from a grooved surface or from a fabric, such as cloth, which is made up of numerous parallel strands.—Asymmetric synthesis. See *symthesis.

astrophysicize (as-trō-fiz'i-sīz), r. i. To turn asymmetrical, a. 4. In the terminology of

proximation toward symmetry, and thus distinguished from unsymmetrical.—Asymmetrical fertilization. See *fertilization.

Asymmetron (a-sim'e-tron), n. [NL., \langle Gr. acrumetroo; see asymmetric.] A genus of lancelets constituting the family Branchiostomatider. It is distinguished by having the reproductive structures developed on one side only. Substantially equivalent to Epigonichthys, an earlier name.

asymmetry, n. 3. In chem., absence of symmetry in the positions particular atoms are believed to occupy in the molecule of a compound substance. See *asymmetric.

pound substance. See *asymmetric. asymptote, n. 2. In zoöl., either of two straight lines drawn from the apex to the aperture of the conical part of the phragmocone in the the conieal part of the phragmocone in the belemnites or fossil dibranehiate cephalopods. The smaller of the aurfaces bounded by these lines occupies about one fourth of the circumference of the aperture and is marked with loop-lines of growth curving forward.—Asymptote cone, in yeom., the cone generated by the asymptotes of the generating hyperbola of a hyperboloid of revolution.—Parabolic asymptote, a parabola having 6-pointic contact with the cubic at infinity.

astrorhizidean (as "trō-ri-zid'ē-an), a. and n. asynartetic (a-sin-ar-tet'ik), a. Same as asunartete.

> Asynchronous generator. See *generator. asyndetically (as-in-det'i-kal-i), adv. According to, or in accordance with, the rhetorical figure known as asyndeton; by omission of connectives.

> asynergia (as-i-nėr'ji-ä), n. Same as *asyn-

asynergy (a-sin'er-ji), n. [NL., \langle Gr. a- priv. + \u03c3wepy'a, co\u00f6peration: see synergy.] In pa-thol., lack of harmony between parts, organs, or museles whose actions are normally co\u00f6rdinated.

asyngamy (a-sin'ga-mi), n. [Gr. \dot{a} - priv. + $\sigma v \gamma \alpha \mu i a$, marriage, $\langle \sigma \dot{v} \gamma \gamma \alpha \mu o c$, married, $\langle \sigma \dot{v} v \rangle$, together, + $\gamma \dot{\alpha} \mu o c$, marriage.] Absence of syngenesis or sexual reproduction; the relation of two types in which fertile interbreeding is impossible. See supposed impossible. See syngenesis.

a. t. In elect., an abbreviation of ampere-turn. ata (ä'tä), n. [Hind. Hindi Pers. Bengali ātā, also atā; said to be of Brazilian origin.] The name in Bengal, Assam. and other parts of India of the sweet-sop, Anona squamosa. See *atis (with cut), *atta2, 2, Anona, and sweetson.

atactic, a. 2. Same as ataxic.

atactiform (a-tak'ti-fôrm), a. [ataxia (atact-)

atacthorm (a-tak ti-torm), a. [ataxia (ataxi-tata) + L. forma.] Resembling ataxia; slightly ataxie. Buck, Med. Handbook, II. 240. atajo (ä-tä'hō), n. [Sp., a separation, a separate part, etc., \(\lambda \) atajar, eut off, separate, \(\lambda \) + tajar, eut off: see tail?.] 1. A fence, or an inclosed place for corralling cattle.—2. A drove of pulse or horses [Spanish America] drove of mules or horses. [Spanish America.]

Atamosco (at-a-mos'kō), n. [NL. (Adanson, 1763), after an American Indian name. See atamasco.] A genus of monocotyledonous atamasco.] A genus of monocotyledonous plants of the family Amaryllidaceæ. See Zephyranthes.

Atana series. See *series. atatchite (a-tach'īt), n. [Mount Atatch, a peak of the Ural Mountains, Russia, + -ite².] In petrog., an igneous rock, a vitro-orthophyre, consisting of orthoclase, augite, biotite, magnetite, sillimanite, and cordierite, in a glassy base. The rock is dark and compact, with hyalopilitic texture. Morozeviez, 1901.

atavist (at'a-vist), n. [atav(ism) + -ist.] In

biol., an organic being which exhibits atavism. ataxia, n.—Cerebellar ataxia, muscular incoördination dependent upon disease of the cerebellum.

ataxiagraph (a-tak'si-ä-graf), n. [Irreg. < Gr. άταξία, disorder (see ataxy), + γράφειν, write.] In psychophys., an instrument for recording the involuntary movements of the body, the subject standing upright and endeavoring to maintain a constant attitude. J. A. Hancock, Ped. Sem., III. 13.

Ataxic agraphia, amimia. See *agraphia, *amimia.

—Ataxic gait, an irregular, jerky walk characteristic of locomotor ataxia and of other disorders of coordination. ataxiform (a-tak'si-fôrm), a. Same as *atactiform.

ataxite (a-tak'sīt), n. [Gr. ἀταξία. disorder, (see alaxia), + -itc².] 1. A meteoric iron, or siderite, which is destitute of distinct and regular crystalline structure.—2. In petrog., a name proposed by Loewinsen-Lessing, in 1888, for lavas characterized by the presence of many angular fragments, of irregular arrangement, the fragments being regarded as the result of

ar a saff

रक ्षेत्र विकास

source. See *laxite.

[a-18 +ataxonomic (a-tak-sō-nom'ik), a. [a-18 + taxonomic.] ln bot., incapable of classification; abnormal; teratological: said of some structures.

tures.

-ate¹ (b). In chem., serious mistakes may urise in regard to the meaning of this and analogous suffixes by failure to observe the proper use and translation of New Latin forms. New Latin forms as used by Germans are often erroneously translated or transferred into Enclish in druggists' circulars and elsewhere. Thus New Latin calcium sulfuratum, sulfuricum, and sulfurosum as used by Germans answer to what are called in the prevalent abbreviated English phrasing calcium sulfuhid or sulfihide, sulfihate, and sulfihite respectively. (c) In petrog., as \$250 \times about \$1.00 \times 1.00 \times suffix added to the names of grads in the quantitative classification of igneous rocks. See

ateknia (a-tek'ni-ä), n. [Gr. ἀτεκνία, ζ ἀτεκνος, childless, ζ α- priv. + τέκνον, child.] Childlessness.

ateleiosis, ateliosis (at-e-li-ō'sis), n. *ατελείωσις, ζ άτελείωτος, uncompleted, ζ ά- priv. + *τελειωτός, completed, < τελειόειν, make complete or perfect, ζ τένειος, complete, perfect, ζ τένος, end, completion.] A form of dwarfism due to imperfect or arrested development. Med. Record, July 18, 1903, p. 96.

atelestite (at-e-les'tit), n. [So called because the composition was unknown when the mineral was first described: Gr. ἀτέλεστος, uncompleted, ⟨ ά- priv. + *τέλεστος, ⟨ τελεῖν, complete, fulfil.] A bismuth arseniate which occurs in minute yellow monoclinic crystals.

Atelostomata (at "e-lǫ-stō' ma-tii), n. pl. [NL., ζ Gr. ἀτελής, imperfect, + στόμα, mouth.] An order of irregular Echinoidea in which there are no jaws, teeth, perignathic girdle, or external branchise. It includes the families Cassidulidæ, Spatangidæ, Pourtalesidæ, and

a tempo. Various qualifying terms are often added:
as, a tempo commodo or ordinario, at any convenient or
ordinary pace; a tempo rubato (see rubato).

atemporal (a-tem'pō-ral), a. [a-18 + temporal.] Free from time relations or limitations; timeless. D. Simon, Dorner's Person of Christ, II. 273. [Rarc.] N. E. D. athanatism (a-than'a-tizm). n. [Gr. ādāvaroc, deathless, + -ism.] The doctrine of immorbid condition due to loss or impairment of function of the thyroid gland.

athaumasia (ath-â-mā'si-ä), n. [NL., ζ Gr. άθανμασία, erroneous form of ἀθανμαστία, ζ ἀθαύμαστος, not wondering, ζά- priv. + θαυμαστός, wise man.

atheciferous (a-thē-sif'e-rus), a. [Gr. a-priv. + θηκη, box. L. -fer, (ferre, bear.] Bearing no thecæ, as certain graptolites.

athelia (a-the li-a), n. [NL., Gr. ἀθηλος, not having nipples (found in the sense 'unsuckled'), ζά-priv. + θηλή, nipple.] Congenital absence of the nipples.

atheologically (a"thē-ō-loj'i-kal-i), adv. [a-18 + theologically.] As one who is opposed to theology or who is no theologian; in opposition to theology.

Atheresthes (ath-e-res'thez), n. [NL., etym. dubious.] A genus of flounders of the North Pacific; the arrow-toothed halibut: distinguished by the slender body and arrow-shaped

Atherfield clay. See *clay.

Atherinella (ath'e-ri-nel'i), n. [NL., < Atherina + -ella.] A genus of silversides of the family Atherinidæ, found in the region about Panama.

Atherinops (ath-e-ri'nops), n. [NL. < Atherina (†) + ωψ (ωπ-), eye, face.] A genus of silversides of the family Atherinidæ, found on the coast of California. A. affinis is a common food-fish sold as "small smelt."

Atherinopsis (a-the-ri-nop'sis), n. [NL., ζ Atherina (†) + Gr. δψις, look, aspect.] A genus of silversides of the family Atherinidæ, found on the coast of California. A. californiessis reaches a length of 18 Inches and is highly valued as a food-fish. It is known in the markets as blue smett, although it has little in common with the true smelt.

atheroid (ath'e-roid), a. [Gr. ἀθήρ, an ear of grain, + εἰδος, form.] Having the form of or resembling an ear of grain.

atheromasia (ath'e-rō-mā'si-ā), n. [NL., < atheroma + -ia.] In pathol., the occurrence of atherome + stheromatus condition.

of atheroma; atheromatous condition.

the differentiation of the magma containing **atheromatosis** (ath*e-rō-ma-tō'sis), n. [NL., **atisine** (at'i-them and not as derived from any foreign source. See *laxite. A morbid condition marked by the presence of atheroma.

atherospermine (ath/e-rō-sper'min), n. [Atherosperma + -ine².] An amorphous bitter alkaloid, $C_{30}H_{40}N_{2}O_{5}$ (?), found in the bark of Atherosperma moschatum. See Australian sassafras(a) under sassafras.

athetesis (a-thet'ē-sis), n. [Gr. ἀθέτησις, ζάθετος, set aside, ζάθετος, set aside, put aside: see athetize.] The act or fact of setting aside as spurious; rejection as spurious; invalidation.

No serious objection, apart from athetesis of a few single lines [of the Iliad] has been raised to any passage, except, etc. Leaf, The Iliad, 11. 435.

athetosic (ath-c-tō'sik), a. [athetosis + -ic.] Relating to athetosis. Buck, Med. Handbook,

Athlennes (ath-len'ēz), n. [NL., a blunder for Ablennes, ζ Gr. άβλεννής, without mucus, ζ ά- priv. + βλέννα, βλέννος, mucus, slime: see blenny.] A genus of needle-fishes of the family Belonidæ, characterized by the ribbon-shaped body. The single species A. hians reaches a length of 4 feet and more, and is found throughout the West Indies and in Hawaii.

athlothete (ath'lō-thēt), n. [Gr. $\dot{a}\theta\lambda o\theta \dot{\epsilon}\tau\eta \varsigma$, $\dot{a}\theta\lambda o\nu$, prize, + -θέτης, $<\tau\iota\theta\dot{\epsilon}\nu a\iota$, place.] Same as augmothete.

at-home (at-hom'), n. A recention announced by a card stating that on a specified day a host or hostess will be "at home" during certain hours to receive and entertain visitors.

athrogenic (ath-rō-jen'ik), a. [Appar. irreg. (Gr. άθροος, in crowds, heaps, or masses, -yevic, -produced.] In petrol. a term applied by Renevier to clastic rocks the materials of which are of volcanic origin, such as tuff, lapilli, etc.

athumia (a-thū'mi-ä), n. Same as athymia.

The banes slily remark that a good appointment and ne easy temptation of rixdollars would greatly modify

athyria (a-thir'i-ā), n. [NL., ζ Gr. ά- priv. + θίφα, door: see thyroid.] In pathol., a constitutional state induced by functional defect or

absence of the thyroid gland. **Athyridæ** (a-thir'i-dē), n. pl. [NL., < Athyris + -idæ.] A family of brachiopods wide-spread through the early rocks and having great vertical range. It is characterized by its laterally directed hraehlal cones, or spiralia, and its frequently highly complicated scissors-shaped jugum. It is very abundant in the Paleozoic rocks everywhere and is continued upward into the Mesozole.

Athyris (ath'i-ris), n. [NL., Gr. à-priv. + It was thus named on the supposition that it has no perforation for the pedicle.] A genus of Paleozoic brachiopods with elaborate brachidium usually consisting of a single pair of spirals placed base to base and connected by a saddle-shaped loop. Processes from this loop extend backward, and may be produced between the primary lamellæ of the spirals.

athyroid (ath'i-roid), a. Similar or pertaining to Athyris

athyroidea (a - thi -roi'dē - ā), n. Same as *athyria. Lancet, April 4, 1903, p. 939. athyroidism (a - thi -roi'dizm), n. Same as

athyria.

atinga (a-tēng'gä), n. [Pg.] The Portuguese name of the porcupine-fish, Diodon diodon, and related species.

atingle (a-ting'gl), adv. [a3 + tingle.] Tin-

Some think fireflies pretty, when they mix in the eorn and mingle, Or thrid the stinking hemp till the stalks of it seem a-tin-Browning, Up at a Villa, viii.

a tirata (ä tē-rä'tä). [It.] With a stripe or strap: said of interlaced strap-work and foliated scrolls on a light ground, peculiar to certain majolica wares.

atis (ä'tis), n. [Hind. Hindi Pers. ātā, the same plant.] A name in Guam and the Philippines of the sweet-sop and *atta2 (which see).

amorphous alkaloid. $H_{31}NO_2$, found in the root of Aconitum heterophyllum.

Atka fish. mackerel. See

Atalanta butterfly. *butterfly. See

Atlantic, a. 3.
[l. e.] Relat-[l. e.] ing to the atlas or first vertebra of the neck. atlanto - axial (at-lan-tō-ak' si-al), a. Same atlo-axoid. Ruck Med. Handbook, 1.



Atis, the Sweet-sop (Anona squamosa)

Athletic heart, simple hypertrophy of the heart without Atlanto-Mediterranean (at-lan'tō-med-i-te-valvular disease, occurring in athletes.

Atlanto-Mediterranean (at-lan'tō-med-i-te-rā'nē-an), a. Of or pertaining to both the Aclantic and the Mediterranean; specifically, in anthrop., of or pertaining to the dark, dolicho-cephalic, tall European type inhabiting the shores of the Mediterranean from Gibraltar to the mouth of the Tiber and several points of the Atlantic coast. Also called *littorai*. Deniker, Races of Man, p. 331.

atlantosaur (at-lan'tō-sâr"), n. A reptile of the genus Atlantosaurus.

the genus Atlantosaurus, Atlantosaurus beds, one of the divisions of the Jurassic formation in Colorado, Wyoming, and Montana. These beds are regarded as of lacustrine origin, and are underlain by similar lacustrine deposits, named the Baptanodon beds, which rest on marine strata of Lower Jurassic age. They are from 100 to 300 feet thick and contain abundant remains of reptiles and of marshpial and ovivarous mammals. and ovinarous mammals.

Atlas orange. Same as orange II (which see, under orange!).—Atlas powder, red. See *powder, *red!. atlas-weave (at'las-wev), n. Same as satin-

atlatl (ät-lätl'), n. [Nah.] The throwing-stick of the Mexicaus, used for propelling spears with great force. See throwing stick.

Among the accessories to the harpoon, the throwing stick or board, called attat by the Mexicaus, must not be omitted. True, the cunning device was used all around the Pacific Ocean and across the Arctic for projecting spears as well as harpoons, and there are other methods of using the harpoon effectively; but the elaboration of the attat throughout was greatly stimulated by association with the harpoon. Smithsonian Rep., 1800, p. 212.

atman (ät'män), n. [Skt. ātmán, breath, soul, life, self, universal soul.] The soul as it is conceived by the Brahman philosophers: the existence of it is denied by the Buddhists. The soul of the universe is equally called

atman.

Kapila's dualism proclaimed that a distinction existed between soul and body, yet Kapila regarded man's sensations and thoughts and desires as material. The soul was to him a transcendent being, which by a kind of sublimated body (similar to the so-called ustral body of our modern theosophists, and supposed to reside in the material body) was implicated in the world of matter. This metaphysical soul-being of the Samkhya philosophy was supposed to be the apprehending principle in all psychle activities. It was said that the eye does not see, the ear does not hear, and the thoughts do not think, but it is that mysterious something called atman, i.e., self or soul, which is the smeller in the nose, the taster in the tongue, the seer in the eye, the thinker of our thoughts, and the doer of our acts.

P. Carus, Buddhism and its Christian Critics, p. 24.

atmiatry (at-mi'a-tri), n. [Gr. ἀτμός, vapor, + ἰατρεία, healing.] The treatment of disease by means of inhalations or fumigation.

atmidalbumose (at-mi-dal'bū-mos), n. άτμίς, vapor, + albumose.] An albumose-like body which is formed from albumins through the action of superheated steam in neutral or alkaline solution. It is essentially an albu-mose of the anti-group which has lost a certain amount of its nitrogen and sulphur.

tain amount of its nitrogen and sulphur.

atmidometer, n. Atmidometers may he classed as:

(1) Micrometric, such as Lamont's, in which the gradual fall of the surface of the water in a shallow pan is measured by the turning of a micrometer-serew, or is counteracted bythe inflow of additional water pushed from a reservoir by means of a micrometer-serew. (2) Balance atmidometers, in which the loss of water is shown by loss of weight. (3) The Piche evaporanter, in which the evaporating surface is a small disk of porous paper closing the lower end of a vertical the conveying water. The amount of evaporation is shown by measuring the descent of the feed-water in the tuhe. See eut on page 88.

ander at

(4) The Stelling evaporometer, in which the evaporating pan floats on the surface of a river or lake and the loss of water is measured from hour to hour by measuring either weight or volume. (5)

The lysimeter, in which the evaporation from the surface of growing plants is measured by establishing the plant in a largevessel restring on the panofabalance.

The lysimeter is a state of the surface of growing plants is measured by establishing the plant in a largevessel restring on the panofabalance.

The lysimeter is the service state and the loss of the state of the service state is not in the services at the next in order Polychaetes the sexual part (epitoks) separates that the services at the next in order polychaetes the sexual part (epitoks) separates the services at the next in order polychaetes. atmidometric (at mi-do-met'-

rik), a. Of or pertaining to the atmidometer or to atmidometry.

atmidometry (at-mi-dom'e-tri). n. [As atmidometer + - y^3 .] The art of constructing and using atmidometers and of discussing the results given by them; the scientitic study and measurement of the evaporation of water under natural conditions in the open

atmocausis (at - mō - kâ ' sis), n. [Gr. $a\tau\mu o c$, steam, $+ \kappa a i \sigma c c$, a burning.] In sury., cauterization by means of steam.

atmocauterization (at-mo-kâ "tėr-i-zā'shon), n. [Gr. ἀτυός, steam, vapor + E. cauterization.] Cauterization by means of steam.

atmogenic (at-mō-jen'ik), a. [Gr. $a\tau\mu oc.$ vapor, steam, + -yeng, -producing, + -ic.] In petrol., a term applied to formations due to the metamorphosing action of volcanic vapors or gases upon rocks adjacent to fumarolic vents. It is also used as a synonym of malian.

atmograph (at'mō-grāf), n. [Gr. ατμός, vapor (breath), + γράφειν, write.] 1. An instrument for recording mechanically the frequency and extent of the respiratory movements. - 2. In photog., a picture obtained or developed

by the action of smoke or va-pors. See *rapograph. Wall, Dict. of Photog., p. 60

atmokausis, n See $\star atmocausis$.

atmologic (at-mō-loj'ik), a. Of or pertaining to atmology.

atmosfere, n. A simplified spelling of atmosphere

spheric.

atmosphere, n.—Homogeneous atmosphere, a atmosphere identical in composition and density throughout. The height of a body of gas, of density equal to that of the air at the surface of the cartn, which would exert a pressure of one atmosphere. See pressure *height.—Soil atmosphere, the gases (mostly atmospheric air) contained in the interstices of the soil, including those absorbed by the capillary films of water nutilized in symbiosis and otherwise affecting the growth of plants. This air expands and contracts with changes of pressure and temperature, and thereby in turn modifies the distribution of the water in the soil.—Yearly swing of the atmosphere. See **xeing.

Atmospheric absorption. See **absorption.—Atmospheric absorption is addition to the irregular ones which attend electric storms. A cumulus cloud of one kilometer radius, with its center three kilometers above the earth's surface, will, by the induction due to its own internal change, produce a diversion of downward gradient of about 11,000 volts per meter of vertical distance.—Atmospheric radiation. See **recorder.—Atmospheric soltants. (attmospheric radiation. See **rediation.—Atmospheric soltants. (attmospheric radiation. See **rediation.—Atmospheric soltants. (attmospheric radiation. See **rediation.—Atmospheric radiation. See **rediation.—Atmospheric soltants. (attmospheric soltants.)

atmospheric soltants. (attmosphere soltants.)

atmospheric leads to a body of gas, of density through atmosphere and thereby data the density films of water nutilized in symbiosis and otherwise affecting the growth of plants. This air expands and contracts with changes of pressure and temperature, and thereby in turn modifies the distribution of the water in the soil.—Yearly swing of the atmosphere. See **xeing.

Atmospheric absorption. See **absorption.—Atmospheric spectrum.

See **recorder.—Atmosphere soil.

**Atoposaurus (Gr. åroπος, out of place, NL. menorrhæa.] Vicarious menstruation (which see, under vicarious).

**Atoposaurus (Gr. åroπος, not

atmospherics (at-mos-fer'iks), n. The study of atmospheres and of all their phenomena; meteorology.

atmospherology (at "mos-fe-rol'ō-ji), n. [E. atmosphere + Gr. -λογία, ζλέγειν, speak.] The study of the phenomena of the atmosphere of any planet or satellite, or of the sun itself; specifically, the study of the earth's atmosphere; meteorology.

atocia (a-to'si-ä), n. [NL., ⟨Gr. ἀτοκία, ⟨ ἄτοκος, childless, ⟨ ά-priv., + τόκος, offspring.] Childlessness; barrenness.

atokal (at'ō-kal), a. [Gr. à- priv. + τόκος, off-spring, + -all.] Non-sexual, or not producing sexual cells, as certain regions of the bodies of worms, for example Nereis.

At the end of October (1897) the Samoan reef was "literally alive with Paiolo," which were discovered by prising off pieces of rock with a crowbar. . . . The total length averages 400 mm., about one-fourth of which is in the anterior atokal part.

Jour. Roy. Micros. Soc., April, 1904, p. 183.

from the sexless atoke portion and swims freely, while the atoke produces new epitokes. Hertwig (trans.), Zoology, p. 311.

atokous (at'ō-kus), a. Same as atokal. atole, atolle (ä-tō'lā), n. [Mex. Sp., < Nahuatl atolli.] A mush made of Indian corn, also diluted and used as a drink: a favorite food in Spanish-American countries.

atoll, n.—Sphagnum atoll, an annular island occurring in certain ponds in Minnesota, covered with sphagnum and other vegetation, the surrounding water being shallow and the lagoon deep. *C. Macmillan*, Minn. Fot. Stud., 13. 2.

atolle, n. See *atole.

atom, n. 1. (c) Recent investigations on the discharge of electricity in gases and on the phenomena of radioactivity have suggested reasons for believing that the atom of a chemical element, as hitherto imagined, instead of being primordial and indivisible, may consist of numerous and far smaller particles, to which the name electrons has provisionally been given. See *electron.—Atom of electricity. See *electricity.—Gram atom. See *trans.

atomechanics (at- $\bar{\phi}$ -m $\bar{\phi}$ -kan'iks), n. [ato(m-) The mechanics of atoms; the science of the motions of atoms and of atomic

forees

The Piche Evaporometer.

a eye by which

kept in place by a metallic spring, d, attached to a shitted collar, c, that moves along the tube, Each scale number corresponds to a cubic centimeter d, as a shift of the continue terms.

instrument-

atomic, a. 3. In chem., existing in the condition of isolated atoms of the same kind: not united into groups to constitute molecules: as, for example, active oxygen at the instant of its separation from hydrogen dioxid .- Atomic of its separation from hydrogen dioxid.—Atomic capacity, the equivalence or valence of an atom.—Atomic mass, a term preferable to the more common atomic weight.—Atomic value, a term sometimes, but not well, substituted for radence.—Atomic weight. The weight (or mass) of the atom of a chemical element was for a long time expressed in terms of the weight (or mass) of an atom of hydrogen taken as the unit, and it was long supposed that, so expressed, the atomic weight (or mass) of oxygen was 16. But it having been found that this value is not correct and that the true number is more nearly 15.88, while the numbers for most of the other elements have been directly compared with that for oxygen, many chemists prefer to represent the oxygen atom by 16, and thus to assign to hydrogen the value 1.0079 or 1.008. Under *element will be found lists of atomic weights both on the basis of H=1 and of O=16.

Atomiosoma (a-tom "1-0-so" mä), n. pl. [NL..

Atomiosoma (a-tom"i-ō-sō'mä), n. pl. for *atomosoma, \langle Gr. $\mathring{a}\tau o\mu o\varsigma$, not cut (see atom), $+\sigma \tilde{a}\mu a$, body.] Same as Monocyttaria.

Atoposauridæ (at[#]φ̄-pφ̄-sâ ri-dē), n. pl. [NL. *Atoposaurus (\(\) Gr. ἀτοπος, strauge, + σαῦρος, lizard) + -idæ.] A family of extinct croeodilians of small size, with small triangular skull and dorsal armor composed of paired longitu-dinal series of oblong plates. Its members are found only in the Upper Jurassic rocks.

Atops (at'ops), n. [NL., for *Atopops, \langle Gr. aroxoc, strange, + $\omega\psi$, visage.] A genus of trilobites described by Emmons from the Taeonie or Cambrian rocks of New York. It has a long-lobed glabella, semicircular cephalon, 17 thoracic segments, and a small pygidium. It is the first trilobite recognized from rocks earlier than the Potsdam sand-atone of New York and the Silurian of Europe.

atractylic (at-rak-til'ik), a. [Atractylis + -ic.] Derived from Atractylis.—Atractylic acid, a crystalline acid, C₃₀H₅₄S₂O₁₈, found as a potassium salt in the roots of Atractylis gunnmifera.

atractylin (a-trak'ti-lin), n. [atractyl(ic) +

-in².] An amorphous, gummy, sweet gluco-side, C₂₀H₃₀O₆, formed by the decomposition of atractylic acid.

atranoracid (at-ra-nor'a-sid), n. [atranor(ic) + acid. 1 Atranoric acid.

The products [of metabolism in lichens] he has determined are atranoracid, one of the most wide-spread lichen compounds. Jour. Roy. Micros. Soc., Aug., 1903, p. 537.

atranoric (at-ra-nor'ik), a. [lrreg. < L. atra + (Leca)nora (see def.) + -ic.] Noting an acid. a crystalline compound, C₁₉H₁₈O₈, found in Lecanora atra and other lichens. It melts at 196° C. Also called atranorin, atranorin (at-ra-no'rin), n. [atranor(ic) + in²]. At reporting of the contraction of the contra

-in2.] Atranorie acid.

atranorinic (at-ra-nō-rin'ik), a. fatranor(ic) $+ \cdot m \cdot 1 + \cdot ic$.] Noting an acid, a compound, formed by the decomposition of atranoric acid, to which Paterno gave the formula $C_9H_{10}O_4$, but which Hesse has shown to be I. 3, 5-tri-hydroxytoluene, $C_6H_{2}(OH)_3CH_3$. It crystallizes in needles which melt at 104° C. Called by Hesse physcial. atraric (a-t)ā'rik), a. [atra(no)ric.] Derived

from atranoric acid.—Atraric acid, betorcinol carboxylic methyl ester, (CH₃)₂C₆H(OH)₂C₁C₁C₂C₃ It is formed together with trihydroxytolucne (physiciol) by the decomposition of atranoric acid. It crystallizes in the decomposition of atranoric acid. It crystallizes in leaflets which melt at 141° C. Also called ceratophyllin

Atremata (a-trem'a-tā), n. pl. [NL., < Gr. a-priv. + τρῆμα, a hole.] In Beecher's classification of the brachiopods, the primary order including inarticulate shells with the pedicle emerging from between the two valves, both sharing the pedicle-opening. Contrasted with Neotremata, which are also inarticulate, but which have the pedicle-opening restricted to the ventral valve. Obolus and Linguita are examples of Atremata. The species are mostly Paleozoic.

atrematous (a-trem'a-tus), a. Having the characters of the Atremata.

atremble (g-trem'bl), adv. [a³ + tremble.] In

a trembling state; quivering.

My hand a a-tremble as I had just caught up
My heart to write with, in the place of it.

Mrs. Browning, Aurora Leigh, vi.

atremia (a-trē'mi-ā), n. A condition in which there is inability to maintain an upright posi-tion, but no loss of the power of voluntary movements.

atresic (a-trē'sik), a. Same as atresial. Nature, Ang. 20, 1903, p. 384. atretic (a-tret'ik), a. [atresia (atret-) + -ic.]

Of or pertaining to atresia; characterized by atresia; imperforate.

The attetic follicle differs from the developing corpus Intenm in the absence of any discharge to the exterior; the membrana granulosa degenerates and disappears prior to any considerable ingrowth from the connective-tissue wall. Jour. Roy. Micros. Soc., Aug., 1903, p. 485.

Atrichia, n. 3. [l. e.] In pathol., absence of hair; alopecia or atrichosis

atrioporal (ā tri-ō-pō ral), a. Relating to the atriopore.

atriopore (ā'tri-ō-pōr), n. [L. atrium. nan, L. atrium. nan, L of the body-eavity of the laucelet, Branchios toma, from which issues the water taken in at the mouth. Parker and Haswell, Zoology, II. 39.

atripaic (at-ri-pā'ik). a. Noting a crystalline acid, C₆H₆O₁₂ + 6H₂O, found in sugar-beets. It may be reduced to hydroxycitric acid, $C_6H_6O_8$.

It may be reduced to hydroxycitric acid, $C_6H_6O_8$.

Atrium genitale. (a) In Turbellaria, a cavity into which open the ducts from the male and female sexual glands, the uteri, and the yolk-glands. (b) In Ouigo-chæta, a dilatation on the was deferens close to its opening.—Atrium laryngis, the portion of the larynx which lies above the superior or false vocal cords.—Atrium of infection, in pathol., the point of entrance into the body of the contagium of disease.—Atrium vaginæ. Same as restibule, 2 (b).—Corinthian atrium, an atrium of which the compluvium is large and the curb or piate of the roof is supported by a number of columns (which need not be of the Corinthian style).—Displuviate atrium, an atrium in which the roof sloped outward, so that the water did not run toward the compluvium and into a ciatern, but was thrown outward as in a modern house: a rare form.—Testudinate atrium, an atrium of which the roof had no opening, so that it was merely a large central room out of which other rooms opened. As the atrium was the only important room of the unpretentious early Roman house, this form must have been common, especially in places more exposed to cold than was the eity of Rome.—Tetrastyle atrium, an atrium in which four columns only were used at the four corners of the opening; differing from the Corinthian form, in which there was a row of columns on either side.—Tuscan atrium, an atrium in which the roof is supported on girders, having no columns even at the corners of the complinyium.

atrochal (st*rō-kal), a. [Gr. α priv. + τροχός, a wheel, + -αll.] In Polychæta, having the surface of the larva uniformly covered with cilia and the preoral circlet of cilia absent.

a trofei (ä trō-fā'i), [It.] With trophies: said of decorative motives consisting of musical in-

struments, arms, tools, and other trophies. painted ou certain majoliea wares, particularly those of Urbino, Italy.

atrofy, n. and v. i. A simplified spelling of atrophu.

atronene (at'rō-nēn), n. A hydrocarbon, C₆H₅,C₁₀H₉, formed by the slow distillation of isatropic acid. It boils at 325° C.

atronic (a-tron'ik). a. Noting an acid, C₁₇H₁₄O₂, formed by distillation of isatropic acid. It is amorphous and melts at 164° C.

Atrophic nasal catarrh. See *catarrh.

atrophy, n.—Acute yellow atrophy of the liver. See yellow.—Atrophy of disuse, atrophy resulting from lack of normal use, as of the nuscles in an immofrom lack of normal use, as of the nuscles in an immobilized limb.—Compression atrophy, in pathol., wasting due to the action of continuous preasure.—Concentric atrophy, diminution in size of a hollow organ, as the heart, with reduced capacity of its cavity.—Eccatric atrophy, pathological increase in the size of the cavity of a hollow organ, as the heart, with attenuation of the walls.—Granular atrophy of the kidney, chronic interstitial inflammation resulting in compression and atrophy of the parenchyma of the kidney, usually associated with arterioselerosis. See granular kidney, under granular.—Gray atrophy, a form of degeneration of the spinal cord and also of the optic disk in which the nerve matter becomes of a grayish color.—Inflammatory atrophy, atrophy of the functionating elements of an organ, as the kidney, due to overgrowth of the fibrous structures consequent upon chronic inflammation.—Progressive muscular atrophy. See progressive.—Senile atrophy, normal shrinkage of the tissues in the aged. sues in the aged.

atropic, a.—Atropic acid, a-phenyl-acryllie acid, Cli2=C(C₆H₃)CO₂H, formed by boiling atropin with barium hydroxid. It crystalliz s in scales or needles which melt at 106° C.

ing to the genus Anona, especially of those of A. obtusiflora, a native of the Antilles and cultivated in Brazil.—2. The name given by the Singalese to the sweet-sop, Anona squarescape which were introduced in the same of the sweet-sop. mosa, which was introduced into India and Ceylon by the Portuguese several centuries ago. In India the name is represented by ata, and in Guam and the Philippines by atis. See Anona, *atis (with eut), and sweet-sop.

attach, r. f.—Attaching system, the mnemonic system which consists in physically attaching an object to be remembered to another that is sure to be thought of. Thus a man may adopt the habit, in visiting, of putting his hat over his umbrella, lest he should otherwise forget the latter. the latter.

attacher (a-tach'er), n. One who arrests or seizes person or property under a writ of at-

seizes person or property and tachment. [Obsolete or rare.]
attachment, n.—Attachment of privilege. See
*privilege.—Solar attachment. See **solar.
attachment-disk (a-tach ment-disk), n. The

holdfast of an alga.

attachment-pad (a-tach'ment-pad), n. The disk-like end of the narrow stem growing from the aboral pole of certain medusæ, as Halicly-stus, used for temporary fixation. Proc. Roy. Soc. (London), 1903, II. 186.

attacht, pp. A simplified spelling of attached. attache (at'a-sin), a. Of or belonging to the genus Attacus, or resembling the moths of that group. A. S. Packard, Text-book of Entom.,

attack, n.—Cozio counter-attack, in chess-playing, a variation of the 1 P—K 4, P—K 4, 2 Kt—KB 3, P—K B 4 variation in the King's Knight's gambit.—Donop's Ghulam Kassim's attack, in chess-playing, a variation of the King's Knight's gambit, first played by Colonel Bonop of Brussels, namely, 5 P—Q 4. See King's Knight's **gambit.—Praser's attack, in chess-playing, a continuation or variation of the Scotch gambit (4 Kt x P, Q—R 5;

6 Kt — KB 3). — Grimm's attack, in chess-playing, a certain continuation against an old-fashioned detense to the King's Bishop's gambit. — Lolli'sattack, in chess-playing, a continuation of the Muzio gambit, white sacrificing a second piere, namely the king's bishop, on his fifth move. However, this attack is considered unsound. — Macdonnell's attack, in chess-playing, a variation of the king's bishop's opening wherein the first player sacrifices two pawns at the outset. — Mortimer's attack, in chess-playing, a variation of the Evans gambit (which see, under gambit). — Ponziani's attack, in chess-playing, one of the forms of the King's Knight's opening (3 P — QB 5). Also called Staunton's opening.

attacolite (a-tak'ō-lit). n. [Gr. ἀττακος, also αττακης, a kind of locust, + λiboς, stone. The

attacolite (a-tak'ō-līt), n. [Gr. ἀττακος, also αττακης, a kind of locust, + λιθος, stone. The name is said to refer to the color.] A hydrated phosphate of aluminium and manganese oceurring in light-red massive forms: found in

Attacus (at'a-kus), n. [NL. (Hübner, 1816), (Gr. ἀττακος, also αττάκης, a kind of locust.] A genus of saturniid moths, comprising some of the largest and most beautiful species, now mostly merged in the genera Samia, Philosamia, and Callosamia.

Attagenus (at-a-jē'nus), n. [NL. (Latreille, 1802), \langle Gr. $a\tau\tau a\rangle pr$, a bird: see attagen.] Λ genus of dermestid beetles, some of them of world-wide distribution. The European A. pellio is a well-known museum pest and a general enemy of turs and skins, and A. piecus, common to Europe, Asia, and North America, has similar habits, damaging carpets and woolen goods in the United States.

Attagides (a-taj'i-dēz), n. pl. INL., pl. of Attagis.] A group of wading birds comprising the genera Attagis and Thinocorus. The effects with increasing distance, family Thinocoridæ is considered to have the attenuative (a-ten'n-a-tiv), a. and n. Atten-

Citig=C(C₀n₃).

barroum hydroxid. It cry.

Atropidæ (a-trop'i-dē), n. pl. [NL., \(\chick\)], \(\tau\).

**Hate.] A family of corrodentian insects distinct from the Psocides, including the minute forms known as book-lice. They are widely distributed, and are commonly found on book-sleelves and in old volumes and records, where they feed on the startepaste used in binding. They also feed on flour and meat, atropinization (at*ro-poin-i-zā'shon), n. [atro-pinize + -ation.] The act of bringing under the influence of atropin; specifically, of inducing the mydriatic effects of that drug.

Atropos, n. 4. [l. c.] A neuropterous insect of the genus Atropos.—Divining atropos, Atropos dicina orius of Europe, so named on account of its sponsorie (at 'ro-sin), n. The dihydrate of the optically inactive seopolamine, C₁-th₂04N + H₂O. It is crystalline and melts at 37°C. The levorotatory form of the base is sometimes called hyoscine.

A-truss (ā'trus') n. A roof- or bridge-truss and like the letter A spread out. It is 's a braced truss' is a braced truss. the general bodily attitude (as in the scont, the caves, dropper, etc.), and by affective process. Looked at from the point of view of mental function, attention is simply the mind at work, the concentration or focalization of consciousness upon a given topic, whether of perception or of thought. "If and so far as any content of consciousness is a perception, idea, conception, apprehension or awarenessof somewhat, the activity in and through which this content exists is attentive activity." (Stout.) It is customary to distinguish types of attention as passice and active or as incoluntary and voluntary. The difference, however, is simply a difference of condition. Passice attention is constrained attention, attention which one cannot help giving, unequivocally conditioned attention a loud sound, a moving object in the visual field, things that fit in with the present contents of consciousness—such stimuli compel attention, whether one will or not; and the reasons for their compelling power are to be sought in biology, not in psychology. Active attention is attention under difficulties, attention with distraction, attention to which there are rival claimants,—in short, an equivocally conditioned attention which is accompanied by the experience of effort: the organism is called upon, so to speak, to adjust itself to two different situations at one and the same moment. It is important to notice that with repetition of the conflict some one of the rival claimants will gain a permanent victory, so that active passes over into a secondary passive attention. Experimental work upon the attentive state has been concerned with the fluctuations of attention, or the duration of a single attentive effort or concentration; the range or scope of attention, or the number of ideas to which one can attend at one time; the effects of complication, or the subjective temporal displacement of disparate impressions simultaneously presented; distraction, or the behavior of attention, or the number of ideas to which one can attention, c

At the same time, it appears that certain special phenomena, usually referred to the center, are in reality due to changes at the periphery of the organism, thus it is very dombtful whether 'fluctuations of attention' are not due to fluctuations of excitatory process in the sense-organ. It may be too, that psychology has tended to make the attentive state unitary when actually it is diverse, and that we ought rather to speak of risual attention, cutaneous attention, etc., than of attention in the abstract.—Attention wave, in psychol, a simple pulse or rise and fall of the attention, considered as a fluctuating or periodic process.—Field of attention. (a) The range of clear consciousness; the contents of consciousness at any moment attended to. (b) The whole of consciousness, regarded as made up of contents which may successively become clear under attention. The first usage is based on the analogy of the visual held of regard, the second on the analogy of the visual held of regard, the second on the analogy of the visual held of regard, the second on the analogy of the visual held of regard, the second on the analogy of the visual held of regard.

Of or pertaining to attention; due to or conditioned by attention.

The experiments on attentional time-displacement form one of the most interesting and most difficult chapters of experimental psychology.

E. B. Titchewer, Exper. Psychol., 1, ii, 206.

attenuated (a-ten'ū-ā-ted), p. a. 1. Thin: slender: as, long attenuated fingers; attenuated parchment.—2. Thin in consistency: diluted; rarefied: as, "attenuated small beer," Lamb, Elia.

and attenuation, n. 5. In *cleet*.: (a) The decrease of telephonic currents with increasing distance, due to the absorption of current by the electrostatic capacity of the telephone line. (b) More generally, the decrease of electrical effects with increasing distance.

nant.

attestant (a - tes ' tant), a. and n. I. a. Bearing witness.

II, n. An attesting witness; an attester. attestment (a-test'ment), n. [attest + -ment.]

Testimony; attestation. J. M. Neate, Mediav. Hymns, p. 155. N. E. D. attic², n. 3. The upper portion of the tympanic cavity of the car. Med. Record, Feb. 14, 1993. 1903, p. 279.—4. Figuratively, a man's 'top story'; the skull

Here a gentleman present, who had in his attic More pepper than brains, shricked—The man's a fanatic, Lowell, Fable for Critics, st. 50.

False attic, in arch., an external division of the wall resumbling an attic, but having no story of rooms behind it: in this sense often used for a dwarf wall built above it: in this sense often used for a dwarf wall only above the main cornice to receive an inscription or for a purely

attingent (a-tin'jent), a. Touching or coming in contact with each other, as the elvtra

of a beetle or the tegmina of a grasshopper. **attitude**, n. 3. In geol., the particular position or relation which the land bears at any time to the ocean. The geologist's point of view is that the land either has emerged from the oceanic waters or is to be again buried by them, and therefore at any particular time assumes an attitude with relation to the ocean. The term is also applied to the position and structural relations of any bed or mass of rock to others.

Perhaps a word of general explanation is necessary in speaking of the attitude of the land. Geologists are prone to talk of elevation and subsidence—of the uprising of the earth's crust at one place or at one time, and of its down-sinking at another place or another time. Then language usually seems to imply the rise or fall of an area all together, without any relative displacement of its parts; but you will readily see that, unless a rising or sinking tract is torn asunder from its surroundings, there must be all about it a belt in which the surface assumes an inclined position, or, in other words, where the attitude of clined position, or, in other words, where the attitude of the land is changed. Smithsonian Report, 1800, p. 239.

Crucifixion attitude, a posture assumed in certain cases of hystero-epilepsy, in which the arms are extended at right angles to the body, the lower extremities being together and in the axis of the trunk.—Illogical attitudes, various atrange and seemingly almost impossible attitudes sometimes assumed by subjects of hystero-epilopey.

attitudinization (at-i-tū-di-ni-zā'shon), n. Attitudinizing; posturing or the striking of atti-

tudes. attorney', n.—Attorney's certificate. (a) In English law, a certificate of the commissioners of stamps that the attorney therein named has paid the annual duty. Bouvier, Law Dict. (b) In United States law, the certificate of the court admitting an attorney to practise, which testifies that the attorney has qualified and taken his oath of office.—Prosecuting attorney, State's attorney, terms usually synonymous with district attorney. They indicate the persons representing the people of the State in a criminal action. They are to be distinguished from attorney-general and deputy attorney-general, whose duties are to represent the State in cful actions. attorney1, n.-

attraction, n.—Crystallic attraction, the attraction attraction, in.—Crystallic attraction, the attraction between crystalline masses in alloys and other composite solids. "There is evidence that the large crystalline masses in solids have an attractive force for the smaller particles of the same kind, and under suits ble conditions draw them to themselves." J. E. Stead, Jour. Roy. Micros. Soc., April, 1904, p. 254.—Law of attraction and repulsion, a rhetorical name for the assumption that the fundamental processes of society are identical with those of the physical world; that the drawing together and the separations of men are inevitable effects of their natures. Ike chemical affinities and oppositions. Gumploricz, Outlines of Sociol., p. 33.—Mass attraction, the mutual attraction between masses, taken as a whole, as distinguished from the attraction between the individual molecules of a body; molar attraction.—Newtonian attraction, the gravitational attraction which each portion of matter in the universe has for every other portion.

attraction-cone (a-trak'shon-kōn), u. bryot., the couic protrusion of the surface protoplasm of the egg at the point where the

spermatozoon is about to enter. attraction-sphere (a-trak/shon-sfer), n. Same as *astrosphere and *centrosphere.

attributal (at'ri-ba-tal), a. Of the nature of an attributive: as, attributal or descriptive names. Jour. Amer. Folk-lore, Jan.-March,

1902, p. 14. attritive (at'ri-tiv), a. Involving attrition or wearing away by attrition: as, "subjected to some further attritive process," Hugh Miller,

ited, ppr. attuiting. [L. ad, to, + tueri (pp. tuitus), look to, regard: see tuition and intuit.] In psychol., to have attuition; to become conscious of objects outside ourselves. The term was introduced by S. S. Laurie.

He carries its operation before reason still forther, supposing that "attnition" makes particular inferences about outside objects, and that a man, or a dog, through association, "attaites" sequence and invariableness of succession, and, in fact, gets as far in the direction of causation as Hume thought it possible to go at all.

Energe. Brit., XXX. 677.

attuition (at-ū-ish'on), u. In psychol, a hypothetical process which is more than sensapotnetical process which is more than sensation and less than perception, involving the coördination of sensations into an aggregate slightly bitter crystalline glucoside found in coördination of sensations into an aggregate and the reference of this aggregate to the outside world.

His [S. S. Laurie's] psychology is founded on a proposed distinction between "attuition" and reason. His theory of "attuition," by which he supposes that we become conscious of objects outside ourselves, is his "return to dualism," . . . "attuition." It is, according to him, something more than sensation, but less than perception; it is common to us with lower animals such as dogs; its operation consists in co-ordinating sensations into an aggregate which the subject throws back into space, and thereby has a consciousness of a total object outside itself, c. g., a stone or a stick, a man or a moon. c. g., a stone or a stick, a man or a moon.

Encyc. Brit., XXX. 677.

atty. A contraction of attorney.
atua (ä-tō'ā), n. [Polynesian, Maori, Samoan,
Tahitian atua, Tongan otua, Marquesan etua,
etc., a god, demon.] The supernatural powers;
more particularly the gods and deified human beings, but also guardian spirits, in some cases even hostile spirits.

Atylus (at'i-lus), n. [NL. (Salisbury, 1807), ζ Gr. a- priv. + τίνος, callosity. The name alludes to the absence of the four hypogynous [NL. (Salisbury, 1807), oc. callosity. The name glands or scales which occur in some of the related genera.] A genus of dicotyledonous plants belonging to the family Proteaeeæ. See Petrophila1.

Atypical children, a term suggested to designate children who are not strictly abnormal or degenerate, yet who are potentially so; children on the border-line between normality and degeneracy.

atypy (at'i-pi), n. [Gr. *άτυπία, ζάτυπος, not typic: see atypic.] Departure from the typic or normal condition. Amer. Anthropologist, Oct.-Dec., 1903, p. 610.

aua (ä'ö-ä), n. [Maori aua, a sea-mullet, = Tahitian and Samoan aua, a small fish.] A name of Agonostomus forsteri, one of the mullets found in abundance on the coasts of New Zealand and Tasmania.

Zealand and Tasmania.

aubépine (ō-bā-pēn'), n. [F., hawthorn: see albespine.] A trade-name for anisaldehyde. It is used as a perfume.

Aubergine purple. See *purple.

aubernage (ō-ber-nāzh'), n. [F., a local term in the department of Yonne.] A disease of the grape-vine caused by a fungus, Dematonhora necatrix, which attacks the roots.

B. B. Huey, Amer. Jour. Psychol., XII. 309.

E. B. Huey, Amer. Jour. Psychol., XII. 309.

Auditize (â'di-tīz), v.; pret. and pp. auditized, ppr. auditizing. [audit + -ize.] In psychol., to represent in auditory terms; to image in sounds. Amer. Jour. Psychol., XII. 119.

Auditor of the imprest. See *imprest. auditor-general (â'di-tor-jen'e-ral), n. In some States, the title given to the chief auditor of the State. Aubert diaphragm. See *diaphragm.

aubonne (ô-bon'), n. A silver crown of Lorraine in the 18th century, named from M. d'Aubonne, director of the mint 1724-1728. Aubrey group. See *group1.

Aubrieta (â-bri-ē'tā), n. [NL. (Adanson, 1763) for Claude Aubriet, a botanical draftsman.] A genus of perennial, bright-flowered plants, more or less evergreen trailers, of the family Brassicacea, sometimes grown for rock-

Twelve species are found work or edgings. in Italy, Greece, Asia Minor, and Persia. deltoidea (including A. Græca) is commonest

Auchenaspis (â-kē-nas'pis), n. [Gr. αὐχήν, neck, $+ a\sigma\pi ic$, sliehd.] A name given by Egerton to cephalaspid fish remains from the Upper Silurian and lower Old Red Sandstone passage-beds of Hereford: equivalent to Thy-

passage-bras of Hereford; equivalent to Tug-extes of the Baltic Upper Silurian.

Auchenopterus (â'κ̄-nop'te-rus), n. [NL., ⟨ Gr. a'χ̄/pr, neck, + πτερόν, wing.] A genus of small blennies found in the rock-pools of the West Indies and the west coast of Mexico: characterized by having the soft dorsal reduced

to a single ray. au clou (ō klö'). [F.] With the nail: applied to gold which has been burnished with a nail fixed in a wooden handle, as that of the old soft-paste porcelain of Sèvres. This style of burwearing away by attrition: as, "subjected to some further attritive process," Hugh Miller, Rambles Geol., II, 246.

attuite (a-tū'it), r. i. and t.; pret. and pp. attuited, ppr. attuiting. [L. ad, to, + tueri (pp. for the process in the players bid for the players b

for the privilege of making the trump, naming the number of points they will make. It is always played by four hands, the bidder's side having the first count. See *penuchte.

count. See *penuchle.

auction-pool, n. On shipboard, the number of miles
the ship will run next day is assumed, and 10 or 15 above
and below this number are subscribed for and drawn.
Each number is then put up at auction, and may be
bought in by the owner or by any other passenger, half
the amount realized being returned to the subscriber for
[that number. Choice of the highest and lowest numbers
is usually sold separately at the end. The holder of the
number agreeing with the ship's run next day, or the one
nearest to it if it is below or above any number drawn,
takes the entire pool. takes the entire pool.

slightly bitter crystalline glucoside found in Aueuba Japonica. It melts at 181° C. audad (ou'dād), n. Same as aoudad. Geog. Jour. (R. G. S.), XI. 601. audiclare (â'di-klãr). n. [Irreg. < L. audire, hear, + elarus, clear. Cf. clairaudient.] An apparatus for use in defective hearing, constitution of the control of the co sisting of a tube with a diaphragm attachment at one end and a bell-shaped expansion at the other.

audiential (â-di-en'shal), a. Of or pertaining to an audience.

There must be audiential response or the actor's portraval is dead. Marcella Sembrich, in New York Independent, Oct. 5,

audile, n. II. a. Of, pertaining to, or acting through the auditory nerves and tracts; ear-

audist (â'dist), n. One who has an ear-memory; one whose memory is more tenacious of things heard than of things only seen.

Charcot, who classified people into "visualists"—those whose recollections were chiefly of things seen, who had to read a name in order to remember it: "audists"—those whose memories were of things heard, whose auditors agree was regressions to tory sense was paramount, etc.

Pop. Sci. Mo., April, 1895, p. 732.

Audit certificate, the certificate issued by an auditor on the completion of an audit.

The efficiency, in most cases, of audits conducted by skilled accountants has led the public to attach exceptional value to their audit certificates, and to demand extensive knowledge and ability in the conduct of the audit of the accounts of public companies.

Encyc. Brit., XXV. 25.

audition, n.—Chromatic audition, a subjective impression of color excited by sounds.

auditization (â-di-ti-zā'shon), n. [auditize +

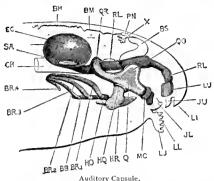
-ation.] In psychol., representation in auditory terms; imaging in sound.

In silent reading there is a similar motorization, or

auditorially (â-di-tō'ri-al-i), adv. As a hearer or auditor; through the ear (as opposed to through the eye). Rolleston, Memoirs, p. 910.

Auditory agraphia. See **agraphia. — Auditory aphasia. See **agraphia. — Auditory area. Same as (a) **auditory center and (b) **auditory field. — Auditory capsule, in embryo., the cartilaginous capsule surrounding the membranous labyrinth of the ear in the vertebrate embryo: same as otic capsule. (See cut in next column.) — Auditory cells, cells in the internal car which hear the auditory hairs. — Auditory center, the supposed

nerve-center for hearing in the first temporosphenoidal convolution of the brain. — Auditory epithelium. Same as auditory hairs. (See extracts under auditory.)



The skull of a 12 mm. tadpole, seen from the right side. The otochord, the brain, and the entire head are represented in outue, in order to show the relations of the skull to them. Magnified

30 times.

BB, basibranchial; BH, roof of hind-brain; BM, roof of midbrain; BR.1, BR.2, BR.3, BR.4, first, second, third, and fourth branchial bars; BS, cerebral hemisphere; CH, notchord; EC, auditiory capsule; HO, urohyal; HQ, articulation of ceratohyal with quadrate; HR, ceratohyal; JL. lower Jaw; JU, upper Jaw; LI, upper lip; LJ, lower lip; LL, lower labial carrilage; LU, upper labial carrilage; MC, Mcckel's carrilage; PN, pineal body; Q, quadrate; QO, orbital process of quadrate (PR, connection of quadrate with trabecula; RL, trabecula cranit; SA, membranous patch in the outer wall of the auditory capsule, in which the stapes is developed at a slightly later stage; X, choroid plexus of third ventricle. (From Marshall's "Vertebrate Embryology.")

—Auditory field, the space throughout which a sound can be heard.—Auditory ganglion. Same as acoustic tubercle (which see, under acoustic).—Auditory hairs.

(b) In entom., certain hairs of the antennæ of the male Culicidæ and Chironomidæ, which experimental tests seem to prove to have an auditory function.—Auditory hyperæsthesia, abnormal acuteness of hearing.—Auditory meatus. Same as auditory canal.—Auditory nuclei, the nuclei of origin, within the brain, of the auditory nerves.—Auditory plate. (b) An expanse of epithelium which receives the terminations of the auditory nerve. (c) The portion of the temporal bone which forms the roof of the tympanum.—Auditory saucer, in embryol., the sancer-shaped invagination of the ectoderm, which eventually gives rise to the otocyst or membranous labyrinth of the ear.

Auer burner, light. See *burner, *light. -Auditory field, the space throughout which a gound

Auer burner, light. See *burner, *light.
Auerbach, ganglion of. See *ganglion.
auerlite (ou'er-lit), n. [Named after Carl
Auer von Welsbach.] A rare mineral occurring in from yellow to red tetragonal crystals and consisting of the silicate and phosphate of thorium: found in North Carolina.

auge² (ou'ge), n.; pl. augen (-gen). [G. auge, AS. ēage, E. eye.] A word adopted from the German by many English and American petrographers to designate a round or lenticular nodule, either a single mineral particle or an aggregate, often found in gueissic or schistose rocks, which in comparison with the inclosing finer-grained material produces an appearance compared to that of an eye. The term eye is less extensively used in this sense.

augelite (â'je-lit), n. [Irreg. ⟨ Gr. aiyή, light, luster, + λίθος, stone.] A hydrated phosphate of aluminium occurring in tabular monoclinic crystals and in cleavable masses with strong pearly cleavage: first found in Sweden, and now also in Bolivia.

augengneis (ou'gen-gnis), n. [G. augen, eyes, + gneis, gneiss.] A variety of gneiss which has lenticular nuclei, of one mineral or of several, more coarsely crystalline than the normal components of the rock, and around which the foliation forks and passes, so as to suggest eves within evebrows and evelashes.

augite, n. The name of this member of the pyroxene group of silicate minerals is frequently used in petrography in composition with the name of any rock in which it occurs as a prominent or noteworthy constituent: as, augite-andesite, augite-syenite, augite-gneiss,

augite-rock (â'jīt-rok), n. In petrog., a term formerly applied to igneous or metamorphic rocks of granular texture consisting chiefly of augite. Most of the rocks once so named are now called pyroxenite.

augitite (â'ji-tît), n. [augite + -ite2.] In petrog., a non-feldspathic, basaltic rock consisting essentially of augite and magnetite with a generally scanty glass base. Augitite is closely related to limburgite, from which it differs in its freedom from olivin.

augitophyre (â'ji-tō-fir), n. [augite + (por)-phyr(y).] In petrog., a porphyry in which the most prominent phenocrysts are of augite:

analogous to orthophyre. The term was first anplied by Scacchi to the augitic and lencitic lavas of Italy in which the augite is megascopically the more prominent. angitophyric (â"ji-tō-fir'ik), a. [augitophyre

+ ie.] Porphyritic through the presence of

augite phenoerysts. See *augitophyrc.
augitoporphyric (a*ji-tō-pōr-fir'ik), a. [augite + porphyr(it):c.] Augite and porphyritie: applied to a porphyritie igueous rock whose phenocrysts are augitie.

augmental (âg-men'tal), u. and u. + -all.] Formed by augmentation, as a number. See *augmentation, 6.

In tracing vestiges in the form of augmentals, it is clearly to be borne in mind that their significance, like that of the primary numbers, is mystical rather than

An. Rep. Bur. Amer. Ethnol., 1897-98, p. 848.

augmentation, n. 6. A hypothesis relating to the development of number systems, according to which the primary number-concept was based on the idea of the self and of the four directions front, back, right, left, and sometimes, in addition to these, above and below.

[pp. 839-842.

7. In astron., the excess of the moon's apparent diameter, seen from a given point, over its diameter as it would be if seen from the center of the earth. The excess is due to the fact that the moon, except when on the horizon, is nearer to the observer than to the earth's center .- 8. In bot., same as multiplication, 3. -9. In law, a share of the great tithes temporarily granted to the vicars by the appropriators, and made perpetual by a statute of Charles II.: also used in a similar sense in the Canadian law. Bouvier, Law Dict .- Coefficient of augmentation. See *coefficient.
augmentor (âg-men'tor), a. Causing to in-

erease; specifically, noting the nerves stimulation of which causes an increase in force and

size of the cardiac contractions.

Wundt goes so far as to assume a differentiation of the bodies of nerve-cells into two parts, the anabolic inhibitory and the katabolic augmentor parts, and applies this hypothesis to the explanation of the valve-like nature of the paths of the spinal cord. Nature, Nov. 6, 1902, p. 3.

au gratin (ō gra-tan'). [F.] With a breaded or browned crust.

Augusta limestone. See *limestone.
Augustan, a. II. n. One who belongs to the
Augustan age or school of literature. See \star Augustanism.

Poetry is a spiritual thing, and, like the soul of man, it is fluent and fluctuating and impalpable. Wordsworth was half a Romantic and half an Augustan, and in the end his romanticism was subjugated by "an austerer mode," by his didactic passion.

Athenæum, March 18, 1905, p. 328.

Augustanism (â-gus'tan-izm), n. Qualities such as those which characterized the reign of the Roman emperor Augustus (63 B. C.-14 A. D.) or (especially) the Roman literature of that period.

Perhaps the most profound passages in this casay are those dealing with the period of Augustanism in English literature—that age of acceptance which began after Milton and ended with Gray and Collins.

Athenseum, Jan. 16, 1904, p. 73.

Augustin, n. 4. [l. c.] A silver coin of Mexico, the dollar or peso, of 1822, of Iturbide or Au-

gustin I.

auhi (ou'hē), n. [Tigré.] A name in Abyssinia of a small tree of the borage family, Cordia Abyssinica, which yields a valuable timber and very sweet, edible fruits. It is much cul-

and very sweet, edible fruits. It is much cultivated in the native gardens and is planted around the villages. Also called wanza.

auhola (ä-ū-hô'lä), n. Same as *ahuhu.

aukery (âk'e-ri), n. A place to which auks resort: as, Aukery, Nameless Bay, Novaya Zemlya. Geog. Jour. (R. G. S.), xi, 335.

Aulacocephalus (â'la-kō-sef'a-lus), n. [NL. < Gr. avλaξ (-aκ-), a furrow, + κεφαλή, head.]

A genus of serranoid fishes found in the Patific and Indian geoms.

cific and Indian oceans.

Aulacoceras (â - la - kos'e - ras), n. [Gr. αὐλας (-ακ-), a furrow, + κέρας, a horn.] A genus of belemnitoid dibranchiate cephalopods from the Triassic rocks, characterized by the long, slender guard and very long phragmocone, in which are retained the septa perforated by a

Auld Licht, one of the party in the Scottish church, during the latter part of the eighteenth century, which held-by

rallum composed of trumpet-shaped corallites multiplying by lateral and basal gemmation. The septa are reduced to marginal strize, and tabulae are present in greater or less degree. They are confined to the Paleozoic rocks.

Aulopus (â-lō'pus), n. [NL., ζGr. αὐλός, a

aulos (â'los), n.: pl. auloi (-loi). [Gr. aiλός, a flute, pipe.] The Greek flute, which was of the direct or flageolet class. It was often double, and was provided with several finger-holes, in which stopples were sometimes inserted, probably to after the pitch slightly. It is possible that the name aulos was also applied to pipes sounded by a reed, in which case they should be called oboes rather than fintes. Flute-players often wore the capistrum, a tight band encircling the head so as to support the cheeks in blowing.

Aulosteges (â-los'tē-jēz), n. [Gr. αἰγλός, a flute, pipe, + στέγη, a roof, valve.] A genus of brachiopods having short but broad eardinal areas on both valves, the deltidium covered with spinules, and the surface of both valves thickly set with spines. It was allied to Strophalosia, but the valves were not adherent. It is characteristic of the Permian formation.

aulu (ä'ö-lö), n. [Hawaiian.] Alarge Hawaiian tree, Sideroxylon Sandwicense, of the sapota family, the thick milk-sap of which is used by the natives as bird-lime; also, a tree, Sapindus Oahnensis, belonging to the soapberry family. aumil (â'mil), n. [Also amil, Hind. 'āmil, < Ar. 'āmil, an ageut, < 'amula, he performed a task or office.] In India, a collector of revenue in some of the native states, and the chief au-

m some of the narrive states, and the chief authority in his district. See amaldar.

auntly (\(\text{auntly int'li}\), a. [aunt + -ly\(\text{l.}\)] Natural to or characteristic of an aunt; as, auntly blessings; auntly affection. [Rare.] N. E. D.

aupaka (\(\text{a-\text{c-pa'k\text{a}}}\), n. [Ilawaiian.] Isodendrion pyrifolium, a shrub of the violet family with sweet-scented greenish-white flowers.

aur (our), n. [Assumed stem of Icel. aurur (gen. auro, dat. aurum), pl. of cyrr, (gen. cyris, dat. and aec. cyri), an ounce of silver, money in general, perhaps (L. aurum, gold.] A current subsidiary coin of Iceland, equivalent to .27 of a cent or .01 of a krona.

aural, n. 4. [cap.] In Gr. myth., a personification of the lighter winds or breezes, the divinities of the air. It was a subject frequently



Aurie from Terra Cotta Astragalus.

employed in Greek art. Pliny describes two marble statues of Auræ salling by aid of their garments. The so-called Nereids of the famous Xanthian sepulchral monument in the British Museum are probably Auræ.— Intellectual aura, a peculiar dreamy reminiscent mental state preceding an epileptic attack.

aurally (â'ral-i), adv. By means of the ear or of audition; in an auditory reapper.

of audition; in an auditory manner.

auramine, n. The name is applied to two basic dye-stuffs of the diphenyl-methano type. The older was dis-covered in 1883; the suffixes O, I, and II indicate vari-ous degrees of its purity and strength. The other, known as auramine G, was discovered in 1892, and differs from the former in that it contains a tolyl in place of a phenyl group.

Aurantia screen, a collodion film dyed with aurantia and used in orthochromatic photography. Woodbury, Encyc. Dict. of Photogr., p. 48.

aurantiamarin (â-ran-ti-am/a-rin), n. The

bitter constituent of the rind of bitter orange

(Citrus Aurantium vulgaris).

aurantiin (â-ran'ti-in), n. [auranti(um) orange,
+-in².] Same as *naringin.

aurantine (â-ran'tin), n. [? ML. aurant(ium) + -ine2.] Same as abietene.

the traditions of the original seceders. The party was made up of the conservative members of the Burghers and Antiburghers, the two divisions of the seceders.

aulete (â-lê'tê, n. Same as auletes.

Aulopidæ (â-lop'i-dē), n. pl. [NL., < Aulopus + udæ.] A family of lizard-fishes allied to the Synodontidæ. The typical genus is Aulopus.

Auloporidæ (â-lō-por'i-dē), n. pl. [NL., < Aulopus + udæ.] A primitive family of tabulate corals having a reptant and branching colared by the composed of trumpet-shaped corallites. or and oasida ocaring a variable number of sterigmata with light-yellow eylindrical spores. Only one species, A. vitis, is known; it is the cause of a disease of the fruit and leaves of the grape in France. See *scaled of grape.

aureole, n. 2. The zone of contact-meta-

morphism about an intrusive igneous mass. It is equivalent to *contact-zone.

pound radieal, in which the gold exhibits triad valence: as, for example, potassium aurichtorid

valence: as, for example, potassium aurichlorid (KAnCl₄).

auricle, n. 3. (d) pl. In the echinoids or sea-nrchins having dentary apparatus, a structure composed of ambulacral processes and interambulacral ridges which together underlie the jaws and afford attachment for their muscles: equivalent to perignathic girdle. (e) In lobate ctenophorans, one of the clongated plate-bearing processes found at the base of each of the four shorter swimming-plates. (f) In Robifera, one of a pair of lateral holow ciliated pitson the body which can be everted to serve as additional swimming-organs.—Cat's auricle, a condition in the human subject in which the auricle is folded over on itself.—Darwinian auricle, a pointed auricle: so called from the fact that Charles Darwin first called attention to its evolutionary significance.—Wildermuth auricle, a condition of the auricle in which the antihelix is larger than the helix.

Auricular angle, in eraniom., any angle formed by two

is larger than the helix.

Auricular angle, in craniom., any angle formed by two lines which meet at the center of the external auditory meatus.—Auricular appendage or appendix. Same as appendix auriculæ (which see, under appendix).—Auricular crura. See *crus.—Auricular height, in craniom., the distance of the auricular point from the horizontal plane tangent to the vertex.—Auricular index, the relation of the length of the external ear to its breadth.—Auricular septum. Same as septum auricular underum (which see, under septum).—Auricular sinus. Same as sinus renosus (which see, under sinus).—Auricular triangle, a triangle formed by lines drawn between the tip of the auricle and the two extremities of its base of insertion.

auriculare (â-rik-ū-lā'rē), n. In craniom., the

auriculare (â-rik-ŭ-lā'rē), n. In craniom., the point above the middle of the auditory meatus on the superior border of the external auditory

Von Török.

auricularia, n. 3. [cap.] [NL. (Bulliard, 1786).] A genus of fungi, type of the family Auriculariaceæ, having an irregular gelatinous more or less ear-shaped sporocarp, with a smooth or somewhat wrinkled hymenium. Auricula-Judæ is a common and widely distrib-

uted species. See Jew's-ear.

Auriculariaceæ (â-rik"ū-lā-ri-ā'sē-ē), n. pl.

[NL., \(\) Auricularia + -aecæ.] \(\) A family of basidiomyeetous fungi, belonging to the group

Protobasidiomycetes. Auricularia is the most common and widely distributed genus.

Auriculariales (â-rik"ū-lā-ri-ā lēz), n. pl. [NL., \(\) Auricularia + -ales.] A small order of basidiomycetous fungi including two families, the best-known being the Auriculariaceæ. auricularis, n. 2. One of the muscles attached to the coneha of the ear.

auriculately (â-rik'ū-lāt-li), adv. In an aurieulate manner.

auriculation (â-rik-ū-lā'shon), n. fauriculate + -ion.] The development or possession of ear-like projections, as in the shells of the pelecypod mellusks.

auriculo-infraorbital (â-rik"ū-lō-in"frä-ôr'bital), a. In craniom., relating to a plane passing through the upper borders of the auricular foramina and the lower borders of the orbits, accepted by German anthropologists as the horizontal plane of the skull.

auriculospinal (â-rik"ū-lō-spī'nal), a. Of or pertaining to the auricular foramina and the

spine.—Auriculospinal plane. Same as Camper's plane (which see, under plane!), auricyanide (â-ri-sī'a-nid), n. [L. aurum, gold, + E. cyanide.] In chem., a double cyanide of gold and some more electropositive metal or gold and some more electropositive metal or eompound radical. It is distinguished from an aurocyanide by the fact that the gold in the latter exhibits monad valence, whereas in an auricyanide the valence is triad. For example, potassium aurocyanide (formed in the important McArthur-Forrest process for the metal-hurgical extraction of gold, and also largely used in electrogliding), has the composition KAu(CN)₂, while potassium auricyanide is KAu(CN)₄.

aurifex (â'ri-feks), n. [L. aurifex, < aurum, gold, + facerc, do, make.] A worker in gold. Athenæum, Aug. 30, 1862, p. 276. [Rare.] N.E.D.

aurification (à ri-fi-kā'shon), n. [L. aurum, gold, + ficare, \(\text{tacere}\) make.] 1. The working of gold; goldsmith's work.—2. The stop-

ing of gold; goldsmith's work.—2. The stopping or filling of teeth with gold. Times (London), Feb. 2, 1881. [Rare.] N. E. D. aurochlorid, aurochloride (â-rō-klō'rid), n. [L. aurum. gold. + E. chlorid.] In chem., a double chlorid of gold and some more electronsitive marsh are comparable with the chlorid of gold and some more electronsitive marsh are comparable with the chlorid of golds. positive metal or compound radical in which the gold exhibits monad valence, as, for example, potassium aurochlorid (KAuCla).

auroduct (á'ró-dukt), n. [L. aura ((Gr. nipa), air. + dactas, duct.] The central canal of an

aurophore.

auronect (á'rō-nekt), n. One of the Auronectæ. Auronectæ (å-rō-nek'tē), n. pl. [NL., < Gr. ai ρa , air in motion, $+ v j \kappa \tau \eta c$, a swimmer.] A section or other group of siphonauthous Siphonophora, having a large pneumatophore, a corona of nectocalyxes, and a network of canals in the jelly of the thickened trunk. The siphosome is rounded in shape. They are deep-sea forms.

aurophore (â'rô-fôr), n. [Gr. aiρa, air in motion, + -φορος, ζφέρειν, bear.] In Siphonophura, an appendage to the pneumatocyst, containing a central tube which puts the cavity of the pneumatocyst in communication with the exterior: possibly it serves as a gas-secreting gland.

5. In elect., an electric glow-dis aurora. n. charge, appearing at very high voltages and somewhat resembling the aurora borealis. It first appears as a blue glow at surfaces and especially at points; at higher electric pressures or voltages pink streamers issue, which gradually lengthen with increasing voltage until ultimately a disruptive spark occurs. See electric spark. Also called corona.—Aurora belt, the belt of maximum auroral frequency extending from Alaska to the southern part of Canada, thence cast to Labrador, northeast to northern Sweden and Norway, and east over Siberia to the starting-point.

Auroral arch, an arch of auroral light, usually symmetrical with reference to the magnetic meridian. Sometimes several concentric arches are seen, separated by diffuse light; below the lowest arch is a dark space (the 'dark segment'), but above the highest arch the light gradually fades away toward the zenith. Every effort that has been made to determine the altitude of these sharply defined arches has only accumulated more evidence to show that no two persons see the same arch, charge, appearing at very high voltages and

enort that has been made to determine the attitude of these sharply defined arches has only accumulated more evidence to show that no two persons see the same arch, and that the whole phenomenon is some form of perspective lilusion.—Auroral beams, straight beams or bars of auroral light, usually perpendicular to the auroral arch, but often visible alone when the arch is not well formed or when it is entirely below the horizon.—Auroral corona, an arrangement of small auroral beams symmetrically surrounding a central point that lies in the direction of the freely suspended magnetic needle. Within the corona thus formed only faint diffuse light, if any, prevails. The small beams ("daggers" or "swords") forming the corona generally have a movement toward the center. The whole phenomenon is a perspective illusion; the beams of light are really parallel to each other and moving away from the observer; perspectively they point and move toward their vanishing-point.—Auroral distribution, the distribution of auroral frequency over the earth's surface. It was first shown by Fritz that a zone of maximum auroral frequency passes man irregular way through southern Canada, Iceland, northern Norway, and Sweden around the north pole. quency over the earth's surface. It was first shown by fritz that a zone of maximum suroral frequency passes in an irregular way through southern Canada, Leeland, northern Norway, and Sweden around the north pole. Observers north of this belt see the aurora to the south of them rather than to the north. The aurora is very rarely seen at stations within thirty degrees of the equator, and it is less frequent at any latitude in the southern than in the northern hemisphere. The general distribution of auroras is shown by charts of auroral isochasmic lines.—Auroral flashes, variations in brightness of the auroral orader as they brighten; specifically, the upward flashing movement of the short beams or spots of light which form the auroral corona.—Auroral glory, an auroral corona; anroral beams encircling a small region of the sky and pointing or converging toward its center. See corona.—Auroral needles, the finest elementary lines of auroral light. The apparent character of the perspective phenomenn, such as arches, drapery, coronæ, waves, and diffuse light, depends upon the varying arrangements of the auroral needles.—Auroral period. (a) The season of frequent auroras. (b) The length of time elapsing between successive maxima or minima of auroral displays, as the diurnal, the annual, the sun-spot, and the 55-year period. The last is possibly equivalent to 5 sun-spot periodic. The last is possibly equivalent to 5 sun-spot periodic. The last is possibly equivalent to 5 sun-spot periodic. The periodic changes in brightness and frequency of the auroral displays. Such changes are more frequent in ornear the years of maximum sun-spot frequency.—Auroral periodic changes in brightness and frequency of the auroral display. Such changes are more frequent in ornear the years of maximum sun-spot frequency.—Auroral periodic variations in brightness running rapidly along each auroral heam or converging from all directions toward the center of an auroral corona. When only a single beam crosses the sky it sometimes appears broken

so that the perspective effect, which is called an auroral arch, beam, or flash, shows corresponding symmetrical periodical changes.

aurorium (â-rō'ri-um), u. A hypothetie chemical element the existence of which has been supposed to be indicated by a particular line observed by Angström in the spectrum of au-

Still awaiting discovery by the fortunate spectroscopist are the unknown celestial elements aurorium, with a characteristic line at 5,570.7, and nebulum, having two bright lines at 5,070.75 and 4,95.02.

Sir W. Crookes, Address to the Brit. Assoc., 1898.

aurotin (â'rō-tin), n. [L. aurum, gold, +-t-+
-in².] A mordant acid color of the triphenylcarbinol type. It dyes wool an orange-yellow. aurotype (â'rō-tīp), u. [L. aurum, gold, + Gr. τσιος, type.] A photograph upon paper impregnated with a solution of gold salt. Stand. Diet.

aurulent (â'rū-lent), a. [LL, aurulentus, < L. aurum, gold.] Gold-colored. Bailey. [Rare.] Aurum mosaieum or musivum. (b) Stannic sulphid or tin disulphid, 8n 8g. This substance has been used to rub over the silk cushion of an electric machine.

Ausgleich (ous'glich), n. [G., a compromise, (ausyleichen, make equal, even or smooth, balance, compromise, \(\langle aus, \) out, \(+ \text{ gleichen}, \) make like or equal: see \(\text{like}^2 \). In German or Austrian polities, a compromise or agreement between conflicting parties; particularly an agreement made in 1867 between Austria and Hungary, renewable every ten years, by which autonomy was granted to Hungary.

austenite (as'ten-it), n. [Austen, a surname, +-ite².] A constituent of steel, obtained by quenching high carbon steel from a tempera-ture of 1000° C. in a menstruum such as iced ture of 1000°C. in a menstruum such as iced brine, which will produce very rapid cooling. It is probable that austenite is a true solid solution of carbon in iron, and that martensite, troostite, and sorbite are stages in the decomposition of the solid solution—that is, are intermediate steps between austenite on the one hand and pearlite on the other. On the subject of the constituents of hardened steel there exists at the present time a great deal of confusion in the nomenclature, nor is it possible to say definitely what is the true nature of any of these constituents.

austenitic (âs-te-nit'ik), u. Of, pertaining to, or characteristic of austenite.

Except that the polyhedral or "quatenitic" type of struc-Except that the polyhedral or "dustentte" type of struc-ture has never been obtained alone in a pure carbon steel, the types of the high-speed tool steels might all be ob-tained from pure from carbon steels by appropriate ther-mal treatment. The austenitic structure appears to be that of the nose of the tool in actual use.

Nature, May 18, 1905, p. 69.

Austin limestone. See *limestone.

austral, a. 2. [eap.] Of or pertaining to the great group of islands in the southern bemisphere of which New Zealand, Tasmania, and the continental island of Australia are the chief; Australasian.—Austral continent, the supposed continent in the south-polar region.—Austral-English, English as spoken in Australia and New Zealand, its distinguishing features being a certain number of English words and phrases and names of animals and plants used with Australian applications, a mmber of slang terms and idioms, and, finally, a considerable number of words from the native Australian and Maori languages. E. E. Morris, Austral English, p. xi. Australian ballot. See *ballot.—Australian bight. Same as *angioneurotic edema.—Australian bromegrass. See *torone-grass.—Australian harebell. Same as *tasmanian *bluebell.—Australian harebell. Same as *tasmanian *bluebell.—Australian ladybug.—English ya.—Australian region, a zoogeographic division including Australia, Tasmania, and the immediate adjacent islands. By some authorities it is extended to include New Guinea. the continental island of Australia are the

to include New Gninea

Australic (âs-trā'lik), a. Same as Australioid.
australium (âs-trā'li-um), n. [NL., \(Australiu. \)] The name given by Wedgewood in 1790 to a supposed new chemical element. The sand from Australia in which it was believed to be pres-

sand from Australia in which it was believed to be present proved on more careful examination to contain only substances already well known. The name sydneium was proposed as a synonym.

austraterebinthene (âs"tra-ter-ē-bin'thēn), n.

[Austra(lene) + terebinth + -ene.] Same as australene: See *pinene.

austriacum (âs-tri' a-kum), n. [NL., < Austriacus, adj., < Austria; Austrfa.] The name proposed by Brauner (of Prague, Austria) for a hypothetic chemical element of high atomic weight, of the probable presence of which in weight, of the probable presence of which in tellurium as hitherto known he supposed he had found some evidence. If really present this would serve to explain the failure of tellurium, with its usually accepted atomic weight, to fall into its proper place in the periodic classification of the elements.

Austrian brome-grass, cinnabar. See

*brome-grass, *einnabar.
austrium (âs'tri-um), n. [NL., < Austria, Aus-

tria.] The name proposed in 1886 by Linnemann for a supposed new chemical element which he believed he had found in the mineral orthite. It proved to be identical with gallium. In 1900 Pribram

announced that he had found spectroscopic evidence of the presence in orthite of traces of another new element, not that of Linnemann, to which it was proposed that the name austrium should be transferred. To prevent con-fusion the latter has been distinguished as austrium II.

austrocentral (âs-trō-sen'tral), a. [L. auster, south wind, + centrum, center, + -all.] Of the south-central region.

Austro-Hungarian (âs"trō-hung-gā'ri-an), a. Of or pertaining to Austria-Hungary.

Austronesian (as-tro-nē'sian), a. [L. auster, the south (wind), + Gr. $v_{ij}\sigma o_{ij}$, island.] Same as Malay-Polynesian.

Father Schmidt rejects Muller's idea that the Polynesians were the first, the Melanesians a second, section of the migration represented by the oceanic peoples, but accepts that part of his theory which sees in the Melanesians a mixed race sprung from the Papnan aborizines and Austronesian (Malayo-Polynesian) innoirrants. Amer. Anthropologist, Jan.-March, 1903, p. 164.

austro-occidental (âs-trō-ok-si-den'tal), a. Of the southwestern region.

austro-oriental (as-tro-o-ri-en'tal), a. Of the

southeastern region.

austroriparian (â - strō - rī - pā'rī - an), a. [1. auster, the south (wind), + riparius, riparian.]
Pertaining to or situated on the southern bank or border; specifically, belonging to the anstroriparian area: as, an austroriparian species, the austroriparian fauna. See *area.

It was early shown by the division that the Austroriparian is the direct continuation of the arid Lower Sonoran fauna of the table-land of Mexico and the southwestern United States, and that this same fauna belt occupies the interior valley of California and most of the peninsula of Lower California.

1. Vearbook, U. S. Dept. Agr., 1894, p. 208.

Austroriparian zone. Same as austroriparian ★area. ausubo (ou-sö'bō), n [W. Ind. native name.] The name in Porto Rico of the West Indian mastie-tree, Sideroxylon fætidissimum. Its timber is the most important and widely used on the island, being noted for its great du-

rability.

autarch (â'tărk), n. [LGr. αὐταρχος, an autoerat, noun use of Gr. αὐταρχος, self-ruling: see autarchy.] An absolute ruler. [Rare.] autarchic (â-tăr'kik), a. [autarchy + -ic.] Of or pertaining to autarchy; specifically, pertaining to a stage of social evolution in which groups are held together in larger wholes involuntarily and by force. Amer. Jour. Sociol., Jan., 1901, p. 505.

autarith (â'ta-rith). n. [Irreg. < Gr. αὐτός, self, $+ a\rho\theta(\mu\delta c)$, number.] An automatic calculating-machine capable of performing the four fundamental arithmetical operations of adding, subtracting, multiplying, and dividing. Buttons are moved by the operator along certain slots corresponding to the figures with which the operation corresponding to the figures with which the operation is to be performed. All further movements are effected automatically through the action of a weight or springmotor which supplies the requisite energy. Sci. Amer. Sup., Feb. 21, 1903, p. 22,689.

aute (ã'ó-tā), n. [Maori and Tahitian.] A name in Tahiti and New Zealand of the papermulberry, Papyrius papyrifera. See Brous-

sonctia.

Auteupuccinia (â"-tū-puk-sin'i-ä), n. [NL., $\langle \operatorname{Gr}. a \nu \tau \phi_{\zeta}, \operatorname{self}, + \varepsilon v, \operatorname{well} (\operatorname{good}), + Puccinia.$] The name applied by De Bary to a section of the genus Puccinia characterized by having the spermagonia, seeidia, uredospores, and teleutospores borne on the same host-plant.

authenticater, authenticator (â-then'ti-kā-ter, -tor), n. One who authenticates a doeuter, -tor), n. ment, statement, fact, or the like, or establishes or guarantees its genuineness, validity, or eredibility.

authigenetic (â"thi-jē-net'ik), a. See *authi-

authigenic (â-thi-jen'ik), a. [Gr. aiθιγενής, born on the spot, ⟨aiθι, there, + -γενής, -born.] Originating where found: applied to the minerals of an igneous or metamorphic rock which have crystallized in place, as contrasted with the fragments of preëxisting rocks which form the sediments. Also authigenetic and authigenous. Geikie, Text-book of Geol., p. 90.

authigenous (å-thij'e-nus), a. See *authigenic.

author, n. 7. pl. A game of eards played with a special pack bearing the names of auwith a special pack bearing the names of authors and their works. The pack is dealt out one at a time as far as it will go for the players engaged. The one on the left of the dealer begins by asking any player he chooses for a card of the same denomination as one in his hand, naming the suit he wants. If the player asked has it he must give it up, and the same player may ask again; If he has not the card it becomes his turn to ask. As soon as any player gets four of the same denomination (a 'book') he lays them aside. The winner is the one who lays aside the greatest number of 'books in this way.—Author's proof. See *proof.

as autobiographical. [Rare.] N. E. D. of the electric wave. See *coherer. autoboat (\hat{a}' tō-bōt"), n. A boat equipped with autocolony (\hat{a}' tō-kol-ō-ni), n. [auto-+colony.] thor; authorship: as, "the mysteries of authoreraft," Scott, Antiquary, xiv.

author-entry (a'thor-en'tri), n. In library-entaloguing, the entry of a book under the name of the author, as distinct from a subjectentry

authorially (â-thô'ri-al-i), adr. As an author; after the manuer of an author or writer of books.

I was, authorially speaking, behind the door, Tupper, Twins, p. 170. [Rare.] N. E. D.

authorish (â'thor-ish), a. [author + -ish1.] Somewhat like an author.

Yet it hath an authorish twang about it.

Lamb, Final Mem., p. 257.

authorized (â'thor-ĭzd), p. a. 1. Duly empowered: as, an authorized agent.—2. Formally sanctioned by those having the right or power to sanction, as a reprint or translation of a book: as, an authorized edition; the authorized version of the Bible. Also unthorised.

authorless (â'thor-les), a. [author + -less.]

1. Of unknown or unadmitted authorship: anonymous: as, au authorless rumor.

As I am not ignorant, so I ought to be sensible of the false aspersions some authorless tongues have laid upon me. Mrs. T. Sackville, Guardian, Aug. 13, 1713, No. 133.

2. That never had an author: unoriginated by any one; uncreated. Fitzedward Hall, Hindu Philos. Syst., p. 64.—3. Without authors or writers: as, "an interval of authorless years," B. Wheatley. [Rare.] N. E. D. author-number (a thor-num ber), n. The

number which, when appended to the initial autocarpous, a. (b) Self-fruiting, that is, fruit-letter of an author's name, is used throughout ing as the result of self-fertilization. a library catalogue to represent that name for example, F54 for John Fiske, F87 for E.

A. Freeman, etc.

authotype (à 'thō-tip), n. [Appar. an error for autotype. Confused with author.] In printing: (a) The printed facsimile of a signature or design. (b) The block or plate by which the facsimile is produced.

autic (à'tik), n. [$aut(0)^3 + ie$.] Of, pertaining to, or consisting of autos or real existences. autocatalysis (\hat{a}^*t\bar{0}-ka-tal'i-sis), n.

We should also bear in mind that behind and above the great universe of natural objects, and the true cause of all the rest, stands the autic universe.

G. J. Stoney, reprinted in Smithsonian Report, 1899,

lp. 221. auto2 (â'tō), n. A colloquial abbreviation of automobile; a motor-car. Amer. Inventor, Feb.

15, 1904, p. 79 auto3 (â'tō). n.; pl. autos (-tōz). [A detached use of auto-.] A real existence; what actually exists, in contradistinction to what only appar-

ently exists. An auto, then, is a thing that really exists and in no wise depends on the way we, human minds, may happen to regard it. Our impressions or heliefs about it may be correct or may be erroneous, but the term auto means the thing itself.

G. J. Stoney, Proc. Roy. Dub. Soc., VI. (N. S.) 478, 1896.

auto-abstract (å-tō-ab'strakt). n. A summary or abstract of an address or communication, as before a learned society, prepared by the speaker himself for insertion in the printed

proceedings. Nature, LXVII. 253.

auto-active (â-tō-ak'tiv), a. Self-active or self-acting: as, auto-active minds.

auto-anticoherer (â*1ō-an-ti-kō-hēr'er), n. In elect., an anticoherer which recovers spontau-See *anticoherer.

auto-anticomplement (â tō -an -ti -kom'plē ment), n. An anticomplement which is formed within the same body against its own comple-See *romplement, 8.

Autobasidii (â"tō-bā-sid'i-ī), n. pl. [NL., pl. of adj. from autobasidium.] Same as *.lutobasidiomucetes.

Autobasídiomycetes (â*tō-bā-sid*i-ō-mī-sē* tēz), n. pl. [NL., <Gr. abroc, self, + Basidia-mycetes.] A group of Basidiomycetes having unicellular basidia with sterigmata borne at the apex which produce a single spore. Also Antobasidii.

autobasidium (â*tō-bā-sid'i-um), n.; pl. auto-basidia (-ā). [NL., ζGr. aiτός, self, + basidium (which see).] A simple basidium without septation, as in the Antobusidiomycetes.

autobiografer, n. A simplified spelling of autobiographer.

autobiographal (â//tō-bī-og/ra-fal), u, as autobiographical. [Rare.] N. E. D.

an automobile engine which, by virtue of its ability to make many more revolutions per minute than the regular marine type of engine, gives a high rate of speed. The first regular auto-boat race in America took place on May 30, 1904, under the charge of the Manhasset Bay Yacht Club of New York. See *motorboat.

autoboating (â'tō-bōt"ing), n. The sailing or navigation of an autoboat for pleasure or reereation

autobolide (ō-tō-bō-lēd'), n. **autobolide** (o-tō-bō-lēd'), n. [F. *autobolide, ζ Gr. $ai\tau \dot{\phi} c$, self, $+ \beta \dot{\phi} \lambda i c$ ($\beta \dot{\phi} \lambda i \dot{\phi}$), a missile.] An automobile ear designed to be projected through the air from a specially constructed track: an exhibition of daring devised in track: an exhibition of daring devised in France. The car and operator descend a steep aerial incline which curves inward and backward at the foot. The car is held from falling by guard-rails as it turns upside down at the foot of the incline. The stored momentum of the ear sends it across an air-gap in the track, and a counter-weight under the car causes it to turn a half-somersault in the air, landing against a curved surface which passes into a gentle incline on which the car, now right side up, is gradually retarded until it runs easily off on the ground and is brought to rest. The track is less than 200 feet long, and the act occupies about 4 seconds.

autobus (â'tō-bns"), n. [auto- + bus.] An automobile omnibus; a vehicle propelled by its own motor and capable of carrying a dozen

or more passengers.

autocar (â'tộ-kắr), n. [auto(-mobile) + car.] 1. An automobile ear: a car which contains autocar (â'tộ-kẫr), n. in itself a motor with its source of power. -2. A trade-name of a special form of motor-car.

autocarette (â "tō-kä-ret'), n. [auto- + earette.] A commercial name for a type of motordriven omnibus or wagouette used in cities.

autocarpy ($\hat{\mathbf{a}}'$ tō-kär-pi), n. [NL *autocarpia, \langle Gr. $\mathbf{a}\mathbf{v}\tau\delta\kappa\mathbf{a}\rho\pi\sigma c$, self-fruetifying, \langle Gr. $\mathbf{a}\mathbf{v}\tau\delta\kappa\mathbf{a}\rho\pi\sigma c$, self, + $\kappa\mathbf{a}\rho\pi\sigma c$, fruit.] The condition of self-form fruiting, or fruiting as the result of self-fer-

[auto- + earautocarriage (â'tō-kar-āj), n. riage.] A motor-driven vehicle or motor-car, usually of the pleasure-vehicle class and car-A motor-driven vehicle or motor-car,

autocatalysis (a*tō-ka-tal'i-sis), n. [auto- + catalysis.] In phys. chem., the catalytic action of a complex substance upon itself, in which one of its functions constant. one of its functions accelerates the velocity of reaction of another function.

autocatalytic (â"tō-kat-a-lit'ik), a. In phys.

autochore (â'tō-kōr), n. [Gr. airτός, self, + χωρείν, spread abroad.] In phylogeog.. a plant distributed by its own motility: applied to the same plants as mastigospore, but in a different F. E. Clements.

autochrome (â'tō-krōm), a. [Gr. aὐτός, self, + χρῶμα, color.] A term applied to the Lumière process of color *photography (which see). The Century, Jan., 1908, p. 326.

autochthon, n. 3. That element or portion of

the fauna of a given region which has descended directly from animals which occupied the region at a much earlier period: contrasted with heterochthon.

autochthonous, a. 3. In petrol., noting rocks which have originated in situ, such as peat, rock-salt, and stalagmitic limestone; also applied to constituent minerals of rocks which have crystallized in the place they now occupy. Autochthonous materials are contrasted with the mechanically derived particles of elastic

autoclastic (â-tō-klas'tik), a. [Gr. αὐτός, self, + κλαστος, ⟨κ'αν, break.] In geol., noting a fragmental rock produced by dynamic crushing or granulation, without loss of cohesion: con-trasted with sediments the particles of which come from a distance.

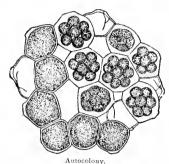
Another term, "antwelas'iv," introduced by American wr ters and frequently usel in this memoir, might with advantage be changed to "authiclastic" (= breeciated in situ), Nature, April 16, 1903, p. 555.

autoclave, n. 2. A form of digester in which mixtures of chemicals can be safely heated under great pressure: largely used in the manufacture of coal-tar dvestuffs,—3. A device for the sterilization by steam under pressure of bacterial cultures or culture media, milk, and other substances.

author-catalogue, author-catalog (â'thor-kat'a-log), n. A library catalogue in which biography.

A simplified spelling of auto-autocoherer (â"tō-kō-hēr'er), n. [auto-+co-herer.] In elect., a coherer which spontane-ously recovers its resistance after the passing

In bot., the union in the form of a colony of



Cælastrum sphæricum, Någ.; large cœnobia giving rise to daughter-co-nobia (autocolonies). X 475.) (From West's "British Freshwater Algæ.")

several autospores at the time of their expul-

autoconduction (â'tô-kon-duk'shon), n. [auto-+ conduction.] A method of employing high-frequency currents by placing the part to be acted upon within the solenoid, but not in direct connection with the circuit.

autoconverter (â#tō-kon-ver'ter), \star autotransformer.

autocopyist (â-tō-kop'i-ist), n. [Gr. aυτός, self, + copyist.] In photog., a simplified method of printing from sheets of bichromated gelatin in an ordinary letter-copying press.

autocratress (â-tok'ra-tres), n. A female autoerat: an autocratrix.

autocriticism (â-tō-krit'i-sizm), n. Criticism of one's self or of one's own productions; selferiticism.

autocycle (â'tō·sī-kl), n. [auto- + cycle.] 1. The trade-name of a combination of two tandem bicycles side byside, between which are the autocycle (â'tō·sī-kl), n. tanks and appliances appropriate to a chemical fire-extinguisher, and a propelling motor. The saddles of the bicycles will carry four men, and the motor will propel the machine at high speed. See also *autoquadrieycle.-2. Same as *motor-eyele.

autocytolysin (â"tō-sī-tol'i-sin), n. [Gr. $airio_{\mathcal{E}}$, self, $+ \kappa irio_{\mathcal{E}}$, a hollow (a cell), $+ \lambda irio_{\mathcal{E}}$, dissolution, + - in^2 .] Same as *uutolysin.

chem., acting by autocatalysis, or exhibiting autocytolytic (â#tō-sī-tō-lit'īk), a. [auto-the phenomenon of autocatalysis.

eytolysis(-iyt-) + -ic.] Of or pertaining to the autochore (â'tō-kōr), n. [Gr. airōc, self, + destruction of cells by cytotoxins produced in the body of the same animal.

Just what the agencies are under which in normal living tissues cells are protected from the action of the auto-cytotytic substances is not yet clear.

Med. Record, Feb. 14, 1903, p. 247.

autocytotoxin (â-tộ-sĩ-tộ-tok'sin), n. [auto-+ cytoloxin.] A cytotoxin produced in the body of an animal against its own cells. The formation of such bodies is rare, but it seems to occur at times. See *autohemolysin.

In a few instances autocytotoxins for blood-cells have been produced. Science, May 2, 1902, p. 697.

autodermalium (â "tō - dèr - mā'li - um), n.; pl. autodermalium (a-10-der-ma (1-lim), n.; pinautodermaliu(-ä). [NL, \langle Gr. av\(\tau\)os, self, + \(\theta\)os\(\theta\), skin: see \(dermal\). In sponges, one of the spicules which support the dermal membrane. They are usually hexactinal or pentactinal, with 4 similar rays lying embedded in the membrane and with the axial cross placed within the latter. Compare hypotermale.

Autodetus (â -tod'ē -tus), n. [Gr. αὐτόθετος, self-bound, ⟨αὐτός, self, + *δετός, ⟨δεῖν, bind.] A genus of tubicolous annelids which make a regularly spiral tubo attached by the apical whorls: erroneously regarded by some authors as gastropod mollusks. The species are all as gastropod mollusks. The species are all extinct and are found in Silurian and Devonian formations.

autodiagnosis (â/tō-dī-ag-nō/sis), n. diagnosis.] Diagnosis of one's own disease or state of health.

autodiagnostic (â"tō-dī-ag-nos'tik), a. [auto-+ diagnostic.] Relating to or effecting autodiagnesis.

The same hand must not be used for autodiagnostic purposes all the time, but it is advisable to change hands methodically, using the right—hand at one scence, and the left at another.

Med. Record, LXIII, 169.

autodifferentiation (â tō-dif-e-ren shi-ā'- autogravure (â tō-grā-vūr'), n. [auto-+ F. autokinesis (â tō-ki-nē'sis), n. [See autoki-shon), n. In biol., differentiation produced by intrinsic eauses or due to conditions resident mechanical modification of the etching process. autolimnitic (â tō-lim-nit'ik), a. [Gr. aὐτος, intrinsic causes or due to conditions resident in the organism. A. W. Trettien, Amer. Jour. Psychol., Xll. p. 25.

autodigestion (a*tō-di-jes'tyon), n. [auto-+

digestion.] Digestion by the gastric juice of Photog, p. 49.

portions of the mucous membrane of the autoharp (â'tō-hārp), n. stomach which have lost their vitality. See

*autolusis.

[auto2 + -drome, autodrome (â'tō-drōm), n. as in hippodrome. Cf. Gr. αυτόδρομος, running of itself. ζαυτος, self. + -δρομος, ζ δραμέν, run.] A circus or course for the running of automobiles, especially for speeding or racing. autœcious, a. 2. In mycol., passing through

all its stages of development on the same host,

as certain species of the genus Puccinia.

autœcism (à-té'sizm), n. [autæc(ious) + -ism.]

The state or condition of an autæeious para-

auto-epigraph (â-tō-ep'i-graf), n. [autocpigraph.] An epigraph written by the subject of it; an inscription composed by one's self for one's own tomb or monument.

auto-erotism (â*tō-e-rot'izm), n. [auto- + erot(ie) + -ism.] A form of sexual perversion in which the presence or thought of another

m which the presence or thought of another person is not necessary to aronse desire. autogamic (â-tō-gam'ik), a. 1. In bot., of, pertaining to, or exhibiting self-fertilization.—2. In biot., of or pertaining to the pairing or mating of like with like.

Pearson adds, "Variations do not occur accidentally, or in isolated instances; autogamic and assortative mating are realities."

T. H. Morgan, Evol. and Adapt., p. 269.

Autogamic mating. See *mating.

autogamic mating. See **mating.*
autogamy, n. 2. In biol., the pairing or mating of like with like.
autogastralium (a"tō-gas-trā'li-um), n.; pl.
autogastratia (-ä). [Gr. airtoc, self, + gastralis,
gastral. Cf. gastralium.] One of the spicules which support the gastral membrane in

autogen (a 'tō-jen). n. [Gr. αὐτογενής, self-produced.] A self-sustaining organism, as contrasted with one that is dependent upon

others. [Rare.]

The broadest distinction that can be named is that which separates the manufacturing organisms from the non-manufacturing organisms, the autogen from the parasite.

L. F. Ward, Dynamic Sociol., I. 412.

autogeneric (â#tō-jē-ner'ik), a. [auto- + generie. Pertaining to other individuals of the same living type: used by K. Pearson in such phrases as autogeneric influence, autogeneric selection, etc.

autogenetic, a. 2. In phys. geog., pertaining to a stream of which the course has not been determined by the slope of the original surface of the land. — Autogenetic drainage, drainage (streams) of which the course has not been determined by the original surface of the land. Such streams are characteristic of many plains and of the valley-sides of master-streams. — Autogenetic topography, land relief which has been produced by the work of autogenetic

autogenic, a. 2. Same as *authigenie.

Autogenous soldering. This process is now carried out with metals, in addition to the older methods, by means of the oxyacetylene blowpipe and of the aluminothermy of Goldschmidt.—Autogenous valley, a valley formed by an autogenetic stream.

autograf, a., n., and v.t. A simplified spelling of autograph.

 autogram (â 'tō-gram), n. [Gr. aὐτός, self, +)ράμμα, writing.]
 1. A telegraphic message sent and received in the handwriting of the sender. See telautograph. -2. An autograph.

Autograph recorder, a time-recording device which, when the autograph of an arriving or leaving employee is inscribed on a tape or tablet, simultaneously records the time of the inscription.

autographism (â'tō-grāf-ism), n. [As autograph + -ism.] A condition in which tracings graph + ism.made on the skin with the end of a stick or other hard object persist for a time as elevations on the surface; dermographism.

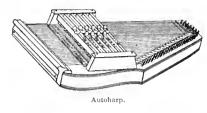
autographize (â'tō-gra-fīz), v. i.; pret. and pp. autographized, ppr. autographizing. [autograph + -ize.] To collect autographs. Dibdin. [Rare.] N. E. D. autographizer (â'tō-gra-fī''zer), n. One who

is engaged in making a collection of auto-

graphs. Dibdiu. [Rare.] N. E. D. autographometer (h*fo-gra-fom'e-ter), u. [Gr. aυτό ρυφός, self-written, + μέτρον, measure.] An instrument which registers the topography of surfaces over which it is rolled.

The placing of a bituminous ground on copper is followed by the transfer of a photographic image from a reversed transparency, etching being accomplished by solutions of ferric chlorid. Woodbury, Encyc. Dict. of

[auto- + harp.]musical instrument of the zither class, having



across the strings several bars provided with projecting dampers so arranged that when one of the bars is pressed down all strings are damped or rendered mute except those of some autolysin (â-tol'i-sin), n. [autolysis + -in².] particular chord. By supplying such bars for a num. A lysin which will cause the dissolution of damped or rendered mute except those of some particular chord. By supplying such bars for a number of chords usually required in simple accompaniments, the instrument is made usable for convenient arpeggio effects with but little technical knowledge or skill on the part of the player.

autohemolysin (â*tō-hē-mol'i-sin), n. A hemolysin directed against the red corpuscles of

the same individual.

autohemolysis (â/tô-hē-mol'i-sis), n. Hemolsis referable to the action of autohemolysins. It is of rare occurrence. Also autohæmolysis.

Some observations are recorded to which, after profuse internal hemorrhage, hæmaturia has developed, iodicating the possibility of autohæmolysis under special conditions.

Med. Record, Feb. 14, 1903, p. 247.

autohemolytic (â"tō-hem-ō-lit'ik), a. Referring to the action of autohemolysins. Also autohæmolytic.

autohypnosis (â"tō-hip-nō'sis), n. hypnosis.] Self-induced hypnotic trance. autohypnotic (a*tō-hip-not'ik), a. and n. I. a. Relating to or of the nature of autohypnosis.

II. n. One who has the power to put him-

autohypnotism (â-tō-hip'nō-tizm), n. [auto-+ hypnotism.] Self-induced hypnotism.

autohypnotization (â-tō-hip*nō-ti-zā'shon), n. The induction of hypnosis by autosuggestion: self-hypnotizing.

The conduct of our witch-burning ancestors now becomes intelligible, a step on the way to being pardonable. With their methods and inherited prejudices, they could scarcely have reasoned otherwise than they did in certain cases of hysteria and autohypnotization.

Encyc. Brit., XXXII. 53.

auto-immunity (â"tō-i-mū'ni-ti), n. [auto-+ immunity.] Immunity acquired through disease, or congenital, as distinguished from that effected by the injection of prophylactic serums

auto-immunization (â"tō-i-mū-ni-zā'shon), n. The immunization of an animal with cells or cellular products derived from the same animal. The resulting adaptation-products are toxic for the same cells which gave rise to their formation. Such an occurrence is rare. See *autohemolysin.

auto-infection (â#to-in-fek'shon), n. infection; infection of the body from within, in contradistinction to exogenie infection; the act whereby an organism infects itself with parasites, as sometimes happens in eases of tapeworm, pinworms, baeterial diseases, etc.

Some are short-lived, and from knowledge of their life history one may conclude that they are not likely to be met with in large numbers, while in other cases auto-infection renders a considerable increase in numbers probable as is the case with the pinworms, Oxyuris vermicularis, or threatens to infest the host with dangerous larval stages as in the pork tapeworm, Tania solimm.

Trans. Amer. Micros. Soc., Nov. 1903, p. 111.

autoing (â'tō-ing), n. The use of automobiles for business or pleasure traveling.

auto-intoxication (\hat{a}'' tō-in-tok-si-kā'shon), n. Poisoning with substances produced within the body: systemic poisoning by toxic material formed within one's own body during the proeess of intestinal digestion, or by the waste products of metabolism.

The common starting-point of auto-intoxication theories is the influence of certain products of decomposition of living substance upon the continuance of cell-activity.

H. H. Foster; Amer. Jour. Psychol., X11. 160.

autoist (â'tō-ist), n. [auto + -ist.] One who owns, uses, or runs an 'auto' or automobile. Sci. Amer. LXXXVIII. 134.

autokinesis (a*to-ki-ne*sis), n. [See αμιοκιnesy.] In physiol., spontaneous motion.
autolimnitic (â*tō-lim-nit'ik), a. [Gr. αὐτός,
self. + λίμνη, lake, + -it-ie.] Floating or
swimming in fresh water and confined to the swimming in Iresh water and commed to the superficial layer of water. See *bathylimnitic, *limnitic, *zonolimnitie. Haecket (trans.) Planktonic Studies, p. 580.

autologist (ä-tol'ō-jist), n. One who is engaged in the scientific study of self. See

autology.

autoluminescence (å"tō-lū-mi-nes'ens), n.
The spontaneous emission of light. See *luminescence.

Of more popular interest was Prof. George F. Barker's "Note on Radio-activity and Autoluminescence."
Sci. Amer., May 7, 1904, p. 366.

autoluminescent (â "tō-lū-mi-nes'ent), n. [auto- + tuminescent.] Capable of emitting luminous rays spontaneously and without excitation from other bodies: said of the so-See *lumicalled radioactive substances. nescence.

eells in the body of the animal in which it is formed. The formation of such bodies is

formed. The formation of such bodies is rare. Also autocytolysin.
autolysis (à-to'i-sis), n. [Gr. avróc, self, + //έσc, dissolution.] Self-dissolution; in physiol., self-dissolution.] Self-dissolution; in physiol., self-dissolution.] Self-dissolution; in physiol., self-dissolution.] Until recently it was generally held that the only ferments occurring in the animal body were the common ferments of the disestive secretions, and that cellular digestion, in contradistinction to gastro-intestinal digestion, was referable to the peculiar activity of living protoplasm. Salkowski, however, demonstrated as early as 1890 that itver-tissue, when finely minced and kept in saturated chloroform water, will underge changes which are manifestly analogous to those occurring during pancreatic digestion. For this form of tissue-digestion Salkowski proposed the term autodigestion, and he suggested that probably the process was referable to the action of ferments contained in the liver-cells which were liberated after the death of the liver-cells which were liberated after the death of the liver-cells which were liberated after the death of the liver-cells which were liberated after the death of the liver-cells which were liberated after the death of the liver-cells which were liberated after the death of the liver-cells which were liberated after the death of the liver-cell which were liberated after the death of the liver-cell which liberated from the liver-cell and their transformation into the corresponding enzyms by the chloroform. This is the meaning the liberated from the liberated liberated from the liberated liberated from the liberated liberated liberated liberated l rane. Also autocytolysin.

autolysis (â-tol'i-sis), n. [Gr. aυτός, self, +
λίσις, dissolution.] Self-dissolution; in physautovtic processes may be active in the defense of the animal body against bacterial products, and hence of moment in the production of immunity. Knowledge of the subject is still in its infancy, but it may safely be asserted that the discovery of autolysis is one of the most important in the domain of physiology and physiological chemistry.

autolytic (â-tō-lit'ik), a. [autolysis (-lyt-) + ic.] Relating to or of the nature of autolysis.

One can readily convince himself of the energetic action of autolytic ferments by the simple experiment of placing a piece of fresh pneumonic lung in the stage of gray hepatization under chloroform and noting the rapid solution of the exudate, in contrast, with the absence of this process in earlier stages of the disease.

Science, Nov. 28, 1902, p. 858.

autolyze (â'tō-liz), v. t.; pret. and pp. autolyzed, ppr. autolyzing. [autoly(sis) + (-i)ze. Cf. analyse from analysis.] To undergo or cause to undergo autolytic digestion. Science, July 3, 1903, p. 15.

automacy (â-tom'a-si), n. [Gr. αὐτοματία (recorded only as a name for the goddess of ehance), < αὐτόματος, self-moving.] Same as automatism, 1; action determined by outer conditions and not by the will.

The several comparisons seem to define that conrae of volitional development arising in the chemical and mechanical affinities of the mineral realm, burgeoning in simple vitality, multiplying in the notifity of animal life, greatly expanding in the collective activity of demotic organization, and culminating in the conqueat of nature through the mind-guided powers of enlightened mankind. Expressed briefly, this course of development may be characterized as the progressive passage from automacy to autonomy.

W. J. McGee, An. Rep. Bur. Amer. Ethnol., XVII. 177.

automat (â'tō-mat), n. [G., ⟨Gr., αὐτόματον: see automaton.] 1. A photographic lens-shutter which is opened and kept open by means of a pneumatic bulb.—2. An apparatus consisting of a series of lifts in compartments from which, by means of automatic machinery, separate articles of food at stated prices are delivered to any one who will drop the necessary coin into a slot; also, a restaurant which serves its customers by means of such an apparatus. The aim is to do away with the intermediation of waiters. [Recent.]

with the intermediation of waiters. [Recent.]

automatic. I. a.—Automatic combustion or automatic fire. Same as **spontaneous combustion.—Automatic fire. Same as **spontaneous combustion.—Automatic fireder. See **feeder.—Automatic firearm, a firearm in which the recoil, or part of the force of the explosive, is used to eject the spent cartridgeshell, introduce a new cartridge, cock the atriker, and close the breech. It will continue to fire as long as there are cartridges supplied and the gunner presses the trigger. See **parabellum.—Automatic **photography, **piano-player. See the nouns.—Automatic printer, in **photog.** raphy, **piano-player. See the nouns.—Automatic printer, in **photog.** raphy, **piano-player. See the nouns.—Automatic printer, in **photog.** a machine for automatically printing upon slips of sensitized bromide or chlorid paper: devised by Urle. The atrip is pressed by a pad sgainst unegative for a suitable period, such as two seconds, and exposed during this time to the action of electric light. The lights are then turned down, and the strip is moved and a fresh portion exposed. All movements are actuated by clockwork. The strips are developed by being passed through chemical baths, and are then washed and dried. In this way several thousand prints a day can be secured.—Automatic reel. See **reell.—Automatic writing, writing performed unconsciously or subconsciously, while the attention of the writer is otherwise engaged: the term is applied to planchette-writing, on the theory that the writing done with that instrnment is not always done with some degree of intention to deceive or entertain.

II. n. One who is subject to automatism.

II. n. One who is subject to automatism. automatism, n. 4. Specifically, in psychol.:
(a) An action performed unconsciously or subconsciously while the agent's attention is. otherwise engaged, or while he is in a trance or sleep-like state. (b) The mental state of the agent during such a performance.

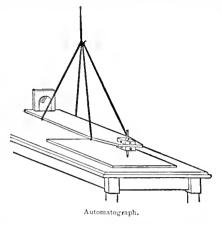
This leads us to the chief field of research in "automatisms," or actions of the subconscious or "subliminal" self. The prototype of such things is found in the performances of natural sommambulists, who in all ages have seemed to exhibit faculties beyond their power when in a normal condition.

Encyc, Brit., XXXII, 52,

automatist, n. 3. Specifically, in psychol., the subject of automatism; one who writes, etc., automatically.

Trance is a name applied to a form of sutomatism, whether healthy or morbid, in which the automatist appears to be in some way altered, or even asleep, but in which he may speak or write certain matter of which his normal personality is ignorant at the time, and which lit rarcly remembers on his return to waking life. If there appears to be not merely a modification but a substitution of personality in the trance, it is called possession. Trance occurs spontaneously in so-called somnambulism, as a result of disease in hysteria, and as a result of suggestion, etc., in hypnotic states. A fuller analysis shows classes which slide into each other in various ways.

F. W. II. Myers, Proc. Soc. Psychical Research, [XVII. 67.



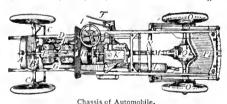
involuntary movements of hand and arm: a scientific form of the planchette. J. Jastrow, Amer. Jour. Psychol., IV. 400.

automnesia (â-tom-nē'si-ā), n. [Gr. αὐτός, self, + μυῆσις, memory.] In psychol., spontaneous memory; the revival of past experience without apparent conditions in association. Ribot (trans.), Psychol. of Emotions, p. 153.

automobile. I. a.—Automobile chair, a chair on wheels, driven by an electric motor and storage-battery, nsed at exhibitions and fairs for carrying visitors about the buildings and grounds. The chair has somewhat the lines of a low phaeton, the larger wheels under the body being the driving-wheels, and the two smaller ones in front under the foot-rest being used for steering and ateadying. The operator sits at the rear. The batteries and motors give a speed of about three miles an hour.—Automobile cycle. See *cycle1.

II. n. 2. Any device or apparatus which is movable by a force placed within itself and is self-acting as to direction and control; specifically—(a) A torpedo, carrying within itself a store of accumulated energy, which can be launched from a vessel or fort, and which, when properly directed and adjusted, will move through the water until it reaches the object at which it is aimed. (b) A vehicle, carrying within itself the source of the mechanical power which propels it, designed to move on common which propels it, designed to move on common roads or highways: a motor-car. The automobile or motor-car is not strictly an automobile, since a human intelligence always steers it and controls the power. The motor-car differs from the locomotive in that it does not travel on rails, and from the traction-engine or tractor in that it carries the load instead of drawing it after itself in other wheeled vehicles. The motor-bicycle and motor-tricycle differ from the motor-car in that the latter has nearly always four wheels. The types of vehicle included under the name automobile fall under one of four groups:

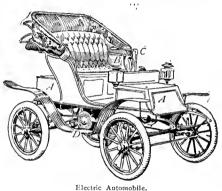
(1) The racing-car (rarely called an 'automobile'), de-



A, cooler: F, fan; C, S, stering: Knuckles; D, carbureter; water-circulating pipe; F, inlet manifold; G, exhaust; H, f wheel and clutch; I, speed-lever; J, emergency-brake lever; gear-set; L, muffler: M, inclosed shaft drive; N, brake-beam O, O, brakes; P, gasolene-tauk; Q, differential casing.

signed for great speed on prepared special tracks or speedways, carrying one or at most two persons, and made as light as is consistent with high power; (2) the fouring-car, designed to carry four or five persons, made to secure comfort on long trips, and of high power in the moderate class; (3) the service-car, intended for use in cities or suburban districts, of moderate power and speed, and carrying two or more persons; (4) the business veagon or truck, intended for the delivery of merchandise, having considerable carrying capacity but slow speed. Again, motor-cars may be grouped, according to their source of propelling energy, into: (1) electric-care, driven by electric motors energized from storage-batteries; (2) steam-cars, in which a boller supplies steam to an engine geared to the driving-axles; (3) gasolene-cars (more properly termed internal-combustion motor-cars), in which the expansive force of a mixture of gasolene vapor and air, on being ignited, is used to drive the motor-piston. Compressed air has also been used to drive motor-cars. The signed for great speed on prepared special tracks or speedpressed air has also been used to drive motor-cars. The wheels of the motor-car usually have rubher tires, pneumatic on the lighter and speedler vehicle, and solid on the motor-truck and -cab. The axle-bearings are fitted with steel balls in runways to reduce friction. The vehicle is usually steered by the front pair of wheels, which are carried on special mountings from the front sxle, and the proper direction is given by a steering-lever or -wheel at the driver's seat. The wheel-steering device transmits

automorph
less shock from the roadway to the controlling hand, and is universal on all but light cars. The rear axle is the driving-axle, receiving its motion either by drive-chains or by a shaft and gears. In the electric car the motors (two naually) drive the axle by spur-gears, giving convenient reduction. The motors are controlled by a controller which is operated by a combined lever and switch. The car is fitted with two brakes, one a service-brake and the other a more powerful one for emergencies. The driving-wheels or axle must be fitted with a compensating-gear to allow the outer wheel on turning a curve to travel a longer path than the wheel which is nearer the center. The gasolene-motor has its ignition effected by electric spark (see internal-combustion *motor), and can be controlled by a throttle-valve and by advancing or retarding the spark. Such motors must also be have change-speed gears for varying resistances and to permit the direction of the motor to be reversed; a clutch must also be placed between motor- and driving-wheels to allow the car to be stopped without stopping the motor. In steam-cars the flash or semi-flash type of boiler is much used, eliminat-



A. A. receptacles for storage batteries; B. motor control; C. steer-ing-gear; D. motor.

ing some troubles connected with the fire-tube types. For night use motor-cars are equipped with powerful reflector- or lens-lanterns, fed by acetylene gas from generators on the car. The speed of racing-cars is not fixed, but 120 miles an hour has been reached with motors of from 80 to 100 horse-power. The carrying capacity of trucks



A, cooler (or radiator); B, connecting steering-rod; C, change-speed lever; D, emergency-brake lever; E, steering-wheel, with spark and throttle controls.

has been limited to about 10 tons on account of difficulties from the road-bed. Tonring-cars have a capacity of from 16 to 60 horse-power, and speeds ranging up to 40 or 50 miles an hour. Light electrics have a radius of action of about 30 miles from a charging-station, or a 60-mile limit. Increasing comfort and luxny are secured by inclosing the rear or tonnean part of the tonring-car, making it a vehicle for all weathers and temperatures and not a pleasure-vehicle only.

automobile (â-tō-mo'bil), v. i. To ride in an automobile vehicle. [Recent 1. Cosmonolitan]

automobile vehicle. [Recent.] Cosmopolitan, XXV 485

automobilism (â-tō-mō'bil-izm), n. The use of automobile vehicles. [Recent.] automobilist (â-tō-mō'bil-ist), n. One who

automobility (a - tō-mō-bil'i-ti), n. [automo-bile + -ity (or auto- + mobility).] 1. The elaracter or fact of being automobile; capacity for making automatic movements. See automatic, 2.—2. The use of automobiles as a means of locomotion; travel by means of automobiles. Nature, Nov. 26, 1903 (advt.). fRare.

automobilize (â-tō-mō'bil-īz), r.i.; pret. and pp. automobilize (a-to-mo' bil-iz), v.t.; pret. and pp. automobilized, ppr. automobilizing. [automobile + -ize.] To use, ride in, or drive an antomobile as a means of locomotion or for pleasure. N. Y. Times, March 26, 1902. [Rarc.] automorph (â'tō-môrf), n. [Gr. aiτός, self, + μορφή, form.] In math., the product of a form

by its unit form.

As to the forms $(mx^2 \sim ny^2)$, $(x^2 \sim mny^2)$, mere automorphs of the same form, i.e., products of the form by its unit-form $r^2 - mn v^2 = 1$, are not to be considered as

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 554,

automorphic, a. 2. In math., characterized by automorphism. See *automorphism, 2.—3. Same as idiomorphic.—Automorphic function, in math., a function which is unchanged by all the substitutions of any group of linear transformations.

Two classes of automorphic functions are known by which this uniformisation may be effected: namely, one which was first given by Weber in Gottinger Nachrichten, 1886, and one which was first given by the anthor, Phil. Trans., 1898.
E. T. Whittaker, Modern Analysis, p. 339.

automorphism, n. 2. In math., the property of remaining unchanged by all the substitu-tions of any group of linear transformations. Science, June 5, 1903, p. 904.—3. Anthropomor-phism; the conception of the lower animals by anatogy with man. H. M. Stanley, Evol. Psychot, of Feeling, p. 297.

automorphous (â-tō-môr'fus), a. Same as au-

automotive (â-tō-mē'tiv), u. [unto-+ motive.] Propelled by its own power; automobile.

automotor (â-tō-mō'tor), n. [auto- + motor.] A motor-propelled vehicle; an automobile.-Automotor crane. See *crane2.

autonephrotoxin (â - tō - nef - rō - tok'sin), [auto-+ nephrotoxin.] A nephrotoxin which has resulted in the body of an animal as the result of an aute-immunization, and which is directed against the renal epithelium of the same individual.

autonoëtic (å 'tō-nō-et'ik), a. [Gr. αὐτός, self, + 1 ωητικός, < νοητός, pereeiving; see noëtic.] Self-perceiving. Clairvoyant: as, the autonoëtic action of the mind. N. E. D.

autonomical (â-tô-nem'i-kal), a. Autonomous;

same as autonomic.

autonomically (â-tō-nom'i-kal-i), adv. In an

autonomism (â-ten'ō-mizm), n. [autonomy +

-ism.] 1. The principle of autonomy or the in-dependence of municipalities or of communities each containing but a single municipality. Fisher .- 2. The theory that the forms into which animals and plants develop are determined by an inward agency. Biol. Bull., Sept. 1904, p. 201.

autonomistic (â-ton-ô-mis'tik), a. Of or per-taining to autonomism. *Biol. Bull.*, Sept., 1904,

autonomize (â-ton'ō-mīz), v. t.; pret. and pp. autonomized, ppr. autonomizing. [autonom(ous) + -ize.] To make autonomous; render selfgoverning.

autonym, n. 4. In anthrop., the name by which a people call themselves.

auto-objective (â to - ob - jek'tiv), a. Subjectively objective; relating to an object residing in the subject. Thus an objective sensation is one aroused by the action of an external stimulus—sound, for example; a subjective sensation is a sensation produced in the absence of peripheral stimulation—sn'image of an objective sensation; an auto objective sensation is a sensation aroused by a stimulus residing in the body of the subject—an organic sensation (as pain, burners, etc.) hunger, etc.).

The second class of objective sensations may be called The second class of objective sensations may be called indirect objective or auto-objective. This class of sensations includes hunger, thirst, suffocation, pain, fatigue, etc. It will be noted that these auto-objective sensations all arise from different conditions that exist within the system, the first three named being manifestations of needs of the body for more matter, the last two, manifestations of overstimulation or overwork. Buck, Med. Handbook, VII. 742.

auto-ophthalmoscope ($\hat{a}''t\bar{\phi}$ -of-thal' $m\bar{\phi}$ -sk $\bar{\phi}$ p),

auto-ophthalmoscope (a veo-thar mo-skop), n. See auto-phthalmoscopy (a veo-thar mo-skopi), n. [auto-+ ophthalmoscopy.] Inspection of the interior of one's own eye by means of a specially devised instrument, the autophthalmoscope.

autopelagic (a*tō-pē-laj'ik), a. [Gr. aντός, self, + πελαγος, sea.] Living only at the surface * πελαγος, sea.] Living only at the surface of the water, or, in stormy weather, at slight depths. See pelagie, *bathypelagic. *spanipelagic. Haeckel (trans.), Planktonic Studies, p.

autophonia (â-tō-fō'ni-ij), n. [Gr. αὐτός, self, + φωνη, voice.] A condition in which one's own voice is heard with abnormal distinctness and volume, as if one were speaking into a barrel.

autophonic (â-tō-fou'ik), a. autophony: as, autophonic resonance.

autophotograph (â-tō-fō'tō-graf), n. obtained by the exposure, in the dark, of a sensitive surface to the radioaction of mmerals and other objects. *Nature*, Feb. 25, 1904,

autophya (â-tō'fi-ä), n. pl. [NL., ζGr. αὐτοφυής,

self-grown, ζαντός, self, + φνεσθαι, grow.] Α name given by Haeckel to the skeleton ele-ments secreted by the sponge itself, as distin- autoregulation (â/to-reg-u-la'shen), n. Selfguished from the admixture of foreign partguished from the admixture of foreign particles (as sand grains), the latter being designated xenophya.

ammation of an organ of one's own body.

autophyte (a'tō-fīt), n. [Gr. avrōc, self, + autositic (a-tō-sit'ik), a. [autosite + -ic.] That

nated xenophya. autophyte (a'tō-fīt), n. [Gr. aὐτός, self, φυτόν, plant.] In phytogeog., an autotrophie

autophytograph (â-tō-fī'tō-graf), n. + phytograph.] An impression, tracing, or outline of a plant upon a rock, due to the effect of the plant in staining the matrix or in removing its natural color.

moving its natural color.

For such plant pictures, or plant writings, in which the traces or outlines of plants are distinguishable by their color, and in which the variation of color from the matrix is due to chemical change brought about by the plant reproduced, the name autonhyterarch is were plant reproduced, the name autophytograph . . . is pro-C. H. White, in Amer. Jour.

Sci., March, 1905, pp. 231-232. autophytography (â"tōfi-teg'ra-ii), n. [auto-+ phytography.] The natural process by which antophytographs are produced. That of staining the matrix is called posi-



Positive Autophytography, showing the impression of some plant, probably Micranthemum orbiculation, on the polished surface of a pebble found on a bar of gravel on Cub Creek, Wilkesboro, N. C.

original colnegative autophytog-raphy. C.H. White.

Autoplastic graft. See *gruft².

autoplate (â' tō -plāt), n. [auto-+ plate.] e u r v e d stereotype whieh has

been automatically east, shaved, and beveled. In stereotyping, a device known as the autoplate was invented in 1900 by means of which the time required for casting plates was considerably reduced.

Census Bulletin, June 28, 1902, p. 51.

Autoplate machine, a combination machine containing a papier-maché matrix or mold for rapidly and antomatically easting, shaving, and beveling curved stereotypes: used principally in newspaper-printing.

autopoisonous (â"tō-poi'zn-us), a. Aeting as a

poison to the organism by which it is formed.

Buck, Med. Handbook, IV. 184.

autopore (â'tō-pōr), n. [Gr. aντός, self, +
πόρος, a pere.] In the tabulate Hexacoralla of the extinct family Chætetidæ, one of the larger tubes of the corallites, which are surrounded on all sides by smaller tubes or mesopores.

autoprint (â'to-print), n. Same as *autophoto-

graph.
autopsy (â'top-si), v. t.; pret. and pp. autopsied por autonsuing. [autopsy, n.] To make sied, ppr. autopsying. [autopsy, n.] To make a post-mortem examination of; perform an autopsy on. Jour. Exper. Med., V. 257.

autopsychic (â-tō-sī'kik), a. [auto- + psyekie.] Pertaining to consciousness in its relation to the self, or to self-consciousness.

Consciousness is a function of the associative mechanism and may be considered in its threefold relationship to the outer world, the body and self—allopsychic, somatopsychic, and autopsychic. Euck, Med. Handbook, V. 27.

autopsychical (à-tō-sī'ki-kal), a. Same as *antonsuchie

autopticity (â-top-tis'i-ti), n. [autoptie + -ity.] Autoptic quality, character, or nature. Jour. Sacred Lit., XIV. 169. N. E. D. autoquadricycle (â-tō-kwed'ri-sī-kl), n. [auto-

+ quadricycle.] A four-wheeled motor-cycle having accommodation for two persons tandem. One sits on a saddle and steers and controls the motor, while the other (the passenger) sits on a small sent with a back and a dash, supported by the front wheels. Horeoz, Horseless Vehicles, p. 213.

autoradiograph (â-tō-rā'di-ō-graf), n. Same as *autophotograph.

Another exhibit which naturally attracted much attention was that by Sir William Crookes, illustrative of the properties of the emanations of radium. There were autoradiographs, photographs of radium emanations, luminous effects of radium emanations.

Science, June 19, 1903, p. 976.

autoreduction (â"to-rē-duk'shon), n. In ehem., the reduction to the state of metallic silver or mereury of either of these metals when its

eyanide is simply heated with water in a sealed

regulation.

is, or is of the nature of, an antosite (which see). autoskeleton (â-tō-skel'e-ton), n. [NL., < Gr. aυτός, self, + σκελετόν, skeleton.] In sponges, the true skeleton secreted by the cells of the sponge itself. It consists of mineral sclerites or spice ules, or of an organic substance called spongin, which usually occurs either as a cementing substance or as fibers. Distinguished from *pseudoskeleton.

autosoteric (â/tō-sō-ter'ik), α. [Gr. αὐτός, self, + σωτηρικός, saving, delivering, < σωτήρ, a saver, savior.] Self-saving; based on the principle of salvation by one's own efforts or character. [Rare.]

autospore (a'tō-spōr), n. [Gr. aυτός, self, + σπορά, seed.] A daughter-cell arising from a mother-cell of certain of the unicellular algae and pessessing the exact shape and structure of the original cell.

 autospray (â'tō-sprā), n. [Gr. aὐτός, self. + E. spray.] A small tubular glass with one or two narrow neeks having capillary orifices and armed with metallic caps to retain a volatile liquid such as ethyl-chlorid. When a cap is removed and the liquid is allowed to flow to that end, a spray is ejected, owing to the pressure of the vapor within the tube.

autostage (â'tō-stāj), n. [auto-+stage.] A motor-driven vehiele capa-

ble of earrying a number of passen-

gers; a motor-driven stage. See *autobus. autostarter (â'tō-stär"ter), n. An autotransformer used for starting motors. See *autotransformer.

nia rec-tangula-ris (Nag) Gay, with formation

spores. (From West's "British Fresh-

Each induction motor is started by the manipulation of a four-pole, double-throw, oil-break switch that is combined with its anto-converter in a single oil tank—the combination being termed an "oil-break auto-starter" switch.

Elect. Rev., Sept. 17, 1904, p. 459.

autostyly (â-tos'ti-li), n. [Gr. $av\tau \delta c$, self, + $\sigma\tau i v \delta c$, pillar: see $style^2$.] The condition of having the palatoquadrate fused with the eartilaginous cranium, the second visceral arch broken up and not aeting as a suspensorium, and the hyemandibular small and united with the eranium. In this restricted sense autostyly occurs in the Dipnoi and Amphibia. Biological Bulletin, June, 1904.

autosuggestion (â"tō-su-jes'ehon), n. In psychol., self-suggestion, especially the voluntary aronsal and fixation of the idea that one will fall into the hypnotic sleep.

The confirmed hypnotic will try in every possible way to procure the enjoyment which he craves. And he has in autosuggestion a means lying always ready to his hand. W. Wundt (trans.), Human and Animal Psychol., p. 331.

autotelic (â-tō-tel'ik), a. [Gr. αὐτός, self. + τέτος, end.] In esthetics, being an end in itself; existing or proceeding for its own sake: opposed to *heterotelic. Baldwin, Diet. of Philos. and Psychol., I. 96.

autotomize (â-tot'ô-mīz), v. t.; pret. and pp. autotomized, ppr. autotomizing. [autotomy + -ize.] To praetise autotomy; to cut off an organ or part of an organ: said of certain animals, as crabs, which drop their claws or legs,

handled. Morgan, Regeneration, p. 153.

autotomous (â-tot'ō-mus), a. Relating to or of the nature of autotomy. See **autotomy. Proc. Zool. Soc. London, 1898, p. 926.

autotomy (â-tet'ô-mi), n. [Gr. airôς, self, + -τομία, < ταμεῖν, eut.] The reflex throwing off -τομία, ζ ταμεῖν, eut.] The reflex throwing off of certain parts of the body, as the rays in starfishes and the legs of some arthropods, which do not, as in fission and budding, develop into new individuals. This property may be of use to animals by enabling them to escape from their captors at the expense of only the part seized.

One of the most remarkable cases of autotomy is that in the holothurians, in which the Cuvierian organs, and even the entire viscera, may be ejected when the animal is disturbed.

Morgan, Regeneration, p. 154.

autotoxemia (â"tō-tok-sē'mi-ä), n. [auto- +

toxemia.] Same as *auto-intoxication autotoxic (â-tō-tok'sik). a. [Gr. αὐτός, self, +τοξικόν, poison: see toxic.] Self-poisoning; of or pertaining to the action of autocytotoxins.

In considering the development of the disease, we believe the excitant is a toxic or autotoxic agent.

Med. Record, May 30, 1903, p. 857.



Negative Autophytography, showing the impression of a fossil plant, Fucoides Bollensis, from the Lias of Boll, Würtemberg. (After Seward.)

as *auto-intervation.

autotoxicity (a tō-tok-sis'i-ti), n. [autotoxic + -ity.] The character of being autotoxic; + -ity.] The character of being autotoxic; toxicity directed against the individual in

whose body the toxin has been produced.

autotoxin (â-tō-tek'sin). n. [autotox(ic) +
-in².] A poisonous substauce formed in the
body of an animal and directed against its own tissues.

autotoxis (â-tō-tok'sis), n. [NL., \langle Gr. abros, self, $+\tau$ o ξ (ι κόν), poison, + (s)is, as in abstract nouns from Gr., as sepsis, etc.] Same as *autointoxication.

autotransformer (â#tō-trans-fôr'mer), n. elect., a transformer, in which a part of the primary coil is used as secondary coil, or inprimary coil is used as secondary coil, or inversely. Frequently this part of the coil may be variable and so permit a regulation of the voltage. The autotransformer has the advantage, compared with the transformer, of smaller size and higher efficiency, but the disadvantage of connecting the primary and the secondary circuit together electrically. See transformer. Also called compensator.

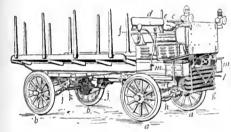
autotransfusion (â "tō-trans-fū'zhon), n. [anto- + transfusion.] A method of forcing the mass of the blood to the internal organs by the application of fight bandages to the over

by the application of tight bandages to the ex-

autotrophic (â-tō-trof'ik), a. [Gr. αὐτος, self, + -τροφος, < τρέφειν. nourish.] Self-nourishing: said of plants which derive their nourishment directly from inorganie matter, that is, of all plants except parasites and saprophytes. See the quotation under *hemiparasite and compare holophytic.

The root-difference between plants and animals is one of nutrition. Plants are autotrophic, animals beterotrophic.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 208. autotruck (û'tō-truk), n. [auto- + truck.] A motor-driven wagon for earrying freight or



Autotruck.

a, a, front or leading-wheels; δ, δ, driving-wheels; ε, steering-wheel; d, brake-lever; ε, controlling-levers on post of steering-wheel; f, alarm-horn; q, radiator to cool circulating water; δ, casing surrounding motor; f, f, drive-chains; λ, compensating or differential shaft; δ, starting-crank; m, m, battery-box, tools and

bundles, as distinguished from a passenger vehicle: a delivery-wagon propelled mechanically; the commercial motor-car. Usually they have a earrying capacity of from a halfton to 10 tens.

autotypic, a. 2. Setting one's own standard; determining by reference to one's self what shall be considered as typical.

Man the measurer—has always been and still is more autotypic than he knows, reproducing in his representation of the human form the type of his own race.

G. S. Hall, Adolescence, I. 124.

antotypy (â'tō-tī-pi), n. The art of making faesimiles by printing. autovaccination (â "tō-vak-si-nā' shon), n. [auto- + vaccination.] Same as auto-inoculation.

autovalve (â'tō-valv), n. In a prepayment meter, a valve which automatically shuts off the gas-supply. W. L. Dibdin, Public Lighting, p. 176.

autoxenous (â-tok'se-nus), a. [Gr. αὐτός, self, + ξένος, host. Same as *autocious.
autoxeny (â-tok'se-ni), n. Same as *autocism.

autoxidation (â-tok-si-dā'shon), n. + oxidation.] 1. A process in which the oxygen in a compound oxidizes another portion of the molecule of the same compound.—2. A process in which a substance undergoing oxidation in air or oxygen causes a portion of the oxygen to assume an active condition, as ozone, hydrogen peroxid, or a peroxid of the substance, which may, in turn, cause the further oxidation of the same or of some other compound. Amer. Chem. Jour., March, 1903,

autoxidizable (â-tok-si-dī'za-bl), a. In chem., capable of spontaneously undergoing oxida-

autotoxication (â*tō-tok-si-kā'shon), n. Same tion, as by mere contact with the oxygen of auxospore, n. 2. The resting-spore of the the air

autozoöid (â"tō-zō'oid). n. [Gr. αυτός, self, +zoöid.] In alcyonarians, the ordinary normal zooid as distinguished from the siphonozoöid.

Autumnal catarrh. See *catorrh. - Autumnal fev

Autumnal catarrh. See *catorrh.—Autumnal fever. See *fever!.—Autumnal point, the point of the celestial equator crossed by the sun at the autumnal equinox. autumnize (â'tum-niz), r. t.: pret. and pp. autumnized, ppr. autumnizing. [L. autumnus, autumn, + -ize.] To give an autumnal approximate to pearance to.

When first the maple begins to autumnize the grove, Jesse, Jour. Nature, p. 109. N. E. D.

Autunian (â-tū'ni-an), u. and u. Of or pertaining to Antun, in France: in geol., noting the lowest subdivision of the Permian in France: so called from Autun, where it carries a terrestrial flora. See * Artinskian.

auxanogram (âk-san'ō-gram), n. [Gr. αὐξάνειν, increase, + γράμμα, anything written.] result obtained by growing colonies of microorganisms according to *auxanography (which

auxanography (âk-sa-nog'ra-fi), n. [Gr. aυξάven, increase, -γράφεια, ζγράφεια, his method devised by Beyerinek for testing the effect of various nutrient media upon bacteria. The bacteria are plated out in a medium known to be poorly adapted for their nourishment, and there are then addled to the surface of the plate a few drops of the solution to be tested. If the requisite nutrient has been added the bacteria will develop rapidly in these spots.

auxesis, n. 3. In bot., the method of increase in size of the valves of diatoms.

auxetophone (āk-set'ō-fōn), n. [Gr. $av\bar{\varepsilon}\eta\tau\delta_{\zeta}$, that may be increased, + $\phi\omega\nu\eta$, sound.] A device for increasing the loudness of the sounds produced by a phonograph. See the extract.

The Hon. C. A. Parsons, the inventor of the steam turbine, also had a highly interesting exhibit, the auxetophone. This may be described as a kind of pneumaticating stylus for the phonograph. Instead of the recording stylus of the instrument causing the diaphragm to vibrate in the usual manner, the sound waves operate a nimute air-valve on the same principle as a relay. This sir-valve controls the admission of air into the trumpet of the talking machine under a pressure of two pounds to the square inch.

Sci. Amer. Sup., June 2, 1904, p. 23832.

Sci. Amer. Sup., June 2, 1904, p. 23832.

auxiliary. I. d.—Auxiliary note or tone, in music, any note or tone a degree above (or occasionally below) one that is essential to the harmony, and attached to the latter for some purpose of embellishment. Thus both appoggiaturas and suspensions may be called auxiliary notes.—Auxiliary sailing-vessel, one that has full sail-power, and boilers and engines of moderate horse-power. In this type of vessel sail is the main, and steam the auxiliary power.—Auxiliary scale, (b). Same as *adipose tobe*.—Auxiliary steam-vessel, one that has full steam-power and a moderate sailing rig, so that steam is the main and sail the auxiliary power.

II. u. 5. In the nomenclature of the sutural inflections in the ammonoid exphalopods, a lobe or saddle lying between the umbilical curve or line of involution and the second lateral lobe.—6. In mech., any machine except the principal one: a term applied specif-

other than sails for propulsion but depending ordinarily on the latter.

Auxis (âk'sis), n. [NL., < Gr. aὐξiς, the young of the tunny.] A genus of fishes of the family Scombridæ, known as frigate-mackerels. They range whelely in large schools over the warm seas, though occasionally coning to the New England coast. The only well-known species is A. thazurd.

auxochrome (âk'sō-krōm), a. and n. [Gr. aὐξάνεν, increase, + χρῶμα, color.] In chem., noting those groups contained in dyes which enable them to combine with the fiber of the

enable them to combine with the fiber of the cloth or with a mordant. The most important of these are the hydroxyl-, amino-, sulpho-, and earboxyl-groups. Athenæum, July 15, 1893, p. 100.

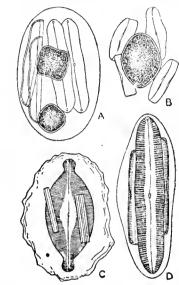
auxochromous (âk-sō-krō'mus), a. [Gr. aiξ A. V. (άνεν), increase, + χρῶμα, color.] Capable of Depe increasing or developing color.—Auxochromous group, a group of elements which if introduced into a chromogen will develop a dyestuff. According to Witt's theory the coloring power of a dyestuff depends largely upon the simultaneous presence of an auxochromous group and a chromophorous group.

auxocyte (âk'sō-sīt), n. [Irreg. ⟨ Gr. aὐξάνεν, wood increase, + κίτος, a hollow (a cell).] A cell avents which has to do with growth and reproductable.

which has to do with growth and reproduction, such as a spermatocyte. Buck, Med. Handbook, III. 72.

auxology (âk-sol'ō-ji), n. [Irreg. ⟨ aiξ (ησω), growth, + -λογία, ⟨ λέγεω, speak.] That braneh of biology which deals with the growth of organisms. Natural Science, Sept., 1898, p. 153.

diatoms. It may be formed in at least five different ways, the most common methods being the following: (1) the valves of a single diatom open, the contents emerge,



A. Navicula limosa (Kütz.), from the New Forest, Hants. (x 450) B. Achmanthes flexella (Kütz; Breb.), from Craig-an-Lochan, Scotland (x 450). C. Navicula Imphisbena (Bory), from Barnes Common, Surrey (x 450). D. N. varidas (Kütz.), from Clough, Antrin, Ireland (x 350). C. and D. illustrate the first method of auxospore formation, B the third method, and A the fifth method, (From West's "British Freshwater Algæ.")

become inclosed in a thin membrane, and increase in volume; (2) the contents of two diatoms emerge and unite to form a single spore; (3) the contents of two diatoms, after emerging, are held together by a common gelatinous envelop, each mass producing a spore without further. without fusion.

Aux Vases sandstone. See *sandstone.

A. V. An abbreviation of Authorized Version. availer (a-val'èr), n. One who is helpful or proves serviceable. Florio. [Rare.] availing (a-val'ing), p. a. Profitable, advantageous.

A truly valuable or availing thing. Ruskin, Unto this Last, p. 118. N. E. D.

Avalanche conduction, in neurol., the kind of conduction of nerve-currents which is made possible when the terminals of the neuraxon of one cell come in contact with the cell-bodies of several or many other neura.

avalanchine (av-a-låneh'in). a. Of the nature of an avalanche; overpowering: as, avalanchine weight. W. Gaspey, Doom. Crent. N. E. D. avalent (a-vā'lent), a. [a-18 + valent.] In chem., having zero valence, as argon, helium. and the other newly discovered gases of the atmosphere, which appear to be incapable of entering into chemical combination with one another or with any of the elements.

cept the principal one: a term applied specifically to the feed-pumps, fire-pumps, etc., in power plants.—7. A vessel fitted with power other than sails for propulsion but depending ordinarily on the latter.

Auxis (ak'sis), n. [NL., ⟨Gr. akξiς, the young on merchants; as generally considered, an other or with any or the elements.

avania (a-vä-ne'ä), n. [= F. arenie, Sp. Pg. acania, It. arania, NGr. aβavia, Turk. Ar. 'awāni, 'awāni, 'awānia: origin uncertain.] An impositiou or tax levied by Turkish officials on merchants; as generally considered, an other or with any or the elements. extertionate tax.

avant-courier (a-vänt'kö"ri-ér), v. t. To announce as by herald; herald. Lowell, Among my Books, 1st ser., p. 167.

avaremotemo (ä-vä*rā-mō-tā'mō), n. [Tupi

avaremotemo (ä-vä'rā-mō-tā'mō), n. [Tupi (in Piso).] A tree of the mimosa family, Pithecolobium Ararcmotemo, the bitter bark of which is used medicinally. [Brazil.] avascular (a-vas'kū-lär), a. [a-18+ vascular.] Without blood-vessels or lymphatics, or scantily supplied with them. Buck, Med. Handbook, IV. 573.

A. V. D. An abbreviation of Army Veterinary Department.

Department.

A contraction of Avenue (in an address). avellano (ä-vel-yä'nō), n. [Sp. avellano, a hazel-tree: see avellane.] The hazel-tree of South America, Guevina Avellana. The nutlike seeds are rich in oil and are edible. The hke seeds are rich in oil and are edible. The wood is used for veneering. See hazel-tree, 2. avenalin (a-ven'a-lin), n. [L. "arenalis, adj., \(\chi arena\), oats, \(+ \cdot in^2 \)] A crystallizable vegetable globulin found in the kernels of oats: similar to \(\she excelsin \).

Avenger of blood. See \(\she blood \).

avengingly (a-ven'jing-li), adv. In an avenging manner; with an avenging purpose; vengefully. \(Galt, \text{Rothelan. [Rare.] } N. E. D. \)

avenolith (a-ve'nō-lith), n. [l. arena, oats, + \(\) ithog, stone.] An intestinal concretion having the husk or other indigestible part of oats as a nucleus.

avenue, u. 5. lu archavol., a series of megalithic stones arranged in a row.

average2, n. 4. A mode of estimating, by comparison, the strength or weakness of a billiard parison, the strength of weakness of a bilinard play. The total points divided by the number of lunings give the average of a game, and the aggregated points of all the games, divided by their total innings (but not the combined single averages divided by the number of games) gives the general or grand average.

5. In *cricket*: (a) The aggregate number of runs a batsman has scored, divided by the number of his completed innings. (b) The aggregate number of runs scored from a bowler, divided by the number of batsmen he has 'dismissed

avernal (a-ver'nal), a. and n. [L. Avernalis, ⟨ Avernus: see Avernuan.] I. a. 1. Relating or pertaining to Avernus. See Avernuan. —2. Destructive of bird life: as, avernal places, Stanley, Hist. Philos. (in allusion to the ancient statement that birds attempting to fly across Lake Avernus were killed by its mephitic vapors. See etymology of Avernian).

II. n. A demon or other inhabitant of the

infernal regions.

Averruncus (av-e-rung'kus), n. [NL., < L. Averruncus, an averting deity: see averruncate.] A genus of sea-poachers of the family Agonidæ, found in deep water off the coast of California and northward.

avertedly (a-vėr'ted-li), adv. In an averted position or manner; with aversion or repug-

nance; unfavorably.

Richard was silent; not avertedly; he was simply not netwardly responsive. Mrs. Whitney, Hitherto, p. 312. outwardly responsive.

avezacite (av'e-za-sīt), n. [Avezac(-Prat), a locality in the French Pyrenees, + -ite².] In petrog., the name proposed by Lacroix in 1901 for an ultra-basic igneous rock of granular texture, consisting principally of augite, horn-blende, ilmenite, and magnetite, with some apatite, and titanite. It occurs in narrow dikes in lherzolite.

aviado (ä-vi-ä'dō), n. [Amer. Sp., pp. of aviar, provide articles for a journey, prepare, $\langle a, to, +via, \langle L. via, way: see via.]$ One who works a (silver-) mine with means furnished by an-

or art of directing and controlling flying-machines; the art of navigating the air with machines heavier than air.

This mode of navigation [in air] is considered as an aviation, or support by mechanical means only.

Proc. Internat. Confer. on Aërial Navigation, Chicago,

[1893, p. 334.

aviator (\bar{a}' vi- \bar{a} -tor), n. 1. A flying-machine employing the principle of the aëroplane. [Recent.]—2. One who directs the course of a flying-machine or who practises the art of flying or gliding through the air.

These types of gliders have been taken up in France by Captain Ferber, of the Artillery, and subsequently by Mr. Ernest Archdeacen, both of whom have become enthusiastic 'arciators,' and have in their turn brought gliding experiments into considerable popularity in that country.

G. H. Bryan, in Nature, 1905, p. 465.

avichi (a-vē'chi), n. [Skt. avichi waveless, <a-priv. + vichi, wave.] dhist hell. [Skt. avichi, hell, lit. sichi, wave.] The Bud-

avicidal (av-i-sī'dal), a. Relating or pertain-

ing to the killing or slaughter of birds.

avicide (av'i-sid), n. [NL. *avicidium, < L. avis, bird, + -cidium, < cædcre, kill.] The killing or slaughter of birds.

avicolous (a-vik'ō-lus), a. [L. avis, bird, + colere, inhabit.] Living on birds, as the bird-

ticks of the suborder Mullophaga.

Aviculopinna (a-vik"ū-lō-pin'ä), n. [NL. Avicula + Pinna, genera of Pelecypodu.] genus of Paleozoic pelecypods of the family Pinnidæ, having a very small wing in front of

aviculturist (av'i-knl"tūr-ist), n. [ariculture -ist.] One who rears or keeps birds, espe-

the sense in which it is generally used by aviculturists.

Nature, March 31, 1904, p. 507.

avidity, n. 3. In phys. chem., a constant by means of which can be expressed the distribu-

tion of a base between two acids each sufficient to neutralize the whole of the base, or conversely; that is, the relative energy with which the acids tend to seize their shares of base: a term employed to avoid the use of the word affinitu.

avidly (av'id-li), adv. Eagerly; greedily, avidya (ä-vid'yä), n. (Skt. avidyā, ⟨avidya, ignorant, ⟨a-, without, + vidya, knowledge, understanding, ⟨√vid, see: seeVeda and wit¹, r.] Ignorance; specifically, in Buddha's metaphysical system, the ignorance which mistakes the illusory phenomena of this world for realities. It is the first of the 12 nidānas, or links in the closed chain of cause and effect, in the whole range of sentient existence.

avio (ä-ve'ō), n. [Sp.] Money furnished the owners of a mine to work it, by another person, the aviador.—Avio contract, a contract between two parties for working a mine, by which one of the par-ties, the aviador, furnishes the money to the proprietors for working the mine. Coal and Metal Miners' Pocker-

aviolite (ā-vi-ō'līt), n. [Monte Aviolo.] In petrog., a term proposed by Salomon in 1898 for hornfels consisting of mica and cordierite. aviolite (ā-vi-ō'līt), n.

avo (a vo), n. [Name in Timor?] A current subsidiary coin of Macao, Timor, equivalent to .42 of a cent.

Avocettina (av-ō-set'i-nā), n. [NL., \(\avocetta, \) avosetta, avoset.] A genus of snipe-eels of the family \(Nemichthyid\(x \): found in deep seas.

avoidance, n. 6. The custom which forbids one member of a family to meet or address another member. This custom is found among many primitive tribes, and relates most frequently to a man and his mother-in-law.

It is assumed that the junior male would be allowed to remain only on condition that he respected the marital privileges of the senior; hence he would have to seek his mate from without the band; and the conditions in which he lived with the female members of his own family gave origin to the curious etiquette of "avoidances" which is still to be found amongst some savage races and the history of which has been such a puzzle to anthropologists.

Lancet*, Aug. 23, 1903, p. 532.

avoidment (a-void'ment), n. The act of avoid-

ing; avoidance. [Rare.] avoird. An abbreviation of Avoirdupois. avolitional (ā-vō-lish'on-al), a. [a-18 + volitional.] Not volitional; involuntary: as, uvo-

other (called the axiador).

aviatics (ā-vi-at'iks), n. [Compare axiation.]

The science or art of aviation. [Rare.]

aviation (ā-vi-ā'shon), n. [L., axis, a bird.]

The art or act of flying; specifically, the science

aviation (ā-vi-ā'shon), n. [L., axis, a bird.]

The art or act of flying; specifically, the science

avowableness (a-vou'a-bl-nes), n. The quality of being avowable or openly acknowledgable.

Donne, Sermons, iv. 549.

able. Donne, Sermons, iv. 549. avowedness (g-vou'ed-nes), n. The quality or fact of being avowed.

avoyership (a-voi'er ship), n. The office position of avoyer (which see). aw, n. and v. t. A simplified spelling of awe. The office or

awa (ä'wä), n. [Hawaiian awa (= Samoan ava,= Maori kawa, kawa-kàwa), the plant and the drink, < Hawaiian awa, etc., sour, bitter, sharp, pungent. See kava.] 1. A name, in Hawaii and other islands of Polynesia, of a plant of the pepper family, Piper methysticum, from which the natives prepare a beverage.— 2. The beverage prepared from awa.

awa² (ä'wä), n. [Hawaiian.] The common Hawaiian name of the milk-fish, Chanos chanos. It is found in the gulf of California and about the Hawaiian islands, where it is an important food-fish, reaching a length of from 2 to 5 feet.

Awaji ware. See *ware2.

wakable (a-wā'ka-bl), a. [awake, v., +-able.]

wasyam, a. A simplified spelling of awsome,

Awaji ware. See *ware2.

awakable (a-wā'ka-bl), a. [awake, v., +-ablc.] Liable to awake or be awakened. Blackwood's Mag., iv. 631.

awapuhi (ä-wa-pö'hē), n. [Hawaiian and Tahitian.] 1. A plant of the ginger family, Zinziber Zerumbet, which is distributed over all the volcanie islands of Polynesia and in India. See also *beta3. [Hawaii.]—2. The name in Tahiti of another plant of the same family, Amomum Cevuga.

awardable (a-wârd'a-bl), a. [award + -able.] That is or may properly be awarded.

awaredom (a-war'dum), n. [lrreg. < aware + -dom.] The state of being aware or on one's guard. Walpole, Letters, III. 60. [Rare.] N. E. D.

eially small birds, in a state of domestication. awaruite (\(\alpha\)-r\(\beta\)-r\(\beta\)'it), n. [Awarua (see def.)]

The title of this work must therefore be interpreted in the sense in which it is generally used by aviculturists.

**Adams* Moreh 21 1004 pt 507

**Adams* Mor river, and rua, a hole.] A native alloy of iron and niekel (FeNi₂) occurring in river-gravel with gold, platinum, tinstone, etc., and prob-

ably derived from a peridotite: found near

Awarua bay, New Zealand.

awash, "dl".— Heave awash (naut.), an order to the men at the capstan to heave round once more so as to bring the anchor into view at the surface of the water.

awatch (a-woeh'), adv. [u³ + watch.] On the watch; watching. Mrs. Browning, Au-rora Leigh, vii.

away, prep. phr. as adr.—To do away with, to eliminate; remove entirely; dispense with; put an end to; abolish.—To walk away from, to outrun with ease, as if in a walk.

awebound (â'bound), a. Restrained or held in cheek or submissiveness by awe, or fear mingled with reverence or respect. [Rare.] The state or qualawelessness (â'les-nes), n.

ity of being aweless; utter lack of awe. Golding, Calvin on Deut., li. [Rare.] N. E. D. aweoweo (ä-wā-ō-wā'ō), n. [Hawaiian.] A Hawaiian shrub or small tree, Chenopodium

Sandwieheum, found on all of the islands, and sometimes eaten by the natives.

sometimes eaten by the natives.

awesomely (â'sum-li), adv. In an awesome manner. [kare.]

awesomeness (â'sum-nes), n. The fact or quality of being awesome. Mrs. Whitney, Sights and Insights, Il. 609. N. E. D.

awest (a-west'), adv. [a³ + west.] In or toward the west; westward. J. Barlow, Columbiad is 670

lumbiad, i. 670.

aweto (ä-wā'tō), n. [Maori.] The so-called vegetable caterpillar, the larva of a hepialid moth, Hepialus virescens. It is attacked by a fungus, Sphæria Robertsi, which destroys it without altering its form, sending out a strong shoot from between the head and thorax. [New Zealand.]

A. W. G. In wire-manuf., an abbreviation of

American wire-gage. The American wire-gage dif-fers somewhat from the standard gage used in England, known as the Birmingham wire-gage (B. W. G.), and sometimes called Stubb's wire-gage or British wire-gage. The American wire-gage is characterized by a regular geo-metric progression in the increase of standard diameters; the British wire-gage is slightly irregular in progression.

awhir (a-hwer'), adv. $\lceil a^3 + whir$.] In a whir: whirring.

whirring.

awhirl (a-hwerl'), adv. [a³ + whirl.] In a whirl; whirling.

awikiwiki (ä-we-ke-we'ke), n. [Hawaiian, (awiki, to be quiek.] A tall elimbing bean, Canavali galeatum. [Hawaii.]

awink (a-wingk'), adv. [a³ + wink.] Winking. Edwin Arnold, Ind. Idylls, p. 59. N. E. D. awiwi (ä-we'we), n. [Hawaiian, < awine, hasten.] A species of centaury, Centaurion sabwoides (Erythræa sabwoides of Gray), a small herb with pink flowers which grows on grassy plains near the coast. [Hawaii.]

awmryt, n. An obsolete form of ambry.

awmryt, n. An obsolete form of ambry.

awning-deck (â'ning-dek), n. See *deck.
awning-decked (â'ning-dekt), a. In shipbuilding, noting a type of merchant steamer in
which the highest continuous deck and the
closed-in side just below it are of light con-

awning-stanchion (â'ning-stan shon), n. One of the series of metal or wooden posts on the side of a ship above the rail, which support the ridge-rope to which the outer edges of the awnings are attached when they are spread to cover the decks. awrack (a-rak'), adv. [a³ + wrack.] Wrecked;

ruined.

If she [the ship] split or sink, she is awracke. Capt. John Smith, Seamsn's Gram., p. 41.

axbreaker (aks'brā-ker), n. A medium-sized tree, Notelæa longifolia, of the olive family, found from New South Wales to Queensland. It yields a hard, close-grained wood. ealled mock-olive and eoobagum.

axed, a. 2. Furnished with an ax or with axes. F. W. Farrar, St. Panl, IV. [Rare.]

LXial, a.—Axial angle, a piece of the axial hounded by two of its planes as sides.—Axial canal. (b) In sponges, the cavity, in calcarceous and silicious splenles, occupied by the axial thread or core of organic matter about which axial. by the axial thread or core of organic matter about which the mineral substance is deposited.—Axial cell, in Diccentida, the single central cell of the body within which germ-cells arise.—Axial cord, in Crinoidea: (a) A thickening of the endothelium in the celoma which gives rise to the gonads. (b) A nerve running in a special groove on the floor of the main brachial groove and proceeding from the aboral or dorsal nervous system. It sends branches to the muscles of the arms and to the supposed sensory endings in the ectoderm.—Axial cross. (a) In spicules of Hexactinellida, a cross formed by the union of the six axial threads or canals. (b) The projection of the crystallographic sxes of a given axial

species, as used, for example, in the drawing of crystals.—
Axial current. The central portion of the blood-stream
in the smaller vessels, in which the red corpuscles are
chiefly found, the white corpuscles moving sluggishly
along in contact with the walls of the vessels in the socalled still layer.—Axial duplicity.—See *duplicity.—
Axial eject. See *eject.—Axial fiber, the delicate contractile thread contained in the stalk of certain sessile
Cilicata among the Influsoria (for example. Vorticella),
Contraction of it causes the stalk to shorten and coil up
linto a close spiral.—Axial organ, a structure of enigmatic function found in the axial sinus of Echinodermata,
exclusive of the Holothuroidea, It is finely lobed,
usually brownish, and pear-shaped, and consists of a compolicated arrangement of tissue strands. It has been variously regarded as a heart, blood-plexus, chromatogen
organ, lymph-gland, kidney, etc. Also called dorsal
organ-Axial pitch. See *prich!—Axial projection.
See *projection.—Axial ratio, the relative lengths of
accepted fundamental crystallographic axes of a given
species, expressed in terms of one of the axes taken as
unity: also, the relative lengths of the axes pertaining
to a given form.—Axial sinus, the vascular sinus which
surrounds the ovoid gland of an echinoderm.—Axial
symmetry, in geom., symmetry with respect to an axis.
—Axial thread, a thread of organic substance which
occupies the axis of each sponge-speciel and of its primary branches.—Harmonic axial pencil.

II. n. In math., an axial pencil.

II. n. In math., an axial pencil.

axiality (ak-si-al'i-ti), n. Axial quality or character: as, the axiality of a building.

Axifera (ak-sif'e-rā), n. pl. [NL., < L. axis, axis, + ferre, bear.] An order of aleyonarian Anthozoa, consisting of Synaleyonacea that form colonies made up of a ecenenehymatous rind investing a horny or calcified axis. Same as Gorgonacea.

axilemma (ak-si-lem'ä), n. Same as *axolemma.

axillary. I. a.—axillary line, a line descending vertically from the anterior fold of the axilla (anterior axillary line), the center of the axilla (undaxillary line), or the posterior fold of the axilla (posterior axillary line).

2. In the Crinoidea, the pentagonal II. n. plate which supports the branched arms. The axillaries may be of different orders, according to the degree of branching in the arms. The first axillary in each ray is often a fixed part of the calyx, but may be free, and this is called by some writers the palmar. Also termed axillary radial.

Axin (ak'sin), n. A substance secreted by a Mexican coefid (Llaveia axinus). It is chiefly fatty and contains axinic acid. It is used in medicine as an external application, and also as a varnish, drying and hardening on exposure to the air.

Axinella (ak-si-nel'ā), n. [NL., ⟨ Gr. ἀξίνη, ax, + dim. -ella.] The typical genus of the family Axinellidæ. Schmidt, 1862.

axinellid (ak-si-nel'id), a. Pertaining to or resembling the Axinellidæ; specifically, resembling the Axinellidæ; axinellidæ; specifically, resembling the Axinellidæ; axinellidæ; specifically, resembling the Axinellidæ; axinelli bling the Axinellidæ in arrangement of the spieules of the skeleton-fibers; that is, having each component spicule inclined at an angle, usually acute, to the axis of the fiber, thus giving the latter a feathery or plumose appearance.

Axinellidæ (ak-si-nel'i-dē), n. pl. [NL, < Axinella + -idæ.] A family of halichondrine sponges having the skeleton typically non-reticulate, with the skeleton-fibers plumose, megaseleres chiefly styli, and microseleres, if present, never chelate. It contains Axinella, Auletta, Halicnemia, and other genera.

axinic (ak-sin'ik), a. [axin + -ic.] Derived

from axin. - Axinic acid, an elly acid, C18H28O27,

axiniform (ak-sin'i-fôrm), a. [Gr. å\(\xi\)\(\text{cis}\)\(\text{ra}\)\(\text{cis}\)\(\text{ra}\)\(\text{cis}\)\(\text{ra}\)\(\text{cis}\)\(\text{ra

axiom, n.—Middle axiom [L. axioma medium], one of those generalizations of ordinary experience which nobody doubts, and which are soon replaced by scientific formulations, which latter are also, but less properly, termed middle axioms.—Playfair's axiom, the axiom. "two straight lines which intersect one another cannot be both parallel to the same straight line." It is given in Playfair's Euclid (1813), where Playfair says: "This Axiom has been assumed by others, particularly by Ludlam, in his very useful little tract, entitled Rudiments of Mathematics."

axioscotic (ak si-ō-skot'ik), α. [Gr. άξιος, correet, + σκότος, darkness, shadow.] Correct in showing the relation of colors; orthochro-

matic; isochromatic.

axis¹, n. 11. In arch., one of several lines, either imagined or laid down in the plans, etc., which pass through the middle of an important feature. Thus the axis of an entrance-hall will probably be carried through the middle of the outer doorway, the veatibule and inner doorway, and the hall proper. In symmetrical planning and designing the parts on one side of the axis are exactly like those on the other side. Any feature, as a door or a window, may or may not be on the sxis. Compare *\times n'axe.\times Apical axis, a line passing through the center of the main longitudinal axis of a diatom in the direction of the raphe and st the same distance from homologous points of the girdle.\times Axis of a storm, the nearly vertical line about which, which pass through the middle of an impor-

as the older cyclonologists assumed, the storm-winds circulate; the severest part of a storm; the region of heaviest wind.—Axis of collimation, the line with reference to which a meridian telescope or other optical instrument having motion in one plane only is adjusted; the line of collimation. See collimation.—Axis of curvature. See *curvature.—Axis of elevation, a line along which an uplift of the earth's crust has occurred.—Axis of glacial movement, the line along which the fastest movement of a glacier takes place.—Axis of similitude. If ABC, A'B'C' be homothetic triangles, and OX astraight line through their center of similitude, and A'B''C'' a triangle symmetry to A'B'C' with regard to OX as an axis of symmetry, then OX is the axis of similitude of the triangles ABC, A'B'C''.—Axis of suspension, the line passing through the center of mass (of a body suspended from a single point) and the point of suspension.—Axis of symmetry (dyad or binary axis, triad or ternary axis, etc.). See *symmetry.—Axis of the horizon. See *horizon.—Declination axis, the axis of an equatorial telescope which is perpendicular to the polar axis; so called because when the telescope is moved by turning the declination axis, the declination of the polar triewed is altered, but not its hour-angle or right assension.—Hemal axis. Same as aorta.—Optic axis. (b) In crystal, that direction in a crystal for which there is only one wave and one wave-velocity. Crystals having only one optic axis are said to be univazial, those with two such axes biaxial.—Pervalvar axis, the main longitudinal axis of a diatom.—Ray axis, in geometrical optics, a straight line joining the center of the Fresnel wave-surface in a crystal to one of the points of intersection of the inner and onter sheets of the wave-surface; any direction, in a doubly refracting crystal, in which the ray-velocities of the two waves become the same.—Secondary axis, in optics: (a) of a mirror, any radius which does not pass through the center of the minror; (b) of a lens, any straigh as the older cyclonologists assumed, the atorm-winds circulate; the severest part of a storm; the region of heaviest wind.—Axis of collimation, the line

axis-band (ak'sis-band), n. Same as axisculinder.

axis-plane (ak'sis-plan), n. In geol., a plane which symmetrically bisects a fold and passes through its axis.

axis-traction (ak'sis-trak"shon), n. Traction through an axis; specifically, in obstet., traction made with the forceps along a curved line corresponding to the axis of the pelvis.

line corresponding to the axis of the pelvis.

Axie safety-strap, in a car-truck, a curved strap hanging under the axie to support it in case of breakage. It takes the place of the axie-sleeve no longer used. See car-truck.—Coached axie, an axie-body which is square at the end. At the collar, next to the square, there is a short cetagonal section, the rest of the body being round. The term is used of the body only.—Concord axie, an axie with a slightly tapered spindle: named from Concord, New Hampshire, where it originated.—Cranked axie. Same as cranked *shaft.—Fantail axie, an axie-body drawn down thin and wide at the end where the center is welded: a term applied to the body only, without regard to the form of the spindle.—Long-distance axie, an axie with the spindle or box grooved so as to draw oil from an oil-chamber and distribute it when the wheel is in motion; also, an axie with a packing of felt which absorbs the oil and distributes it over the hearing surfacea.—Mall patent axie, a coach-axie with a which absorbs the oil and distributes it ever the hearing surfaces.—Mail patent axle, a coach-axle with a straight spindle and without an axle-nut. Its peculiarity consists in two large plates, one of which bears against the rear of the collar and the other against the front end of the hub, the two plates being connected by long bolts which pass lengthwise through the hub and are tightened by nuts.—Roller-bearing axle, an axle provided with long steel rollers, placed parallel to or at an angle with the arm, which bear upon the spindle and reduce frection. reduce friction.

axle-grease (ak'sl-gres), n. A lubricant of fatty character, used to diminish the friction of an axle, as of a vehicle, in its bearing.

of an axfe, as of a vehicle, in its bearing. It is generally a mixture of semisolid oils with soap and resin.

axle-guide (ak'sl-gid), n. On a locomotive, a Aymarist (i'ma-rist), n. [Bolivian Sp. Aymarist (i'ma-ri move a certain distance vertically. Some-

axle-lathe (ak'sl-lāth), n. A special lathe for rapidly and exactly turning ear-axles to dimension and gage. It is made very strong and stiff, and has several cutting tools.

axle-light (ak'sl-lit), n. See the following phrase.—Axie-light system, a system of electric trainlighting by means of a dynamo driven by the car-axle.

axle-setter (ak'sl-set"er), n. A maehine which

way.] In mech., the path of the instantaneous axis of a body moving in a plane.

axodendrite (ak-sō-den drit), n. [Irreg. \langle Gr. $\dot{a}\xi\omega v$, axis, + $\dot{a}\dot{\epsilon}v\dot{a}\rho\sigma v$, tree. + - ite^2 .] In anat., a fibril arising from the axon before it receives

axogamy (ak-sog'a-mi), n. [L. axis (Gr. åξων), γάμος, marriage.] In bot., bearing sexual organs on the axis or stem.

axoid, a. II. u. In math., a curve traced by a

point rotating about a moving center.

axoidean (ak-soi'de-an), a. Same as axoid. axolemma (ak-sol de-an), π. same as axola.
axolemma (ak-sol-lem'ä), n.; pl. axolemmata
(-a-tä). [NL., for *axonolemma, ζ Gr. άξων
(L. axis), axis, + Gr. λέμμα, a husk, skin.] In
neurol., a membrane investing the neuraxon or axis-eylinder of a nerve-fiber.

axon, n. 2. The efferent or axis-cylinder proeess of a nerve-cell. Also spelled axone.

A single filament or axon, starting from the perikaryon by a cone of origin containing ne chromatic elements.

Encyc. Brit., XXV. 394,

Axon hillock, the slight protuberance formed by the junction of the axon with the body of a nerve-cell.— Naked axon, an axon which is not inclosed in a medulary sheath.

axone (ak'zōn), n. Same as axon. axoneme (ak'sō-nēm), n. [For *axononeme, $\langle \text{Gr. } \dot{a}\xi\omega r, \text{axis}, + v\bar{\eta}\mu a, \text{thread.} \rangle$ One of the threads or strands in the central portion of the contractile stalk of Vorticellidæ.

Axonolipa (ak-sō-nol'i-pā), n. pl. [NL., ⟨Gr. āςων, axis, + λιπο-, ⟨λείπειν, be wanting.] An order of the graptolites in which a virgula or solid axis is absent. They comprise the earliest Graptoloidea, and appear in the Upper Cambrian, but do not extend beyond the Lower Silurian. Dichograptus, Tetragraptus, and Didymograptus are the most important genera of the order.

axonolipous (ak-sō-nol'i-pus), a. [Gr. ἀξων, axis, + λιπο-, < λείπειν, λιπειν, `oe wanting.] Pertaining to or having the characters of the

Axonolina

Axonophora (ak-sō-nof'ō-rā), n. pl. [NL., ζ Gr. aξων, axle, + -φορος, ζ φέρειν, bear.] An order of the Graptoloidea, or graptolites, in which the rhabdosome is strengthened by a virgula or solid axis embedded in the dorsal periderm. The Axonophora appear in the later Lower Sliurian after the Axonolipa. Their most typical genus is Diplograptus, and Monograptus is the predominating genus in the Upper Silurian.

genus in the Upper Silarian. **axonophorous** (ak-sō-nof ō-rus), a. [Gr. ἀξων, axis, + -φορος, ζ φέρειν, bear.] Pertaining to or having the characters of the Axonophora. **axonost** (ak'sō-nost), n. [Gr. ἀξων, axis, +

οστέον, bone.] In ichth., one of the interspinal bones: one of the rays of bones which support the dorsal and anal fins, their distal ends ing typically inserted between the neural and the hemal spines. Copc.

axophyte (ak'sō-fit), n. [Irreg. $\langle \text{Gr. } \dot{a} \xi \omega v, \text{axis, } + \phi v \tau \delta v, \text{plant.} \rangle$ A plant with stem and root, that is, with an axis; a cormophyte.

axopodium (ak-sō-pō'di-um), n.; pl. axopodia (-ā). [NL., for *axonopodium, ζ Gr. ἀξων, axis, + ποίς (ποδ-), foot.] A motionless pseudopodium with an axial filament, seen in certain axle-cap (ak'sl-kap), n. A metallic cap which Mastigophora, as Dimorpha, and in Radiolaria, covers the axle-nut and the end of the axle-axospongium (ak-sō-spon'ji-um), n.; pl. axospongia (-ä). [Ġr. ἄξων, axis, + σπόγγία, sponge.] The network of extremely delicate fibrillæ found in the protoplasm of the axis-eylinder or neuraxon of nerve-cells.

Aymara language.

times the guide is formed on the frame and at **Aymestrey limestone**. See *limestone. others it is a separate piece. Also called **ayrampu** (i'räm-pö), n. [Quichua of Peru pedestal. (Tschudi) and Aymará of Bolivia.] A vege-talled (ak'sl-lāth), n. A special lathe for table dye of red color much used in Bolivia) like cochineal. It comes from the seed of the fruit of a small eactus.

fruit of a small each.

Ayrshire (ar'sher), n. The name of a county in Scotland, used to distinguish a breed of medium-sized eattle, with short incurved horns, originating in that county and largely that for dairy purposes. The general color is bred for dairy purposes. The general color is reddish brown, more or less mixed with white. ayudante (ä-yö-dän'te), n. [Sp.: see adjutant.] An assistant; a hired man on a ranch or hacienda in some Spanish-American countries.

azadon (ä-thä-dōn'), n. [Sp., <azada, OSp. axada (= Pg. enxada, a mattoek), <axa, < L. ascia, a mattoek.] A kind of mattoek or heavy

Mexico, and other Spanish-speaking countries, the safflower. -2. In Mexico, Corythca filipes of the spurge family and Escobedia lavis of the figwort family; in Peru, E. scabrifolia. The roots of these plants yield a yellow dye. In Guam and the Philippines this name is also applied to the turmeric plant (Curcuma longa).

plied to the turmeric plant (Curcuma longa).

azalea, n.— Clammy azalea, the swamp honeysuckle,
Azulea viscosa: so called from the viscid tube of the corolla.—Flame azalea, Azalea lu ca, an Alleghamy species
presenting in the spring immense masses of flame-colored
bloom.—Hoary azalea or mountain azalea, Azalea
canescens, a shrub of the rocky woods and mountains of
eastern North America, with gray pubescent leaves and
flowers less showy than in other species.—Smooth azalea or tree-azalea. (a) See tree-azalea. (b) Azalea
arboroscens, a species growing in the Alleghanies, forning
a small tree and bearing innumerable white and pink
spicy-scented flowers.

azalin (az'a-lin), n. [az(nre) + -al + -in²]

azalin (az'a-lin), n. [$az(ure) + -al + -in^2$.] A mixture of quinoline blue and quinoline red: used in the manufacture of orthochromatic

azelaic (az-e-lā'ik), a. [azo- + Gr. ελαιον, oil (see oil), + -ic.] Noting an acid, CO₂H-(CH₂)₇CO₂H, formed by the oxidation of castor-oil, cocoanut oil, or Chinese wax. It crystallizes in loaflets which melt at 106° C. Also called lepargylic acid and anchoic acid.

azimene (az'ı-men), n. [Origin unknown; perhaps Ar.] In astrol., weak or tame degrees which, when ascending at birth, were supposed

to afflict the native with infirmity. Azimghar pottery. See *pottery. azimido. Same as *azimiao.

azimido-. Same as *azimino-. azimino-. [ax(o)- + imine (from amine).] The initial part of some chemical names, designating a compound containing the group $N_3\hat{H}$, as aziminobenzene, $C_6H_4N_3H$, which is formed by the action of nitrous acid on orthodiaminobenzene.

Azimuth circle. See *circle.—Azimuth error, the amount by which the axis of a meridian instrument deviates from its correct east-and-west position: a matter of adjustment: sometimes used to designate the correction (to an observation) required by this deviation.—Azimuth of the plane of polarization, in optics, the angle made by the plane of polarization of a reflected ray of light with the plane of incidence.

azin, azine (az'in), n. $[az(ote) + in^2]$ of a group of organic compounds derived from various hydrocarbons of the benzene series by the replacement of two CH-groups with two nitrogen atoms. The simplest azin is derived from benzene and has the formula C₄H₁N₂. The azins are of considerable importance in the color industry. Also called diazin.—Azin *blue, *color, *green, *scarlet. See the nouns.

azo. Same as azo-, used adjectively without the hyphen.—Azo *acid-black, *acid-blue, *acid-brown, *acid-magenta, *black-blue, color, navy *blue, etc. See the nouns.

azo-alizarin (az[#]ō-al-i-zā'rin), n. A mordant color of the diazo-salicylic-sulphonic-acid type. It dyes chromium-mordanted wool a

vinous-red color. Also called *Bordeaux W*. azo-black (az-ō-blak'), n. An acid color of the diazo-sulphonic-acid type. It is closely

allied to naphthol black.

azo-blue (az-ō-blö'), n. A direct cotton coaltar color of the diazo-sulphonic-acid type. It is prepared by combining diazotized toluidine with a-naphis prepared by combining diazotized to find the with anaphthol-monosulphonic acid, and dyes unmordanted cotton
a grayish violet in a soap bath.—Diamine azo-blue, a
direct cotton coal-tar color which dyes unmordanted cotton a dark reddish blue in a salt bath. By subsequent
diazotizing and development the blues produced are rendered both clearer and faster.
azo-brown (az-ō-broun'), n. Same as naphthylamine *brown.

azo-chromine (az-ō-krō'min), n. A mordant color of the monoazo type. It is prepared by com-bining diazotized para-amidophenol with pyrogallol, and produces dark brown when dyed with a chromium mor-dant.

azo-coccine (az-ō-kok'sin), n. 1. A diazocompound (azo-coccine 7B) prepared by combining diazotized amidoazo-benzene with a-naphthol-monosulphonic acid. Same as cloth-*red~G~(b).—2. A monoazo-compound (azo-eoccine 2R) prepared by combining diazo-tized xyloidine with a-naphthol-monosulphonic acid. Also called double searlet R. azo-cochineal (az-ō-koch'i-nēl), n.

color of the monoazo-sulphonic-acid type, prepared by combining diazotized orthoanisidine with a-naphthol-monosulphonic acid: so called because it dyes wool in an acid bath a color resembling that produced by cochineal.

azo-coralline (az-ō-kor'a-lin), n. An acid azo-nigrin (az-ō-ni'grin), n. An acid color of color of the monoazo-sulphonic-acid type, which dyes wool red in an acid bath.

azo-nigrin (az-ō-ni'grin), n. An acid color of the monoazo-sulphonic-acid type which dyes wool a brownish black in an acid solution. which dyes wool red in an acid bath.

azafran (ä-thä-frän'), n. [Sp., saffron: see azo-corinth (az-ō-kor'inth), n. A direct cotton azonium (a-zō'ni-um), n. A compound consaffron.] 1. In Porto Rico, the Philippines, coal-tar color of the triazo-sulphonic-acid type, taining a quiuquevalent nitrogen atom towhich dyes unmordanted cotton brownish violet in a soap bath.

Azo-diphenyl blue. See *bluc.

An acid color of azo-eosin (az-ō-ē'ō-sin), n. the monoazo-sulphonic-acid type. It is prepared by combining diazotized orthoanisidine with anaphthol-monosulphonic acid, and dyes wool an cosincolor in an acid bath.

azoflavin, azoflavine (az-ō-flā'vin), n. [azo + flavin.] An acid color of the monoazo type: so called because it resembles flavin in its eoloring properties.

azo-fuchsin (az - o - fök 'sin), n. 1. An acid color (azo-fuchsin B) of the monoazo-sulphonicacid type. It is prepared by combining diazotized toluidine with dihydroxy naphthalene-sulphonic acid, and dyes wool magenta-red in an acid bath.

idiné with dihydroxy-naphthalene-sulphonie acid, and se wool magenta-red in an acid bath.

An acid coal-tar color of the monoazo-sulonic-acid type. It is prepared by combining diaized sulphanilic acid with dihydroxy-naphthalenephonie acid, and dyes wool magenta-red in an acid
phonie acid, and dyes wool magenta-red in an acid
h.

-callein (az - ō - ga) (ō - in), n. A mordant phonic-acid type. It is prepared by combining dia-zotized sulphanilic acid with dihydroxy-naphthalene-sulphonic acid, and dyes wool magenta-red in an acid

azo-gallein (az - ō - gal ' ē - in), n. A mordant color of the monoazo-pyrogallol type. It is prepared by combining diazotized dimethyl-paraphenylene-diamine with pyrogallol, and gives a purple color with a chromium mordant.

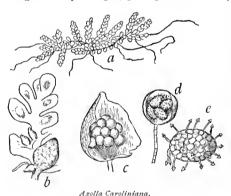
azo-green (az- $\bar{0}$ -gre \bar{n}'), n. A mordant color of the monoazo-triphenyl-methane-carbinol type: but little used.

azo-grenadin (az-ō-gren'a-din), n. The name applied to two different acid colors, of unpublished composition, which dyo wool red in an acid bath.

azogue, n. 2. A poor silver ore. azo-imide (az-ō-i'mid), n. [azo-+imide.] In chem., same as *hydrazoie acid.

azole (az'ōl), n. [az(o)- + -ole.] A general name given to a class of carbon-compounds containing a five-membered heteroatomic ring in which at least one atom is nitrogen, as *pyruzole, *oxazole, *thiazole (which see).

Azolla (a-zol'ā), n. [NL. (Lamarek, 1783), ζ Gr. ἀζειν, to dry, + ὁλλίναι, kill (the plants being killed by drought).] A genus of small,



a, plant, natural size; b, branch with sporocarps; c, a large sporocarp burst open showing the microsporangia; d, microsporangia with four microspores; c, a single microspore. b, c, d, and c highly magnified. (From Britton and Brown's "Illus, Flora of Northern States and Canada.")

communal, moss-like, floating plants of the family Salviniaceæ, having pinnately branched azulmic (az-ul'mik), a. Noting an amorphous stems closely covered by minute, imbricate brown acid, $C_4H_5N_5O$, formed by passing cyleaves and with descending, filiform, villous rootlets. There are 4 or 5 species of wide distribution, of which A. Caroliniana and A. filiculoides occur in the United States.

azo-mauve (az-ō-mōv'), n. 1. A direct cotton coal-tar color (azo-mauve B) of the diazo-sulphonic-acid type, derived from toluidine. It dyes unmordanted cotton a blackish-blue violet in a soap bath.—2. A direct cotton coaltar color (azo-mauve R) similar to azo-mauve B, but derived from benzidine instead of tolui-

azonal (a-zō'nal), a. [Gr. åζωνος, zoneless, \langle à-priv. + ζωνη, a zone, +-all.] In phytogeog., not in or according to zones; without zones. See *zonal.

azonation (a-zō-nā'shon), n. [Gr. ἀζωνος, zoneless, +-ation.] In phytogeog., an arrangement other than in zones.

An entire absence of zones, i. e., azonation, is exceptional in vegetation.

F. E. Clements, Bot. Surv. Neb., VII. 155.

gether with a second nitrogen atom in the same molecule: used chiefly as a final combining form: as, ethyl phenazonium iodide.

azo-orange (az-ō-or'anj), n. A direct cotton color of the tetrakisazo type, derived from toluidine, which dyes unmordanted cotton orange in a salt bath.

azo-orchil (az-ō-ôr'kil), n. An acid color of unpublished composition which dyes wool brownish red in an acid bath.

azo-orseillin (az/o-or-sa/lin), n. A direct cotton coal-tar color of the diazo type, derived from benzidine, which dyes unmordanted cotton brownish red in a soap bath. azophenylene (az-ō-fē'ni-lēn), n. [azo-+

monoazo type derived from resorcin. It acts as a basic color, and at the same time will dye cotton di-rectly in an acid bath. It is employed in the dyeing of

azote (ä-thō'te), n. [Sp., < Ar. al-sūt: al, the, + sūt, whip.] A whip or switch. [Span-igh Armerica]

ish America.]

azotea (ä-thō-tā'ä), n. [Sp., < Ar. al-saṭh: al, the, + saṭh, a flat roof.] A flat roof or a plat-formon the top of a house. [Spanish America.]

azotemia (az-ō-tē'mi-ä), n. [NL. azotæmia, ζ Gr. á- priv. + *ζωτός, ζ ζώειν, live (see azote), + Gr. aiμa, blood.] A disease of solipeds characterized by sudden paralysis of the hind quarters and the passage of blood-colored urine. Commonly called paralysis.

urine. Commonly called paraly
azotometer, n.—Bunte's azotometer, an apparatus for the estimation of nitrogen. It consists of awater-jacketed, graduated eudiometer, provided at its upper end with a funnel and a three-way stop-cock. It is also serviceable in general gas analysis.—
Horn's azotometer, an apparatus for measuring the nitrogen liberated from gunpowder.—Johnson's azotometer, an apparatus for collecting and measuring nitrogen gas liberated in analysis, particularly in that of organic compounds. It consists of a water-jacketed, graduated eudiometer with a tubulus at its lower end for the admission of gas, and a side-tubulus connected with a reservoir containing mercury, which serves for adjusting the internal pressure.—Lunge's azotometer, a form of azotometer which pernits of the manipulation of larger gaseous volumes than usual.—Winkler's azotometer, an instrument which serves not only for the deter-

gaseous volumes than usual.—Wink-ler's azotometer, an instrument which serves not only for the determination of nitrogen, but which is also of general applicability in gas analysis.

tometer, a, graduated endinemetr; g, tubulus foradmission of gas, d, opening in tubulus; h, stop-cock; l, water-jacket.

azoxy-, azoxy (az'ok-si). [az(ote) + oxy(gen).]A prefix, or separate adjective, denoting that the compound to the name of which it is prefixed contains the azoxy group. See the following phrase.—Azoxy group, a bivalent group of elements or radicals consisting of an azo-group into which an oxygen

atom has been introduced. Its formula is - N-N-Azulin yellow. See *ycllow.

auogen into ammonia.

azure, n. Spring azure, a small blue American lycanid butterfly, Cyaniris kedon, of wide distribution and remarkable for its complicated polymorphism. Its larva feeds on dogwood, spirea, sumac, and other shrubs and

azureous (a-zū'rē-us), a. Azure; of a clear

blue color. [Rare.] azurine, n. 4. A crystalline base, $C_{35}H_{32}N_4O_3$, formed by heating a mixture of orthotoluene diamine and salieylic aldehyde. It melts at 251° C.—Brilliant azurine, a direct cotton coal-tar color of the diazo type, derived from dianisidine, which dyes unmordanted cotton in a salt bath.

azygobranch (az'i-gō-brangk), n.

branchia.] A member of the Azygobranchia.

Azygobranchiata (az"i-gō-brang-ki-ā'tā), n.

pl. [NL., ζ Gr. ā-priv. + ζυγόν, yoke, + βράγχια, gills.] A group of rhipidoglossate gasteropods of the order Prosobranchiata, in which only one etenidium, the left, is present: contrasted with Zygobranchiata. It includes the families Trochidæ, Turbinidæ, Helicinidæ, Neritidæ, Proserpinidæ, and several others.

azygosperm (az'i-gō-sperm), n. [a-18 + zygo-sperm.] Same as azygospore.





3. (a) The B next above middle C has (at French pitch) about 488 vibrations per second. (2) The final of the rarely used Locrian

Baalitic (bā-al-it'ik), a. Same as *Baalitical.
Baalitical (bā-al-it'ikal), a. Of or pertaining to Baal or the Baalites.

babbitted (bab'i-ted), p. a. Lined or faced with Babbitt metal.

Mr. Van Alstine attributes the low mileage shown by English truck axies to the fact that these are bubbitted brasses.

Jour. Franklin Inst., July, 1903, p. 53.

babbitt-lined (bab'it-lind), p. a. Having a lining of Babbitt or antifriction metal. Whit-

ham, Const. Steam Eng., p. 78.

Babcock test. See *test1.

Babeldom (bā'bel-dum), n. The confusion and noise of Babel; a state of confusion and noise resembling that of Babel. Contemporary Rev.,

Nov., 1882. Babelize (bā'bel-īz), v. t.; pret. and pp. Babelized, ppr. Babelizing. To throwinto confusion; render unintelligible; confound.

Babi (bā'bē), n. [Pers. bābī, < bāb, a gate.]
Babism (which see).

babiche (bä-besh'), n. [Canadian F. babiche, said to be from a Miemae *ababich, string, cord; cf. Miemac abc, a cord.] A rawhide thong.

The trader brought along with him the gun and the curved knife, with which men built better canoes and women cut the finest leather, called babichs. Result: better boats for water travel, better snow-shoes for snow travel and also better men and women.

O. T. Mason, Pop. Sci. Mo., Feb., 1902, p. 340.

Babinet's compensator. See *compensator. Babinski phenomenon or reflex. See *phenomenon.

See *babuism. babooism, n.

baboračka (bä-bo-räch'kä), n. [Cf. *baborák.] A Bohemian dance, or the music for it, which is in triple rhythm, akin to the Tyrolienne (which see).

baborák (bä-hō-räk'), n. [Bohem., & Babor,

Babo's gas-generator. See *gas-generator. babracot (bä-brä-kō'), n. A French variant of *barbacot.

babuism (bă'bö-izm), n. [Also babooism.] The language, eulture, or manners of the English-speaking native elerks of India. Their English is characterized by fluency, with a misplaced eloquence and pathos which produces a ludi-erous effect. See habu. Babul gum. See *gum².

baby, n.—Blue baby, an infant suffering from congenital cyanosis or blue disease.

baby-blue-eyes (bā-bi-blū'iz), n. The Californian bluebell, Nemophila insignis. See Nemophila. The name baby-eyes is applied to the variety intermedia, which has less azure flowers, and either name is applied to the family Hydrophyllaceæ.

baby-eyes (bā'bi-īz), n. Babylonian. I. a.—Babylonian or Babylonish captivity. (a) The deportation of a large number of Jews to Babylonia, and their captivity there, after the capture of Jerusalem by Nebuchaduczzar in 597 B.C., and on two later occasions (586 and 582 B.C.), the total number deported being estimated at about one eighth of the whole population. About 539 B.C. a portion of the exilea then living returned to Judea under conduct of Ezra. (b) Figuratively, the term of years (1309-76) during which the papal court was at Avignon.

II. n. 4. A variety of ball game played with a large ball called a medicine-ball.

mode. (y) In logic, the **Babylonism** (bab'i-lon-izm), n. 1. A word or

mode. (g) In logic, the initial of the name of a logical mood signifying that the mood is to be reduced to Barbara. (h) In elect.: (1) the symbol for magnetic induction, or the number of lines of magnetic force per square centimeter or square inch. (2) [l. c.] The symbol for susceptance in alternating current eircuits.—4. (c) An abbreviation for best.

Baalitic (bā-al-it'ik), a. Same as *Baalitical. Baalitical (bā'al-it'ikal), a. Of or pertaining to Baal or the Baalites.

Babylonism (bab'i-lon-izm), n. 1. A word or phrase peculiar to the Babylonians.—2†.

Popery; the papal power. Bp. Hall.

baby's-breath (bā'biz-breth), n. The common name of Gypsophila paniculata, a diffuse and rather tall-growing herb. The leaves are linear-lancedate, the largest being about three inches long, becoming smaller toward the inflorescence, and sharp-pointed. The flowers are white and very numerous, with pedicels \(\frac{3}{2}\) times as long as the calyx. It is a very graceful European plant of the family Silena-cez, and on account of its wiry, stiff stem is excellent for cutting. Related species of Gypsophila are grown in babbitted (bab'i-ted), p. a. Lined or faced with Babbitt metal.

bacalao (bä-kä-lä'ō), n. [Also baccalao, bacallao, baccalio, bacalow, etc., Sp. bacalao, bacalao, baccalio, bacalow, etc., Sp. bacalao, bacalao, Pg. bacallao, LG. bakkeljau, bakeljauw, also inverted LG. kabeljau, D. kabeljaauw, G. kabeljau, F. cabéliau, cabliau, câbliau, cabillaud, a word originating in the Newfoundland fisheries, in which Dutch, French, and Basque fishermen were engaged, < Basque baccallaóa, a codfish.] 1†. A codfish. 2. A Cuban namé of the green grouper, especially the scamp, Mycteroperea falcata.

bacao (bä-kou'), n. [Pampanga.] Same as

bacanan.

bacauan (bā-kou'ān), n. [Also bakanan; < Philippine Sp. bacauan, < Tagalog *bacauan = Pampanga bacao.] A name in the Philippine Islands of mangreves and their allies, especially Rhizophora mucronata, Bruguiera gymnorhiza, and Bruguiera eriopetala. grove and *mangrove. Also ealled bacao,

bacca (bak'ā), n. [L., a berry.] A berry, especially a succulent berry, like the goose berry, in which seeds are distributed throughout a pulpy mass .- Bacca corticata, a berry with a rind;

also an ovary.

baccarine (bak'a-rin), n. [For *baccharine, <
Raccharis + -ine².] Same as baccarinine.

baccetum (bak a-rin), n. [For *baccharine, Baccharis + -ine².] Same as baccarinine. baccetum (bak-se'tum), n. [< 1. bacca, a berry, + -etum (see *-etum).] Same as syn-carp (a). Dumortier.

bacchanalism (bak'a-nal-izm), n. Baechanalianism.

bacchanalize (bak'a-nal-īz), r.; pret. and pp. bacehanalized, ppr. bacchanalizing. I. trans.
To convert into a drunken orgy.
II. intrans. To indulge in drunken revelry

or orgies.

Bautor, Bavarian.] A Bohemian dance, or the strains, of which the second ends in the key of the dominant. In each strain two measures are in triple rhythm and two in duple rhythm.

Solution, Bavarian, A Bohemian dance, or the strains, of which the second ends in the key of the dominant. In each strain two measures are in triple rhythm and two in duple rhythm.

Solution, Bavarian, N. [Gr. Bakxelor, property consists of three neutron of Backelor, adj., $\langle Bakxelor, Backelor, Backelor, Backelor, Backelor, Backelor, adj., <math>\langle Bakxelor, Backelor, Backelor, Backelor, Backelor, Backelor, adj., <math>\langle Bakxelor, Backelor, Backelor,$ tween the Pnyx and Arcopagus, and excavated by Dr. Dörpfeld.

bacciocolo (ba-chō'kō-lō), n. A Tusean variety of guitar.

B. Acct. An abbreviation of Bachelor of Ac-

bachelor, n. 7. One of the young male fur-seals which are forced, through fear of the adult bulls, to herd by themselves at a distance adult bulls, to herd by themselves at a distance from the breeding-grounds.—Bachelor girl, a young mmarried woman (especially one who earns her own living) who lives more or less independently, often keeping house by herself or in the company of another or others similarly situated.

bachelorly (bach'e-lor-li), a. Bachelor-like. bachi (bäk'hē), n. [Native name on Batanes islands.] A distilled liquor used by the natives of the Batanes.

See *baby-blue-eyes. bacillicidal (ba-sil-i-si'dal). a. [bacillicide + bylonian or Babylonish -al.] Destructive of bacilli; bacillicidic.

bacilligenic (ba-sil-i-jen'ik), a. Of bacillary origin; caused by the presence of a bacillus. bacillite (ba-sil'it), n. [L. bacillus, a little rod, + -ite².] One of these embryonic erystals 101

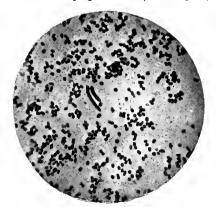
or erystallites, in the glassy eruptive rocks, or erystallites, in the glassy emptive rocks, which are composed of parallel longulites or little eylindric rods: a term suggested by F. Rutley. Mineralogical Mag., 1X, 263. bacillophobia (ba-sil-ō-fo'bi-i), n. [NL. bacillus + Gr. -φορία, ⟨φορέιν, fear.] A morbid fear of infection by bacilli. bacilluria (bas-i-lū'ri-ii), n. [NL., ⟨bacillus + Gr. οὐρον, urine.] The presence of bacilli in the urine when voided.

bacillus, n. 6. In sponges, a microstrongyle; a form of spicule.—Acid-reststing bacillus, any one of a small group of bacteria, including Bacterium, (Bacillus) tuberculosis, B. Lepræ, etc., which stain with difficulty, but are very resistant to the mineral acids when these are used as decolorizing agents.—Bacillus botulinus ['sansage bacillus'], a bacterium discovered by Van Ermengen and shown to be the cause of meatpoisoning.—Bacillus bovis morbificans ['disease-producing beef bacillus'], an organism described by Basenau as a possible cause of certain cases of meatpoisoning: perhaps a variety of the colon bacillus.—Bacillus coli communis, a bacterium, having the form of single or paired rods, present in the human intestine in health, and also found associated with other microorganisms in the blood and other fluids of the body in the course of varions diseases. It is found also in water, milk, and food-stuffs, and is one of the moat widely diseminated of saprophytic bacteria.—Bacillus mallet ['bacillus of the hammer'], a pathogenic micro-organism, **bacillus**, n. 6. In spenges, a microstrongyle; ['bacillus of the hammer'], a pathogenic micro-organism,



Bacillus mallei, magnified 1,000 times. (From Buck's "Reference Handbook of the Medical Sciences,")

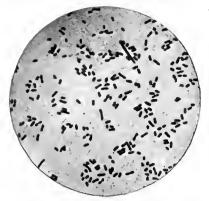
the bacillus of glauders. Morphologically it reaemblea the bacillus of tuberculosis. It occurs in the form of rods from 2 to 5 microns long and actively motile.—Bacillus pyocyaneus, a bacillus found in certain casea of anppuration where the pus has a blush coloration.—Boas-Oppler bacillus, a long bacillus which is found in the stomach contents almost exclusively in casea of cancer of the atomach. It is a marked lactic acid producer.—Bubonic-plague bacillus, Bacillus pestis, in-



Bubonic-plague bacillus (Bacillus pestis), from Agar culture, Magnified 1,000 times. (From Buck's "Reference Handbook of the Medical Sciences.")

variably associated with the hubonic plague, and generally accepted as the specific cause of the disease.—Butter bacillus, the Bacillus 41 of Conn, used to improve the flavor of butter.—Diphtheria bacillus. Same as Klebs-Loegler *bacillus.—Eberth's bacillus, Bacillus typhosus,

the probable causal agent of typhoid fever. See typhoid and bacillus.—Friedlander's bacillus, the organism Bacterium (Bacillus) pneumonicum, discovered by Fried-



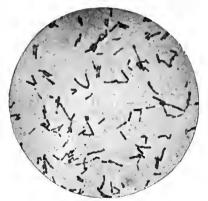
berth's bacillus (Bacillus typhosus). Magnified 1,000 times. From Buck's "Reference Handbook of the Medical Sciences,")

länder and believed by him to be the eanse of fibrinous pnenmonia. Later investigations have not confirmed this belief.—Glanders bacillus, Bacterium (Bacillus) mallei, the bacillus of glanders. See *Bacillus mallei.—Icteroid bacillus, the Bacillus icteroides of Sanarelli, who declared it to be the specific cause of yellow fever. This opinion has not been generally accepted by investigators of the disease.—Influenza bacillus, Bacterium (Bacillus) in-



Influenza bacillus (Bacterium (Bacillus) influenza), Magnified 1000 times. (From Buck's "Reference Handbook of the Medical

fluenzæ, considered by Pfeisser to be the specific cause of epidemic infinenza.—Kiebs-Loeffler bacillus, Bac-



Klebs-Loeffler bacillus (Bacterium (Bacillus) diphtheriæ). Magnified 1,000 times. (From Buck's "Reference Handbook of the Medical Sciences.")

terium (Bacillus) diphtheriæ, the organism invariably found associated with true diphtheria. Its causal relation to this disease is regarded as demonstrated.—Koch's bacillus, the tubercle bacillus. See*tuberculosis. Koch's comma bacillus, Microspira (Bacillus) comma. It is found associated with Asiatic cholera, and there is much evidence to aupport the general belief that it is the cause of this disease. See *Microspira.—Koch-Weeks bacillus, a micro-organism which causes one form of acute conjunctivitis.—Leprosy bacillus, Bacterium (Bacillus) lepræ. It is usually found in leprons tissue, but its causal relation to the disease has not yet been demonstrated.—Neumann's bacillus, a microbe (Bacillus meningitidis purulentæ (found associated with cases of purulent meningitis.—Nicolater's bacillus, a bacillus found by Nicolaier in a post-mortem examination of an abscess of the kidoey.—Paraeolon bacillus, a micrororganism found in the blood in certain cases of fever resembling in general typhoid fever, but not responding to Widal's test.—Pfeiffer bacillus. Same as infuenza *bacillus.—Pseudodiphtheria bacillus. They are found in the throat, but are not virulent.—

Pseudo-tubercle bacilli, certain bacteria, as Bacterium (Bacillus) pseudotuberculosis, which resemble and produce effects similar to the tubercle bacillus,—Shiga's bacillus Shiga, which is found quite generally in cases of diarrhea, dysentery, and choiera infantum, and is believed to be their cause,—Smegma bacillus, the Bacterium snegmatis of Migula, found on the genital organs of man. It is not generally regarded as pathogenic.—Tubercle bacillus, Bacterium (Bacillus)



Tubercle bacillus (Bacterium (Bacillus) tuberculosis) in sputum. Magnified 1,000 times. (From Buck's "Reference Handbook of the Medical Sciences.")

tuberculosis, the organism demonstrated by Koch to be the cause of tuberculosis. Also called Koch's tubercle

tuberculosis, the organism demonstrated by Koch to be the cause of tuherculosis. Also called Koch's tubercle bacillus. See *tuberculosis.—Typhotd bacillus. See Elerth's *bacillus and typhoid.

back¹, n., 12. Half-back and full-back are also applied to similar positions in field-hocky, roller-polo, and other games. In American foot-ball there are two half-backs, who play at varying distances heliml the rush-line. They render assistance to the tackles and ends as a secondary line of defense, and on the attack are the men most used for running with the ball. In field-hocky there are usually three half-backs, the center, the right, and the left, who stand about 15 yards behind the forwards.

13. A change in the direction of the wind 13. in the order east, north, west, and south-that is, against the sun or against the hands of a is, against the sun or against the hands of a watch.—14. In mining, a cleavage-plane: one of the main joints, vertical or nearly so, by which strata are intersected. [Scotch.]—Back of a lode or vein, in mining, the outcrop.—Paneled back. Same as *panel-back.—Repeating back in photogo, a form of single plate-holder by means of which two separate negatives may be made on one plate.—Reversing back, an arrangement of that portion of a camera which holds the focusing-screen and dark-slide by which oblong plates may be exposed either horizontally or vertically.

back¹, a. 5. In phonol., formed at the back of the mouth by raising or lowering the posterior part, or back, of the tongue.—Back number. See *number.—To take the back track. See *track².

back¹, adr.—From 'way back. (a) From a locality which is 'away back,' or far behind or remote, from the place where the speaker is, or from eivilization; from some indefinitely distant, out-of-the-way, little-known, or rural region. (b) From the beginning, or from early times; hence, with systematic thoroughness; as, he explained the whole thing from 'way back. [Colloq.]—To send back, in cricket, to get (a batsman) out; to cause him to return to the pavilion. [Colloq.]—To whip back. See *whip.

back¹, v. t. 13. In building: (a) To complete at the back or rear by building or by covering

at the back or rear by building or by covering or finishing something: often used with up.
(b) To finish at the back by cutting off, trimming, or smoothing: sometimes used with off.
(c) To give a new back to (as a wall), by cutting away some part of the material: generally used with off.—14. To move (coal) along the working-face to the haulage road.—15. To provide (a bow) with a back made of a separate piece or of different material from that of the belly.

back-action, a. II. n. A small wagon attached to and drawn by a larger one, for the transportation of freight. [Pacific States.] back-airing (bak'ar'ing), n. The providing of ventilation, by means of pipes, to the lower or outer side of a trap, to prevent the accumulation of foul gases below it. Also called back-

back-angle (bak'ang gl), n. 1. The angle formed by extending backward the two straight lines which form a given angle. The angular value of the back-angle equals that of the forward or direct angle, but the bearings or azimuths of its sides are reversed.—2. The third angle of a triangle which has been found by calculation from the observed values of the other two angles.

back-bag (bak'bag), n. A bag carried on the back, especially the rücksack of the Tyrolese.

back-balance (bak'bal-ans), n. A self-aeting incline in the mine, where a balance-car and a carriage in which the mine-ear is placed are used. The loaded car upon the carriage will hoist the balance-car, and the balance-car will hoist the carriage and empty car. Coal and Metal Miners' Pocket-book. back-bar, n. 2. In a carriage, a enrved bar of ornamental character used to connect the tops

of the rear springs and to aet as a support for the pump-handles or body-loops.

back-block² (bak'blok), a. From the interior or back country: as, back-block youngsters. [Australia.]

back-blocker (bak'blok-er), n. A settler or resident in the back-blocks of Australia; a bushman from the back-blocks. [Australia.] back-blocks (bak'bloks), n. pl. 1. A collective name in Australia for those sections which lie back of or away from the settled regions: the back country; the far interior: so ealled from the fact that on the survey-maps the country is divided into "blocks," or sections.

ry is divided into officers, of the back-blocks of New South Wales, he had known oth hunger and thirst, and had suffered from sunstroke.

Haddon Chambers, Thumbnail Sketches of Australian [Life, p. 33.

2. Those parts of a station which are distant from the river-front. See *frontage. [Aus-

backboard (bak'bord), v. t. In leather-manuf. to board on the flesh side instead of on the grain

side as in regular boarding back-box (bak'boks), r. t. In turpentine-making, to cut new boxes in the unused spaces of (a boxed tree).

back-center, n. 2. The position of the linkblock of a Stephenson-link reversing-gear when the engine is running backward; the position of the link-block when it is controlled by the backward eccentrie.

back-choir (bak'kwir), n. A secondary choir behind (that is, to the eastward of) the great choir, as in a large church. In the large Spanish churches it is often called the greater chapel (*capilla mayor, which see, with eut). back-coal (bak'kōl), n. Coal which miners are

back-coal (bak'kol), n. Coal when miners are allowed to carry home with them. [Seoteh.] back-coming (bak'kum'ing), n. The mining of eoal in the pillars back toward the shaft. See back-splinting. [Seoteh.] back-cross (bak'krôs), v. i. To cross or interbreed between a Mandelian hybrid and one of

breed between a Mendelian hybrid and one of the pure parental forms.

The correctness of Mendel'a hypothesis of the purity of the germ-cells and of their production in equal numbers, is shown by back-crossing of a hybrid with one of the parental forms. For example, in a case of simple dominance the first generation will all be D (R). Any one of them back-crossed with the recessive parent will produce 50 p.c. pure recessives and 50 p.c. hybrids.

Jour. Roy. Micros. Soc., Feb. 1904, p. 52.

back-cutting (bak'kut"ing), n. 1. In civil engin., earth or other material brought from a place where there is an excess to fill up a cutting or place where there is a deficiency.

2. The place whence this extra earth is brought; the excavation made in procuring

back-deed (bak'ded), n. In Scots law, same as back-bond (which see). It corresponds to the declaration of trust in English conveyaneing.

back-down (bak'doun), n. The act of backing down. See back1, v. back-draft (bak'draft), n. A reverse current;

in a furnace, a draft of air or gas going in a direction contrary to the normal direction and often causing a burst of flame out into the fire-

room or through the firing-door or ash-pit. backed, p. a. 2. In archery, having the back made of a separate piece from the belly: said of a bow. See bow.

backfill (bak-fil'), r. i. and t. In engin., to fill (a depression) with material taken from a cutting

back-filling (bak'fil'ing), n. 1. Rough masonry forming the back of a wall.—2. The filling in again of a place from which earth has been removed; the earth so filled in.

backfire (bak'fir), v. i.; pret. and pp. backfired, ppr. backfiring.

1. To stop an advancing fire by setting in front of it, or around threatened buildings, woods, etc., another fire, which is then beaten out, thus producing a protective burnt area.

In dry times we patrol especially exposed parts. In spring and autumn, during dry weather, our woodsmen all have orders, no matter what they are doing, whenever they see smoke arise to go to it and put out the fire. It

is usually done by back-firing entirely around and watching it until we are sure the fire is out. By this means we have kept serious fires from our timber when we are watched to the surface of the surf Yearbook U. S. Dept. Agr., 1899, p. 424.

2. To light before the proper time: said specifically of a gas-engine when the charge emeany of a gastengine when the energy explodes before the admission-valve closes, thus making an explosion in the admissionpassage, or before the working-piston reaches its dead-eenter, which it must do before beginning its working stroke. See *back-firing. back-fire (bak'fir), n. A fire started purposely some distance ahead of a fire which is to be

some distance ahead of a fire which is to be fought. The back-fire is often so set as to burn against the wind, so that when the two fires meet, both must go out for lack of fuel. Also called counter-fire.

back-firing (bak'fir"ing), n. 1. The action of the burner of an explosive mixture, usually of gas and air, by which the flame runs back the most them.

through the mixing- or combining-tube to the iet which delivers the fuel: due to the fact that the flow in the mixing-tube is slower than the rate at which the flame travels in such a mixture.—2. The pre-ignition of a mixture of gas and air, in the cylinder of an internal-combustion motor, by which the piston is strongly driven backward and a partial rotation of the shaft in reverse direction results: due to a very combustible mixture with high compression in relation to its composition, or to advanced spark-adjustment. See *ignition, 5, and internal-combustion *motor.

backflash (bak'flash), v. i. Of a flame which is consuming a combustible gas, to move back through the current of gas and burn at a point farther back than is desired. This happens when the rate of flow of the mixture in the current is less than the rate at which flame propagates itself through such a

back-flow (bak'flo), n. Back-draft; also, the

flowing back of a flamo in gas-engines.

back-flue (bak'flu), n. The reverse of a return-flue; a flue for conducting hot gases from the front to the rear end of a boiler.

back-fold (bak'föld), n. A backward fold or

folding; the English equivalent of the German rückfaltung, suggested by E. Sness for the man ruckyattung, suggested by E. Shess for the following condition: A mountain-range which has been upheaved by folding later experiences a strike-fault whose inner side, away from the bounding plains, sinks. Later a cross-folding is developed at right angles to this break, and to the axis of the older folds, which causes great upheaval and tilting. This last-formed fold is called a back-fold. Amer. Geol., Aug., 1904, p. 16.

back-furrow (bak fur '6), r. i. To lay a secondary the face of a first by

ond furrow-slice against the face of a first by

plowing in the reverse direction.

backgammon, n.—Russian backgammon, a variety of backgammon in which the men, instead of being set up on various points at the beginning of the game, are entered by throws of the diee, both players entering upon the same table and going round the board in the same direction.

speed of a shaft by transferring the power to secondary shaft and then back to the first back-slanging (bak'slang-ing), n. The eusshaft, or one concentric or parallel with it. Such a set of gears is commonly used on lathes for driving the live spindle when cutting metal.

back-geared (bak'gerd), p. a. So geared that

but turning at a different speed.

back-gray (bak'grā), n. A piece of unbleached cotton cloth placed on a calico-printing machine between the cloth which is being printed and the back-blanket, to keep the latter elean as long as possible.

player the bail on the right side. **backing**, n. 3. (i) In archery: (i) A reinforcement of wood sinew, or other elastic material forming the back of a composite how. (See bove?) Backing of sinew is free (simply bound or laced upon the bow) or close (modded or glued upon the bow). (2) The art or process of affixing such a reinforcement. (j) In maxonry, the rough stonework, brickwork, or concrete of a wall whose face is of finer material or workmanship; in arch. construction, the masonry which rests immediately upon an arch, sometimes necessary to keep it from deformation. (k) In mining, planks or poles placed behind the main timbers.

backing-cloth (bak'ing-klôth), n. In calicoprinting, an endless cloth, consisting of several layers of stout cotton cloth fastened together with eaoutchouc, run immediately back of the fabric to be printed, to increase the elasticity of pressure of the engraved rollers.

backing-cylinder (bak'ing-sil"in-der), n. In calico-printing, the pressure-cylinder, on a

backlashing (bak'lash"ing), n. Same as back-

back-line (bak'lin), v. t.; pret. and pp. back-lined, ppr. back-lining. See to *laul back, back-mine (bak'min), n. A eross-eut passage toward the dip of the strata. Also back-set

[Seotch.]

back-observation (bak'ob-zer-va shon), n. An observation made, as in surveying, in a direction contrary to the direction of progress, or contrary to the usual direction.

back-palming (bak'pä"ming), n. In conjuring, the art of passing cards or coins to the back of the hand through the fingers, and then back again to the palm, as the hand is turned in full view of the spectators.

Recently some new sleights were introduced from America. These consist in an amplification of the method of concealing coins and cards at the back of the fingers. The principle has received the incongruous title of "back-palming." By means of this method both back and front of the hand alternately can be shown empty, while, notwithstanding its apparent emptiness, the hand nevertheless conceals a coin or eard. Encyc. Brit., XXX. 428. less conceals a coin or card. Encyc. Brit., XXX. 428.

backpedal (bak'ped"al), v. i. In bicycling, to press down upon the pedal as it rises, in order to eheek the movement of the wheel.

backplate, n. 2. A plate of east-iron bolted against the back or outer edge of moldingboxes, for the purpose of preventing the liquid metal from forcing the sand outward and escaping from the mold: also applied to the plate used on the back of the wind-box of the Bessemer converter.

back-poppet (bak'pop"et), n. The tail-stock in a lathe. [Eng.]

back-positive (bak'poz"i-tiv), n. In German organ-building, that division of the instrument which is placed behind the player's seat and between him and the church. It is usually played from the lower bank of keys. Compare chair-organ and choir-organ.

Back-pressure line, that line of an indicator-card which is traced by the pencil of the indicator while the end of the cylinder to which the indicator is attached is

exhausting.

back-quarter (bak'kwâr"têr), n. A strip of leather at a rear corner of a bow-top earriage. backset, n. 3. In lock-making, the horizontal distance between the front of the lock and the eenter of the keyhole; an essential measurement in lock-fitting.

va- back-shot (bak'shot), n. A back-firing; the firing of the charge in the cylinder of an internal-combustion engine before the admissionvalve has closed, thus causing an explosion in the admission-passage.

back-gear, n. 2. pl. Gears for changing the back-shutter (bak'shut'er), n. That part of a shutter which is hinged to the stile.

> tom of travelers in the back-blocks of Australia, where hotels are searce, of seeking ac-

the power is brought back to a shaft concentric with the driving-shaft, or parallel to it, but turning at a different speed.

back-gray (bak'grā), n. A piece of unbleached back-gray (bak'grā), n. A backward rotation, as of a golf-ball. It checks the forward states of the back-gray of the ball of the property of the ball. motion of the ball.

back-stamp (bak'stamp), n. An imprint upon the reverse side of mailed matter indicating the time and place of its receipt at a post-office.

Back-hand stroke, in tennis and similar games played with a racket or bat, a stroke in executing which the pisyer turns the back of his hand toward the direction in which he is sending the ball—for a right-handed player the ball on the left side, and for a left-handed player the ball on the right side.

back-stay, n. 8. In mining, an inclined struct or brace of a shaft-head frame, designed to resist the pull of the hoisting-engine.—Back-stays to the sun, radiating beams of light proceeding from behind a cloud near the horizon: the sunbeams shining between distant clouds and illuminating the resist the pull of the hoisting-engine.—Backstays to the sun, radiating beams of light proceeding from behind a cloud near the horizon; the sunbeams shining between distant clouds and illuminating the lower hazy, dusty atmosphere. When these beams descend to the earth or ocean in front of the observer it is said that the sun is "drawing water."—Shifting backstay, a stay used on a fore-and-aft vessel only as necessity requires. Such stays are shifted when the vessel goes about, so that the weather ones will be taut and the lee about, so that the weather ones will be taut and the lee ones slack. Shifting backstays are set up with their own permanent tackle and act as preventer stays for the topmast when the vessel is under a press of sail. When not in use they are secured in the after part of the channels or standing rigging of the mast to which they belong.

back-stop, n. 2. In base-ball, the eatcher. See def. 1.—3. A stop or pawl designed to cheek

the backward movement of a wheel; a detent. Back-stop net, coarse netting used on athletic grounds to prevent the balls used in tennis or base-ball from passing beyond certain limits.

back-stope (bak'stōp), n. In mining, a working-place over a drift or level in which the ore is attacked from ballow.

attacked from below.

eylinder printing-machine, which serves as backstope (bak'stop), v. i.; pret, and pp. back-a solid abutment for the engraved printing-stoped, ppr. backstoping. To mine a stope by rollers.

back-stretch (bak-strech'), n. That part of a circular or oval race-course which is at the side opposite to the finish; the part opposite the home-stretch.

back-stroke, n. 3. In teleg., the return-stroke of the lever in a telegraph-sounder. Standard Elect. Dict.-4. Diastolic impulse of the heart, a faint beat occurring as the blood enters the ventricles.

back-swordman (bak'sord-man), n. Same as back-swordsman (bak sord-man), n. banne as back-swordsman (bak'sordz-man), n. Afencer

with the single-stick or back-sword. back-turn (bak'tern), n. In music, same as

turn, 6.

back-up (bak'up), u. Mechanism or levers by which the forward motion of a motor-car or -vehicle is reversed.

The single lever which, by a forward and backward movement, through the space of about 12 inches, starts the engine, and controls the forward speeds and the back-up, doing away with the confusion arising from a multiplication of levers.

Hiscox, Horseless Vehicles, p. 262.

back-valve (bak'valv), n. A cheek-valve; a valve which antomatically prevents a fluid from flowing in the wrong direction.

back-vent (bak'vent), n. In mining, in wide rooms with eenter pack-walls, the air-course alongside the pillar. Barrowman, Gloss. [Seotch.]

back-wash (bak'wosh), v. t. 1. To eleanse from oil, as wool after combing.—2. To subject to the back-wash of a boat which is ahead or is passing.

back-wash (bak'wosh), n. 1. In worsted manuf., a process of eleaning the earded sliver of wool by passing it through hot suds. C. Vickerman, Woolen Spinning, p. 225.—2. The disturbed water thrown aft by the action of the oars, paddle-wheels, or propeller of a boat. backwasher (bak'wosh-er), n. In worsted manuf,, a machine for cleansing the carded sliver by passing it through hot soap-suds and water, over hot copper drums, and through a

serew gill-box.

back-working (bak'wer-king), n. In mining, working a coal-bed back or working toward the shaft. [Seoteh.]
bacological (bak-ō-loj'i-kal), a. [It. *bacologieo (< NL. *bacologieus), < *bacologia, the art of baco, var. of bombaee, < M.L. bombax, var. of L. bombax, silkworm (see bombast, bombyx) + Gr. -λογία < λέγειν, speak.] Of or pertaining to the eulture of silkworms; serieultural.

Baconian theory, the theory that Bacon wrote the plays usually attributed to Shakspere. This theory, first distinctly put forth by Delia Bacon in 1857, has had many fervent advocates, who have found difficulty in believing that two men of the "supreme genius" commonly ascribed to both Bacon and Shakspere could exist as contemporaries. contemporaries.

Baconianism (bā-kō'ui-an-izm), n. Baeonism. eommodations at the settlers' stations outheir **Baconist** (bā'kou-ist), n. 1. An adherent of route. [Australia.] to or favors the Baconian theory as to the plays usually recognized as Shakspere's.

A backward rota- Bacony degeneration. Same as lardaceous checks the forward disease (which see, under lardaceous).

Bacopa (ba-kō'pā), n. [NL. (Aublet, 1775), prob. after a native Guiana name of the type species. A genus of dicotyledonous plants of the family Scrophulariaeeæ. The type species, B. aquatica, is a native of Guiana and Brazil and in those countries is used medicinally. See Herpestie, bacteræmia, n. An improper form of *bacteriemia

teriemia.

bacteria-bed (bak-tē'ri-ä-bed"), n. In sewage disposal, same as *cultivation-bed (which see). Bacterial blight, a name given to certain bacterial diseases of plants: as, the bacterial blight of the walnut, which has been reported from Californis, and the bacterial blight of potatoes (Baciltus solanacearum), which causes the death of the leaves and stems, and also the rotting of the tubers.—Bacterial lamp, a glass flask of 1-2 liters capacity, containing a culture of phosphorescent bacteria.—Bacterial proteins. See *protein.—Bacterial spot, a disease of carnations, of bacterial origin, which produces spots on the leaves and finally kills them. It is regarded as distinct from bacteriosis of the carnation, attributed to Baciltus Dianthi.

bacteria-tank (bak-tē'ri-ä-tanck"). n. In sewbacteria-bed (bak-tē'ri-ā-bed"), n. In sewage

bacteria-tank (bak-tē'ri-ä-tangk"), n. In sewage disposal, same as *septic tank (which

bacteric (bak-ter'ik), a. Same as bacterial. Bactericidal immunity. See *immunity.

bactericide, n.—Specific bactericide, a term intro-duced by Pfeiffer to designate the active substance of a bacteriolytic immune serum: same as *bacteriolysin.

bacteriemia (bak-tē-ri-ē'mi-ä), n. [NL. bacteræmia, < Gr. βακτήριον, a roil (see bacterium), + αιαα, blood.] Presence of bacteria in the

bacteriofluorescin (bak-të ri-ō-flū-ō-res'in), n. A green fluorescent pigment produced by Baeillus pyocyancus

bacterioid, a. II. n. An organism shaped like a bacterium; specifically, the branched form of bacteria found in the root-nodules of leguminous plants.

bacterioidal (bak-tē-ri-oi'dal), a. Having the shape of a bacterium; bacterioid.

bacteriologic (bak-tē ri-ō-loj'ik), a. Same as bacteriological.

Bacteriological *incubator, *sterilizer. See

bacteriologically (bak-te"ri-ō-loj'i-kal-i), adv. In a bacteriological sense or relation.

bacteriolysin (bak*te-ri-ol'i-sin), n. [bacteri-olys(is) + -in².] A substance of the character of an amboceptor, which will cause the destruction of bacteria in the presence of a corresponding complement. (See *complement, 8.) Its action is, generally speaking, specific, that is, a certain bacteriolysin will destroy only a certain definite species of bacteria.

species of nacteria.

In his Croonian lecture (1900) Ehrlich says: "From this it appears that in the therapeutic application of anti-bacterial sera to man therapeutical success is only to be attained if we use either a bacteriolysin with a complement which is stable in man, or at least a bacteriolysin the amboceptor of which finds in human serum an appropriate complement. The latter condition will be the more readily fulfilled the nearer the species employed in the immunisation process is to man."

Lancet, April 4, 1903, p. 943.

bacteriolysis (bak"tē-ri-ol'i-sis), n. [NL., < baeterium + Gr. λύσις, dissolution.] Destruction of baeteria by some specific lysin.

But inasmuch as the results of the studies form an integral part of the work on hemolysis and bacteriolysis, which is now attracting so much attention among bacteriologists and pathologists, and as they contain certain facts of fundamental importance bearing on the theory of these phenomena, it seems best not to delay publication until the entire series of researches shall have been completed. Jour Erreer, Med. March 17, 1002, 279. Jour. Exper. Med., March 17, 1902, p. 278.

bacteriolytic (bak-te"ri-o-lit'ik), a. [baeteriolysis (-lyt-) + -ie.] Pertaining to or of the nature of bacteriolysis; destructive to bacteria through the action of specific lysins.

The colon and typhoid bacillus were employed to check one another. It was found that in nearly every case the bacteriolytic power of the blood was sufficient to destroy the typhoid bacillus, even if alcohol was not employed. Therapeutic Gazette, May 15, 1903, p. 292.

bacterioprotein (bak-tē/ri-ō-prō'tē-in), n. An albuminous substance derived from bacteria. Same as bacterial *protein. bacteriopurpurin (bak-tē"ri-ō-per'pū-rin), n.

[L. bacterium + purpurcus, purple, + -in².]
The reddish-purple coloring matter contained in certain baeteria.

bacterioscopically (bak-te"ri-o-skop'i-kal-i), adv. By bacterioscopic methods; by means of a search for bacteria with the microscope or by culture methods. Nature, LXVII. 370. bacterioscopist (bak-tē-ri-os'kō-pist), n. One

engaged or skilled in the microscopical investigation of bacteria.

bacteriosis (bak-tē-ri-ō'sis), n. Any plantbacteriosis (bak-tē-ri-ō'sis), n. Any plant-disease caused by bacteria.—Bacteriosis of the carnation, a disease of carnations attributed by Arthur and Bolley to Bacillus Dianthi.—Bacteriosis of the cueumber, a disease of cueumbers caused by Bacillus tracheiphilus.—Bacteriosis of the py-einth, a disease of hyacintha caused (according to Walker) by Pseudomonas Hyacinthi.—Bacteriosis of the melon, a disease which destroys the leaves and vines of melons caused by Bacillus tracheiphilus.—Bacteriosis of the mulberry, a disease of the mulberry attributed to Bacillus Cubonianus.—Bacteriosis of the potato, a disease which attacks the leaves, atems, and tubers of potatoes: said to be caused by Bacillus solanacearum.—Pink bacteriosis of wheat, a disease of wheat attributed to Micrococcus Tritici.

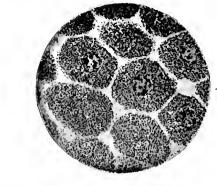
bacteriotoxin (bak-tē-ri-ō-tok/sin). n. 1 A

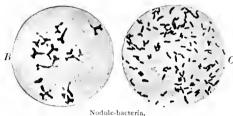
bacteriotoxin (bak-tē"ri-ō-tok'sin), n. toxin of bacterial origin. -2. Same as *bacteriolusin.

teriolysin.

bacterium, n.—Hog-cholera bacteria, a group of varieties or species, including Bacillus Salmoni, found associated with hog-cholera.—Involution forms of bacteria, irregular forms due to constrictions or swelling of the cells. They occur especially in old cultures, where the organisms have little vitality or are dead.—Iron-bacteria, certain of the higher bacteria, as species of Crenothriz, which make use of the iron compounds, especially iron carbonate. See *Crenothriz.—Luminous bacteria, species which possess luminous properties. The luminosity appears to be due to the vital processes of the cell acting in the presence of free oxygen.—Mesophilic bacteria, a class of bacteria so called on account of the temperature at which they grow. The minimum is 10°-15° C., optimum 37° C., and noaximum about

104 45° C. The forms which produce pathogenic action in man belong to this class.—Nodule-bacteria, the bac-





 \mathcal{A} , a few cells highly magnified to show the bacteria; four cells with nuclei; \mathcal{B} , branching forms from clover tubercle; \mathcal{C} , rodforms from from from fenugreek tubercle,

teria which produce nodules upon leguminous plants, enabling them to use atmospheric nitrogen. — Pigment-bacteria, bacteria which exhibit color. — Psychrophilic bacteria, bacteria which develop at a minimum temperature of 0° C. optimum 15°-20° C, and maximum about 30° C. The water-inhabiting bacteria generally belong to this class. — Pus-producing bacteria, the group of forms which are active in suppurative processes, of which Streptococcus pyogenes is a frequently found example. — Sulphur bacteria, a name applied to certain bacteria frequently found in sulphur-springs. The most common forms belong to *Beggiatoa* (see cut), and *Thiothrix. — Thermophilic bacteria, a group of bacteria which require a high temperature for successful growth. The minimum is 40°-49° C., optimum 50°-55° C., and maximum 60°-70° C. Many of the sqil-bacteria belong to this group.

bacteriuria (bak-tē-ri-ū'ri-ä), n. [NL., < Gr. βακτήριον, a rod (see bacterium), + ουρον, urine.] Presence of bacteria in the urine when voided.

Bactrian. I. a.—Bactrian sage, Zoroaster.

II. n. The language of Bactria.—Old Bactrian, the old language of Bactria: usually called Avestan

Bactrites (bak-trī'tēz), n. [NL., < Gr. βάκτρου a cudgel, + -ites.] An early genus of fossil cephalopods in which the shell is straight, the protoconch round and calcified, and the septa

protoconch round and calcified, and the septa regularly saucer-shaped, with a lateral siphonal lobe. Some writers regard this genus, which occurs only in the Devonian, as a derived form of the nantiloids because of its shape, the variability of its siphonal lobe, and the fact that some nautiloids, like Orthoceras, possess a calcified protoconch. Others regard the genus as a primitive form of the ammonoids; but this view is not now well supported.

bactriticone (bak-trit'i-kōn), n. [NL., ⟨Bactrites, + Gr. κῶνος, cone.] The elongate-conic shell of the eephalopod genus Bactrites. The word was employed by Hyatt to distinguish this shell from the similar but stouter cones of nautiloids like Orthoceras (orthoceracones), on the assumption that Bactrites is an ammonoid genus and the only representative of that group with a straight and smooth shell. This view is not generally accepted, and the term bactriticone is held to be essentially equivalent to orthoceracone.

bacuba (bä-kö'bä), n. [A native W. Ind. name: ef. Oyambi bacowe, Galibi baccoúcou, baloulaca, A name, in the Danish West Indies, banana.] of the cultivated dwarf banana, Musa Cavendishii.

bacule (bak'ūl), n. [MF. bacule.] Same as

A baculiferous (bak-ū-lif'e-rus), a. Bearing reeds or canes.

baculiform (ba-kū'li-fôrm), a. [L. baculum, rod, + forma, form.] Rod-shaped; straight. baculiticone (bak-ū-lit'i-kōn), n. [NL., ⟨Baculites + Gr. κῶνος, cone.] A shell like that of the ammonoid cephalopod genus Baculites; a shell close-coiled in early stages but in later growth becoming uncoiled and finally straight, baddeckite (ba-dek'it), n. [Baddeck (see def.) + -ite².] A highly ferriferous miea occurring
in small isolated seales embedded in a plastic bactzner (betz'ner), n. A small billon coin of elay: found near Baddeek, Nova Scotia. baddeleyite (bad'li-īt), n. [Named aft

from Ceylon.] Zirconinm dioxid (ZrO2), oceuring in tabular monoclinic crystals from yellow to brown or black in color: first found in the gem-sands of Rakwana, Ceylon, and later in Brazil (there called brazilite) and in Sweden.

badenite (bad'e-nit), n. [Rumanian Badeni (seedef.) + -ite².] An arsenide of cobalt. nickel, and iron, containing also a small amount of bismuth. It occurs in steel-gray granular to fibrous masses at Badeni-Ungureni, Rumania. badge1, n. 5. A breed of domesticated pigeons.

badge¹, n. 5. A breed of domesticated pigeons, so named because of the sprinkling of white about the head and 10 white flight-feathers.
Badge of fraud, in lavy, an act or omission innocent in itself, but so out of the usual course that a presumption of fraudulent dealing srises, which must be overcome by positive evidence.
badger², n. 5. An erroneous translation, in the English version of the Bible, of the Hebrew talash, an animal whose skius are mentioned 13 times in the Old Testament as cover-

tioned 13 times in the Old Testament as coverings for the ark of the covenant, the table of showbread, and the tabernacle itself, and once (in Ezek, xvi. 10) as a material for the shoes or sandals worn by women. Badgers are not known to occur in Asia as far south as Palestine and Arabia. The particular animal which furnished these skins has not yet been identified.

The particular animal when rainshed size said not yet been identified.

6. In Australia, (a) the bandieoot, Perameles, and, rarely, (b) the rock-kangaroo, Petrogale.— 7. A soldier who wears short whiskers. [Colloq., U. S.]—8. In angling, an artificial fly having a hackle of badger cock with a darkbrown, nearly black center and cream-colored points.—Badger game, a blackmallingscheme in which a man of means is enticed by a woman into a compromising relation, and is then pounced upon by her alleged husband and compelled to pay smart-money.

badger-box (baj'er-boks), n. A roughly constructed dwelling, shaped like an inverted V and covered with bark, much used by Tasmanian and covered with bark which is a second covered with the second covered with bark which is a second covered with the second covered with the

badhan (bād'chan), n. [Yiddish, from Talmudie (Syr.) beduh, cheer up, amuse.] A professional jester; one who entertains the guests at a Jewish marriage by reciting Hebrew and at a Jewish marriage by reciting Hebrew and Yiddish popular songs, aneedotes, etc., and who also addresses the bride and bridegroom. Although his chief occupation (as his usme signifies) is merrymaking, his addresses to the couple before the marriage ceremony assume a solemn character. Also called marshalok or marshallik, from the German marschalk, a sort of leader in festivities.

badia (bä-dē'ä), n. [lt., shortened form of ab-badia.] Same as ★abbadia (which see).

Badiotites (bad-i-ō-tī'tēz), n. [NL.; formation not obvious.] A genus of ammonoid cephalopods with closely coiled discoidal shells, relatively simple septal sutures, and strongly ribbed and keeled whorls. It occurs in the Triassic rocks of the Mediterranean province.

badjong (bad'jông), n. [Aboriginal name.] The name, in western Australia, of a tall shrub, name, in western Australia, of a tall surub, Acacia microbotrya. It produces a large quantity of good gum, similar to gum arabic, which has a pleasant sweetish taste; the aburiginals gather and store it in hollow trees for use as food in winter.

bad-wing (bad'wing), n. A geometrid moth, Dyspteris abortivaria, inhabiting the Atlantic United States, the hind wings of which are

greatly reduced in size. It is pea-green in color, with two white bands on each of the fore wings and one on each of the hind wings. Its larvæ roll the leaves of

Baelz's disease of the lip. See *lip.
Bæna (bē'nā), n. [NL:; formation not obvious.] A genus of fossil turtles from the Cretaceous and Eocene of North America.

bænomere (bē'nō-mēr), n. [Irreg. ⟨Gr. βαίνειν, go (see būse², bāsis), + μέρος, part.] One of the thoracie segments of an arthropod.

bænopod (bē'nō-pod), n. [Irreg. ⟨Gr. βαίνειν, go, + ποίς (ποδ-), foot.] One of the thoracie legs of an arthropod.

bænosome (be'nō-sōm), n. [Gr. βαίνειν, go, + σῶμα, body.] The thoracic region of an arthropod. Packard.

Bætyl coin, an ancient coin representing a sacred mete-orite, like those of Eleuthera, Myrina, and other Greek

bætylic (bē-til'ik), a. Of or pertaining to a bætylus or saered meteoric stone.

In the later palace a series of finds Illustrated the 'bætylic' cult of the Double Axe and its associated divinities. A gem showed a female figure — apparently a goddess—bearing this sacred emblem.

Bep. Brit. Ass'n Advancement of Sci. 1902, p. 468.

clay: found near Baddeek, Nova Scotia.

baddeleyite (bad'li-īt), n. [Named after Joseph Baddeley, who brought the first specimen less; useless. [Prov. Eng.]—Baff week, the week

in which no pay is received, fortnightly payment of wages being customary in some parts of Great Britain.—Baff Saturday, the Saturday of baff week.

4. An artificial obstruction (in the form of a board, plate, or cleat placed in the bago (bä'go), n. [Tagalog.] A name in the channel) to the continuous smooth flow of a Philippine Islands of Gnetum Gnemon, an everliquid or gas. It is used for the purpose of producing a thorough mixture of the flowing medium, or of checking its velocity, or of detaining solid matters transported or propelled by the flowing medium.

baffle-block (baf'l-blok), n. A thick piece of metal, sometimes hollow, used to baffle, or deflect, gases in a furnace.

baffle-ring (baf'l-ring), n. A ring placed in a bearing to prevent leakage.
baffle-tank (baf'l-tangk), n. A tank in which baffles, or cross-partitions, are placed to check the flow of a liquid or vapor through the tank. baffle-tube (baf'l-tub), n. A tube placed in the path of the hot gases from a furnace, to deflect them and make them take a more cireuitous path, so as to retard their passage out of the tubes until all heat has been given off.

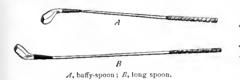
baffling (baf'ling), n. An arrangement or system of partitions, plates, or rings whereby a tendency to motion in an undesired direction

is prevented. See baffe-plate, *baffe-ring.

baffy (baf'i), n. [baff² + -y².] Same as

*baffy-spoon.

baffy-spoon (baf'i-spon), n. A wooden club



with a short shaft and very much lofted in the face, used in golf for playing approaches. iag, n. 13. In base-ball, a base-bag.—14.

bag1, n. 13. In base-ball, a base-bag.—14. A swelling on a boiler-plate. It is frequently found in wrought-iron boiler-plates, and is due to the presence of cinder inside the plate, which causes that part of the plate which is exposed to the heat to expand more than the side next to the water and to separate from it.
15. In leather-manuf., fullness in the middle

of a skin, which prevents it from lying out flat and smooth. It is more marked in large

flat and smooth. It is more marked in large skins.—Barnes's bag, an hourglass-shaped rubber bag employed in dilating the os netri.—Faraday's electric bag, an instrument devised by Faraday to show that a charge of static electricity is distributed on the exterior surface of bodies. A metsl ring on an insulated support has a gauze bag fitted to it. After electrification by use of a proof-plane, it may be shown that the charge is on the exterior, for when the bag is drawn inside out by pulling the silk strings the charge will still be found on the exterior.—Politzer bag, a rubber rior.—Politzer bag, a rubber bulb with a tube attached, used to force open the Eustachian tube in cases of catarrhal clos-See politzerize.



bag¹, v. t.—To bag a brace, in cricket, said (humorously) of a batsman when he fails to acore a rnn in either of hia two innings. [Colloq.] Hutchinson, Cricket, p. 322. bagatel, n. A simplified spelling of bagatelle, bagatelle, n. 3. Specifically, in music, a short coll light rises, repully for the pigno.

bagatelle, n. 3. Specifically, in music, a short and light piece, usually for the piano. bag-filler, n. 2. In milling, a machine for filling paper bags or cloth sacks with flour, bran, meal, etc. One form consists of a short conveyer, operated by hand, for drawing a fixed quantity of flour from a hopper and loading it in the bag. In other forms the empty bag is placed in a machine, where it is firmly held and raised to a filling-cylinder by which a fixed quantity of flour is placed in it, the filled bag or sack being released and removed by hand.

baggage-room (bag'āj-röm), n. 1. A room at a railway-station, steamship-pier, or the like, where baggage is received, registered, dated, ehecked, etc.-2. A room where baggage may be left until called for, a receipt or number

being given. [U. S. in both senses.]

baggatiway (ba-gat'i-wā), n. [Ojibwa pagaadove, to play ball.] The game of lacrosse.

J. M. Cooley, Michigan, p. 61.

Baggy group. See *group1.

bagio, baguio (ba'gi-ō. bā-gē'ō), n. [Sp. baquio, (Tagalog, Bisaya, Pampanga, etc., bagio,
Rocan bagguio, a tempest.] In the Philippine Baillarger's layer-line. See *line2.

Baillarger's layer-line. See *line2.

Baillarger's layer-line. See *line2.

baiochetto (bā-yō-ket'ō), n. [It., dim. of baioceo: see baiocoo.] A small silver coin of the Farnesi, dukes of Castro, in the sixteenth cantury.

shrub or small tree with jointed, knotty branches, opposite leaves, and catkin-like inflorescence. The bark yields cordage; the seeds are roasted and eaten by the natives, and the young leaves are cooked and eaten like spinach. Also called nabo.

bag-rack (bag'rak), n. A rack attached to the side or bulkheads of a ship to support the bags

bagrada-bug (ba-grā'dā-bug), n. [N1. bagrada]

(Stāl, 1862), from a native name?] A pentatomid bug, Bagrada hilaris, common in South
Africa, where it damages cabbage and cauliflower just as does the allied badrain and bakam (bā'kām). n. [E. Indian.] flower just as does the allied harlequin cabbage-bug (Murgantia histrionica) in the United States.

bagre (bä'grā), n. [Sp., Pg.] A sea-catfish, a species of Tuchysurus or of a related genus.

[Spanish America.]

bagsang (bag'sang), n. [Bisaya bágsang.] A name in the Philippine Islands of the starchy pith of several palms, especially that of Caryota Rumphiana. The pith yields a kind of sago which is highly nutritious, and which is eaten by the natives either in the form of gruel or as a substitute for rice. baguet, u. 2. In cytol., a rod-shaped mass of

chromatin in the nuclear division of some Infusoria

baguilumban (bä-gē-löm'ban), n. Same as

*balokanag.
baguio, u. See *bagio.

bag-worm, n.—Abbot's bag-worm, the case-bearing larva of a psychid moth, Oiketicus abbotii (Grote), occurring in the aouthern United States. See Psychidæ.—

ouince bag-worm, the larva of Thyridopteryx ephemeræ-formis. See bug-worm.

bahag (bä'lag), n. [Tagalog and Bisaya.] A loin-cloth worn by the natives of the Philippine Islands.

Bahama lancelet. See *laneelet.
bahawdry (ba-hâ'dri), n. [Also bahaudry, bahadry, < Hind. bahāduri. ad]., < bahādur, bahadur.] The star pagoda in Mysore. See hadur.] The star pagoda in Mysore. See pagoda, 3. bahawdur (ba-hâ'dör). n. Same as bahadur.

Bahian group. See *group1. baho (ba'hō), n. [Hopi baho, paho.] Same as

[Yiddish bocher, Heb. bahur, pl. bahurim (bü-chö'rēm).
[Yiddish bocher, Heb. bahūr, pl. bahūrim, \(bahar, \choose, \select. \]

1. In biblical Hebrew, a young man. Gesenius .- 2. In modern use (since the fourteenth century), a student of the Talmud in a rabbinical college (yeshiba), espeeially now in Russia and Poland.

baia (bī'ā), n. [Said to be Siamese.] A moneyshell, as a cowry.

baidarki, n. See bidarkec. Baiera (bi'e-rä), n. [NL. (Friedrich Braun, 1843), named in honor of Johann Jacob Baier (1677 - 1735), an eminent man of science.] See Jeannaulia.

Jeanpaulia.

bail?, n. 7. In Canadian law, a demise of realty.

Bail court. See *court.—Bail emphyteotique, a lease for a long term, with right to renew indefinitely, practically amounting to an absolute conveyance.—Commonbail. (a)Seebail?, 3. (b) In practice, the formal entering of flettitous bail when special bail is not required. It is intended merely to express the appearance of a defendant.

bail³, v. II. intrans. To halt or surrender when "bailed up" or "held up" by a highway-

man. [Australia.]

Bailable process, an attachment requiring the arrest of a defendant, and his release upon giving to the officer of the court to whom the attachment is directed sultable bail

for his appearance.

bail-drive (bāl'drīv), n. A universal-joint drīve; a Hooke's gearing.

bailer³ (bā'le'n), n. [bails', n., + -cr¹.] In ericket, a ball that strikes the bails: usually applied to a ball that strikes the bails after pitching. bail-former (bal'fôr"mer), n. A wire-entting and shaping machine for making bails.

bailiff, n.—Water-bailiff. (b) In English port towns, an officer appointed to search ships. (c) In London, an officer who supervises the inspection of fish brought into

J. M. Cooley, Michigan, p. of.

bagging¹, n.—Cotton bagging, a jute fabric of very
coarse texture for balling cotton: same as gunny bagging.

Baggy group. See *group1.

bagio. baguio (bä'gi-ō. bä-gē'ō), n. [Sp. baering-net used in lifting live fish out of a trap

of a village, destroying the bread-fruit and cocount crops, proofing the trees or stripping them of their leaves, so that it takes them a long time to recover.

Plant World, May, 1903, p. 100.

Plant World, May, 1903, p. 100.

A genus of American scianoid fishes, including the made moiselle, or silver-croaker, B. chry-Gill

bait-bug (bāt'bug), n. A small burrowing crustacean, Hippa talpoidea, found on the Atlantic coast of North America.

baiz, n. A simplified spelling of baize.

bajara (ba-yä'rä), n. A form of pump çr
water-lift used for irrigation purposes. It comprises a large vertical wheel carrying on its circumference a chain of water-buckets and driven by rough gear-

bakam (bū'kām). n. [E. Indian.] A name applied in the East Indies to Bianewa Sappan, the sapan-wood of commerce. See supanwood. Alse called bookum and bukkum-wood. bakauan, n. See *bucauan. Baker's leg or knee, knock-knee.—Bakers' sponge test. See *test.

bakerite (bā'ker-īt), n. [Named after R. C. Baker, a director of the mining company.] A hydrated calcium borosilicate occurring in massive white forms at the borax-mines in San Bernardino county, California.

Bakewellia (bāk-wel'i-ā), n. [Bakewell, a mar-ket-town in Derbyshire.] A genus of extinct Peruidæ, having elongate-alate shells with a multivincular ligament and denticulations under the beaks. It occurs in the Permian formation. Also written Bakevellia.

baking-paper (bā'king-pā"pèr), n. In cooking, a thin sheet of asbestos fabric or felt, used to a thin sheet of aspesies faure or ren, used to control the baking of bread or cake. When the bread or cake is sufficiently browned in the oven, the paper is faid over it, effectually shutting off excess of heat and preventing scerching or burning.

heat and preventing scerching or burning. **baking-powder**, n. The baking-powders in use in the United States belong virtually to the following classes: (a) bicarbonate of soda with cream of tartar; (b) acid calcium phosphate; (c) dry soda-alum; (d) both acid calcium phosphate and dry soda-alum; (d) both acid calcium phosphate and dry soda-alum; (d) both acid calcium prosported moisture from the air and prevent premature loss of carbon-dioxid gas.

baking-soda (bā'king-sō"dä), n. Sodium acid carbonate or bicarbonate of soda, NaHCO3.

Baktrian, a. and n. See Bactrian.
bakuin (bak'ö-in), n. [Rnss. *bakuinŭ, <
Baku in Transcaucasia, a great petroleum center.] A Russian mineral lubricating-eil having a high viscosity and low cold test. Compare *bakurin. Thorpe, Diet. Applied Compare *bal Chem., I. 263.

bakuol (ba-kō'ol), n. [Russ. *bakuolŭ, appar. ⟨ Baku (see *bakuin) + L. ol(eum), oil.] A
name given by Mendeléeff to an illuminatingoil made by mixing oils of different specific gravities and of different flashing-points.

bakurin (bak'6-rin), n. [Baku (see *bakuin) + -r-+ -in².] A lubricating-oil made by mixing 100 parts crude Baku oil, 25 parts caster-oil, and 60-70 parts sulphuric acid of 66° Bé., followed by washing with water and sodium hydroxid. Thorpe, Dict. Applied Chem., I.

Bala group. See *group1.
balaad (ba-läd'), n. [Given as Somali, but perhaps representing Ar. bilåd, country.] A native name in Somaliland for a small tabanid fly resembling Hamatopota, which bites camels, Proc. Zool, sometimes causing their death. Soc. London, 1900, I. 9.

balænoid (ba-le'neid), a. [L. balæna, a whale, + -oid.]
1. Resembling or pertaining to a whale; whale-like.—2. Pertaining to the genus Balæna.

n. Same as balafo. See also balafong, *marimba.

balagan(bal-a-gan'), n. [Siberian.] A thatched pyramidal wooden hut of eastern Siberia, raised on piles to a height of about 10 feet, and reached by a ladder consisting of a notched tree-stem.

The little village of Karaga consists of seventeen straggling balagans, six yerts and one small tent.

Geog. Jour. (R. G. S.), XII. 285.

n. 14. In engines, a condition in balance, n. 14. In engines, a condition in which the forces at play due to the masses of the moving mechanism are balanced by ethers which operate in a contrary sense, so that the engine has no tendency to lift or slide upon its foundation, but would run without jar even if not secured to such foundation. Balance is of great importance in locomotive and motor-car engines, since, from the nature of their service, the bed-plates

balance
or frames of these machines cannot be fastened to the ground.—Automatic balance, a weighing-machine which automatically cuts off the material being placed upon it when a fixed amount is in the weighing pan.—Inertia balance, an instrument which, by means of oscillations controlled by adjustable weights, enables moments of inertia to be determined without the use of stop-watches.—Jolly's balance, a delicate spiral spring of clastic brass wire, intended chiefly for determining the specific gravity of small fragments of minerals.—Kelvin's ampere-balance, an apparatus for measuring the strength of an electric current in absolute terms by balancing its attracting force against a weight.—Mohr's specific-gravity balance, a convenient form of balance suited to the determination of the specific gravity of both solids and liquids. A rider on the graduated arm is used instead of the smaller weights.—Plattner's balance, a small assay-balance so constructed as to be easily taken apart and packed in a small box for safe transportation; used in rough mining regions.—Quartz-thread gravity-balance, an instrument, devised by Threlfall and Pollock, for statically measuring variations in gravity. It consists of a quartz thread 30.5 cm. long and .0038 cm. in diameter, held rigidly at one end and capable of torsion at the other. A gilded brass wire 5.3 cm., a. b. spiral spring; cother. A gilded brass wire 5.3 cm., a. b. spiral spring; its center of gravity is a little on one side of the quartz thread. Twisting the thread brings the wire into a horizontal position is determined. If gravity increases, the movement of the weight of the wire increases and a greater twist is required.—Specific-gravity balance, (b)

Besides the Coulomb torsion-balance, used principally for electric and magnetic measurements, an instrument so named has been made for ordinary weighings, in which the beam turns upon a horizontal wire subject to torsion instead of npon a kinife-edge.—Troemmer's balance, a form of dispensing-scale.—Wheatstone's balance.



instead of upon a knife-edge.—Troemner's balance, a form of dispensing-scale.—Wheatstone's balance. Same as Wheatstone's bridge. See resistance, 3.

balance, v. l.—Balanced ration. See *ration. balance-box (bal'ans-boks), n. A box which counterbalances the load lifted by a balanceerane. It is usually a cast-iron box loaded with small weights or kentledge. Lockwood, Dict. Mech. Eng. Terms.

balance-cylinder (bal'ans-sil"in-der), n. A small steam-cylinder sometimes placed on top of the valve-chest of large vertical engines, so that steam acting on the under side of the piston will relieve the valve-gear of the weight of the valve and valve-rod. A similar eylinder is sometimes used, though rarely, to balance the weight of the engine-piston and piston-rod. Also balancing-cylinder.

balance-lever (bal'ans-lev"er), n. In textilemanuf., a device for controlling the counterfaller of a spinning-mule.

balance-lug (bal'ans-lug), n. Naut., a lug-sail contracted into a narrower compass by rolling

up a portion of the canvas on its yard. balance-rail (bal'ans-rāl), n. In the keyboard of the organ or piano, the rail or raised balate (bā-lā'te), n. [Philippine Sp. balate, strip which earries the pins on which the keys (Tagalog balat, skin, hide.] A sea-cucumber, are balanced and operated. See cut under dried and smoked, eaten as a relish; trepang. pianoforte.

balance-reef (bal'ans-ref), r. t. To close-reef; take in all the reefs.

balance-rope (bal'ans-rop), n. In mining, a rope hung under the cage in a shaft to connterbalance the weight of the winding-rope. Barrowman, Gloss.

balance-rudder, n.—Compound balance-rudder, a type of balance-rudder, formerly used in some warships, in which the forward part could be locked in a fore-and-aft line when under sail, but the whole used as an ordinary balance-rudder when stamning.—Twim balance-rudders, a special arrangement of radders for terpedo-boats, devised by Thorneyeroft. There is a balance-rudder on each side of the serew, hollowed out toward the screw, thus forming a sort of tunnel in which the screw recolves. the screw revolves.

balancing-cylinder (bal'an-sing-sil"in-der), n. Same as *balance-cylinder.

balancing-lever (bal'an-sing-lev"er), n. Same

as equalizing-bar (which see, under bar1). balancing-machine (bal'an-sing-ma-shēn"), n. A machine for finding and correcting any variation in the weight of different parts of a pulley-machine knife or cutter and causing it to run true at high speed.—Knife-balancing machine, a scale-balance for testing the distribution of weight in machine-knives and rotary cutters. Unevenbale³, n.—Commercial bale, a bale of certain form and

ness in the distribution of weight in a knife is found by weighing it in different positions in the seale, and is corrected by filing the heavy portions until, after repeated tests, it is exactly uniform in weight in all positions. Knives used in pairs are tested until they balance in all the positions in which they will be placed in the cutterhead of a wood-working machine.—Rotary balancing-machine, a machine for testing pulleys by causing them to revolve in a horizontal plane, any variations in the rotation caused by unequal distribution of weight being indicated by the machine. Weights may then be added to the pulley in such positions as to cause it to run true in the balancing-machine.

balancing-organ (bal 'an-sing-or "gan), n. Same as balancer, 5. Rep. Brit. Ass'n Advancement of Sci., 1901, p. 695.

balancing-way (bal'an-sing-wa"), n. A device for finding any want of balance in a wheel or arbor by suspending it upon carefully adjusted arbor by suspending it upon carefully adjusted supports, or ways, and causing it to revolve. When it comes to rest the heavy side is downward, show-ing a want of balance at that place, and this is corrected by filing that point or adding weight at opposite points.

balaneutics (bal-a-nu tiks), n. [Gr. βαλανεντική, fem. of βαλανεντικός, \langle βαλανείτεν, attend at the bath, \langle βαλανείον, a bath: see balneum.] The science of administering baths; balneology.

balangay (bä-län-gī'), n. See *barangay, balanophoraceous (bal"a-nō-tō-rā'shius), a. [NL., Balanophoracex + -ous.] Having the characters of or belonging to the Balanophoracen.

balanoposthitis (bal " a - no - pos - thī ' tis), n. [NL., \langle Gr. β á λ a ν oc, acorn (glans), $+\pi$ $\delta\sigma\theta\eta$, penis, +-itis.] Inflammation of the prepuce and glans penis.

Balantidium (bal-an-tid'i-um), n. [NL. (Claparède and Lachmann, 1858), ζ Gr. βαλαν-(Ciaparede and Lacinnann, 1000), NOL. μαλωτίδου, dim. of βαλλάντων, βαλάντων, a bag, pouch.] A genus of heterotriehous ciliate Infusoria, of the family Bursarina, having a large peristome and well-marked anal aperture. Its species are found in the rectum of batrachians, the large intestine of man, and the cœloma of annelids.

balao¹ (bā-lā-ō¹), n. [Cuban Sp. balao; ef. Sp. balaou, a kind of sprat.] The halfbeak, Hemiramphus brasiliensis. [Cuba.]

balao² (bā'lā-ō), n. [Tagalog.] A name in the Philippine Islands of Dipterocarpus vernicifluus, a forest-tree which yields a fragrant resin called balao balsam or malapako balsam, highly prized by artists as a varnish for

highly prized by artists as a varnish for pictures. See *panao. balarao (bā-lā-rā'ō), n. [Tagalog (whence Pampanga balarao), a dagger, prob. orig. referring to an attached thong; cf. Bisaya balalao, a coil of string or rope, a skein of thread or silk.] In the Philippine Islands, a dagger with a rather broad blade.

balastre, n. See baluster.

balastre, n. See balaster.

balata-gum, n. Almost the entire output of balata-gum is produced in Guiana and Venezuela, and comes into commerce in the form of sheets and blocks. It is usually considered a kind of gutta-percha, but differs from the latter in that it is softer at the ordinary temperature, more clastic, cools more slowly after being hented, and is much more durable when exposed to light and air. Though sometimes used in mixtures with gutta-percha, pure balata-gum has certain uses for which it seems especially adapted, as molds for galvanic purposes, shoesoles, dress-shields, and belts for transmitting power.

balate (bā-lā'te). n. [Philippine Sn. bulgte

balatong (bä-lä-tong'), n. [Tagalog and saya balatong.] A name applied in the Philippinos to Phascolus Mungo, one of the most important food-staples of the natives. See green gram, under gram3.

Balatonian group. See *group1.
balaustre (bä-lä-ös'tre), n. [Sp. balaustra, flower of the wild pomegranate.] The name in Venezuela of the valuable timber-tree Ccn-

Balbach process. See *process.
balboa (bal-bō'ä), n. [Panama Sp. balboa, named for Balbōa, who discovered the Pacific Ocean.] A new gold coin of the republic of Panama, worth \$1 in United States gold: 1, 2½, 5, 10, and 20-dollar balboas are coined. balbus (bal'bns), n. [L., stammering.] A

stammerer. baldface (bâld'fās), n. The widgeon, Anas

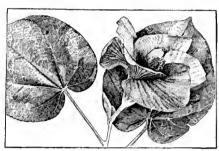
americana. See *baldhead, 4.
baldhead, n. 4. The widgeon, Anas americana: so called from its white head.
baldio (bāl-dē'ō), n. [Sp. baldio, a., untilled, waste.] Waste or common land.

weight, recognized in commercial usage as a legal tender in trade, for example, n cottom-bale rectangular in form and weighing about 500 pounds.—Running bale, any bale just as it is, for example, a cottom-bale as it comes from the press.—Sea-island bale, a marketable package of sca-island cotton, weighing about 390 pounds. bale-band (bāl'band), n. Naut., a big shackle-band iven at the weatherd weight the trade of the scale of the state of the scale of the shaped iron at the masthead, secured to the eap-band, to which the standing part of the flying-jib stay is made fast. bale-breaker (bāl'brā-ker), n. A machine for opening or loosening the hard-packed layers

of a cotton-bale.—Porcupine bale-breaker, a bale-breaker equipped with a rapidly revolving cylinder or beater, consisting of a number of teeth, spikes, or blades, bale-sling (bāl'sling), N. Naut., a simple strap (circle of rope) passed around a bale or bag, the two ends meeting on top, one dipping (pass-

two ends meeting on top, one dipping (passing) through the other. The hook of the hoisting-tackle is slipped into the loop formed by the rope, and when a strain is brought upon the tackle the rope strap tightens about the article hoisted and holds it securely.

Balfouria (bal-fő'ri-ä), n. [NL. (Robert Brown, 1810), named in memory of Sir Andrew Balfour (1630-1694), founder of the Royal Botanical Garden at Edinburgh.] A genus of dicotyledonous plants belouging to the found ledonous plants belonging to the family Apocynaeeæ. See Wrightia. balibago (bä-lē-bā'gō). n. [Tagalog and Bisaya. Cf. Gnam pago, Fijian vau, Samoan fau,



Balibago (Pariti tiliaceum),

Hawaiian hau.] In the Philippines, a tree, Hawahan nau.] In the Fhinppines, a tree, Pariti tiliaceum, widely distributed in the tropies. Its bark yields a valuable bast-fiber from which the natives of Guam and other Pacific islands make cordage. Its wood is very light, and is used for outriggers for canoes, floats for fishing-neta, and for kindling fire by friction. See corkwood and makes, 1.

Salimhing and Salinghing of bailiff.

balin, n. A simplified spening of bality.
balimbing, n. See *balingbing.
balingbing (baling-bing'), n. [Tagalog and
Bisaya balingbing, < Malay bilimbing (belimbing, balimbing): see bilimbi.] A Philippine
name of the tree and fruit bilimbi or bilimbing (which see).

balisier (ba-le-ze-a'), n. [F. balisier, the canna or Indian shot.] Aname in some of the West Indies of several species of banana-like plants of the genus *Bihai*, the flowers of which are protected by large red or yellow bracts which

protected by large red of yellow blacks which give them a very showy appearance. Also called wild banana. See Heliconia.

baliti (bä-lē'tē), n. [Philippine Sp. baliti, balete, < Pampanga baliti.] A name in the Philippine Islands of Ficus Indica and several allied spending wild be a possible of the part of the balit of growth cies having aërial roots and the habit of growth of the banians of India. From the inner bark of

of the banians of India. From the inner bark of some of the species the Negritos prepare bark-cloth similar to the tapa of the Polynesians, which they use for elothing. See banian?

balk¹, n. 9. (c) (2) In England, a beam of a certain size received from the Baltic. The size is stated at 4-8 inches in width, 5-12 inches in thickness, and of any considerable length. The word generally denotes a whole trunk roughly squared and therefore tapering from end to end. (d) Any heavy mass of timber, such as the string-plece of a wooden pier or bridge.

15. In wool-manuf., a fullness and suppleness of texture.—16. The failure of a jumper or vaulter to iump after taking his run. Three

vaulter to jump after taking his run. Three vaulter to jump after taking his run. Three balks usually count as a trial-jump.—Double balk, in billiards (now almost exclusively in the English game), a term used when the incoming striker's ball is in hand and the other two within the string.—To make a balk, in billiards, to force one's own hall and the red (or both reds, in the American game) within the string-line when one's opponent is at hand.

balk¹, v. t.—To balk the crib, in cribbage, to lay out cards for the dealer's crib which are unlikely to match any that he will lay out. Such would be a king and a 9.

balk-lining (bak' [i*ning), n. A system of balk-lines in carom-billiards introduced in 1874 and

lines in carom-billiards introduced in 1874 and later modified. It now consists of eight short lines, two in each corner, intersecting the original continuous line running parallel to and either 14 or 18 inches from each section of the eushion. Thus there are nine panels representing four different areas. Eight of the panels are balks. The central panel, having an area nearly as great as that of all the others combined, is free, and yet is neglected by the best players. Starting at 3 inches, the continuous line has been changed, in public games, to 10, 12, 12, 14, and 18 inches. The only ones now in force are briefly expressed as 14:2, 18:2, and 18:1, the final figures indicating the number of shots allowed on two object-balls in any one balk. Shots are not necessarily counts, and at 18:1 there can be no count at all nuless a balk-ball is sent out, while at 18:2 or 14:2 there cannot be two in succession. Return of the ball to the same halk imposes represents: nenalty

balk-pocket (bak'pok et), n. One of two eorner pockets at the foot of an English and the head of an American billiard-table.

hall! n. 25. In the manufacture of soda by the Leblane process, the batch of pasty material produced by heating together sodium sulphate or salt-eake, caleium earbonate (limestone or chalk), and eoal as discharged from the furnace.—26. In arch., a spherical ornament. Specifically—(a) A sphere cut out of stone and serving as the erowning feature of a gate-post or the like. (b) A hollow sphere of thin metal, made as light as possible and braced with iron bars, setabove a cupola or done. The hall of St. Peter's at Rome is 8 feet in

27. pl. Iron ore occurring in balls or nodules.
Also ball-ironstone. [Scotch.]—Ball-and-socket Also ball-ironstone. [Scoteh.]—Ball-and-socket joint. (b) In geol., a cup-shaped joint produced by the longitudinal contractions of basaltic columns during cooling.—Ball thrust-bearing. Same as *ball-thrust.—Best ball. In games like golf or croquet, where there are three players, the best player matches his acore against the best ball of the other two.—Four-ball match, in golf, a match do which four players engage, two on each side, each playing his own ball, only the best ball on either side counting.—Guilty ball or danger ball, in croquet, the ball to be played against on an opponent's side.—Hanging ball, in golf, a ball which lies on ground that stopes downward in the direction in which the ball is to be driven.—Illegal ball, in baseball, a ball delivered to the batsman by the pitcher when the latter is not in his preseribed position.—Innocent ball, in croquet and similar games, the ball last played.—Leg ball, in cricket, a ball bowled with the proper length oall, in cricket, a ball bowled with the proper length or pitch; a ball bowled with the proper length or pitch; a ball bowled with the proper length or pitch; a ball so pitched as to cause the batsman difficulty in playing it.—Liberia balls and flakes, a tradename for crude india-rubber of good quality brought in large balls from Liberia.—Lined balls, in billiards, balls as much in alinement that the first object cannot be hit for a count without hitting the second slao, such a situation being commonly, though not always, a tic-un. in large balls from Liberia.—Lined balls, in biliarits, balls so much in alliamement that the first object cannot be hit for a count without hitting the second also, such a situation being commonly, though not always, a tie-up.—Lopori balls, a trade-name for a kind of crude indiarubber brought in small balls, black on the outside and white within, from the Kongo region in Africa.—New Guinea balls, a trade-name for a kind of crude indiarubber in strings of small balls, black on the outside and white or pink within, the product of Ficus rigo, imported from New Caledonia.—No ball, in cricket, a ball delivered or bowled unfairly as regards either action or position.—Passed ball, in base-ball, a ball which is delivered by the pitcher within the catcher's reach, but which the catcher fails to hold, so that it goes beyond him and the runner succeeds in gaining a base.—Plain ball, in biliaris, the clear white as distinguished from the spotted white ball. In France (for no good reason) both are clear, with the result that the wrong one is often played with as a cue-ball.—Running ball, in base-ball, foot-ball, golf, taun-bowls, and other games, a rolling ball.—Short ball, in cricket, a ball which pitches too far in front of the balsman to cause him difficulty in playing it; —Short ball, in cricket, a ball which pitches too far in front of the bastman to cause him difficulty in playing it; a ball bowied short of a length. See length shall.—Three-ball match, in golf, a match in which three players play against one another, each with his own ball; or a match in which one plays his ball against the best ball of two others. The latter is usually referred to as a best-ball match.—To break the balls. See *btreak.—To smother the ball, in cricket, to play forward with the bat upon the ground, so as to stop the ball soon after it pitches.—Wide ball, in cricket, a ball bowled out of the batsman's reach.

ball3, n. 3. A belt of sand a short distance offshore on which waves break in rough weather. [Local, Eng.]

The sands exposed at low tide were mostly smooth; only in the low between the beach and the "ball" were there weil-preserved tidal sand-ridges.

Geog. Jour. (It. G. S.), XVIII. 183.

3. In music, a term variously applied to melodies for ballads, to extended narrative or dramatic works for a solo voice, oceasionally to concerted choral cantatas, and to instrumental pieces of a melodic character -in the last ease often without obvious rea-

ballahoo (bal-a-hö'), n. [Also ballahou, bulla-hoo; appar. another use of ballahou, W. Ind. name of a schooner: see balluhou.] A garfish. [Australia.]

5. ballast, n. The rough masonry of the interior of a wall, or that laid upon the vanlt; masonry used where weight and solidity are needed. Compare *filling, 7, and *back-filling.

-Ballast fever, formerly, any epidemic disease occurring on board a ship from a tropleal port, supposed to be due to a contagium present in the ballast.—To freshen ballast. See *freshen.

ballast-car (bal'ast-kär), n. In railroading, a gondola- or hopper-car used in conveying, dumping, and distributing gravel, broken stone,

or other ballast along a roadway.

is neglected by the best players. Starting at 8 inches, the ballast-fin (bal'ast-fin), n. A heavy metal extension bolted to the keel of a yacht, designed togive her great stability by earrying the ballast low down. It is on the principle of the fin-keel. ballast-line (bal'ast-lin), n. The water-line of a yessel when she is in ballast.

ballast-loaded (bal'ast-lod"ed), p.a. Said of a vessel when she has nothing but ballast in her hold.

ballast-shovel (bal'ast-shuv"l), n. A shovel employed in handling earth ballast.

ballast-tank (bal'ast-tank), n. In shipbuilding, one of a series of compartments built in a ship, made water-tight, and provided with pipes by means of which it may be filled with water from the sea or pumped out by the ship's pumps. When the tank is filled the water acts as ballast. Such tanks are usually formed in the space between the inner and outer bottoms, though additional ballast tanks are frequently placed elsewhere for special reasons.

In other words, the volume of the ballast-tank is not In other words, the volume of the occuse-case is not cluded in the under-deck tonings; and shipbuilders are it free to choose their methods of constructing the hulls for water-ballast purposes.

White, Manual of Naval Architecture, p. 55.

Ball-bearing axle, an axle with steel balls (held by a box or sheave) which bear upon the axle arm to reduce

ball-clay (bâl'klā). n. A plastie elay used in making pottery. Also known as pipe-clay. ball-dance (bâl'dâns), n. A ceremonial dance

connected with the ball-games of some Indian tribes.

baller (bâ'lèr), n. A workman who charges puddled bars into a balling- or reheating-fur-

ballet², n. 4. The music to which a ballet is danced.—5. In the sixteenth and seventeenth centuries, especially in England, a light gleelike madrigal or part-song, often with a fa-la burden. See fa-la.—6. In the eighteenth century, a series of instrumental dances properly in the same key and usually for stringed instruments; a smite (which see). The dramatic ballet (see def. 2) was the national form of drama in France; it originated in the sixteenth century, and in the seventeenth coalesced with the Italian nunsical drama, giving rise to the early type of French opera.—Ballet of Ballets, the name in the Bishops Bible (1568) of the Song of Songs.

ballet-dancer (bal'ā-dan ser), n. One who dances in a theatrical or operatic ballet. See bullet2, 1.

ballet-girl (bal'ā-gérl), n. A female ballet-

ballet-master (bal'ā-mās"ter), n. The trainer

or director of a ballet. See ballet', n. Same as *bal-

ball-float (bâl'flot), n. A float in the form of a sphere, used either as a valve or for operating a valve. See ball-cock.

ball-furnace (bal'fer nas), n. The reverberatory furnace used in the Leblane process of soda-manufacture. See *bull1, 25. Also called black-ash furnace.

ball-furnaceman (bâl'fer "nās-man), n. workman whose duty it is to turn over and ultimately to discharge the material from a ballînrnaee

ballhooter (bàl'hö-tèr), n. In lumbering, one who rolls logs down a hillside. [U. S.]

ballhornize (bâl'hôrn-iz), v. t.; pret. and pp. ballhornized, ppr. ballhornizing. [G. ballhornisiren, spoil while trying to mend, (Ballhorn, a man's name. "John Ballhorn was a printer at Lubeck, who flourished between the years 1531 and 1599, and who printed, amongst other things, a primer or A B C book, on the last page of which he substituted for the embellishment which was usual at that time, of a cock with spurs, a cock without spurs, but with a couple of eggs beside him; and on the strength of this substitution announced on the title-page 'Amended by John Ballhorn.' The expression has since become proverbial [in Germany]; and ballhornisiren or ver-ballhornen signifies to make unmeaning or useless alterations in anything—to make anything worse, instead of making it better." Gwilt, Review of Designs for Rebuilding the Royal Exchange.] To spoil while professing to mend; make unmeaning or useless alterations in. See the etymol-09 V.

balling1, n. 2. In the manufacture of soda, the firing, working back and forth, and diseharging of the black-ash mixture. See *ball1, 25.—3. In textile-bleaching and -cotoring, the collecting of the material into balls, to the detriment of

the process. It occurs most frequently in loose eotton or wool.—4. In the process of nuclear development, the fusing of two or more nuclei

ball-iron (bâl'ī"ern), n. Concretionary clay ironstone

ironstone.

Ballistic board (milit.), a tablet containing ballistic data so arranged that the allowances and corrections required to moure accurate firing with sect-coast cannon may be quickly determined.—Ballistic fruit, one which projects its seed (or containing-segments) or spores by elasticity; a cataput fruit. Compare *holo-chore.—Ballistic instrument, an instrument measuring an electric impulse by the throw or momentary deflection of the instrument-needle. It differs from an ordinary electric measuring-instrument in having the moving part heavier and not damped.—Ballistic test, a trial of ordinance or armor by firing with projecties. A test of a gun is made by firing it with projecties. A test of an armorplate by firing at it with armor-piercing projectica.

ballistics, n. pl.—Exterior ballistics, that depart-

ballistics, n. pl.—Exterior ballistics, that department of ballistics which treats of the motion of a projectile in the air.—Interior ballistics, that department of ballistics which treats of the motion of a projectile in the

ballistite (ba-lis'tit), n. A smokeless powder containing a large percentage of nitroglycerin: containing a large percentage of nitroglycerin: similar to cordite. It was originally introduced by Nobel, and was one of the earliest forms of smokeless powder. It has been modified as to exact composition and mode of maoufacture, but at present consists of equal parts of nitroglycerin and soluble guncotton, with about one per cent. of diphenylamine. As made for nilitary purposes by the Italian government it is pressed into small threads known as file.

ball-lightning (bâl/līt'ning), n. An electric discharge which appears as a ball of fire descending from the atmosphere to the earth, rolling slowly along the ground or the rigging

rolling slowly along the ground or the rigging of a vessel, and eventually exploding violently, leaving a strong sulphurous or ozone odor: a form of natural atmospheric lightning. Although rare, the reality of this phenomenon is supported by several well-authenticated eases.

ball-machine (bâl'ma-shēn"), n. In candymaking, a machine for cutting and forming a great variety of small candies, such as gooseberries, butter-cups, halls, bonbons, etc. It consists essentially of rolls of a special form adapted to the various shapes of candies, and in large machines is used with a blower for chilling and hardening the candies as fast as they are formed between the rolls and delivered to a traveling-aprop which conveys them through the air-blast from the blower.

ball-mill (bal'mil), n. Same as ball-grinder. ballonnet (bii-lo-na'), n. [F., dim. of bullon, balloon.] A small balloon containing air, balloon.] A small balloon containing air, placed inside a larger balloon containing a gas lighter than air.

To secure rigidity they put an air halloon, or ballonet, inside the gas balloon, and when a cooling cloud or change of temperature contracts the gas, they pump air as needed into the ballonet, which makes the entire bag tight and saug.

P. Lyle, Jr., Smithaonian Rep., 1901, p. 583.

balloon¹, n. 8. In *cricket* and base-ball, a lofty hit which gives a fielder the chance to eatch a batsman out. [Slang.] — 9. In *spin*ning, the convex curve assumed by yarn on a ring-frame.—Registration balloon, exploring balloon, a small balloon to which recording instruments are attached for registering conditions in the upper air.

balloon¹ (ba-lön'), v. [balloon¹, n.] I. trans. To earry up or transport in, or as in, a balloon.

Thy pinions next ballooned me from the schools to cown.

**Colman the Younger*, Broad Grins, vi. 2. To distend with air, gas, or water, as the abdomen in tympanites, or the rectum or

vagina with specially constructed apparatus.

II. To make ascents in a balloon.

When Wise the father tracked the son, ballooning through

the skies, He taught a lesson to the old,—go thou and do like Wise. O. W. Holmes, Meeting of Harvard Alumni.

2. To swell out like a balloon; in ring-spinning, to fly outward centrifugally from the spin-

dle: said of yarn. balloon-cloud (ba-lön'kloud), n. eumulus or alto-eumulus eloud upon which the sun is shining so that the top warms and rises rapidly, while the eooler bottom follows slowly, the whole cloud assuming the form of a rising balloon, until it reaches some upper level where it overflows and forms a thin stratum of false cirrus, alto-stratus, or analogous eloud.

balloon-foresail (ba-lön "för 'sāl), n. See

*foresail. balloon-guard (ba-lön'gärd), n. A device for keeping the yarns on a ring-spinning frame from interfering with one another during the process of spinning.

balloonine (ba-lön'in), n. [After F. *ballonine, balokanag (bü'lō-kä-nāg'), n. [Pampanga \(\balon \) balloon \(+ \text{-inc'}. \] A varnish intended to balucanag.] A name in the Philippine Islands render the silk of balloons impervious to gas. of Aleurites saponaria, a tree allied to the It is made by dissolving india-rubber in a mixture of benzin and carbon disulphid. Sci. Amer. Sup., Oct. 10, 1903, p. 23221.

ballooning, n. 3. In a steam-boiler, the lift-ing of seum on the surface of the water oy the liberation of steam from it. Newnes, Tech.

and Sci. Diet.

balloon-kite (ba-lön'kit), n. A combination of the balloon and the kite, first designed for meteorological research, but subsequently modified in an entirely novel way for military purposes and used in the German army. In this construction the balloon, consisting of a cylindrical gas-bag about so feet long and 20 feet wide, and provided with interior and exterior air-sacks, is held captive by a cable so that it is inclined to the ground and the wind like a kite. The buoyancy is sufficient to carry an observer up to a height of 200 or 300 feet, so that he may overlook the surrounding country. See *kite-balloon.

balloon-rail (ba-lön'râl), n. The support for the balloon-guards on a ring-spinning frame. ball-ore (ballor), n. Irou ore (limonite or siderite) occurring in layers of more or less closely

united nodules. [Local, U.S.] Ballostoma (bal-os'tō-mä), u. pl. [NL.] A suborder of minute fossil thysanuran insects found in the Florissant shales of Colorado.

found in the Florissant shales of Colorado.

ballot', n.—Australian ballot, a system of balloting of which the principal features are the placing of the names of all the candidates on each ballot, the printing of the ballots by the government, the arrangement and control of the polling-places, and devices for securing secrecy in marking and casting the ballots. The system, with numerous variations, has been extensively adopted in the United States.—Ballot Act. Same as Reform Bill(which see, in the Cyclopedia of Names).—Blanketballot, a ballot containing the names of all candidates for public office to be voted for at a specified election. It is voted by each elector, whose choice is indicated by certain precise methods prescribed by law. In the United States it has been adopted in various States to prevent fraud by insuring secrecy as to the candidate chosen by the elector.—Letter-ballot, a ballot sent by mail to be voted for a candidate for office. Trustees of institutions and officers of private corporations may often institutions and officers of private corporations may often be voted for by letter-ballot.

ballotage (bä-lo-täzh'), n. [F.] The French custom of casting a second ballot to elect one of two candidates who have come nearest to a

legal majority

balloting-machine (bal'ot-ing-ma-shēn"), n. Same as *voting-machine.

Dallottement, n. It consists of palpation, to determine the presence of a movable body in the abdomen, auch as a child in the womb, a floating kidney, etc., by a suddien tap with the finger from below; this forces the body upward, and it can be felt again as it settles down upon the tip of the finger. Also called repercussion. ballottement, n.

ball-planting (bal'plan"ting), u. A method of transplanting trees with balls or lumps of

earth around the roots.

ball-point (bal'point), n. An attachment to a compass or pair of dividers, fitted to one leg to form a seat over a hole when a circle is to be described about the hole.

ball-race (bâl'rās), n. The cup, track, or groove in which the balls of a ball-bearing run.

groove in which the balls of a ball-pearing run.

Elect. World and Engin., Dec. 5, 1903, p. 931.

ball-rubber (bal'rub"er), n. The trade-namo of crude india-rubber in the form of large balls

Baltimore heater, shilling. See *heater, *shilling.—Baltimore penny under compare bals am-apple. It is superior in quality to the best Para rub-

ball-thrombus (bâl'throm/bus), n. A bloodclot of spherical shape which forms in the beart before death.

ball-thrust (bal'thrust), n. A ball-bearing arranged to take the end-thrust of a shaft. Jour. Brit. Inst. of Electr. Engineers, 1902-1903, p. 937.

Ball-turning lathe. See *lathe1.

ball-warping (bal'war"ping), n. A method, formerly practised in textile-mills, of winding from a reel into a round package a series of warp-threads for the subsequent forming of the web for weaving: introduced about 1760.

ballyrag (bal'i-rag), v. t. Same as bullyrag. balm, n.—Copalm balm. Same as copal or copalm balsam. See Liquidambar and balsam.

Balmain's paint. See *paint.
Balmer's law. See *law!.
balmoral, n. 2. A Scotch cap, originally of wool. [Not in use in U. S.]

balnearium (bal-nē-ā'ri-nm), n.; pl. balnearia (a) A small or private bath-room; a room with a small bath. (b) That part of a great bathing establishment which was devoted to the smaller

candleberry and the tung-tree. The nuts yield oil which is atilized in making the soap commonly found in the markets of Manila and other towns. Also

found in the markets of Manila and other towns. Also called balokanad and baguilumban. **Baloskion** (ba-los'ki-on), n. [NL. (Rafinesque, 1836), with the ascribed meaning 'ball rush,' in allusion to the spherical flowers, probably \(\int \text{Gr. } \beta \text{\text{Balokeriv}}, \text{ throw, } + \sigma \text{\text{colvoc}}, A genus of monocotyledonous plants, type of the family Baloskionaceæ. See Restio.

Baloskionaceæ (ba-los#ki-ō-nā'sē-ē), n. pl. [Nl. (Wight, 1905), \ Balaskion + -aeee.] A family of monocotyledonous plants of the order Xyridales, the cord-leaf family, typified

by the genus Baloskion. See Restiaceæ.

balsa, n. 3. On Lake Titicaca, an aboriginal flat-bottomed boat or canoe, sometimes ca-pable of conveying as many as 30 persons or a pable of conveying as many as a persons or a dozen donkeys. It is made of bundles of the totora reed tied together. While the balsa is a very rude and clumsy craft, incapable of speed, it has the advantage of keeping afloat in any circumstances. When small it is propelled by a sail made of the same material; for coasting and as a ferry, poles, an occasional oar, and paddles are used. The Aymará call it yampu.

are used. The Aymará call it yampu.

balsam, n.—Balao balsam. See ★balao.—Balsam of fir. Same as Canada balsam.—Balsam of Gilead.

Same as balm of Gilead.—Black balsam. Same as balsam of Peru.—Carpathian balsam, a colorless oleoresin with a pleasant odor and an acrid flavor, derived from the European Pinus Cembra. See stonepine (b), under pinel.—Friars balsam. See friar.—pine (b), under pinel.—Priars Dalsam. See friar. to Abies Fraseri, the she-balsam. Hungarian balsam. to shies Fraseri, the she balsam.—Hungarian balsam. See Hungarian.—Lagam balsam. See lagam-balsam.—Malapaho balsam. See *balaa.—Sonsonate balsam. Same as balsam. See *balaa.—Sonsonate balsam. Same as balsam of Peru: so called from the region in Salvador from which it is sent to market.—Sweet balsam. Same as balsam.-weed.—Tamacoari balsam, a balsam, serived from the heart-wood of Caraipa fasciculata, used as a remedy for parasitic skin diseases. See *tamacoari.—Turlington's balsam. See benzoin.—Umiri balsam, the fragnant yellow halsam yielded by the uniid. See *Hunniri.—West-Indian balsam, the gum-resin obtained from any one of several species of the genus Cluvia, especially C. multiylora.—White balsam. Same as sweet *balsam.

Balsamea (bal-sam'ē-ā), n. [NL. (Gleditsch, 1782), < L. balsameus, of balsam, < Gr. βάλσαμον, balsam-tree.] A genus of dicotyledonous plants, type of the family Balsamcaceæ. Commiphora.

Balsameaceæ (bal-sam-ē-ā'sē-ē), n. pl. [NL. (Dumortier, 1829), < Balsamea + -aeeæ.] A family of dicotyledonous choripetalous plants of the order *Geraniales*, typified by the genus *Balsamea*, and characterized mainly by regular 5-merous unisexual flowers and 2-5-seeded lar 5-merous unisexual nowers and 2-5-seeded drupes. They are woody plants of the tropics, yleiding important commercial products. The family contains 19 genera and about \$20 species. See Bosnellia, Burseraceae, Canarium, Commiphora and Protium.

balsamina, n. 2. A name in Guam and the Philippine Islands of Momordica Charantia and Momordica Balsamina. See *amargosa

and *balsam-pear.

balsam-pear (bâl'sam-pãr), n. The orange-colored warty fruit of Momordica Charantia, of the gourd family. See Momordica and

baltimore (bâl'ti-mōr), n. [Prob. with reference to the coloring of the Baltimore oriole]. In entom., an American nymphalid butterfly, Euphydryas phæton. It has black wings margined with rows of roddish and pale-yellow spots. It occurs in the eastern United States, and its larvæ feed on the anakehead (Chelone) and other plants. Comstock, How to Know the Butterflies, Index, p. 125.

balu² (bä'lö), n. See *bhalu.

baluster-column (bal'us-ter-kel"um), n. small column, especially one not of the recognized orders and in a subordinate position, as in the thickness of a wall or when used to divide windows or the like: a common feature of early medieval architecture.

of early medieval architecture.

Bally's pump. See *pumpl.

bamban (bām-bān'), n. [Tagalog.] A name in the Philippine Islands of Donax Arunda
strum a plant belonging to the Marantacee.

*disease.

banana-fish (ba-nan'ä-fish), n. 1. A species of goby, Awaous taiasica, found in West Indian rivers.—2. Same as ten-pounder, 3. strum, a plant belonging to the Marantaceæ. In the Philippines this plant is of little economic importance, but in Bengal its split stems are used for making awnings and mats of the finest quality.

Bamberger's pulse. See *pulse¹.
Bamboo fiber, spilced stems of the hamboo ahout ½ inch in width and 6-7 inches in length.—Blowpipe bamboo a tall bamboo-like grass, Arthrostylidium Schomburght., of northern South America. It attains a height of £0-60 feet and a diameter of 1½ inches. The lower part of the stem for 15 or 16 feet has no joints and forms a continuous amooth hollow tube. It is used by the Indians of

the Orinoco and the Amazon as a blowpipe or blow-gun called by them sarbacane. See blow-gun and sarbacane.—Female bamboo, the large bamboo of Bengal and Assam, Bambos Balcooa, with stema 50-70 feet high. It is used chiefly for building purposes.—Male bamboo, the name in India of Dendrocalamus strictus, which is widely distributed throughout India, attaining a height of 100 feet or more. Its stems are strong, elastic, and nearly solid, and on account of their size it is one of the most useful bamboos. It is used like the ordinary bamboo, especially for walking-sticks, spear- and lance-statts, and for fencing.—Spiny bamboo, a name in India and the Philippine Islands of Bambos Bambos (Arvado Bambos of Linnaeus, Bambos arundinacea of Persoon), a large bamboo arnued with recurved spines. It is much used in construction, and sections of its hollow stems serve as water-vessels. The seeds are eaten by the Cingalese.—Thorny bamboo of India. Same as sping *bamboo.bamboo-brier, n. 2. In the southern United the Orinoco and the Amazon as a blowpipe or blow-gun

bamboo-brier, n. 2. In the southern United States, Smilax Bona-nox and other prickly species of Smilax. See *stretchberry.

bamboo-grass (bam-bö'gras), n. A cane-like Australian grass, Panicularia ramigera, largely used for thatching purposes. Cattle eat the young shoots freely. Another grass, Stipa micrantha, is also called by this name. See bamboo, 1 (c).

bamboo-pheasant (bam - bö'fez "ant), n. general name for pheasants of the genus Bambusicola, found in India and China.

Bambos (bam'bos), n. [NL. (Retzius, 1789), from the East-Indian name: see bamboo.] genus of monocotyledonous plants of the family Poacex. See Bambusa.

bamburo (bam-bö'rő), n. wild bee of Ceylon, either Apis indica or A. dorsata, whose honey is collected in large quantities by the natives. Kirby and Spence, Entomology, p. 187.

ban^I (ban), n.; pl. bani (ba'ni). [Rumanian.] A Rumanian coin and money of account: its

value is that of the French centime.

banaba (bä-nä-bä'), n. [Tagalog.] A name in the Philippine Islands of a valuable timbertree, Lagerstramia speciosa, with large showy rose-purple or red flowers and strong, tough, rose-purple or red nowers and strong, lough, durable wood. Two varieties are recognized, one (banaba colorada), of a deep-red color, used in boat-building on account of its durability under water, and the other (banaba blanca), of lighter color and coarser grain, used in ordinary construction. See Lagerstrennia.

banago (bā-nā'gō), n. [Bisaya banago.] A name in the Philippine Islands of two times the construction of the co

ber-trees: (a) Thespesia populnea, belonging to the mallow family, called Polynesian rosewood and milo in Polynesia; and (b) Cordia subcordata, belonging to the borage family, called tou or kou in Polynesia. Though of not much economic importance in the Philippine Islands, these woods are highly valued by the Hawaiians, who make polished bowls of them for holding their food. See *milo, *kou, Thespesia, and Cordia.

banaibanai (bä-ni/bä-ni/), n. saya banay banay.] A name in the Philippine Islands of several species of Radermachera belonging to the trumpet-creeper family, having opposite pinnate or bipinnate leaves, bellshaped flowers, and membranous-winged seeds inclosed in long slender capsules. Radermachera Banaibanai yields heavy, durable timber of a grayish-brown color. It does not readlly decay underground and is used in constructing posts.

banalo (bä-nä'lō), n. [Philippine Sp.] Same as *banago.

banana, n. 2. The papaw, Asimina triloba. [Arkansas.] Also called false banana. [Illi-[Arkansas.] Also called false banana. [Illinois.]—Abyssinian banana. See Musa.—Banana Iquid or varnish, a solution of celluloid in a mixture of amylacetate and acetone, used as a vehicle for the application of bronze-powders, so called because of the strong banana-like odor of the amylacetate.—Bruce's banana. Same as Abyssinian *banana.—Chinese banana, the dwarf banana, Masa Cavendishii. It produces edible fruit of good quality and endurea more cold than most bananas. It is extensively cultivated in Florida and the West Indies.—Dwarf banana. Same as *banana.2.—Japanese banana, Musa Basjoo, a native of the Liu-kiu Islands, cultivated as an ornamental plant, and grown commercially in southern Japan for its fiber, which resemblea abaca.—Wild banana. Same as *balisier.
banana-disease (ba-nan'ä - di - zēz"), n. See

banana-disease (ba-nan'ä - di - zēz"), n. See

bananaland (ba-nan'ä-land), n. Queensland, where bananas are abundant. [Local, Aus-

tralia 1 bananalander (ba-nan'ä-land"er), n. An inhabitant of Queensland; a Queenslander.

[Local, Australia.] banana-wine (ba-nan'ä-win), n. A drink made of sliced bananas which are covered with

water and allowed to terment.

rocks of the Banat in Austria. The term is now more commonly used in the sense proposed by Brogger, to describe monzonite moderately rich in silica. See *monzomite and *adamelite.

banca (bän'kä), n. [Philippine Spanish banca, Tagalog bangca.] A dugout covered with a roof of bamboo. [Philippine Is.]
banco, n. 2. In baccara, a proposal to play

against the banker for his entire capital at one coup. See baccara.—Skilling banco. See skilling's, banco-daler (băn'kō-ćā'ler), n. A Swedish bank-note issued by the national bank, equal to about 35 United States cents.

bancoul (ban-köl'), n. [A French form of the native name.] The candleberry, Aleurites

Moluccana.

band, n. 6. In bot., the band-like space between the two mericarps of a cremocarp. tween the two mericarps of a cremocarp.—
Amntotic band. See **amniotic.—Anogenital band.
See **anogenital.—Band of proliferation. See **proliferation.—Geneva bands, two white linen bands worn at the neck as part of the clerical garb: originally worn by the Swiss clergy in Geneva. See def. 4.—Germinal band or germ-band, in cytol., a band-or ribbon-shaped portion of the blastoderm from which the body of the embryo arises, especially in insects.—Landoit band, a dark band in the field of view of polarization instruments in which crossed Nicol prisms are employed. It is due to the unequal polarization of different parts of the field. It is used as a sensitive criterion in making polariscopic measurements.—Moderator band, an exaggerated columna carnea which sometimes stretches across the right ventricle in man: it is normal in certain of the lower animals.—Primitive band, in entomological embryol., the first indication of the embryo as a whitish band or streak on the ventral side of the egg. Packard, Text-hook of Entom., p. 531.—Vocal bands. Same as vocal cords (which see, nuder cord!).—Zodiacal band. See *zodiacal.

(which see, under cord).—Zodiacai panu. See Accal.

band³, n.—Chamber band, a group of players who play chamber music, either with stringed instruments only or with these and a few other instruments, such as flutes.—Marine band, a band attached to a naval establishment.—Regimental band. Same as military band.—Street band, an itinerant group of players who play in city streets for such gifts as they can collect from chance listeners.—Town band, in the seventeenth and eighteenth centuries, especially in Germany, a group of instrumentalists organized and supported by the numicipality for service on civic and religious occasions.—String band, wood band or wood-wind band, reed band, wind band, various sections of a concert orchestra, which is often called collectively a band.

banda¹ (ban'dā), n. [? Sp. banda, a band.]

A mother-of-pearl shell found about the Philippine Islands and in adjacent waters.

ippine Islands and in adjacent waters.

banda² (ban'dä), n. [Native name.] In Kamerun, the fruit of Buchholzia coriacea, a shrub of the eaper family. It is green in color, about the size of a walnut, and is used as a medieine for colds.

the size of a walnut, and is used as a medicine for colds.

bandage, n.—Barton's bandage, a bandage so applied as to support the lower jaw in fracture of that part.—Borsch's bandage, a bandage for the eyes which covers the sound as well as the diseased eye.—Capeline bandage, a recurrent bandage applied to the head, or to the stump of a limb after amputation, to retain the dressings.—Circular bandage, a pandage applied by repeated turns round a limb or the head.—Crucial bandage, a smeas T-bandage.—Elastic bandage, a pandage of india-rubber or ether clastic material.—Esmarch bandage, a rubber bandage applied tightly to a limb to expel the blood, the return of the chreatstion being prevented by a rubber cord which constricts the part close to the trank. After this is applied the rubber bandage is removed and an operation can be performed with little loss of blood.—Figure-of-eight bandage, a coller-bandage passed back and forth round two projecting points, crossing midway so as to resemble the figure 8.—Galen's bandage, a square of cloth cut at the sides and folded in such a way as to make a cap enveloping the head.—Many-tailed bandage, a bandage made of a number of strips fastened at one end to a cross-strip and applied so as to overlap.—Plaster bandage, plaster-of-Paris bandage, a bandage of cheese-cloth into which gypsum has been rubbed. It is applied wet, and soon hardens so as to form a splint to the part.—Recurrent bandage, a bandage covering the head, or the stump of an amputated limb, made by passing strips forward and back over the convexity, the folis being held in place by repeated turns of a circular bandage.—Reversed bandage, a bandage in which the strip is made to describe a halturn backward at each revolution round the limb in order to make it he smoothly when encircling the swelling portion of the member.—Silicate bandage, a bandage ingeneral with silicate of sodium and potassium, used like the plaster-of-Paris bandage.—Suspensory bandage. See *suspensory.—Velpeau's bandage, a system of bandaging us

The gumbo-plant or okra (Abelmoschus esculentus), the mueilaginous pods of which are eaten green as a vegetable and are used as a thickening for soup. It is called by the Hindus bhindi. Also written bandikai. See okra.

bandaree (bān-da-rē'), n. [Also bhundaree; Marathi bhandāri.] One of the low-easte native Indians about Bombay who tend cocoanut-palms, gather the nuts, and draw the toddy. [Anglo-Indian.]

banatite, n. In petrog., a name originally pro-bander² (ban'der), n. An apparatus for makposed by Von Cotta (1865) for certain dioritic ing or applying material in the form of bands. bandicoy (ban'di-koi), n. [Tamil rendai-khāi, rendai, Hind. bhendī, the tree.] Same as *bandaka.

[Philippine Spanish band-music (band'mū"zik), n. Music intended for or made by a brass or military band. bandoline, n. 2. A mucilage prepared from

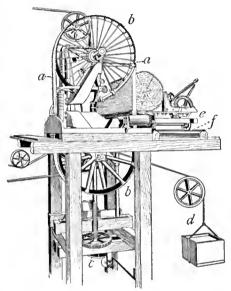
carrageen moss (Chondrus crispus) mixed with

scented spirit: used to stiffen silk goods. bandoline-wood (ban'dō-lin-wud), n. The wood of a lauraceous tree, Machilus Thunbergii, t aftive to China, Formesa, Japan, and Korea. There is a considerable trade in China in chips and shurings of the wood. When soaked in water these yield a muchage which is used by Chinese ladies for stiffening the hair.

bandonion (ban-dō'ni-on), n. [band² + (harm) onium + -on.] A large and elaborate variety of concertina.

band-plant (band'plant), n. See Vinca. band-room (band'röm), n. A store-room on a flag-ship in which the bandsmen keep their instruments and music.

band-saw, n. This power-tool has in recent years become one of the most important used in woodworking. Band-saws range from small machines, employing fine, stender saws in cabinet-work, up to large machines used in sawing logs. They are used in scroll-sawing, as ent-off



Double-cutting Telescopic Band-saw.

a, band-saw with teeth on each edge; b, upper and lower wheels supporting saw and supported by frame having a vertical traverse, shown in the highest position to bring the cutting edge of the saw to the large log; c, gearing controlling sliding saw frame; d, counter balance; log carriage traversing track [/] in two working directions; f, track for carriage. Capacity 50,000 feet of hemlock boards a day.

saws, rlp-saws, and resaws, and in the largest sawnills. The smaller saws are fitted with filting work-tables, and the resaws have feed-rolls to guide the material to the saw. Band-sawmills are supplied with log-carringes and are fitted with all the log-handling machines and tools used in first-class sawnills. In all types appliances are provided to secure the proper tension of the saw on the wheels. In sawnills the sim is to bring the log close up to the point where the band leaves the upper wheel, this being the most effective sawing-point. The chief advantage of the band-saw over the circular saw is in economy of material because of the narrow band-saw kerf. band-wagon (band 'wag "on), n. A wagon arranged to accommodate a band of musicians. It is generally large and ormate, with the seats

It is generally large and ornate, with the seats

along the sides. band-wheel, n. 3. The large wooden pulley of a well-boring rig: it is driven by a belt from the engine, and in turn drives the bullwheel, the sand-pump reel, and the working-beam. See oil-derrick.

Banff series. See **series.
bang4 (bang), n. The Cuban sardine, Sardinella pseudohispanica. [Bahama Is.]
banga (bäng-gä'), n. [Tagalog.] Alarge spherical water-jar made of baked elay. [Philippine Is.1

bangalay (bang-al'i), n. [Native Australian.]
The hard, tough, durable timber of the swamp or bastard mahogany, Eucalyptus botryoides. [Sontheastern Australia.]

bangalow (bang'ga·lō), n. [Native Austra-lian.] An ornamental pinnately leaved palm, Ptychosperma cleyans, of northeastern Australia. The tender young terminal bud is eaten either raw or beiled by the natives and sometimes by the colo-

nists. The small stems are called Moreton Bay canes. See Ptychosperma. bangca, n. See *bancu. banger (bang'èr), n. One who er that which

bangs. specifically—(a) Something very large; specially, a lie. [Slang.] (b) Alarge, heavy cane. [Slang.] U.S.] banger-rush (bang/er-rush'), n. A cane-rush, common in colleges, in which two sides struggle for the possession of a cane or banger. banging-iron (bang'ing-i"ern), n. See *crimp-

bangkal (bang-käl'), n. [Bisaya bangcal.] A tree, Narcocephalus cordatus, belonging to the madder family, with globose heads of flowers fused together by their fleshy calyx-tubes, followed by solid fleshy, succulent fruit. The wood, which is yellow, light, and rather soft, is used in the construction of houses and for furniture, tubs, barrels, and small canoes. It is said to stand exposure to the weather. The roots yield a yellow dye. [Philippine 1s.]

bang-tail (bang'tāl), n. A tail which has been banged, or eut horizontally across; also, an banged, or cut norizontary across; also, an animal with a banged or docked tail.— Bangtail muster, a periodical muster or round-up of all the cattle on an Australian station, theoretically for the purpose of having the long hairs at the ends of the tails cut off square. The practical object is to find out the actual number of cattle on the run. [Australian.]

bang-tailed (bang'tāld), a. Having a doeked or banged tail: as, a bang-tailed horse. banig (bā'nig), n. [Tagalog and Bisaya banig.]

A mat; especially, a sleeping-mat. Also pctute.

[Philippine Is.] banilad (bä-nệ-läd'), n. [Bisaya.] A tree, Sterculia urens, with large 5-lobed leaves, which yields a mueilaginous gum resembling tragaeanth. In India a bast-fiber is obtained from the bark and is used for rope-making, and the seeds are some-times reasted and eaten, though they possess cathartic properties. See Steroulia, and Indian tragacanth, under tragacanth. [Philippine Is.]

banister, n. 2. A handle-brush used in spinningand weaving-mills for eleaning the gearing of

machinery.

banjeaurine, n. Same as *banjorine. banjo, n. 3. A form of automatic railway signaling-apparatus in which a flat circular disk, with an arm projecting from one side, is alternately exhibited in front of a glass opening in the signal-box and withdrawn from sight by the make and break of an electric eircuit. The shape of the disk and its arm has suggested the name.

The enclosed disc signal, commonly called a "banjo," is a circular box about 4 feet in diameter, with a glass-covered opening, behind which a red disc is shown to indicate stop.

Encyc. Erit., XXXII. 147.

4. In mining, an iron frame for earrying a false claek. *Barrowman*, Gloss. [Seoteh.] banjore, banjor (ban'jôr), n. An obsolete er dialectal form of banjo. *Thomas Nelson Page*, The Old South.

banjorine (ban-jō-rēn'), n. A variety of banjo, smaller than the usual form and properly higher in pitch. Also written banjeaurine. banjula (bän-jö'lä), n. Same as *vanjula.

bank¹, n. 14. In lumbering. Same as landing, 9.—15. A small pottery. [Eng.]—Bank fisheries, fisheries on submarine banks, especially the Newfoundland Banks.—Bank to bank, in mining, a shift or working day.

bank¹, r. i. 3. To fish on submarine banks, especially the Newfoundland Banks.
bank², n. In lumbering, the logs cut or skidded above the amount required in a day and held over by the saw-erew or skidders, to be re-

ported when the daily quota is not reached. bank-barn (bangk'barn), n. A barn built on a hillside or sloping ground, so that three sides of the lower story are surrounded by earth,

the lower story are surrounded by earth, the fourth being unbanked. Forest and Stream, Feb. 21, 1903 (advt.). [U. S.]

bank-claim (bangk'klām), n. A mining right on the bank of a stream. Coal and Metal Miners' Pocket-book.

bank-engine (bangk'en"jin), n. 1. The engine at the mouth of a mine-shaft. [Eng.]—2. A locomotive employed to assist trains up

inclines. [Eng.]
banker¹, n. 9. One who makes a business of picking up wreekage on the coast. [California]

banket³ (bang'ket), n. [Cape D., appar. a particular use of D. bunket, sweetmeat, confectionery, a feast, banquet, also banquette: see banquet, banquette.] A formation of ore found on the Witwatersrand in the Transvaal, South Africa. It is a conglomerate of water-worn pebbles of translucent quartz set in a matrix composed mainly of oxids of iron and silica. Near the surface the gold occurs almost entirely free in the cement, while at a moderate depth the oxids of iron are gradually replaced by sulphids; but the gold can still be extracted largely by amalgamation.

The oxidized banket ore, however, was not easily amenable to concentration and the percentage of concentrates caught was small. These concentrates were worked in various kinds of amalgamation pans or stored for future treatment. The total gold recovered in those days probably did not amount to more than 60 per cent of the original value of an ore, then going about an onnee to the ton or over.

Electrochemical Industry, June, 1994, p. 215.

bank-fishing (bangk'fish"ing), n. Fishing on submarine banks, especially the Newfound-

banking-game (bang'king-gām), n. Any game banking-game (bang'king-gām), n. Any game banking-game (bang'king-gām), n. Any game plied Science, a degree conferred by some institutions. Also B. A. S.

a bank or private banking-house in which the greater number of the clerks work, and to which the public has access to deposit or to draw money. Hence—2. In any large financial business, as an insurance company, the principal, more public business-room.
[U. S.]

bank-lock (bangk'lok), n. Any form of lock adapted for use on a safe or vault of a bank or

safe-deposit company.

bankman (bangk'man), n. In printing-offices (generally newspaper offices), one who attends to the bank or rack on which standing matter is kept.

Banko pottery. Same as banko-ware.

bank-right (bangk'rīt), n. The right to divert water to a bank-claim. Coal and Metal Miners'

bankside (bangk'sid), n. The shelving or slop-

bankside (bangk sid, n. 1 he shelving or slop-ing bank of a river, brook, or the like. bankul-nut (bangk-ūl-nut'), n. [Malay bangkal, the tree, + E nut.] Same as candleberry, 1.— Bankul-nut oil. Same as kekune-oil: used in the East for lighting and cooking, and exported to Europe for soap-making. See Alcurites, and kekune-oil, under oil.

banner-cloud (ban'er-kloud), n. A cloud which streams horizontally from the summit of a mountain. Sometimes it is produced by snow carried from the surface of the mountain by the wind; at other times it is due to the expansion of the moist air which flows into the discontinuous space in the wind to the leeward of the mountain. It may also be a thin layer of haze caused by the mixture of warm air with the surface of a stream of cold air.

banner-fish (ban'er-fish), n. A scembreid fish, of the genus Istiophorus, found in all warm seas. banner-net (ban'er-net), n. Netting made of strong twine and with a large mesh, used as a support or backing for street banners and

theatrical scenery.

Bannisdale flags. See *flag4.
banquet-ring (bang'kwetring), n. A quaint or exceedingly large, rich, or highly decorated ring, too ornamen-tal for general use, but worn on state occasions. Such rings often extend as far back on the hand as they project on the finger. Also called dinner-

Banquet-ring. banquette, n. 5. An elevated platform made of stones, running along the walls of cliff-dwellings and kivas. [Rarc.]

Broad lateral bonquettes are prominent features in the most complicated caves, and there are many recesses and small closets or cists.

17th An. Rep. Bur. Amer. Ethnol., II. 541.

Banqui rubber. See *rubber. bantam-weight (ban'tam-wat), n. A lightweight boxer.

bantay (ban-tī'), n. [Tagalog and Pampangan bantay, a sentinel.] A person appointed to bantay, a sentinel.] A person appointed to keep watch in a bantayan. [Philippine Is.]

bantayan (ban-ta'yan), n. [Tagalog and Pampangan bantayan, bantay: see *bantay.] An ontlook or station near a village which serves as an armory and as a signal-station. Two ban-tays keep watch in the hantayan and give the alarm in case of danger. The bantaya are inhabitants of the vil-lage. [Philippine Ia.]

Banti's disease. See *disease.

banty (ban'ti), n. and a. [bant(am) + -y².]
I. n.; pl. banties (-tiz). A bantam chicken; hence, a very diminutive, cocky person. [Slang.]

II. a. Saucy; impudent. [Thieves'slang.] banzai (ban-zā'), interj. [Jap. ban-zai, fer *ban-sai, 'ten thousand years': ban, Chinese wan,

ten thousand, a myriad; sai, sei, Chinese sui, ctc., year.] In Japan, a shout of patriotic joy or encouragement: somewhat like the English hurrah. Often used, in English books, as a noun.

A large crowd had assembled on the shore to ace the prize, and she was greeted with loud and oft-repeated banzais.

N. Y. Evening Sun, June 2, 1905.

baphiin (baf'i-in), n. [Baphia (see def.) + -in².] A neutral substance. $C_{12}H_{10}O_4$, extracted by ether from barwood, Baphia nitida. It crystallizes in leaflets.

banking-ground (bang'king-ground), n. Same Baptanodon (bap-tan'ō-don), n. [NL., \langle Gr. as landing, 9. Banking-room (bang'king-röm), n. 1. That don.] A genns of large Jurassic enaliosaurs from the Baptanodon beds of the Rocky Mounfrom the Baptanodon beds of the Rocky Mountain region. These animals attained a length of 8 or 9 feet, and had toothless jaws, orbits of great size, and a conie selerotic ring of 8 plates. The genus is closely allied to Inthhyosaurus. The species is B. discus.—Baptanodon beds, the name given by Marsh to a series of heds of Upper Jurassic age in Colorado, Wyoming, and Montana which contain marine with some lacustrine remains and are characterized by the presence of the sea-saurian Baptanodon discus, from which the formation takes its name. These stratalie on red beds referred to the Triassic and are overlain by the *Allantosaurus beds (which see).

baptigenin (bap-tij'e-nin), n. [bapti(sin) + -qen + -in².] A crystalline compound, C₁₄-H₁₂O₆, formed by the hydrolysis of baptisin. It turus brown at 250° C., without melting.

baptin (bap'tin), n. A crystalline glucoside of undetermined composition contained in the root of wild indige, Baptisia tinctoria.

baptisin (bap'ti-sin), n. [Baptisia (see def.) + -in².] A crystalline non-poisonous glucoside, $C_{26}H_{32}O_{14} + 9H_2O$, found in the North American plant *Baptisia tinctoria*. It melts at 240° C. and gives rhamnese and baptigenin by hydrelysis.

strong in the southwestern United States, which advocates a revival of the old landmark of non-ministerial intercourse between Baptists and pedo-baptists. They refuse to recognize the churches and ministers of the latter and hold their baptism to be invalid.

baptitoxine (bap-ti-tek'sin), n. A colorless crystalline alkaloid, $C_{11}H_{14}ON_2$, contained in the roet of wild indigo, *Baptisia tinctoria*.

Baptosaurus (bap-tō-sâ'rus), n. [NL., ⟨Gr. βαπτειν, dip, + σαῦρος, a lizard.] A genus of mosasaurs described by Marsh from the Cretaceous (Upper Greensand) formation of New Jersey

baquid (ba'kid), n. [Tagalog baquid, a basket for fruit, etc., = Bisaya baquid, a measure for grain, = Îlocan baqui, a basket used as a hen's nest.] In the Philippine Islands, a basket, usually of cane, somewhat eval in shape.

bar¹, n. 8. (b) In England, the space behind the bar, often large enough to form a small office. Also called bar-partor.—18. In anat.: (a) A general term for any of the cranial arches, such as Meckel's cartilage, or the hyoid and branchial arches, which have the form of more or less continuous rods or bars. Less often used for portions of the cranium which have a red-like shape, as the jugal or pesterbital bars. In this sense synenymous with *arcade or arch.-19. In meteor., a long eigar-shaped cloud, generally nearly stationary, but sometimes moving broadside on across the sky; specifically, the stationary cloud to the leeward of the helm-cloud over the Crossfell range in England during easterly winds. -20. The division between the two tables of a backgammon-board on which captured pieces are placed.—21. Specifically, in *violinmaking*, the same as bass-bar.—22. Same as ***pennant-bar.—Bar calculator. See **calculator.—Bar diggings. See **digging.—Bar money. See **money.—Bar of Michelangelo, lu sculp., the projection of the frontal bone at the base of the forehead, called in anatomy the supercitary ridge. It is especially prominent in the heads of Michelangelo's statues and in certain Construction. certain Greek works.

Below this starts the lower forchead swelling above the brow in the 'bar of Michel Angelo,' Certainly this bar is one of the most characteristic features of Scopaic male heads. E. F. Benson, Jour. Hellenic Studies, XV. 199.

Bulb-angle bar. Same as *angle-bulb.—Cape bar, a long yoke used with the Cape cart in South Africa.—Dotted bar, in musical natution, a double bar with two or four data before or after 1t, indicating that a strain or section is to be repeated, the position of the data showing whether it is the preceding or the following section that

bardarism

Is intended. — Galton bar, in psychophys., a flat rod of ebonite or blackened wood, plain upon the face and scaled upon the back, along which slides a light brass clip, carrying in front a tightly stretched white thread. The problem is to set the thread, by moving the clip to and fro, so that it bisects the length of the bar. The error made can be read off from the scale at the back. E. C. Sanford, Exper. Psychol., p. 402. — *Hyold bar, *visceral bar. See the adjectives. —Jugal bar. Same as *mugla arch or zygoma. — Meckelian bar. Same as Meckelian rod (which see, under rod1). — Pentathlon bars. See *pentathlon.

bar 1, r.t.—To bar a bet. (a) In foro, to notify the dealer that a bet does not go for that turn. (b) In any betting transaction, to exclude one of the possibilities: as, to bet 4 to 1, dar one, in a horse-race, meaning that a certain horse is not included.

B. Ar. An abbreviation of Backelor of Architecture, a degree conferred by some institutions.

bar. An abbreviation of barometer.

barabara (bä-ra-bä'rä), n. [Russ. barabora.] A hut of the Aleuts, half underground and covered with soil. Also barrabarra. Jour. Amer. Folk-lore, Jan.-March, 1903, p. 16.

barad (ba-rad'), n. [Gr. $\beta a \rho^{i} c_{i}$, heavy + -ad as in farad.] The unit of pressure in the centimeter-gram-second system, equal to one dyne per square centimeter.

baræsthesiometric, a. Same as *baresthesiometric.

barangay (bä-rän-gī'), n. [Philippine Sp. barangay, < Tagalog and Bisaya balanggay, Pampangan baranggay, Ilocan baranggay.] 1. A kind of boat used by the natives of the Philippine Islands at the time of the conquest. The modern boat of this kind is called barangayan.—2. In the Philippine Islands, the community which, under the Spanish government, formed the constituent element of the

ment, formed the constituent element of the pueblo. The chief of such a group is called cabeza de barangay. Originally it was the name of the independent village communities (which were so called as being expected to equip each one barangay or boat). barangayan (bä-rän-gī-yān'), n. [Philippine Sp.: see barangay.] A light vessel, low in the water, having a deck and a mast: used in the Philippine Islands, particularly in the Bisayan Archipelago and in Mindanao.

barasingha (bä-rä-sing'gä), n. [Hind. bārah singha, twelve horn.] A name applied to two or three species of East Indian deer, such as Cervus wallichi and C. (Rucervus) duvauceli. Proc. Zool. Soc. London, 1903, II. 3.

Barathrodemus (bar-a-throd'e-mus), n. [NL., $\langle \text{Gr. } \beta \acute{a} \rho a \theta \rho o \nu$, pit, $\dot{+}$ (?) $\delta \bar{\eta} \mu o \varsigma$, people.] A genus of deep-sea brotulid fishes.

barauna (bä-rä-ö'nä), n. Same as brauna. The wood and bark are used by the natives in

the preparation of a beautiful red dye. barb¹, v. i. 2. To bend or hook the points of wire teeth in the card-clothing used in carding textile fibers. Nasmith, Cotton Spinning, p. 141.

barbacot (bar'ba-ket), n. [A F. spelling of a native form (Arawak) of (Haitian) barbacoa: see barbecuc, n.] A frame over a fire for drying or cooking meat.

barbacot (bar'ba-ket), v. t.; pret. and pp. barbacoted, barbacotted, ppr. barbacoting; barbacotting. To dry (meat) en a barbacot or frame over a fire.

Barbados earth. See *earth1.
Barbados lily. See *tily.
barbari, n. 2. Also improperly used for baralipton, 1.

barbarian, n. and a. I. n. 7. A member of a barbarian people. See II., 5.

Some of the tribes of America are organized on a somewhat different plan which may be set forth. When they are organized on this new plan we call them barbarians, and thus distinguish them from tribes that are organized on the clanship system.

17th An. Rep. Bur. Amer. Ethnol., I. xxxiii.

II. a. 5. In anthrop., pertaining to a state of society in which descent is reckened in the paternal line, and in which the members of the paternal family of all generations form an exegamous social unit called a gens.

barbarism, n. 5. In anthrop., the conditions of barbarian society. See *barbarian, a., 5.

Second, for the group which is called the clan in savagery there is substituted the gens in barbarism; this group embraces all of those persons who reckon kinship through fathers, so that the father and his brothers and sisters, together with the grandfather and his brothers and sisters, and all other consanguineal kindred back in past generations and forward in future generations are called a gens.

17th An. Rep. Bur. Amer. Ethnol., I. xxxiii.

barbarocracy (bar-ba-rok'-ra-si), n.; pl. barbarocracies (-siz). [Gr. βάρβαρος, foreign, barbarous, + -κρατία, < κρατείν, rule.] Government by barbarians; barbarian rule. Felton. ment by barbarians; barbarian rule. Fetton.

Barbarothea (băr-ba-rō'thē-ā), n. [NL.] (
Gr. $\beta \dot{a} \rho \beta a \rho o c$, barbarian, heathen, + $\theta \dot{c} \dot{a}$, goddess.] A genus of fossil butterflies from the
fresh-water Oligocene Tertiary strata of Flobarbone (băr-bō'ne), n. [lt., ap rissant, Colorado.

barbasco (bär-bäs'ko), n. oarbasco (bär-bäs'kō), n. [Porto Rican Sp., native name.] A name in Porto Rico, Cuba, and other Spanish-speaking countries of a number of shrubs and trees bearing poisonous seeds. It is applied especially to Jacquinia armillaris, the joewood or bracelet-wood of the West Indies, and to species of several genera belonging to the scapberry family, such as Serjania, Paullinia, Magonia, and Harpullia. The seeds, stem-bark, and root-bark of many of these plants are used to poison fish.

barbatimao (bār-bā-tē-mā'ō), n. [Tupi barba-barbudo (bār-bō'dō), n. [Sp.: see barbu.] timāo, corrupted from parova tuūm tamune. Same as *barbu, 3. (Martius).] A small tree of the mimosa family, barbule, n. 4. In bot., the inner row of teeth (Martius).] A small tree of the mimosa family, stryphnodendron adstringens (Acaeia adstringens of Martius), yielding an astringent bark arbulifer (bär-bū'(li-fer), n. [NL., < L. barrich in tannin: used in medicine. [Southern Brazil.]

barbatin (bär'ba-tin), n. [NL. barbata (see def.) + -in².] A crystalline neutral compound,

def.) + -in².] A crystalline neutral compound, see, under barbad¹).

C₉H₁₄O, found in the lichen Usnea barbada barchan (bär-kän'), n. A crescentic sand-dune ceratina. It melts at 209° C.

barchan (bär-kän'), n. A crescentic sand-dune occurring commonly in the deserts of Turkes-

barbean (bär-bō'), n. [F. blen barbean, 'blue-bottle blue.'] A decorative pattern, consisting of small blue flowerets, often seen on French

porcelain. See corn-flower. barbe du capucin (bärb' dü kap-ü-san'). [F., 'Capuchin's beard.'] A winter salad and veg-etable consisting of the young blanched leaves of the common chicory. The roots, with the tops trimmed short, are placed horizontally in a sloping heap between layers of sand or earth in a dark warm place, and the projecting crowns emit tufts of white attenuated leaves. Compare villoof.

barbeiro (bar-ba'ro), n. [Pg.: see barber.] The surgeon-fish or tang, Teuthis hepatus, and

other species. [Portugal.]

bar-bell (băr'bel), n. A bar of steel with a ball of iron at each end, used as a dumb-bell.

barber¹, n. 3. A fish, Cæsioperea rasor, of the family Serranidæ. Also called red perch.

rool-sate, or the like, which is exposed to the weather when the roof is complote, as distinguished from the lap.

barefoot, a. 2. In earp., set up on end without having its foot held in a tenon or soeket, as, in balloon-framing, a post which is held

[Tasmania.]—Barber's itch. See *itch. barber² (bär'bèr), n. [Said to be identical with barber¹, as if alluding to the lathering of with barber1, as if alluding to the lathering of the face, but the alleged variant berber points to a different origin.] A gale of wind with damp snow or sleet and spray that freezes upon every object, especially the beard and hair. Said to be called berber by wharfmen in New York. [Canada and N. S.]

barbering (bar'bering), n. In ceram., the process of shaving or grinding the jagged edges of a fracture or the chipped tops of vessels to render them smooth and even. Chinese procedum is cut, in this manner on the inde-

porcelain is cut in this manner on the jadeentter's lathe

barbero (bar-ba'ro), n. [Sp.] Same as *barbeiro.—Barbero negro, a surgeon-fish of western Mex-lco, Teuthis crestonis.

barberry, n.— Indian barberry, a name applied to Berberis aristata, a shrub resembling the common barberry (B. vulgaris), but with foliage evergreen or nearly so, long-peduncled compound racemes of flowers, and usually coarsely aplnous-dentate leaves. The fruit is purple, with a white bloom. The root-bark of this and of one or two other closely allled species Is used in India as a bitter tonic in fevers, and an extract from the wood, known as rasout, is used as a local application in chronic ophthalmia. Several varieties of this plant are cultivated in Europe under different names.

barbette, n. 2. A cylindrical armored structure built up in the interior of a war-ship and ture built up in the interior of a war-ship and projecting above the deck. The harbette contains a rotary platform and its supports, with part of the machinery by means of which the platform is turned. On the rotary platform one or more heavy guns are mounted so that they can be fired over the top of the barbette. The top of the barbette and the guns are protected to a greater or less extent by a shield carried on the gun-platform. The covering shield may become so extensive and so heavily armored as completely to cover the rear part of the guns, the loading and sighting mechanism, etc. The rotary part is then called a turret and the combination is called a barbette-turret. The heavy guns of almost all modern battle-ships are mounted in barbette-turret.

barbette-turret (bär-bet'tur"et), n. See *bar-

barbicanage (bär'bi-kan-āj), n. In old European law, money for the support and maintenance of a barbican or watch-tower.

barbier (bär-byā'), n. [F., barber.] A name of certain serranoid fishes of the genus Anthias.

barbiton, n. A term loosely applied, in the barge-bed (bärj'bed), n. The bed or interior middle ages, to one or more varieties of viol. of a barge. barbituric (bär-bi-tū'rik), a. [barbata (see bargello (bär-jel'lō), n. [It.] The building

def.) + uric.] Pertaining to the lichen Usuca barbata and to urie acid.—Barbituric acid, malonyl urea, $CO < \frac{NH - CO}{Nti - CO} > CH_2 + 2H_2O$, a crystalline compound formed by heating alloxantin with concentrated sulphuric

barbone (bar-bō'ne), n. [lt., appar. same as barbone, a long thick beard, aug. of barba, beard.] 1. A fatal contagious disease of the buffalo, identical with hemorrhagie septicemia of cattle and deer: caused by a minute polarstained organism of the swine-plague group. See also *buffalo-cholera. - 2. A silver coin of Lucca weighing 44.25 grains.

Barbotine ware. See *wave².
barbu, n. 3. The thread-fin, Polydactylus virginicus. [Florida and West Indies.]

tan. Also barkhan, barkan. See *medano.

If very little more sand were supplied, the floor of the fulj might be left as a bare space balf enclosed by the horns of a barchan, the windward side of the fulj being the lee cliff of the barchan.

Geog. Jour. (R. G. S.), XV. 24.

Barclayan (bär'klā-an), u. Same as Bereau, 2.

Barcoo disease or rot. See *disease. bar-diggings (bar'dig'ingz), n. pl. 1. River placers subject to overflow.—2. Auriferous elaims on shallow streams. Coal and Metal

Miners' Pocket-book.

bare¹, a. II. n. That part of a elapboard, roof-slate, or the like, which is exposed to the weather when the roof is complete, as distin-

as, in balloon-framing, a post which is held

merely by nailing it into place. barem (ba-rem'), n. In organ-building, a stop, usually of the stopped diapason class, with a quiet, sweet tone.

baresthesiometric (bar-es-thē-si-ō-met'rik), a. Of, pertaining to, or determined by means of the baresthesiometer. Also spelled baræsthesiometrie

Barffed (barit), p. a. Subjected to Barff's process, as ironwork: thus the iron plugs of plug cocks so treated are termed "Barffed plugs." See Bower-Barff *process. bar-folder (bar'fol'der), n. A folding-ma-

chine adapted to forming square joints or angles, turning round edges, and forming locks

of all kinds in sheet metals.

bar-frame, n. 2. The typical American construction for the frame or skeleton of the locomotive, in which the elements of the frame are of rectangular section, nearly as wide as they are deep, instead of being made up of thin and deep plates, as in English and European designs.

bargain-counter (bär'gān-koun"ter), n. A counter on which goods that are supposed to counter on which goods that are supposed to be remnants, or goods that have been "marked down" in price, are displayed for sale "at a bargain" or a price professed to be much lower than that at which the same or like goods are usually sold. [U. S.]

bargain-day (bär'gān-dā), n. The particular day in each week on which "bargains" are offered of the bargain counters.

day in each week on which "bargains" are offered at the bargain-counters. [U.S.]

barge¹, n. 8, pl. In mining, sheets of iron, zinc, or wood used for shedding water in wet shafts or workings. Barrowman, Glossary. shafts or workings. Barrowman, Glossary. [Seoteli.]—College barge, an elaborate house-boat designed for students' use: it is peculiar to English colleges, Keble at Oxford possessing some notably beautiful onea.—Crane-barge, a beamy, fiat-bottomed vessel which bears a crane for lifting and placing heavy weights.—Dumb-barge, a lighter which has no means of propulsion in the way of sail- or engine-power, but which must be towed or allowed to drift under the influence of tide-currents. This class of barge is very common in Eugland, especially on the Thames, where these vessels carry cargo from one part of the river to another by means of tide-streams.—Hopper-barge. See hopper 1.5.—Tide-barge. Same as dumb *barye.

barge-bed (barj'bed), n. The bed or interior

which serves as the headquarters of the armed force in an Italian town. The bargello at Florence is now the national museum.

barge-stone (barj'ston), n. In a gable-wall of masonry, one of the stones which form the sloping edge.

Baric wind-rose. See *wind-rose.

baricyanide (bar-i-si'a-nid or -nid), n. A compound cyanide of which barium cyanide is a part .- Platinum baricyanide. See *barium platino

barie (bä-rē'), n. [F. barie, < NL. *barīa, heavi-ness, pressure, < Gr. βαρίς, fem. βαρεία, heavy.] An absolute unit of gaseons pressure; a pressure such that the force on each square centi-

meter of surface is one dyne. Also barye.

barilla, n. 2. Grains of native copper disseminated in sandstone. Also called copper barilla (Sp. barilla de cobre).—3. pl. In a goldmill, wooden divisions of blanket-strakes, copper plates, etc. Mining Terms. E. Halse, Diet. of Span.

bariolage (bä-rē-ō-läzh'), n. [F.] In music, a cadenza or series of cadenzas in an instrumental piece; sometimes, more specifically, in music for stringed instruments, a rapid passage to be played chiefly on the opeu strings, without the aid of stopping.

strings, without the and of stopping.

Barisal gun. See *gun1.
baritenor, n. See *barytenor.
baritic (ba-rit'ik), a. In chem., containing

baritenor, n. See *barytenor.
baritic (ba-rit'ik), a. In ehem., containing baritin as a constituent.
Barium as a constituent.
Barium dioxid or peroxid, a compound, EaO₂, prepared in considerable quantity by passing atmospheric oxygen over heated barium monoxid or baryta, BaO, to be used in the preparation of hydrogen dioxid or peroxid, Il₂O₂.—Barium platinocyanide, a substance, BaPt(CN)₄.4H₂O, largely used for the surface of the screen on which the Röntgen rays or X-rays are allowed to fall, serving by its fluorescence to render the pictures formed by these rays visible. The salt is dichroic, appearing in one direction yellow and in another green when seen by the light reflected from the crystals.
BATK². m.—Acquided bark the bark of a Brazilian

pearing in one direction yellow and in another green when seen by the light reflected from the crystals.

bark², n.—Agoniada bark, the bark of a Brazilian plant, Plumeria lancifolia, used in intermittent fever.—Anchieta bark, the root-bark of Anchieta salutaris, a shrub native to Brazil. It is used in syphilia and skin diseases.—Cabbage-bark, the bark of the cabbage-tree : aame as worm-bark. See cabbage-tree, 2.—Carony bark. Same as Angostura bark (which see, under bark²).—Cotton-root bark, the root-bark of the common cotton, Gossypium hirautum, and other species, constituting an officinal drug with the action of ergot. The active principle appears to reside in a red resin.—Cuenca bark, one of the many varieties of pale cinchona bark (Cinchona.—Huanuco bark. See Cinchona.—Ledger bark, the bark of Cinchona Ledgeriana, sometimes considered a variety of C. Calisaya, the richest of the cinchona barks.—Loja bark. Same as loza bark (which see, under bark²).—Magellanic bark, a kind of Peruvian bark.

An equal quantity of the Peruvian and Magellanic ark. Sir E. Barry, Observ. Wines, p. 221.

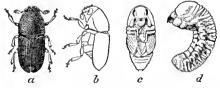
bark. Sir E. Barry, Observ. Wines, p. 221.

Monesia bark, the bark of Pradosia lactescens of Brazil. See *burahem.—Panococo bark. See Swartzia.

—Paracoto bark, a bark resembling Coto bark in its medichnal properties.—Porto Rico bark, the bark of Colubrina reclinata. See nakedwood and *mabi.—Snouba bark, the inner bark of the Aleppo pine, Pinus hierosolymitana. It contains about 25 per cent. of tannin and is imported from Tunis and Algeria for tanning leather.—Tengah bark, the bark of Ceriops Candeolleana, of the mangrove family, used for tanning leather.

barkan, n. See *burchan.

bark-beetle (bārk'bē-tl), n. A member of the colcopterous family Scolytidæ, nearly all of which make burrows between the bark and the which make burrows between the bark and the wood of woody plants.—Apple-bark beetle, a name given by Saunders to (a) Monarthrum mali, which, however, is not a bark-beetle but an ambrosia-beetle. Better called apple in-borer. (b) Xyleborns pyri, a scolytid beetle which perforates the bark of the apple and pear. Also called apple shot-borer.—Coarse-writing bark-beetle, See pine *hort-beetle.—Douglas spruce bark-beetle, a scolytid beetle, Asemum nitidum, which bores into the trunks and branches of the Douglas spruce.—Elm bark-beetle, a scolytid beetle, Phicophthorus limitaris, which bores the bark of elm-trees and also occasionally attacks the peach and the cherry.—Fruit-tree bark-beetle, a very injurious scolytid beetle, Scolytus



Fruit-tree Bark-beetle (Scolvtus rugulosus), a, b, beetle; c, pupa; d, larva; all enlarged. (Chittenden, U. S. D. Λ.)

rugulosus, which bores into the trunks and branches of rugutosus, which bores into the trunks and branches of peach-, pear-, apple-, and plum-trees, rarely, however, attacking perfectly healthy trees.—Hickory bark-beetle, one of the largest of the North American Scolytidæ, Scolytus quadrispinosus, which boreainto the trunk, 1 ranches, and twigs of hickory in many parts of the United States. Little bark-beetle. See pine *bark-beetle.—Native peach bark-beetle. See pine *bark-beetle.—Pine bark-beetle, any one of numerous species of scolytid beetles which bore into and work in or under pine-bark, as the coarse-writing bark-beetle, Tomicus calligraphus; the little lark-beetle, Pitpophthorus annectens; and many others.—Wood-engraver bark-beetle. See *wood-engraver.

bark-blazer (bärk'blä-zer), n. See *serutcher. - Cruiser's bark-blazer. See **scratcher. bark-borer (bärk'bör-ér), n. Same as *bark-

bottle.—Western hemlock bark-borer, a buprestid beetle, Mclanophola drummondi (Kirby), which bores into the trunks and branches of pine and hemlock in western North America, from Alaska south to New Mexico. bark-bug (bürk'bng), n. An insect that lives

the heteropterous family Aradidæ. See Aradus, Aradinæ, and Aradidæ.

dine, and Aradidæ.

bark-conveyer (bärk'kon-vā''er), n. In tanning, an endless-chain device for carrying bark from one place or room to another. Davis, Manuf, of Leather, p. 68.

bark-cutter (bark'kut*'èr), n. A machine for eutting or grinding bark for use in tanning:

used principally for oak and hemlock bark. Davis, Manuf. of Leather, p. 65.
bar-keel (bär'kēl), n. In shipbuilding, a keel composed of a line of heavy rectangular iron or steel bars, with the greater dimension vertical and projecting below the bottom of the ship, to which the keel is attached by the gar-board-plates. The inner edges of the gar-boardplates are flanged down and riveted to the bar-

barkevikite (bär'ke-vik-īt), n. [Barkevik, a locality in southern Norway, +-ite².] A member of the amphibole group, near arrvedsonite in composition.

bark-gouge (bärk'gouj), n. Seo *seratek bark-grafting (bürk'graf"ting), n. San _rind-grafting, which see, under grafting. Seo *seratcher.

Barking sands. See singing *sands. barking-deer (bar'king-der"), n. The East-Indian muntjae, Cervulus aureus.

The amall barking deer, called "pause" by the natives, Geog. Jour. (R. G. S.), X1. 502.

bark-louse, n.— Armored bark-louse, any member of the coccid subfamily Diaspine, all of which are protected by a shield-like covering. Fearbook U. S. Dept. Agr. 1894, p. 251.— Blackberry bark-louse. (a) A diaspine scale, Autacaspis ross. (b) An undetermined lecanine, Lecanium sp.—Currant bark-louse. (a) A coccine scale, Eulecanium ribis. (b) A diaspine scale, Aspidiotus ancylus.— Grape-vine bark-louse. (a) A coccine scale, Pulvinaria innumerabilis or P. vitis. (b) A diaspine scale, Aspidiotus www.—Harris's bark-louse, a diaspine scale, Chionaspis furfurus. Also called the scurfy bark-louse (of the apple).— Oyster-shell bark-louse. See oyster-shell.—Peach-tree bark-louse. (a) A coccine scale, Eulecanium pyri. (b) A diaspine scale, Aspidiotus pyri. (c) A diaspine scale, Diaspis pyri. (d) The San José scale, Aspidiotus princiosus.—Scurfy bark-louse, a diaspine scale, Chionaspis furfureus, found commonly on the apple and pear in the United States.

barklyite (bär'kli-īt), n. [Barkly in Victoria, Australia, + -ite².] A more or less opaque magenta-colored ruby from Victoria, Australia. bark-mark (bärk'märk), n. A symbol ehopped into the side of a log to indicate ownership. It serves as a means of identification. [U.S.] bark-marker (bärk'mär ker), n. One who cuts

bark-mark on logs.
barkslipper (bark'slip'er), n. A beetle of the cerambycid genus Phymatodes, as P. amenus or P. variabilis, whose larve loosen the bark of oak cord-wood, causing it to slip off. [Woodsmen's term.]

bark-worm (bark'werm), n. A fishermen's term for the larva of any one of the wood-boring beetles of the families Buprestidæ or Cerambycidæ.

barley¹, n.—Naked barley. (b) A variety, Hordeum distiction andum, of the two-rowed barley in which the chaff is not adherent to the grain, as in other barleys.

— Barley straw-worm. See *straw-worm.

- Barley straw-worm. See *straw-worbarley-candy (bär'li-kan"di), n. barley-sugar.

barley-grass (bär'li-gras"), n. Any grass of the genus *Hordeum* other than the cultivated barlev.

barling-spar (bar'ling-spar), n. A small light spar or pole.

Barlow's disease, plate. See *disease, *plate. bar-machine (bar'ma-shēn"), n. A form of coal-cutting machine.

In this machine [the bar-machine], a bar carrying cutting tools, of rather a different pattern to those used with the disc machine, revolves horizontally, under or in the coal, cutting a parallel groove, similar to that cut by the disc. The bar has a reciprocating motion given to it, and behind the bar is an iron plate which is also carried by the machine, and which with the spirally

arranged cutting tools forms an archimedean screw, and acts as a conveyor to bring out the dirt made by the machine. The frame of the machine is very similar to that of the disc machine

Elec. Review, Feb. 7, 1903, p. 187.

bar-mitsvah (bär-mits'vä), n. [Heb., lit. 'son of commandment.' 1. A youth of an age to obey the commandments: applied to a Jewish boy on his thirteenth birthday, when, according to rabbinical law, he has reached the age of responsibility. Before this the father is responsible for his son's actions. The occasion is solemnized in the synagogue on the following Saturday, and is followed by a festive gathering.

2. The celebration of a Jewish boy's thirteenth birthday.

barmy, a. Hence - 2, Barmy-brained; empty-

Y're dull if yer can't take the 'int; Indeed! yer must be barny. War's Brighter Side, p. 278.

Barnacle scale. See *scalc1, n. barnacle-eater (bär'ng-kl-ē"ter), n.

applied to different species of file-fish of the family Monacanthidae.

barn-dance (bärn'dans), n. A dance or daneing-party given in a barn,

The Washington Post, Pas de Quatre, and several varicties of Barn Dance are of American origin, and have recently become fashionable. Encyc. Brit. XXVII. 376.

Barnegat limestone. See *limestone.

barn-yard, n.—Noah's barn-yard, a mass of buried vegetal debris of interglacial origin. [Colloq., Illinois and Indiana.]

baro (bä'rō), n. [Tagalog.] A sort of blouse or loose shirt, usually brightly colored, worn by

natives of the Philippine Islands. **barocyclonoscope** (bar" δ - si-klon' δ - sk δ p), n. [Gr. $\beta \delta \rho o c$, weight, + eyelone + Gr. $\sigma \kappa o \pi \epsilon i v$, view.] Ananeroid barometer modified by the addition of three indexes showing respectively the direction of the wind, the direction of the stormcenter, and the direction which the navigator must take in order to avoid that center. It was constructed especially for use in the Philippine Islands, and needs appropriate modifications for use in other regions. See storm-card.

barogyroscope (bar- $\bar{\phi}$ -ji'r $\bar{\phi}$ -sk $\bar{\phi}$ p), n. [Gr. βάρος, weight, +) $\bar{\nu}$ ρος, circle. + σκοπε $\bar{\nu}$ ν, view.] An instrument which consists of a rapidly rotated gyrostat mounted on knife-edges an axis perpendicular to its axis of rotation

and pointing east and west. It demonstrates experimentally the rotation of the earth. It was devised by Gilbert. Eugy. Brit., XXIX. 195.

barolite, n. 2. In petrag., a term proposed by Wadsworth (1892) for rocks, formed by chemical precipitation, composed mainly of barite and celestito: it refers to the high specific gravity

of these substances.

cal precipitation, composed mamly of harite and celestito:itrefers to the high specific gravity of these substances.

barometer, n.—Blakesley portable barometer, a tube of small bore, closed at one end, partly filled with air, and carrying a thread of quicksilver. The position of the mercury when the closed end of the tube is appermost, and again when the open end is uppermost, gives the data for determining the pressure in terms of the weight or length of the thread of quicksilver.—Capillary depression of the barometer, the amount by which the mercurial column in the barometric tube is depressed by the repulsion between the glass and the mercury. This repulsion varies with the purity of the mercury, the cleanness and diameter of the tube, the temperature, the overlying gas, and other factors. It differs within the vacuum chamber from that in the open leg of the siphon or the open cistern. The difference of the depressions at these two mercurial surfaces is the total effect upon the measured atmospheric pressure, and is an important source of error llable to large variations.—Dines's minimum barometer, an arrangement of two empty tubes which become filled with two different liquids on descending from any great height attained by a balloon: analogous to Sir William Thomson's tubular sounding apparatus.—Glycerin barometer, a barometer in which a column of glycerin replaces the mercury of the ordinary Torricellian barometer. These instruments are large and not portable, and are used principally for public display and stormwarning.—Howson's barometer, a mercurial barometer in which the tube is fixed, but whose cistern is free to move, being supported by the pressure of the atmosphere which corresponds to the area of the ring-section of the glass tube. The rise and fall of the cistern indicate the variations of this pressure on a large scale.—Mascart's gravity barometer, a barometer and the boiling-point the variations in the force or acceleration of gravity by measuring the elastic pressure of a nass of carbonic-ac

rometer, a barometer used for intercomparison of ordinary barometers and serving as an intermediary between normal barometers and ordinary instruments barometer-tube (bg-rom'e-tër-tūb), n. The glass tube, hermetically sealed at the top, within which the mercurial column of a barometer-tip acceptained at the contrained of the contraine when when the melectrial contain of a baronn-eter is contained. The tube is filled with mercury when inverted, and many methods have been devised to accomplish this satisfactorily. By Fortin's method, the mercury is introduced little by little, and boiled within the tube by gently heating it so as to expel all gas or vapor. In George's method the mercury is not boiled but is stirred, George's method the mercury is not boiled but is stirred, and the sir-bubbles are removed with a feather. In Bogen's method the mercury is made to flow from end to end until all bubbles escape: the open end is then attached to an air-pump and the last traces of air are pumped out. In Sprung's automatic method the tube is placed open end up and warmed; the mercury is placed in a separate vessel over a lamp and is continuously distilled over, through au intermediate tube, into the tube is full: a clean tube, a perfect vacuum, and distilled mercury are thus obtained by one operation.

Barometric elevation an area of hich pressure at second

where it collects induced a perfect vacuum, and distilled mercury are thus obtained by one operation.

Barometric elevation, an area of high pressure at sealevel; a rise of atmospheric pressure above the normal value; the center of an area of high pressure or a barometric maximum.—Barometric fog. See *fog.—Barometric gradient. See *gradient.—Barometric maximum.—(a) An area on the weather-map within which the barometric pressure at any time is decidedly above that which prevails over adjacent portions of the map; an area of high pressure. (b) An area in which the current barometric pressure is decidedly above the normal value for that place and date.—Barometric minimum. (a) An area on the weather-map within which the barometric pressure is decidedly above that which prevails over adjacent portlons of the nap; an area of low pressure. (b) An area in which the current barometric pressure at any time is decidedly below that which prevails over adjacent portlons of the nap; an area of low pressure. (b) An area in which the current barometric pressure is decidedly below that which prevails over adjacent portlons of the nap; an area of low pressure. (b) An area in which the current barometric pressure is decidedly below that which prevails over adjacent portlons of the nap; an area of low pressure. (b) An area in which the current barometric pressure is decidedly below the normal value for that place and date.—Barometric rate, the rapidity with which atmospheric pressure rises or falls within a standard unit of time, usually one bour.—Barometric surface, and one the continually changing. During gentle winds and in the midst of a large area of high pressure the barometric surface, and in revolving storms they become funnel-shaped. A critical barometric surface, and sately system of winds, and calls for a corresponding critical barometric gradient.—Barometric surge, an oscillation of the atmospheric pressure occurring simultaneously over large areas, and as the whole of India, and usually traveling from the west eastwar

barong (ba'rong), n. [Sulu.] A large, broad-bladed knife or cleaver used by the Moros of the southern Philippine Islands.

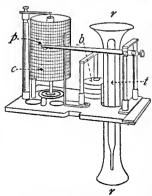
baronomy (ba-ron'ō-mi), n. [Gr. βάρος, weight, + νόμος, law.] The science of the laws of the gravitant forces (gravitation, weight): a proposed substitute for barology when used in that sense.

baroque, n. 3. Specifically, in music, a style of composition which abounds in extreme, irregular, or unpleasant harmonies or metrical baroque, n. patterns.

Barosma camphor. Same as *diosphenol. barosmin (ba-ros'min), n. $\lceil Barosm(a) + -in^3 \rceil$ A finely crystalline glucoside, perhaps identi-cal with hesperidin, contained in buchu, the

leaves of Barosma crenulata, B. serratifolia, and B. betulina. Also known as diosmin. barotaxis (bar-ō-tak'sis), n. [NL., $\langle Gr. \beta \acute{a} \rho o c$, weight, $+ \tau \acute{a} \acute{c} c$, disposition.] Stimulation brought about by change of pressure.

barothermograph (bar - ō - thèr ' mō - gráf), n.
[Gr. βάρος, weight, + θέρμη, heat, + γράφειν, write.] An apparatus for re-



temperature; a combination of barograph and thermograph, especially such as are made portable and very light to be sent up $\mathbf{u}\mathbf{p}$ with kites and sounding-balloons. Assmann's barothermograph, used with sounding-Assmann's Barothermograph.

b, aneroid barometer which gives horizontal motion to the cylinder, c; t, thermometer inside a protecting tube, r, r, any time coordinate which gives vertical motion to the peo. r.

cording simul-

atmospherie

and

taneously

pressure

of one pen only.]
The cylinder or sheet of paper is pushed in one direction
by the action of the barometer while the pen is pushed

mometer. In all other forms of apparatus each instru-ment makes its own record by its own pen and has its own independent time-scale. Sometimes called meteoro-graph. Monthly Weather Rev., Sept., 1896, p. 323.

barothermohygrograph (bar - ō - ther mō-hī'-grō-grāf), n. [Gr. βάρος, weight, + θέρωμ, heat, + θγρός, moist, + γράφευ, write.] A barothermograph to which a self-registering hygrometer is added: made of the lightest material for use with kites and balloous, but more solidly for station-work.

barothermometer (bar-ō-ther-mom'e-ter), n. [Gr. βάρος, weight, + E. thermometer.] An instrument for indicating the pressure and the

temperature of the air.
baroto (ba-rō'tō), n. [Philippine Sp. baroto, < Bisaya baloto.]
[Philippine Is.] A small sea-going vessel.

bar-parlor (bar'par'lor), n. Same as *bar1. 8
(b). The bar-parlor in old English houses is semetimes a room of considerable size where

barrack¹ (bar'ak), r. [barrack, n.] I. trans. To honse in barracks; lodge in barracks, as troops.

II. intrans. To lodge or reside in barracks.

Hugh Miller, Seenes and Legends, p. 478.

barrack² (bar'ak), v. i. [An alteration, conformed to barrack¹, of earlier borack, borak, banter, chaff, from a New South Wales native term meaning something like 'what is not.' Cf. *barrikin.] To jeer at or deride opponents. specifically, with for (like the equivalent United States slang root), to support, as a partizan, by cheers, shouts, and other demonpartizan, by cheers, shouts, and other demonstrations of approval, or by jeering at and Mechanism of Weaving, p. 25.

noisily disturbing and interrupting the oppo-Barrel-sanding machine. See *sanding-masite side or party: as, to barrack for the school team. [Australia.]

To use a football phrase, they all to a man barrack for the British Lion. Melbourne Punch, Aug. 14, 1890. the British Lion.

barracker (bar'ak-er), n. One who barracks; a noisy partizan in a contest, originally in football; a rooter. [Australia.]

The 'most unkindest cut of all' was that the Premier, who was Mr. Rogers's principal barracker during the elections, turned his back upon the prophet and did not deign to discuss his plan. The Argus, Nov. 29, 1834, p. 4.

barracoota (bar-a-kö'tä), n. Same as barra-

barracuda, n. 2. Thyrsites atun, a gempyloid fish of Australia and New Zealand: not the ash of Australia and New Zealand: not the barracuda of American waters.—California barracuda, Sphyræna aryentea, of southern California.—European barracuda, Sphyræna sphyræna of the Mediterranean.—Great barracuda, Sphyræna barracuda, Sphyræna borracuda, Sphyræna boreatis, asmail fish of the coasts about New York.

barragan² (bar'a-gan), n. [Native Australian.] A variety of the Australian boomerang.

barrage, n. 3. In playing instruments like the gnitar, the application of the finger of the left hand across all or some of the strings near the nut, so as to shorten them uniformly and thus raise their pitch; a temporary nut. unt, 3. (f) (1) and capo tasto.) When the finger stops part of the strings the barrage is inger stops part of the strings the barrage is little; if all, great or grand.—Drum-barrage, a species of movable dam used in the canalization of rivers. A sector of a hollow circular drum or cylinder rotates on a horizontal axis fixed in masonry. In one form the drum itself comprises the dam or water-barrier. In others the dam proper is formed of plane wickets. In either form the admission of water from the upper pool to or from the different compartments of the drum furnishes the power to raise or lower the barrier and thus raise or lower the water-surface up-stream from the dam. water-surface up-stream from the dam.

Barrandeocrinus (ba-ran "dē-ē-krī'nus). n. [NL., \ Barrande, a Bohemian geologist. + Gr. κρίνον, lily (see crinoid).] A genus of fossil erinoids, the only representative of the famsil crinoids, the only representative of the rami-ily Burrandeocrinidæ. It is characterized by the mono-cyclic base, 3 hasals, and heavy biserial arms which are recumbent and completely inclose the calyx: found in the Upper Silurian heats of Gottand.

barrandite (ba-ran'dit), n. [Named after J. Barrande, a Bohemian geologist (1799-1883).]

A hydrated phosphate of ferrie iron and aluminium occurring in gray spheroidal concretions: found in Bohemia.

Barred C, barred semicircle, in musical notation, the sign for duple rhythm.—Barred teeth, molar teeth with spreading, irregular roots.

barrel, n. 6. In mining, a vessel by which water is lifted by engine or windlass from a sinking-shaft .- Barrel amalgamation. See *amal-

barrelage (bar'el-āj), n. The total quantity of any commodity, as measured by barrels, pro-duced during a specified period or used for a particular purpose.

in the perpendicular direction by the action of the there barrel-cactus (bar'el-kak"tus), n. The bisnaga, Echinocactus: so named from its form and size. See Echinocactus and *risnaga.

barrel-car (bar'el-kär), n. In ear-building, a

barrel-cart (bar'el-kārt), n. A cart or truck earrying a barrel, swung so that it can be tipped, used chiefly in gardens as a receptacle

barrel-chest (bar'el-chest), n. Permanent

ehronie pulmonary emphysema. barrel-chime (bar'el-ehīm), n.

barrel-header (bar'el-hed'er), n. A simple form of serew- or lever-press for pressing the head of a barrel into place and holding it in position until it is secured by the hoops or by

barringl, n. 2. In machine-sewing, the sewing of a decorative bar or tack upon a fabric or upon leather, the bar being composed of a series of long stitches erossed by short stitches. nailing

barrel-heater (bar'el-he"ter), n. A evlindrie stove or heating-drum for heating and drying barring-engine (bar'ing-en'jin), n. See *turnbarrel-staves when formed into a barrel ready for putting on the hoops and closing the ends. The green barrel is placed over the stove, and a hood is lowered over it to keep in the heat. When the barrel is heated the hood is raised, automatically lifting the bar-rel and discharging it outside of the heater.

barrel-motion (bar'el-mo"slion), n. A tappetmechanism attached to a loom for operating

chine

barrel-scald (bar'el-skâld). n. A discoloration of apples and pears when packed in barrets. It is probably associated with harmful conditions of temperature and moisture.

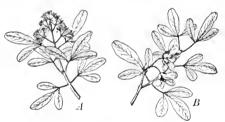
barrel-tappet (bar-el-tap'et), n. Same as \star barrel-motion.

barrel-tree (bar'el-tre), n. See *bottle-tree, 2. barrel-wheel (bar'el-hwel), n. The large wheel which is keyed upon the same shaft as the lifting-barrel of a erane, and by which the barrel is directly revolved. It is the last one in the train of gearing. Lockwood, Dict. Mech.

Eng. Terms (App.).

barrel-work (bar'el-werk), n. Barrel amalgamation. See *amalgamation. Coal and Metal Miners' Pocket-book.

Barremian (ba-rā'mi-an), a. and n. [F. Barréme, a canton in the department of Basses-Alpes.] In geol., a name sometimes used by French geologists, in place of Urgonian, to designate a stage of the Lower Cretaceous deposits immediately overlying the Neocomian. barreta (bür-rā'tā), n. [Mex. Sp.] A shrub, Helietla parvifolia, belonging to the rue family,



Barreta (Helietta parvifolia) A, flowering branch; B, fruiting branch. (From Sargent's "Manual of Trees of North America.")

with opposite 3-foliate leaves and panieles of small purplish-white flowers. The obcomic fruit separates at maturity into 3 or 4 samaras. It is common on the bluffs of the Rio Grande. [Northern Mexico and

barreto (bä-rā'tō), n. [Cuban Sp.] A goby of

the genus Gobioides. [Cuba.]
barrette (ba-ret'), n. [F.: see barret'.] The crossbar in the hilt of old rapiers over which the forefinger was placed.

used in wireless telegraphy, in which the electrie wave is caused to vary the current in a local electric eirenit.

barrier, n. 9. The starting apparatus used in races: designed to keep the horses behind a certain line until the word is given, and thus prevent unfair advantage in starting.—10. In phytogeog., any obstaele which prevents or restriets the migration of plants. Clements distinguishes physical barriers, such as large bodies of water,

mountain-ranges, and descrts, and biological barriers, including vegetation, man and animals, and plant parasites.
—Surf barrier, in phytoseoga, an aggregation of plants (emmaphytes) serving to resist the action of waves. C. MacMillan.

barrel-car (bar'el-kär), n. In ear-building, a long flat-car fitted with open framework and used for carrying empty barrels, barrel-cart (bar'el-kärt), n. A cart or truck earrying a barrel, swung so that it can be tipped, used ehiefly in gardens as a receptacle for leaves and other rubbish. barrel-chest (bar'el-chest), n. Permanent rounded expansion of the ehest occurring in ehronic pulmonary emplysema. Permanent barrel-chime (bar'el-chim), n. A chime of barrikin (bar'i-kin), n. [Cf. baragagin and seconoc. [Brazil.] barrikin (bar'i-kin), n. [Cf. baragagin and seconoc.] barrikin (bar'i-kin), n. [Cf. baragagin and seconoc.] barrikin (bar'i-kin), n. [Cf. baragagin and seconoc.]

bells rung by means of a barrel-meehanism instead of by hand.

barreled, p. a. 4. In archery, gradually reduced in diameter from the center to each end: said of an arrow.

part of the stem is sometimes made into a cannot. [Livazil.] barrikin (bar'i-kin), n. [Cf. baragonin and *barrack2.] Unintelligible talk; jargon. barrimba (bä-rim'bä), n. A gold colonial coin of Portugal of low standard, struck for Mozambique, 1847-53.

Sometimes called tacking. See *buttonholemachine.

ina-engine.

barring-machine (bar'ing-ma-shēn"), n. A machine for forming a bar or turned edge in

tinware. Allied to edging-machine (which see). Barringtonia (bar-ing-tō'ni-ji), n. [NL. (Forster, 1776), named in honor of Daines Barrington (1727-1800), a British lawyer and natuton (1727-1800), a British lawyer and naturalist.] A genus of dieotyledonous trees of the family Lecythudaecæ. It is characterized by the alternate entire or slightly crenate leaves crowded toward the ends of the branches, and flowers in elongated terminal or lateral racemes or interrupted spikes. About 60 species are recognized, distributed from Mozambique to the East Indies, Australia, and the Samoan Islands.—Barringtonia formation, a dense belt of shrubs and trees, including several arborescent species of Barringtonia, growing next the tidal sand on East Indian shores. A. F. W. Schimper, harrio (bii'ri-ô). n. [Sp. barrio = Pg. bairro =

barrio (bä'ri-ō), n. [Sp. barrio = Pg. bairro = Cat. barri, a village, prob. < Ar. barr, land.] Cat. barri, a village, prob. < Ar. barr, land.]
1. A village or small town which has no independent administration, but which is subordinated to a larger town. See puchlo. [Philippine Is.]—2. A ward; a division of a termino or municipal district in Cuba.

These [terminos], in turn, are subdivided into barrios, or wards, of which there were between 1100 and 1200.

Encyc. Brit., XXVII. 303.

barrister, n.—Junior barrister, in Eng. law, a barrister who has not been admitted to the rank of king's counsel; also, the assistant of the chief counsel on one side of a case.—Vacation barrister, in Eng. law, a newly qualified barrister who is to attend the exercises of the House for several long vacations.

barristerial (bar-is-te'ri-al), a. Of or pertaining to a barrister.

Barroussia (ba-rö'si-ä), n. [NL. (A. Schneider, 1885).] A genus of Coccidia, of the family Polysporocystidæ, in which the monozoic spores are spherical, with a smooth bivalve shell or sporocyst. The species are parasitic in myriapods and insects.

barrow-hole (bar'ō-hōl), n. In a building in course of construction, a hole, about 6 feet high and 3 feet wide, left in the wall for the workmen to pass through carrying hand-barrows with stones or bricks, or pushing wheelbarrows.

Barrowist (bar'ō-ist), n. A follower of Henry Barrowe, one of the leaders in the Independent movement in England in the latter part of the sixteenth century. He objected to the whole system of ecclesiastical government, and condemned the use of all set prayers. He is regarded as one of the founders of Congregationalism.

barrow-pulley (bar'ō-pùl-i), n. A pulley, gear, or wheel compounded on the same shaft with another of a larger size. Taggart, Cotton Spinning, I. 182.

barrow-wheel (bar'ō-hwēl), n. A pinion-gear that drives the doffer-eylinder on a cottonearding machine. Nasmith, Cotton Spinning, p. 145.

barretter (bar'et-er), n. A receiving device bar-screen (bar'skren), n. In mining, a screen or grating made of bars.

bar-stays (bar'staz), n. pl. Beiler-stays which are solid rods serewed at their ends, as distinguished from *inbe-stays or *stay-tubes. Lockwood, Dict. Mech. Eng. Terms.

bar-stop (bär'stop), n. In mech.: (a) A stop which limits the movement of a bar, as of a

number-bearing bar in a computing-machine. (b) A bar which stops or limits the movement of other mechanism.

S.-8

bartholinitis (bar #to-li-nī'tis), n. [Irreg. < Bartholm('s gland) + -itis.] Inflammation of the vulvovaginal (Bartholin's) gland.

Bartlett's fume paint. See *paint.

Barton clay. See Bartoniau *group.
Bartonia (bar-tō'ni-ii), n. A genus of plants of the family Loasacere, now referred to Mentzelia. See Mentzelia.

Bartonian group. See *group1.

Barton's bandage, fracture. See *bandage, \star iracture.

Barus camphor. Same as Bornco camphor

Barus camphor. Same as Borneo camphor (which see, under camphor).

Barybrotes (bar-i-brō'fez), n. [NL. (Schiödte and Meinert, 1879), ζ Gr. βαρίς, heavy, + βρωτός, eating]. The typical and only genus of the family Barybrotidæ.

Barybrotidæ (bar-i-brot'i-dē), n. pl. [NL., ζ Barybrotes + -ιdæ.] A small family of eymothic statements.

thoid isopod crustaceans found in the open

sea: typified by the genus Barybrotes.

Barycrinus (ba-rik'ri-nus), n. [NL...= ζ Gr. βαρίς, heavy, + κρινον, lily (see crinoid).] A genus of extinct erinoids of the family Cyathacrinidae, having stout plates and heavy massive arms: from the Lower Carboniferous of the

Mississippi valley. barymorphosis (bar-i-môr'fō-sis), n. [Gr. $\beta apr\varsigma$, heavy, $+ u\delta p\phi \omega a \varepsilon$, shape.] The effect of gravitation in producing changes in the organs or parts of plants. Sachs.

baryphonous (bar-if'o-nus), a. Deep-sounding; low in pitch.

barysilite (bar-i-sil'it), n. [Gr. $\beta a \rho i c$, heavy, $+ sil(iea) + -ite^2$.] A rare lead silicate occurring in white lamellar masses: found in Swe-

barysphere (bar'i-sfer), n. [Gr. βαρύς, heavy, + σφαίρα, sphere.] The earth's interior, an inner core known to be of greater density than the crust: so named from this property.

Even as late as 1893, at the World's Fair Congress, at Chicago, it was argued by Posepny that the ores came from the barysphere, or heavy-sphere, from well down within the earth; though even Posepny conceded that the agent which transported and deposited the metals at the places where they are now found was underground water.

Science, Nov. 15, 1901, p. 747.

Baryta paper. See *paper.—Baryta white, barium sulphate used as a pigment.
barytenor (bar'i-ten-or), n. A low tenor or

barytone. Also baritenor.

Barytic white. See *white1.

barytonesis (bar-i-tō-nē'sis), n. [NL., < Gr. βαρύτουος, barytone, +-csis, as in phonesis, etc.] The prevalence of a barytone quality or accent. J. Clark, Mannal of Linguistics, p. 155.

bas (bä), n. [F., low: see base¹.] In roulette, a bet placed at the bottom of a vertical column of numbers, taking in 12 of them .- Bas à cheval ['low astride'], a bet placed between two vertical col-umns, taking in 24 numbers.

B. A. S. An abbreviation of (a) Bachelor of

Agricultural Science; (b) Bachelor of Applied Science: degrees conferred by some institutions.

basal. I. d.—Basal area. (b) In forestry, the area of a cross-section of a tree, or the sum of such areas.—Basal growth, in bot., growth or incresse near the base, as distinguished from apical growth. See *algorith. See *tlength.—Basal placenta, a placenta at the base of the ovary, as in Dienzen.—Basal plate. (a) In embryol., the dorsal portion of the closed medullary tube. (b) In a typical solitary coral, as Caryophyllia, that part of the skeleton which is between the zooid and the surface of attachment.

II n. Same as genital plate (which see under basic acid.

asal growth, in bot., growth or increase near the base, assal length. See *length.—Basal placenta, a platenta at the base of the ovary, as in Dionea.—Basal late. (a) In embryol., the dorsal portion of the close needullary tube. (b) In a typical solitary coral, as Caryodid and the surface of attachment.

II. n. Same as genital plate (which see, under enital).

base acid.

ase-ball, n.—Indoor base-ball, a game developed from the outdoor game and played in rinks or halls. The base-lines are shortened from 90 to 27 feet, although in some large halls they are 45 feet in length. The rest of the field is in proportion, and the ball is a larger and softer one than that used out of doors. The number of players may be smaller, although so 9 are usually considered a side.

base-bed (bās'bed), n. A name given on the Island of Portland to a limestone of Jurassic scale.

qenital).

basale, n. 4. pl. In the nomenclature of the skeletal parts of sponges, recent and fossil, the root-tuft at the base of a silicious hexactinellid sponge, by means of which it attaches nellid sponge, by means of which it attaches itself to the sediment. This tuft is composed of silicions fibers or rods, each of which may terminate in a hook or anchor to facilitate attachment.—Basale inferius. Same as hypecracoid. Starks, Synonymy of the Fish Skeleton, p. 522.—Basale medium. Same as hypercoracoid. Starks, Synonymy of the Fish Skeleton, p. 521.—Basale superius. Same as postelavicle: a bone joined to the inner posterior surface of the clavicle of fishes. It is usually in two parts; basale superius refers to the upper part only. Starks, Synonymy of the Fish Skeleton, p. 521.

basalium (bā-sā'li-um), n.; pl. basalia (-ä).

[NL] Same as *basale, 4.

basally (bā'sal-i), adv. In cntom., at or near the base; proximally. Buck, Med. Handbook, V. 868.

basalt, n. 2. Proposed as a field term, in petrog., for all dark-colored aphanitic, nonporphyritte (aphyrie), igneous rocks. The basalts, thus defined, include many dense andesites, diabases, and numerous laves commouly grouped as basalt before their varying composition was revealed by microscopical study. Basalt in this sense is opposed to felsite, which includes light-colored rocks. See felsite.—Analcite-basalt, in petrog., a term applied to a basalt containing analcite as a notable primary constituent in place of the usual feldspar.—Deccan basalt, in India, great flows of cretaeeous basalt covering 200,000 square miles.—Ellipsoidal, spheroidal basalt. See pillow *basalt.—Mellite-basalt, a very basic variety of basalt characterized by the mineral mellitie. Nephelite and perovskite are usually abundant in the mellite-basalts, but feldspars are absent or subordinate.—Pillow basalt. feldspars are absent or subordinate. — Pillow basalt, a term sometimes applied to basaltic masses composed of apheroidal, ellipsoidal, or pillow-shaped bodies formed when the rock consolidated and generalty of variolitic nature. The terms ellipsoidal basalt, spheroidal basalt, and concretionary dolerite have also been applied to rocks exhibiting this structure. See pariolity exhibiting this structure. See variolite.

basaltine (ba-sâl'tin), a. [basalt + -inc1.] Same as basaltic.

basaree (bis-sa-rē'), n. [Better *basuri, < Hind. basuri, basrī, bāsrī, bansī, poetie forms of bānsrī, bānsī, cSkt. vamçī, a flute.] A Hindu direct flute or flageolet with 7 holes. be blown either by the mouth or by the nose.

be blown either by the mouth or by the nose, base², n. 5. In chem., this term is properly applied to the hydroxid of a distinctly electropositive metal or compound radical, which easily exchanges bydroxyl for an acid radical, producing a sait; but the same term is often applied in a looser and more general way to other substances of more or less electropositive character, although not containing hydroxyl, as, for example, to animonia and compounds of analogous structure.

22. In the gasteropod Mollusca, the flattened

compounds of analogous structure.

22. In the gasteropod Mollusca, the flattened lower surface of the final whorl.—Alloxuric, nucletnic base, purin base.—Base hit. See *hit!—Brieger's bases, several ptomaines which bear Brieger's name. One (C₂H₃N₂), supposedly ethyldiene diamine, is obtained from putrefying fish; another (C₆H₁₃N₀₂), probably a betain, is formed on the decomposition of tetanin. Three ptomaines of the formula C₇H₁₇N₀₂, have also been described by Brieger, of which one, gadinin, is obtained from putrid fish, another, typhotoxin, from cultures of the typhoid bacillus, and a third from horse-flesh.—De Coninck's base, an other, typhotoxin, from cultures of the typhoid bacillus, and a third from corse-flesh.—De Coninck's base, an ptomaine (C₃H₁₃N) described by Delézinier, which in its general reactions resembles veratrine. Its origin is not stated.—Guareschi and Mosso's base, a ptomaine (C₁₀H₁₃N) obtained from putrefyling fibrin.—Gautier and Etard's base, a ptomaine (C₇H₁₃N) obtained from the products of putrefaction of fish.—Gautier and Mourgues's base, a ptomaine (C₁₁H₁₃N) obtained from brown cod-liver oil.—Lepterre's base, a ptomaine (C₁₁H₁₃N) obtained from brown cod-liver oil.—Lepterre's base, a ptomaine (C₁₁H₁₃N) obtained from poisonous cheese.—Morin's base, a introgenous base formed during alcoholic fermentation: found in fusel-oil.—Nencki's base, a ptomaine can be a produced by the same and gelatin.—Newtonian base, a hypothetical fixed point in space to which absolute motion, in the sense in which Newton used that term, may be referred.

Foucanit's pendulum is another example of motion relative to the earth which exhibits the fact that the earth is not a Newtonian base.

Encyc. Brit., XXXI. 10.

is not a Newtonian base. Encyc. Brtt., XXXI. 10.
Oser's base, a nitrogenous base (C₁₃H₂₀N₄) formed during the fermentation of saccharose by yeast.—Pouchet's bases, C₅H₁₂N₂O₄ and C₇H₁₈N₂O₆; they are probably not products of putrefaction, but are formed during the treatment of animal refuse with sulphuric acid.—Purin, xanthin base. See *purin.—Salkowski's base, a ptomaine (C₅H₁₁N₂O₂) obtained from decomposing fibrin and meat.—Thenius's base. Same as *coridine.—Triacid base, in chem., a base containing three combining units of the radical hydroxyl which can be exchanged for three units of a monad acid-radical to produce a normal salt, as bismuth hydroxid, Bi(HO)₃, which gives rise to such salts as bismuth chlorid, BiCl₃, and bismuth nitrate, basic acid. Bi(NO₃)₃. basic acid

age largely used as a building-stone. [Local,

Eng. 1

base-board, n. 2. In photog., the foundation of the camera, which carries the lens, front, bellows, and back. Woodbury, Eneye. Diet.

basecphysis (bā-sek'fi-sis), n.; pl. basecphyses (-sēz). [NL., \langle Gr. $\beta \acute{a}\sigma \iota \varsigma$, base, + $\xi \kappa \phi \nu \sigma \iota \varsigma$, outgrowth.] In crustaceans, an appendage growing from the basis or second joint of a limb; an exopodite.

In this species [Pontophilus australis] . the basal joint bears a short appendage (basecphysis) not reaching to the extremity of the meros.

Trans. Linnean. Soc. London, Feb., 1903, p. 435.

base-level (bās 'lev-el), n. 1. In geol, the ideal level surface with reference to which the erosive action of a stream is earried on; also, but less generally, the slope at which the erosive action of a stream practically ceases. The general base-level is the level of the ocean. A local base-level may be determined by a rock-sill in a river, or by a lake; in the latter case it may be below sea-level, as in the basin of the Dead Sea.

2. The level of the bottom plane of an engine

or machinery; the level at which the bottom of the base is set.—Base-level plain, the nearly tevel surface to which a land-form would be reduced if acted on by the agencies of subaerial erosion for a sufficiently long time.

baselevel (bas'lev-el), v.t. and i.; pret, and pp. baseleveled or baselevelled; ppr. baseleveling or baselevelling. In geol., to wear down or degrade (a surface) nearly to base-level.

grade (a surface) nearly to base-level.

Some of the salient problems of the outer lithosphere are the origin and maintenance of the continental platforms—with their superposed mountains and plateaus—and the abysmsi basins, involving questions of rigidity isostasy, etc.; the agencies and conditions that make possible the prolonged periods of crustal quiescence shown in baseleveling, and the antithetical epochs of cruatal disturbance.

Carnegie Inst. Report, 1902, p. 31. disturbance. Carnegie Inst. Report, 1902, p. 31.

base-line, n.— Reid's base-line, a line running from the infraorbital ridge to the back of the head, cutting the center of the external anditory meatus.

Basella (bā-sel'ä), n. A genus of plants, type Basella (bā-sel'ā), n. A genus of plants, type of the family Basellaceæ. It contains only one species, B. rubra, a very variable annual or biennial climbing herb, which is cultivated in the tropics as a pot-herb. It is a native of tropical Asia and Africa, and is commonly known as Malabar nightshade (which see).

Basellaceæ (bā-se-lā'sē-ē), n. pl. [NL. (Moquin-Tandon, 1840), ⟨ Basella + -aceæ.] A family of dicotyledonous archiehlamydeous plants of the order Cheuopodiales, typified by the genus Basella, and characterized by flow-

the genus Basella, and characterized by flow-ers with 2 sepals, 5 petals, 5 stamens opposite the petals, a 3-merous gynecium, and utricu-lar fruit. There are 5 genera and 14 species, mostly tropical American, but the monotypic type genus is a native of tropical Asia, and Anredera extends northward into Texas. Boussingaultia baselloides, the Madeira-vine, has become established in southern Texas and Florids. See Malabar minishade, under minishade. See Malabar nightshade, under nightshade.

basellaceous (bā-se-lā'shius) a. [NL., \langle Ba-sellaceæ + -ous.] In bot., having the characters of or belonging to the family Bascllaceæ.

of or belonging to the family Basellaceæ.

Basement complex, a series of much metamorphosed and masked rocks (gneisses and schists), intricately folded, of unknown thickness and obscure origin, lying at the base of the geologic column. They have been mostly derived from original igneous rocks, but some appear to have been sediments. They are the oldest known rocks. Dana.—Basement rocks, in a series of rocks, the belt which offers least resistance to the wear of streams; the weaker strata. Dana.—Basement substance, in histol., a substance formed at the basal ends of epithelial cells.

baseost (bā'sē-ost), n. [Gr. βάσις, foundation, + ὅστέον, bones.] In the fishes, especially those of the extinct family Holoptychiidæ, one of the series of small bones which support the der-mal rays of the dorsal and anal fins and are subservient to the axonost which is the principal support of these fins.

base-rocker (bās'rok-er), n. A rocking-ehair with a eurved-topped base, to which it is at-

tached and on which it rocks.

base-runner (bās'run"er), n. In base-ball, a player who is running the bases. The batsman becomes a base-runner immediately after he has made a fair hit, or after four balls have been called by the umpire, or after three strikes, or after the umpire calls a foul balk on the pitcher.

bas-fond (bā-fon'), n. [F.: bas, low, fond, bottom.] The fundus of a hollow organ: bottom.] The fundus of a hollow organ pecially, the base of the urinary bladder.

pecially, the base of the urinary bladder.

Basham's mixture. See *mixture.
bashaw, n. 3. The mud-eat, Leptops olivaris.
[Louisiana.]—Bashaw cat. See *cat.
bashofu (bä-shō'fū), n. [Jap., < Chin. pa-chiao pu, banana cloth, pa-chiao (Jap. basho), plantain (banana); pu, eloth.] A kind of cloth woven from the fiber of the Japanese banana. Musa Basjoo. It is lighter in weight than that woven from hemp or flax, and is used in Japan for summer underwear. A coarser kind is used for wall decoration.

basi (bā-sē'), n. [Bisava basi.] 1. A native drink in the Philippine Islands, containing a large proportion of the poisonous principle of wood-alcohol. Insanity, crime, and frequently death in a few daya result from its use. American soldiers and civilian employees of the government have been forbidden to drink it. Army and Navy Jour., Dec. 7, 1901. A native wine from northern Luzon.

basiale (bā-si-ā'lē), n.; pl. basialia (-li-ā). [NL., neut. of basialis, < L. basis, base: see base².] In ichth., same as *hypohyal; one of a pair of small bones anterior to the ceratohyal.

nyal. basibranchiostegal (bā'si-brang-ki-os'tē-gal), n. [L. basis, base, + branehiæ, gills, + Gr. $\sigma \tau \dot{\tau} \rho \rho_c$, cover.] Same as *urohyal, 2. basibregmatic (bā-si-breg-mat'ik), a. [Gr. $\beta \dot{a} \sigma c_c$, base, + $\beta \rho \dot{\epsilon} \gamma \mu a(\tau \cdot)$, sinciput, + $\cdot ic$.] In anthrop., relating to basion and bregma.—Basibregmatic height, the distance between basion and bregma.

and bregma.

3aste border, in geol., the outer portion or shell of an intruded mass of igneous rock often found, as a matter of experience, to be lower in silica or more basic than

Secondary and less important causes may explain the existence of complementary dikes, basic borders and segregations.

R. A. Daly, Amer. Jour. Sci., April, 1903, p. 292.

Basic color. See *color.—Basic dye. (a) In histol., same as *basic stain. (b) See basic color under *color.—Basic lines. These lines apparently common to the spectra of two or more substances, and formerly supposed by Lockyer to indicate a common substance, have since been shown to be merely double or multiple lines with components very close together, and resolvable only by spectroscopes of higher power than he then possessed.—Basic oxid, in chem., an oxid of a distinctly electropositive metal or compound radical, which may by usion with the elements of water produce a hydroxid or base, or by union with the elements of an acid oxid produce a salt.—Basic reagent. Same as *basic stain.—Basic salt, in chem., a compound in which an electropositive metal or compound radical is partly united to an acid radical and partly to hydroxyl or to oxygen, as in basic hismuth nitrate, Bi(10)_2(No₂), or in Monsell's salt, Fe₂O(50₄)₂.—Basic slag. See *staq.!—Basic stain, in histol., a non-acid dye, such as the methyl and phenyl derivatives of rosaniline, fuchsin, ctc., employed to color elements for microscopical examination.—Basic steel.

basichromatin (bā-si-krē'ma-tin), n. $\beta \ddot{a}\sigma ic$, base, $+\chi \rho \ddot{\omega} \mu a$, color.] In cytol., chromatin which takes on a deep stain with basic dyes only. Same as chromatin in the usual

sense.

basicity, n. 2. In foundry-work, the propertion of metallic exid present in, and the absence of siliea from, a furnace-lining, a einder, flux, or slag. The fettling of a puddling furnace depends for its efficacy on its basic character, as does also the magnesia limestone of a Bessemer converter. Lockwood, Dict. Mech. Eng. Terms.

Basicranial flexure. See *flexure. basid (bā'sid), n. [basid(ium).] Same as ba-

basidiogenetic (bā-sid"i-ō-jē-net'ik), a. Pro-

duced by or upon a basidinm.

basidiogonidium (bā-sid'i-ō-gō-nid'i-um), n.; pl. basidiogonidia (-ä). Same as basidiospore. Basidiolichenes (bā-sid"i-ō-lī-kō'nēz), n. pl. [NL., \(\lambda basidium + liehen, liehen.] A group of liehens including those in which the fungeus portion is a basidiomyeete. They are divided into 2 smaller groups, Hymenolichenes and Gosteroliehenes. Only a few genera are known, most of which are tropical.

basidiophore (bā-sid'i-ō-fōr), n. [NL., < basid-ium + Gr. -φορος, < φέρειν, bear.] A portion of the fructification of certain fungi which bears

Torsion basin, a basin formed by torsional deformation of the first of the former basin and the first of the former basin and the former basin are set to the first of the former basin and the first of the former basin are set to the former basin as the first of the former basin are set to the former basin formed by torsional deformation of the former basin as the first of the former basin are set to the former basin as the first of the f

basidia.

basidorsal (bā-si-dôr'sal), n. [NL. basidorsalis, ⟨ Gr. βόσις, base, + L. dorsum, back: see dor-sal.] One of the basidorsalia.

basidorsale (bā-si-dêr-sā'lē), n.; pl. basidorsalia (-li-ā). [NL.] One of a pair of ossifications on the superior side of the netocherd from which the neural arch with its zygapophyses

basiemphytic (bā-si-em-fit'ik), a. [Gr. βάσις, base, + ἔμφυτος, implanted: see imp.] Attached or fixed by the base, as certain spenges. basig (ba'sig), n. [Philippine Sp., appar. from an Igerrote form corresponding to Tagalog basag, rice, Bisaya, basac, a erop of rice, etc., under water.] An alcoholic drink made by the Igorrotes, principally of rice and buri (Corypha umbraculifera), but also of sugar-cane. [Philippine Is.]

basigamous (ba-sig'a-mus), a. In bot., having the egg-apparatus at the lower end of the mother-cell of the endosperm, the reverse of the normal condition. Van Tieghem.

basigamy (bā-sig'a-mi), n. The condition of

being basigamous.

basigenous (bā-sij'e-nus), a. In chem., capable of forming a base, as, for example, potassium, the hydrexid of which is the base petash. basignathite (bā-sig'na-thīt), n. [Gr. βάσις, basis, + γνάθος, jaw, + -ite².] In crustaceans, the second joint of a gnathite. [Gr. Báous,

basilad, adv. 2. Dewnward; toward the inferior face of the eranium. Sir J. Richardson,

Tenor face of the eranium. Sir J. Richardson, Zoelogy of the Herald. [Rare.]

basilar, a. 2. Lying or situated at the base; fundamental.—Basilar apophysis, the basilar process.—Basilar length of Hensel, in anat., the distance in a straight line from the posterior margin of the alveoli of the median incisors to the anterior edge of the foramen magnum: used in noting the size of mammalian skulls.—Basilar membrane of the eye, in entom, a thin membrane in the eye which separates the optic tract from the cones and rods.—Basilar memigitis, inflammation of the membranes which cover the base of the brain.—Basilar vertebra, the last lumbar vertebra the brain. - Basilar vertebra, the last lumbar vertebra.

basileiolatry (bas-i-li-ol'a-tri), n. [Gr. βασι- basiotripsy (bα-si-ō-trip'si), λείς, king, + λατρεία, worship.] The worship of kings. N. E. D. [Nonee-word.] base, + τριψες, rubbing, erush the operation of crushing the basilinna (bas-i-lin'ä), n. [Gr. βασίλιννα, a of the fetns to render its extra

special privileges and performed special functions in the state.

Dorpfeld points out that, according to Demosthenes, the oath which the Geraiai had to swear at the sacred marriage of the basilinna in the Anthesteria was inscribed on a stele.

Cecil Smith, Jour. Hellenic Studies, XVI. 335.

basiliscan (bas-i-lis'kan), a. Of or pertaining

to a basilisk: as, basiliscan eyes.

basilissa (bas-i-lis'ä). n. Same as *basilinna. basilovomeric (bas"i-lō-vō-mer'ik), a. Relating to the base of the skull and the vomer.—Basilo-vomeric angle, in craniom., the angle between the lower surface of the basioccipital and basisphenoid and the lower edge of the vomer. An. Rep. Bur. Amer. Ethnol., XVII. pt. 1, p. 143.

basilysis (ba-sil'i-sis), n. [NL., \langle Gr. $\beta \acute{a}\sigma \iota \varsigma$, base, $+\lambda \iota \sigma \iota \varsigma$, dissolution.] In obstet., the operation of crushing the base of the skull of the fetus to make its extraction possible.

basilyst (bas'i-list), n. [Irreg. < basilysis + -t.] An instrument for performing basilysis. basin, n. 12. In hort., the depression at the apex of pomaceous fruits, as apples and pears. The calyx or eye sits in the basin. The depression at the opposite end is known as the pression at the opposite end is known as the carity.—Closed basin, a depression on the land-surface from which water does not escape to the ses. That of Great Salt Lake is to-day a closed basin, but under the moister climate of the glacial period it was filled to over-flowing and then belonged to the Columbia River system.—Half-tide basin. (a) A dock or basin whose gates are closed at half ebb-tide to retain a navigable depth of water within the hasin. (b) An intermediate basin between a wet dock and the sea or tidal portion of a river or harbor. This intermediate basin is operated in the same manner as an ordinary lock, and differs from it only in being larger and thus in locking in or out several vessels at a time.—Knob-and-basin topography, the undulatory topography characteristic of a moraine.

Speaking in general terms, the terminal moraine is a

Speaking in general terms, the terminal moraine is a rough, irregular, complex ridge of drift, deposited in part directly by the ice, and in part by the waters which were active at its margin during the time of its accumulation. The time of its accumulation was a time during which the edge of the ice remained stationary, or nearly so for a considerable period of time. The treet distinct which the degree the re-remained stationary, or hearly so, for a considerable period of time. The most distinctive single characteristic of the terminal moraine is its undulatory topography, which is often designated a "knob-and-basin" topography.

R. D. Salisbury, Geol. Surv. of New Jersey, 1892, p. 40.

basin-heel (bas'n-hel), n. The talen, or pos terior cusp of a tooth, when slightly hollowed out like a basin.

Trigonid and especially the protoconid lower than in Amphicyon, and marked basin heel.

Bull. Amer. Mus. Nat. Hist., XVI. 285.

basining (bās'n-ing), n. The fermation of basins or depressed areas by local subsidence of the strata: produced sometimes by removal of soluble constituents from underlying beds, sometimes by gentle infolding.

basin-range (bas'n-ranj), n. The type of mountain-range found in the Great Basin of Utah and Nevada. It consists of greatly faulted and tilted strata.

Recently attention has been called to the geologic strucnecently attention has been called to the geologic structure of the mountain ranges of Nevada and southeastern California. An attempt has been made to show that they are generally anticlinal in structure, and that the tilted-block type which Gilbert has described, and which is generally known as basin-range structure, is of rare occurrence.

Science, Feb. 20, 1903, p. 302.

basiobregmatic (bā/si-ē-breg-mat'ik), a. Same

as * basibregmatic.
basioccipital, n. 2. In ichth., the lowest of the occipital benes. It is in the posterior part of the cranium, directly under the foramen magnum, and forms, usually with the assistance of the exoccipitals, the occipital condyle. The parasphenoid underlaps it anteriorly, while it articulates above with the exoccipitals and prootics.

basioceratochondroglossus (bas"i-ō-ser"a-token ''drō-gles'us), n. [NL., < Gr. βάσις, base, + κέρας (κερατ-), hern, + χόνδρος, eartilage, + γλῶσσα, tongue.] The hyoglessus musele.

basioopticon (bā-si-o-op'ti-ken), n. Same as foraminooptic *line. Harrison Allen, Jour. Acad. Nat. Sci., X. 410.

basiophthalmous (ba si-of-thal mns), a. the nature of or resembling the basiophthalmite of the eye of a stalk-eyed erustacean.

basiotribe (bā'si-o-trīb), n. [Gr. βάσις, base, τρίβειν, rub, crush.] An instrument for performing basietripsy.

n. base, + τριψες, rubbing, erushing.] In obstet., fire: as, basket-fired tea. the operation of crushing the base of the skull basket-meeting (bas'ket-me*ting), n. A gathof the fetus to render its extraction possible.

form parallel to $\beta a\sigma i\lambda \iota \sigma \sigma a$, fem. of $\beta a\sigma \iota \lambda \iota \iota \iota \varsigma$, basipodium (bā-si-pō'di-um), n.; pl. basipodia king: see basilica.] In Gr. antiq., the wife of (-ii). [NL., $\langle Gr.$ $\beta a\sigma \iota \varsigma$, base, + $\pi \sigma \iota \iota \varsigma$ ($\pi \sigma \delta$ -), the archon basileus at Athens. She enjoyed foot.] In Polychwta, the basal portion of a parapodium, er feet.

basipterygium (ba-sip-te-rij'i-um) n.; pl. basip-teruaia (-ä). [NL., ⟨ Gr. βάσις, base, + terygia (-ii). [NL., < Gr. βάσις, base, + πτερίγιος, a fin.] In ichth., the basal bone of a fin. Zittel (trans.), Textbook of Palcen., II.

oasis, n. 10. Same as basipodite.—Basis spheneidlis, in ichth., same as parasphenoid, 2. Not the basisphenoid of Huxley. basis, n.

basisphenoid, n. 2. In ichth., a bone attached to the anterior end of the inner wings of the profities, which roof the myodome. It is probably not homologous with the bone so named in mammals, oill has given it the special name of dichost. It is not synonymous with the bone in fishes called basisphenoid by Owen.

Starks, Synonymy of the Fish Skeleton, p. 512.

basite (bā'sīt), n. [$bas(ic) + -itc^2$.] In petrog., a term proposed by Von Cotta (1864) as a collective name for igneous rocks of low content in silica, as opposed to those rich in silica (acidites)

basiventral (bā-si-ven'tral), n. [NL. basiventralis, \langle Gr. $\beta \acute{a}\sigma \iota \varsigma$, base, \dotplus L. venter, belly.] One of the basiventralia.

basiventrale (ba-si-ven-tra'le), n. pl. [NL.] One of a pair of essifications on the inferior face of the notecherd from which the centrum is developed. See *arcuale.

basket-ball (bas'ket-bâl), n. A game played with a ball resembling a foet-ball, in which the object is to throw the ball into one of two baskets (the goals) placed at opposite ends of the field. It is played by any number of persons (five or nice are preferred for championship games) upon a field (out of doors or within) of any convenient size. The rules are designed especially to eliminate the roughness of foot-ball. A well-defined line is marked around the floor or field, A well-defined line is marked around the floor or field, with the side-boundaries at least 3 feet from the wall or fence and the end-boundaries directly below the surface against which the goal is placed. The goals consist of baskets or hammock nets of cords suspended from metal rings of 18 inches' inside diameter. These rings are placed 10 feet above the ground in the middle of the end-lines. The inside rim is 6 inches from the surface of a flat perpendicular sereen, or very rigid surface, measuring at least 6 feet horizontally by 4 feet vertically. If a screen is used it should not extend more than one foot lines. The inside rim is 6 inches from the surface of a flat perpendicular sereen, or very rigid surface, measuring at least 6 feet horizontally by 4 feet vertically. If a screen is used, it should not extend more than one foot below the upper edge of the goal. Teams should consist of 5 persons, and the officials are the referee, 2 umpires, a scorer, and a timekeeper. The ball is round, and consists of a rubber bladder covered with leather not less than 30 nor more than 32 inches in circumference and weighing not less than 18 nor more than 20 ounces. It should be tightly inflated. The referee's duties are to decide when the ball is in play, to whom it belongs, and when a goal has been made; to approve of the timekeeper and scorer before the game begins; and, when the ball is put in play, to toss it up in a plane at right angles to the side-lines, so that it will drop near the center of the field, which is indicated by a conspicuous mark. This is done at the opening of the game, at the beginning of the second half, and after each goal. After the referee puts the ball in play in the center, it must be first touched by one of the center players who shall have been previously indicated to the umpire. The game then continues for 20 minutes, when there is an intermission of 10 minutes and the teams change goals. The umpires call all fouls, and a foul called by one shall not be questioned by the other. A goal is made by throwing the ball fairly, so that it lands in the basket. A goal made from the field counts 2 points and a goal from a foul counts 1 point. The game continues until either side has made two additional points. When a foul has been made the opposite side has a free throw for the goal at a distance of 15 feet from a point on the floor directly beneath the center of the goal. No player shall stand nearer than 6 feet while points. When a foul has been made the opposite side has a free throw for the goal at a distance of 15 feet from a point on the floor directly beneath the center of the goal. A player is n basket-boat (bas'ket-bot), n. A skin-covered

frame of basketry used as a boat in India.

basket-cloth (bas'ket-klôth), n. Any fabrie woven in imitation of the plaiting of a basket. basket-elm (bas'ket-elm), n. See *elm.

basket-fence (bas'ket-fens), n. A wattled stake-fence. [Australia.]

basket-fired (bas'ket-fird), a. Cured or prepared by roasting in baskets over a charcoal

ering, usually in connection with religious

matters and lasting all day, at which no regular luncheon is served, those in attendance bringing their luncheon with them in baskets.

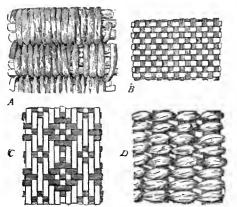
basket-phaëton (bas'ket-fā e-ton), n. A phaëton having a body-frame of light iron secured to wooden rockers and covered with willow or

ratan basketwork: of English origin. basket-pot (bas'ket-pot), n. A water-tight basket which serves as a pot.

basket-rack (bas'ket-rak), n. In car-building, an openwork shelf of wire or the like supported by brackets placed on the side of a car over the seats; a bundle-rack.

the scats; a bundle-rack.

basketry, n.—Coiled basketry, basketry made by sewing coils of fibers together. These coils may consist of one or more rods or of a bundle of vegetable fibers. Generally they are wrapped with a tough strip of root, bark, or wood, which serves at the same time for sewing the coils together.—Plicated basketry, basketry made by weaving, as by checker-weaving, twilling, or twining.—Twilled basketry, basketry woven like twill.—Twined basketry, basketry woven by twining a double or triple soft weft around a rigid warp.



A, coiled basketry; B, plicated basketry, checker ornament in two colors; C, twilled basketry in two colors; D, twined basketry, (From Report of Nat'l Museum, 1902.)

basket-shell (bas'ket-shel), n. Any corbuloid

basket-stitch (bas'ket-stich), n. In embroidery, a stitch that interlaces with another, like basket-plaiting.

basket-stone (bas'ket-ston), n. In the fossil Crinoidea, one of the joints of the columns.

basket-weave (bas'ket-wev), n. The interlocking of the warp and welt in imitation of the plaiting of a basket.

basket-worm, n.—Orange basket-worm, the larva of an American psychid moth, Platweeticus gloveri, which forms a small oblong-oval case of silk interwoven with bits of leaf or twigs in which it lives and which it carries about with itself as a protection against birds and other natural

Baskish (bask'ish), n. [Bask + -ish1.] Same

as Bask: Basque.

Baskonize (bas'kon-iz), v. t.; pret. and pp.
Baskonized, ppr. Baskonizing. [Bask + -on (as
in original Fascones) + -ize.] To turn into Basque.

Baskish z had, and still sometimes has, the sound of tz as in German. Salaberry in his Dictionary notes "botz" as meaning "voiz, suffrage." Castilian "voz = voice" would be baskonized as "boz." N. and Q., 10th ser., I. 18.

basogenous (bā-soj'e-nus), a. Same as *ba-

basophil, basophile (bā'sō-fil), a. and n. [NL., (Gr. βάσς, base, + φίξεν, love.] In eytol., staining deeply with basic dyes only: said of a cell or part of a cell: opposed to acidophil. Also used substantively.

basophilia (bā-sō-fil'i-ā), n. [NL., ζ Gr. βόσις, base, + φίλος, loving.] A condition in which many leucocytes taking only basic stains are present

basophilic (bā-sō-fil'ik), a. Same as *basophil. basophilous (ba-sof'i-lus), a. Same as *baso-

basophobia (bā-sō-fō'bi-ā), n. [NL., \langle Gr. β áor, walking, + - ϕ o β ia, \langle ϕ o β ε $i\nu$, fear.] Basotholia ($3a + -\phi_0\beta a$, $\langle \phi_0\beta \epsilon \bar{\nu} \rangle$, fear.] Morbid fear of walking. basote (bä-soʻtā), n. A Porto-Rican form of

*apasotes.

basrook (bas'rök), n. See *budgrook.

bass 1.—Banklick bass. Same as calico-bass. [Local, Indiana.]—Bayou bass, the large-monthed black-bass, Micropterus salmoides.—Gray bass. Same as gray snapper.—Oswego bass, the large-mouthed black-bass, Micropterus salmoides. [Local, New York.]—Otsego bass, the whitefish, Coregonus clupeipromis, of Otsego Lake at the head of the Susquebanna river.—Round

monly called *filer*.

bass², n. 4. The commercial name of a fiber, rebass², A. The commercial name of a fiber, resembling horsehair or wire, obtained from the sheathing leaf-bases or the leaf-stalks of certain palms. It is dark brown or black in color, and is used for brooms, brushes, ropes, and cables. Also called piassara. See bastpalm, piassara, and *bassine. Hannan, Textile same as West African *bass.—Madagascar bass, the round, tapering deep-brown fibers obtained from the leaf-stalks of Dictorogerma fibrosum, a palm native to *liquid to the land to the l eolor, and is used for brooms, brushes, ropes, and cables. Also called piassava. See bastpalm, piassava, and *bassiav. Hannan, Textile Fibers of Commerce, pp. 145-149.—Cape bass. Same as West African *bass.—Madagascar bass, the round, tapering deep-brown fibers obtained from the leaf-stalks of Dictyosperma fibrosum, a palm native to Madagascar. Called by the natives *conitra.—Monkey bass, the dark-brown wiry fiber obtained from the sheathing leaf-bases of Leopoldinia Piassaba.—Para bass. Same as monkey *bass.—West African bass, the brown, stiff, wire-like fiber obtained from the leaf-stalks of the bamboo palm, Raphia vinifera, after soaking them in water. ing them in water.

ing them in water.

bass³, a.— Bass flute, trumpet. See *flute, *trumpet.— Bass horn, in the early nineteenth century, a wooden trumpet with an S-shaped tube and a brass bell, allied to the *erpent* (which see), with a compass of about two octaves both above and below middle C.— Bass lute. See *chitarrone and theorbo.— Bass tuba. See bombardon.—First bass, second bass, in part-music, especially for male voices, the upper and lower bass voices or parts respectively.—General bass. Same as figured biss or thorough-bass.—Spectacle bass, a popular term in drummusic for certain passages consisting of two tones struck alternately, the name coming from the fact that, as commonly abbreviated, the notes suggest a pair of spectacles.

bassanello (bas-a-nell'ō). n. [It.] A musical in-

abbreviated, the notes suggest a pair of spectacles.

bassanello (bas-a-nell'ō), n. [It.] A musical instrument sounded by a double-reed in a cupshaped mouthpiece, which was joined by a metal tube curved like an S to a long, straight wooden body in which were 7 finger-holes. Compare shawm and bassoon. It was invented by Giovanni Bassani of Venice early in the seventeenth century, deriving from him its name, and was enough used for a time to be made in three sizes or pitches bass, tenor, and alto.

bassarid (bas'a-rid), n. [Gr. βασσαρίς, ζ βασσάρα, a Thracian bacchanal, lit. a fox.] In elassical

myth., a votary of Baechus: a bacchante.
bass-beam (bās'bēm), n. Same as bass-bar.
bass-bridge (bās'brij), n. Same as bass-bar.
basset³ (bas'et), n. [F. basset, a breed of dogs so called, COF, basset = It. bassetto, low: see basset¹, basset².] Same as \star basset-hound. basset-hound (bas'et-hound), n. [basset³ + hound.] A long-bodied, short-legged breed of dogs, similar in build to the daehshund, but larger and heavier. The color varies, but it is frequently white with liver-colored or

commercial name for the stiff, why fiber obtained from the sheathing leaf-bases of the palmyra, Borassus flabellifer. It is used in making brushes and for ropes. See *bass², 4, and palmyra. Hannan, Textile Fibers of Company. bassine (bas-en'), n. [bass², 4, +-ine².] A commercial name for the stiff, wiry fiber oband pulmyra. Hannan, Textile Fibers of Commerce, p. 149.

Bassini's operation. See *operation. bassist (bās'ist), n. One who sings bass or plays a bass instrument.

basso¹, n.—Basso buffo or comico, a singer in comic opera and similar works.—Basso cantante, a high bass, suited for solo-singing; opposed to basso prafondo.
—Basso concertante. See basso continuo, and figured bass, under bass3.—Basso ripieno, a supplementary ainger in a chorus or player in an orchestra; used only in full or tatti bassages. in full, or tutti passages.

Bassogigas (bas-ō-jī'gas), n. [NL., < L. bassus low (deep), + Gr. 1/1926, giant.] A genus of deep-sea brotulid fishes.

Bassozetus (bas-φ-zō'tus), n. [NL. < L. bas-sus, low (deep), + Gr. ζητεῖν, seek.] A genus Bates an English naturalist and explorer, and of deep-sea brotulid fishes.

bass-player (bās'plā"er), n. One who plays a bass instrument, especially the bass viol. bass-singer (bās'sing"er), n. One who sings

bass; a bass or basso.

Basswood cheese. Same as sapsago *cheese (b).
Basswood leaf-roller. See *leaf-roller.
basswood-oil. See *oil.
bast¹, n. 4. A name sometimes given to the portion of raw-silk fiber which envelops the fibroin: virtually the same as the sericin .- 5. fibroin: virtually the same as the sericin.—5. A trade-name of the piassava-fiber. See bastpulm, piassava, and *bass², 4.—Bast-cells. See def. 2.—Bast-collenchyma, tissue in which the walls are thickened on all sides. See collenchyma.—Bast-fibers. See def. 2.—Bast-sheath, the sheath surrounding the fibrovascular bundle next within the cortex. Also called periphbein.—Bast soap. See *soap.—Bast-tissue. Same as pholom.—Bast-vessel. Same as sive-cell.—Cuba bast, a commercial name for guana. See def. 1. and *guana³.—Hard bast. Same as liber1.1.—Russian bast, the inner fibrous bark of the common European linden, Tilia Europea. Much of it was formerly exported and used by nurserymen and gardeners for tying plants, but its place has almost entirely been taken by raffia. See bast¹; 1, and Tilia.—Soft bast. See def. 2.

bass, a kind of sunfish, Centrarchus macropterus, com- Bastard box, *dory, *halibut, *measles, etc. See the nouns

∗liynocellulose.

The blending of the bastose and plumose fibers to make one complete yarn is not feasible to begin with. Cotton fibers are unicellular, and flax fibers are multicellular, while the structure of the two is antagonistic to their union in a combined thread.

Haman, Textile Fibers of Commerce, p. 17.

bastringue (bäs-trang'), n. The French name for a form of furnace used in the first stage of the Leblane process for making carbonate of soda from common salt. It serves for the treatment of the salt with sulphuric acid.

bat¹, n. 15. A paddle or blade in a coal-pulverizer. These bats are earried on rapidly rotating arms, and break the coal into very rotating arms, and break the coal into very fine particles.—16. pl. (a) Heavy laced boots with hobnails. [Prov. Eng.] (b) Low-cut laced shoes formerly worn by women. (c) Boots in bad repair. [Colloq.]—To ground the bat, in cricket, to bring the bat in contact with the ground, either before playing the ball, in the act of playing it, or while running between the wickets. while running between the wickets.

Siamese silver coin, the same as the tical. batad (bä'täd), n. [Philippine Islands.] A name in the Philippine Islands of Indian millet, introduced and cultivated for forage, and in some places growing spontaneously. The natives sometimes make an intoxicating drink of the seed which they also eat in place of rice in times of acarcity; the stem yields augar. See sorghum, 1, and Indian millet, under millet.

batala, n. See *bathala. batan (bä-tän'), n. [Sp., a fulling-mill, (batir, beat, pound: see bate1, bat1.] A stone hand-mill in general use in western South America. It is a heavy slab without legs or carvings of any kind, and is much ruder than the metate of Mexico. See *metate.

batanga (bä-täng'gä), n. [Sp. batanga, < Bisaya batungan (batanggan), a beam, an outrigger; = Tagalog batang, a floating log.] In the Philippine Islands, an outrigger of a ca-

bate⁵, n.—Coal-tar bate, a bate made from chemicals instead of from manurea.

bateau-board (ba-tō'bōrd), n. Same as battoule-board.

batelo (bä-tā'lō), n. [Also botella; < Pg. batell: dbow's: used in western India. [Anglo-Indian.] Yule and Burnell, Anglo-Indian.

bate-prick (bāt'prik), n. In tanning, a small hole on the grain side of a skin, eaused by the putrefying of the bate while the skin is in the liquor. Flemming, Practical Tanning, p.

Bates, an English naturalist and explorer, and, in particular, to his theory, that certain animals exhibit protective resemblance to others (mimiery) that have effective means of protection or defense, such as the resemblance of tection or detense, such as the resemblance of some harmless snakes to venomous ones. According to this theory, individuals of certain species accidentally resembling certain other species especially protected from their natural enemies, as hy a nauseous odor or taste, are supposed by natural selection to perpetuate and intensify this resemblance in their descendants, thus ultimately bringing protection to the species by mimicry alone, non-mimicking strains of the race lansing. lapsing.

In South Africa entomologists have found several excellent examples of those forms of mimicry which are known as "Butesian" and "Müllerian" mimicry respectively. It was clearly important to test experimentally the value of the colors of these insects as a protection from their enemies. This Mr. Marshall has done with results which are as interesting as they are remarkable. The fact that Mantidæ and spidera exhibit unnistakable signs that certain species of Lepidoptera are distasteful to them, but are unaffected by colors, whether warning or cryptic in character, suggests that birds and other vertebrates are the principal enemies which have caused the evolution of the color patterns of these insects.

Nature, Apr. 16, 1903, p. 572**

par-usu, n. 3. Monodactylus argenteus, of the hatholitic (bath-ō-lit'ik), a. San family Scorpididæ, a silvery fish with the body deeper than long. The name alludes to the Bathonian group. See *group1. high fins. [New South Wales.]—Sbort-nosed Batho's furnace. See *furnace. bat-fish, a species of Ogeocephalus (O. rudiatus) found in Florida.

bat-gage (bat'gāj), n. An instrument for Bathurst bur. See *bur1.

measuring the breadth of the blade of a bathybic (ba-thib'ik), u. [bathyb(ius) + -ic.]

ericket-bat.

having in the depths of the water, or near the

bath¹, n. 9. In elect., the solution in which electroehemical action takes place, as in electroplating, electrotyping, electrometal-lurgy, etc.—Brand bath, a cool or cold bath employed to reduce the temperature and calm the nervous symptoms in typhoid fever.—Copper bath, the solution of copper sulphate, or other salt of copper, in which articles are immersed to be coated with copper by electrolysis, or from which electrotype casts are to be made.—Cutting bath, a solution of chemicals for discharging, or cutting bath, a solution of electricity passing. Green bath, a bath in water through which a current of electricity is passing.—Green bath, a bath used in dyeing the hair on rabbit-skins black; so called on account of its color, which is due to green vitriel and other chemicals.—Hydro-electric bath. Same as electric whath.—Itectropy is a concentration of the stream of the stre electrochemical action takes place, as in electroplating, electrotyping, electrometal-



bath3 (bath), n. Same as *bath-flower.

Bath coup. See *coup4. bathala (bät-hä'lä), n. [Also batala, Philippine Sp. batala, (Tagalog bathala, Bisaya bathala or bahála, a deity; Pampanga batala, a bird supposed to be controlled by a soreerer or a deity, and called in Tagalog tigmamanoquin.] 1. In the Philippine Islands, a god (in the

bath-flower (bath'flou"er), n. [bath (a corruption of birth-in birthroot) + flower.] The birthroot, Trillium, especially T. grandiflorum. Also bath³ and beth.

Bathgate mineral, naphtha. See *mineral,

bathic (bath'ik), a. [Gr. βάθος, depth: see bathos.] Of or concerning depth, as of the sea. bathism (bath'izm), n. Same as bathmism. Natural Science, June, 1897, p. 380.

bathmic, a. 2. Illustrative of or brought about by bathmism, or growth-force, considered as a cause or agent in the origin of species: as, bathmic evolution. Buck, Med. Hundbook, IV. 34.

bathmotropic (bath-mo-tro 'pik), α. [Gr. βaθμός, threshold, +τροπικός, turning.] Influencing the response of the nerves and museular tissue to stimuli. Sci. Amer. Sup., July 4, 1903, p. 22992.

bathmotropism (bath-mot'rō-pizm), n. [bath-motrop-ic + -ism.] Interference with the excitability of a muscle.

batholite (baih'o-lît), n. Same as *batholith. batholite (bath'ō-lith), n. Same as *σαtholith (bath'ō-lith), n. [Gr. βάθος, depth, +λίθος, stone.] A large mass of deep-seated igneous rock which may be exposed by erosion. The texture is granitoid and the shape Indefinite. Batholiths of granite may cover hundreds of square miles. Contrasted with laccolith, *bysmalith, *intruded sheet, etc. Also batholite, bathylite, and bathylith.

Yet it is clear from a survey of geological literature, Let it is clear from a survey or geological interactive, that the field evidence for such a view is but negative in the great majority of stocks and so-called "batholiths." Most of them are not true laccoliths, as they characteristically occur in regions of great structural complexity, where igneous contacts have none but the most remote sympathy with the structural planes of any one bedded series. R. A. Daty, Amer. Jour. Sci., April, 1903, p. 270.

batholithic (bath-ō-lith'ik), a. [batholith + -ic.] Relating to, originating in, or derived from a batholith.

bath-sponge, ".-Egyptian bath-sponge. Same as sponge-gourd or Lufa Egyptiaca.

bottom under the deep water.

The deepest part of this zonary fauna forms the bathybic plankton.... One might also call them 'abyssal plankton' if it were not more practicable to limit the term 'abyssal' to the vagrant and sessile benthos of the deep sea.

Haeckel (trans.), Planktonic Studies.

Bathybic plankton. See *plankton.
Bathyclupea (bath-i-klö'p̄ē-ī), n. [NL., ⟨Gr. βαθεζ, deep, + L. clupea, herring.] A genus of deep-sea fishes of peculiar structure, allied to

bathyclupeid (bath-i-klö'pē-id), a. and n. I. a. Of or pertaining to the family Buthyclupcide. A fish of the family Buthyelopeidæ.

Bathyclupeidæ (bath-i-klö-pē' i-dē), n. pl. [NL., < Bathyclupea + -idæ.] A family of deep-

bathycurrent (bath-i-kur'ent), n. [Gr. βαθίς, deep, + L. eurrens, eurrent.] A submarine stream or eurrent which does not involve or affect the water at the surface.

The epicurrents, or the surface streams, furnish no evidence relative to the understreams to be found below, which we name bathycurrents.

Haeckel (trans.), Planktonic Studies, p. 625.

Bathyergidæ (bath-i-èr'ji-dē), n. pl. [NL., \ Bathyergus + -idæ.] The Bathyerginæ eonsidered as a family. See ent under Bathyergus.

Bathygadinæ (ba-thig'n-di'nē), n. pl. [NL., \ Bathygadus + -inæ.] Ä section of the family Macruridæ, typified by the genus Bathygadus, lacking the peculiar gill-structures of Macrurus.

Bathygadus (ba-thig'a-dus), n. [NL, ⟨Gr. βοθες, deep, + γάδος, Ν. ματωκ, eod.] A genus of deep-sea grenadiers, or Macravidæ. bathygraphic (bath-i-graf'ik), a. Showing graphically the depth of a body of water: as, a bathygraphic chart .- Bathygraphic net. See *net1. bathygraphical (bath-i-graf'ı-kal), a. Same as

bathygraphie.

Bathylaginæ (bath "i-la-jī'nē). n. pl. [NL., < Buthylugus + -inæ.] A group of deep-sea fishes of the family Microstomidæ, typified by the genus Bathylugus.

1. In the Philippine Islands, a god (in the heathen sense); a deity; in later use, the infant Jesus.

βαθνς, deep, + λαγώς, a hare, also a kind of fish.] A genus of deep-sea fishes, with small mouth and of fragile structure, of the family Microstomidæ.

bathylimnitic (bath'i-lim-nit'ik), a. [Gr. $\beta abic$, deep, $+\lambda \mu \nu \eta$, lake, +-it-ic.] Floating or swimming in the depths of fresh water. See also *limnitic, *antolimnitic, Also spelled bathytimuctic. *zonolimnitic.

bathylite, bathylith (bath'i-līt, -lith), n. Same as *batholith.

bathylithic, bathylitic (bath-i-lith'ik, -lit'ik), a. Same as *bathouthie.
bathymeter, n. 2. A simple apparatus for ga-

pathymeter, n. 2. A simple apparatus for ga-ging the depth of liquids in wells and tanks. It consists of an air-tube dipping into the liquid to be measured, and an air-compressor connected both with this tube and with a reservoir of liquid into which there dips a gag-glass. When the air-compressor is worked the liquid rises in the gage until the pressure is sufficient to force air out of the bottom of the air-tube.

Bathymyzon (bath-i-mi'zon), n. [NL., \langle Gr., β athy, deep, + $\mu i \zeta \omega v$, ppr. of $\mu v \zeta \epsilon v$, mutter, grumble.] A genus of deep-sea lampreys reputed to be without teeth. Gill.

Bathyopsis beds. See bett¹.

bathypelagic (bath''i-pē-laj'ik), a. [Gr. $\beta a\theta i c_s$, deep, $+\pi \epsilon \lambda a \gamma o c_s$, sea.] Swimming or floating both at the surface of the sea and in its depths; pelagic. Most pelagic organisms are bathupelagic, some coming to the surface only at alght, some only in winter, and some wandering up and down irregularly. See also *nyctipelagic, *chimopelagic, *allopelagic.

I call bathypelagic all those organisms which occur not merely at the surface, but also extend down into the depths.

Haeckel (trans.), Planktonic Studies.

Bathypelagie net. See *net1.

Bathypteroidæ (bath-ip-te-rô'i-dē) n. pl. [NL., < Bathypteros + -idæ.] A family of deep-sea fishes with the pectoral fins provided with long feelers, typified by the genus Bathyp-

Bathypterois (bath-ip-ter'ō-is), n. [NL.,

bat-fish, n. 3. Monodactylus argenteus, of the batholitic (bath-ō-lit'ik), a. Same as *batho- ζ Gr. βαθύς, deep, + πτερόν, wing.] A genus

of deep-sea fishes allied to the lizard-fishes.

Bathysaurus (bath-i-sâ'rus), n. [NL., ζ Gr., βath; deep, + σοίρος, lizard.] A genus of deep-sea lizard-fishes. bathyssal (ba-this'al), u. [An ignorant or

eapricious mixture of bathos (the deep sea) and abyssat.] Pertaining to or inhabiting the deep

There are many vividly colored bathyssal animals belonging to all the classes of the animal kingdom and possessing nearly all the hues found in living types in littoral waters.

Quoted in Science, May 31, 1901, p. 847.

Bathystoma (ba-this'tô-mā), n. [NL., \langle Gr. $\beta a\theta i \varepsilon$, deep, $+ \sigma \tau \delta \mu a$, mouth.] A genus of grunts, or hæmulid fishes, found in the West Indies

batiator-root, n. 2. The root of a plant growing in tropical Africa, said to be Vernonia

nigritiana: used as a febrifuge.

Batidaceæ (bā-ti-dā'sṣ-ē), n. pl. [NL. (Al-phonse de Candolle, 1873), < Batis (Batid-) + -aceæ.] A family of dicotyledonons apetalous Sathyclupeidæ (bath-1-klö-pe' 1-de), n. pl. -decee.] A family of diectyledonous apetations [NL., $\langle Bathyclupea + -itlæ. \rangle$] A family of deepplants of the order Chenopodiales, containing plants of the order Chenopodiales, containing only the monotypic genus $\star Batis$ (which see), with compressed body, long anal fin, and the spinous dorsal little developed.

bathycurrent (bath-i-kur'ent), n. [Gr. $\beta a\theta i c$, employed by the natives of the Dutch East Indianal Containing on the containing plants of the containing on the containing plants of the order Chenopodiales, containing on the containing plants of the order Chenopodiales, entaining of the containing plants of the order Chenopodiales, entaining on the containing plants of the order Chenopodiales, entaining only the monotypic genus $\star Batis$ (which see). dies in executing designs on a material, as a eotton fabrie in one or more colors. By covering the design with hot wax the remaining portions of the material may be dyed any color desired, after which the wax is removed in boiling water, leaving the design-color intact. The liquid and process are now used, in the manufactures of Europe, upon velvets, velours,

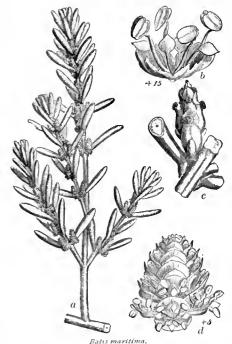
plushes, etc.
2. The fabric so decorated. batikuling (bä"tē-kö-ling'), n. [Philippine Sp. buticulin, buticuling; from a native name.] A large tree, Litsca Perottetii, of the laurel family, the wood of which is soft, fragrant when fresh, easy to work, and not subject to the attacks of termites, or white ants. It is one of the most useful woods of the Philippine Is-

lands, and is used for making writing-desks and other articles, taking the place of pine.

[Philippine Is.] **batillus** (ba-til'us), n. A rude contrivance, consisting of a board struck by a mallet, once used in the Armenian church service when

bells were prohibited. Stainer and Barrett.
batino (bä-tē'nō), n. [Philippine Sp.; from an unidentified Tagalog name.] Pala macrophylla (Alstonia macrophylla of Wallich), an apocynaceous tree with milky latex, allied to the naceous tree with miky latex, affect to the dita, or devil-tree. It has horizontal whorls of branches, and whorls of obovate-lanceolate leaves narrowing at the base. The wood, which is white and durable if protected from the weather, is used in construction by the natives. See devil-tree. [Philippine 1s.]

Batis¹ (bā¹tis). n. [NL., ⟨Gr. βaric, a flatfish, perhaps the skate or ray.] A generic name



a, a flowering branch, somewhat reduced; b, an open stamin flower; c, section of a stem showing a spike of female flowers in t axid of a leaf, enlarged; d, a staminate spike, enlarged. (Fre Engler and Prantl's "Pflanzenfamilien,")

applied to the rays or skates: equivalent to

Batis² (bā'tis), n. [NL. (proposed by Linnens in 1759, established in 1763): said to be in allusion to the resemblance of the fruit to a blackberry, ζ Gr. βατίς, βάτος, bramble, blackberry.] A genus of dicotyledonous shrubs, the type and only genus of the family Batida-Batocrinus (bat- \hat{o} -kri'nus), n. [Gr. $\hat{\beta}$ á τ oc, a ccæ. The single species, B. maritima, is a pale-green, strong scented shrub with opposite fleshy, linear or genus of extinct crinoids having a pyriform clarette and surges and small disclose flowers in

the type and only genus of the family Batidacce. The single species, B. maritima, is a pale-green, strong scented shrub with opposite fleshy, linear or clavate, entire leaves, and small dicclous flowers in axillary cones. It occurs in sand along the coast and in salt-marshes from North Carolina to Florida, Texas, the West Indies, and northern South America.

batitinan (bä-tē-tē'nān), n. [Also batitinang; Philippine Sp., (Tagalog batitinang (Blumentritt).] A large forest-tree, Lagerstræmia: Batitinan, with straight trunk, exfoliating bark, alternate simple leaves, and the young branches more or less square in eross-section. It yields logs the largest of which young branches more or less square in eross-section. It yields logs the largest of which are about 40 feet long by 18 inches square. The wood is highly prized for building purposes, and is suitable for making furniture, as a substitute for teak. However, it is subject to the attacks of ship-worms, and in ship-building is used only for planking above the water-line. When properly seasoned it stands exposure to the weather, but in house-building and other construction it cannot be used for posts or sleepers, as it decays in contact with the ground. See Lagerstræmia. [Philippine Is.]

it cannot be used to contact with the ground. See Lagerstrand pine 1s.]

batlan (bāt-lān'), n.; pl. batlanim (bāt-lā-fishes found in tropical America, by the scaly skin.

Hebrew usage, one of ten men of leisure (batlanim) who are expected to devote their whole lession) who are expected to devote their whole lession who are expected to devote their whole less the less of the l

orthodox ritual hire meu to attend service, so as to be sure of the requisito ten.

bat-louse (bat'lous), n. Any member of the heteropterous family Polyetenidæ, which, alheteropterous family *Polyetenidæ*, which, although true bugs, resemble lice and are parasitic on bats of the genus *Molossus*. Four or five species are known.

[Gr. βάτος, α ealyx with numerous biserial simple arms and a highly developed and projecting proboscis. It occurs in the Lower Carboniferous of the Mississippi valley.

Baton River series. See *series.

bat-parrakeet (bat par a-kēt), n. Any one of some 20 species of small parrots of the genus Loriculus, or Coryllis, which have the habit of hanging suspended by their feet, especially when sleeping. They inhabit the Indo-Malay region. region. Also known as hanging-parrots, hanging-parrakeets, and bat-parrots.
batrachiate (ba-trā'ki-āt), n. An erroneous

form for batrachian. Encyc. Brit., XXVIII. 139. [Rare.]

Batrachoides (bat ra-kō-i'dēz), n. [NL., \langle Gr. βατραχοειδης, βατραχώδης, frog-like, \langle βάτραχος, afrog + είδος, form.] A genus of toad-fishes found in tropical America, distinguished

ball delivered by the pitcher.

battement, n. 2. Opposed to the cadence (see cadence, 4 (c)) in that in the latter the trill begins with the principal note.

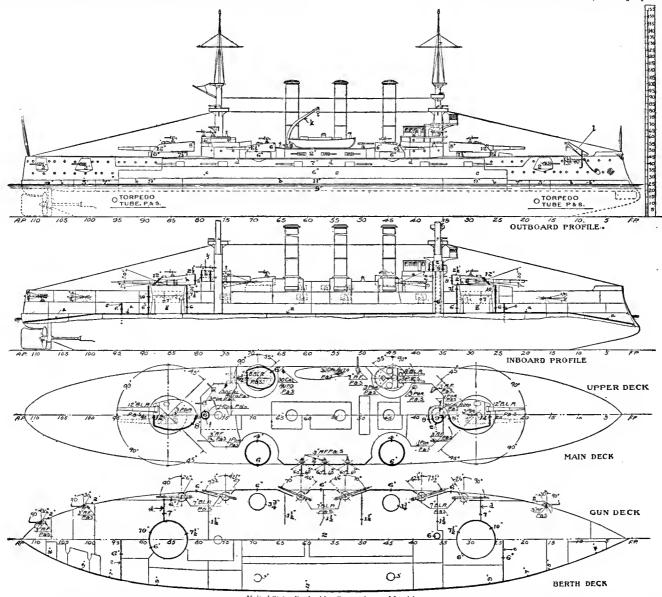
batten², n. 2. (b) A log less than 11 inches in diameter at the small end. [Maine.]—Batten observations, a method of determining a vessel's angle of rolling by observing the rise and fall of the horizon-line on the edge of a suitably marked vertical batten or strip of wood several feet distant from a sight-hole at which the eye of the observer is placed.

Battenberg lace. See *lace. batten-floor (bat'n-flor), n. A floor of narrow strips. [Eug.]

batter-board (bat'ér-bord), n. 1. One of two or more adjustable boards or straight-edges used in connection with plumb-lines to lay off the batter of a masonry wall.—2. One of two or more horizontal boards, fastened to posts near the corners of an excavation for a wall or building, to which strings are stretched to mark the outlines of the wall or building.

batter-dock (bat'er-dok), n. 1. The butter-bur, Petasites Petasites.—2. The floating pondweed, Potamogeton natans.

battering-ram, n. 3. A child's game in which all the players except two form a circle, one of the latter being inside and the other outside. The one inside the eircle endeavors to break through, the player outside assisting him, Should he succeed, that player in the



United States Battle-ships Connecticut and Louisiana.

Length on waterline, 450 ft., beam, 76 ft., 10 in., mean draft, 24 ft., 6 in. Displacement, 16,000 tons. Indicated horsepower of propelling machinery, 16,500. Speed, 18 knots.

Armament, 4 12-inch guns in pairs in turrets; 18 3-inch guns in pairs in turrets; 12 7-inch guns in casemates; 20 3-inch guns on decks, and miscellaneous smaller guns, 4 submerged torpedo tubes. Complement, 41 officers, 815 men. B L R = breech-loading rife, R F = rapid-fire gun, 3 P D R = 3-pounder gun, 1 P D R = 1-pounder gun, 20 call auto, = 30 callber automatic gun, P = port side, S = startboard side. The figures indicate the thicknesses of armor on the different parts: a, protective deck; b, belt armor; c, lower casemate armor; d, upper casemate armor; e, comming tower; f, signal tower; g, 12-inch turret; k, boat crane; l, anchor crane.

circle who is responsible for his escape takes his place.

16. In lumbering, two or more battery, n. 16. In lumbering, two or more donkey-engines for dragging logs, set at intervals on a long skid-road.—17. In indigo-manuf., a series of vats which are conducted as a unit. They may be either steeping-vats or beatingvats. See *rat.—18. A set of stamps in a stamp-mill, comprising the number which fall in one mertar.—19. In ecclenterates, a group of stinging-cells.—20. A shield or shelter designed to hide the shooters in a grouse-drive; a butt used on English and Scotch moors. They are usually formed of blocks of peat or turf, cut with a spade and built up in the form of a wall, eircular, horseshoe, or semicircular in shape. - 21. In harpsichord music, an effect produced by striking a chord in quick repetition for greater sonority. It was indicated by prefixing a vertical curve to the netes of the prefixing a vertical curve to the notes of the chord.—Goal battery, a form of galvanic battery in which it is proposed to utilize the oxidation of carbon as the means of generating an electric current.—Dry battery, a battery of dry cells. See *cell.—In battery, a battery of dry cells. See *cell.—In battery, an arrangement of electric incandescent lamps whereby a current of the required amount and tension may be drawn from the common source of supply. The lamp battery was devised as a means for the distribution of the electric current in psychological laboratories. Scripture, New Psychol., p. 483.—Main battery, econdary battery, tertiary battery. Same as main, secondary, and tertiary *armament.

battery-room (bat'er-i-röm), n. A room in which electric batteries are located.

hatting-board (bat'ing-bērd). n. In weaving.

batting-board (bat'ing-bord), n. In weaving, a device in a Jacquard loom for forcing the needles ferward.

batting-flake (bat'ing-flak), n. A kind of stout frame, about 3 feet square, standing 3 feet high, strung with eords about half an inch apart, upon which seed-cotton is batted with sticks for the purpose of preparing it for earding and spinning: a contrivance for use in the home, now seldom employed.

battle-gaff (bat'l-gaf), n. In a man-of-war, a gaff placed on a military mast from which to display the national flag when the flagstaff is removed to clear the guns in action.

battle-quoit (bat'l-kweit), n. See *chakra.

Battlesden cart. See *cart.
battlesden cart. See *cart.
battleship (bat'l-ship), n. A ship of war; specifically, a powerful war-ship designed to fight in the line of battle; in recent use, a heavily armored and armed sea-going war-ship heavily armored and armed sea-going war-ship intended for the line of battle. The change from the wooden war-ship propelled by sail-power to the modern armored iron and steel steam battle-ship dates from about the middle of the nineteenth century. The first war-ship propelled by a screw was the United States ship Princeton, and the first fronclad (with the exception of a number of floating batteries built by the English) the French or use in the Crimean war, and copied by the English) the French armored wooden frigate La Gloire, launched in 1860. This was followed by the English Warrior, launched in 1861. From this date the development of the war-ship, largely influenced by the success of the monitor (which see), has been very rapid, resulting in a great diversity of types (as regards arrangement and weight of protective armor, character of armament, and adaptation of design to special ends), and accompanied by an equally rapid progress in the perfection of ordnance (see ordnance, gran), armor-plate (which see), and explosives. The Warrior, an iron vessel, was uf 9,210 tons' displacement, had 4-inch iron armor, carried 32 muzzle-loading guns, of which the largest were of 8-inch caliber and of small power, and had no torpedo-ejectors; the Lepanto, of the Italian navy, Isunched in 1883, one of the largest war-ships yet constructed, is of 15,990 tons' displacement, has steel armor 19 inches in maximum thickness, carries 16 guns, of which 4 are of 17-luch caliber, and has 4 torpedo-ejectors. See **Anavy**. Modern war-vessels are classified, according to the service for which they are specially designed, as battle-ships, coast-defense and harbor-defense ships, cruisers (which are classed as armored, protected, or unarmored, according to their degree of detensive power), lookont ships, gunboats, despatch-vessels, rams, torpedoboat, torpedo-boat destroyers, etc. The development of rapid-firing guns in recent years has resulted in increasing the area on the side of the ship covered by armor and the number of guns prote intended for the line of battle. The change from of rapid-firing gins in recent years has resulted in increasing the area on the side of the ship covered by armor and the number of guns protected by armor. This involves making the armor of less thickness and compensating for this by improvements in manufacture by which its resisting power is increased. See armor-plate. On the other hand, it has resulted in placing armor on high-speed cruisers, sacrificing something of the speed for this purpose, accompanied by a great increase of size. The modern battle-ship is intended to combine in one vessel the most powerful offensive and defensive wapons of floating warfare. To be effective it is necessarily of large size, with a tendency toward continual increase, limited only by the depth of water in the liarbors which it must necessarily frequent. The battle-ship may be divided into three portions, namely, the part under water, that in the vicinity of the water-line, and the upper works. In the first are carried the propulsive machinery and bollers, coal, the steering-gear, the submerged torpedotubes, the ammunition, and the greater part of the stores. Upon the integrity of this part depends the floating of the ship. It is subject to attack by mines and torpedoes, and the machinery within it is liable to destruction by

fragments of exploding shells or hy mortar fire. To protect it from mines and torpedoes, the under-water body is divided into a great number of compartments by an outer and luner skin and a number of water-tight transverse and longitudinal frames and bulkheads, so that the space to which water can gain access by a single explosion will be limited and will not seriously impair the floating power. This is, however, the most vulnerable part of a battle-ship. Attempts to armor the bottom against explosions under water have not yet been made to any extent, because the weight required is prohibitive. To prevent the penetration of projectiles from above, there is a protective or armored deck, usually from 2 to 4 inches thick, the middle part of which is a little above the water-line. This deck extends out to the side at the top of the belt-armor, or, in the most recent ships, slopes down at the sides to the bottom edge of the armor-belt from 4 to 6 feet under water. There is sometimes a second protective deck below the first one to catch fragments which might pass through the first, and this is sometimes called a splinter-deck. The part of the ship immediately above the protective deck, in the vicinity of the water-line, is sometiones called the raft-body. Upon its integrity depends the stability of the ship, for if a sufficient part of it is open to the sea, the ship will "turn turtle." It is protected from the enemy's projectiles by a heavy armorbelt. In modern battle-ships the armor-belt extends over the whole or the greater part of the length, but it is usually thicker in the middle portions over the engines, boilers, and magazines. The raft-body is further protected by subdivision into a large number of water-tight compartments in which coal and stores are carried and in some of which are quarters for officers and crew. The compartments is which coal and stores are carried and in some of which are quarters for officers and crew. The boilers, and magazines. The raft-body is further protected by subdivision into a large number of water-tight compartments in which coal and stores are carried and in some of which are quarters for officers and crew. The compartments just inside the armor-belt are called coffer-dams and are frequently packed with obturating material, such as cork or the compressed pith of corn-stalks, which, when wet by the water entering a shot-hole, swells up and closes the hole. In the upper part of the ship is carried the principal offensive power, its battery of gons. This consists of heavy guns, medium guns, and small guns. See *armament. The heaviest guns on the modern battle-ship are usually of 12-inch caliber, firing a projectile weighing about 850 pounds. These are mounted in barbette-turrets. See *barbette. The largest battle-ships carry four of these guns in pairs in two turrets, one forward and the other aft on the center line. The majority of United States battle-ships have also from four to eight 8-inch guns, also in turrets. In some cases an 8-inch turret is placed on top of a 12-inch turret, forming what is called a superposed turret. This plan has heen adopted only on United States battle-ships. The guns of medium ealiber, such as the 6-inch and 7-inch, are usually carried in easemates or in an armored citadel subdivided by splinter-bulkheads. The side of the ship in the vicinity of these gons is usually covered by armor. The tendency is to put more and more guns into turrets, and in battle-ships of French design the greater part of these medium-caliber guns are in small turrets. In the upper part of the ship, usually well forward, is the consing-tower, from which the captain directs the ship in battle. It contains a steering-wheel, speaking-tubes, battle-order transmitters, engine-telegraphs, and other Instruments by means of which orders are given to the engineers below, the officers commanding the guns, etc. On the military masts above are small guns for repelling the attack of torpedo-boats, instruments for part of a battle-ship being that subject to torpedo attack, the modern tendency is to fight at long range, beyond the effective limit of the antomobile torpedo. At long range the heavy guns are much more effective and accurate than those of medium calibre. Hence the tendency is to build battle-ships earrying a greater number of heavy guns, reducing in number or abolishing the medium guns, but retaining a large number of small guns, such as the 3-inch, to repel the attacks of torpedo-boats and other unarmored vessels. As so much weight is required for guns and armor in a battle-ship, comparatively little can be devoted to the propelling machinery; hence battle-ships are of moderate speed as compared with cruisers and torpedo-boats. The modern battle-ship usually has a maximum speed of between 18 and 19 knots. The desire for a type of vessel having much higher speed combined with considerable offensive and defensive power has led to the building in recent years of a class of vessel called armored *cruisers* (which see). These vessels may be regarded as a special class of battle-ships in which offensive and defensive power have been sacrificed to speed (20 to 23 knots) and coal-endurance.

Battley's solution. See *solution.

battle-board. n. See battoule-board.

Bauera (bou'e-r\(\text{e}\), n. [NL. (Bauks, 1801), named in honor of the brothers Francis Bauer (1758 - 1840) and Ferdinand Bauer (1760 - 1826), but the second of the stream of the protein ship of the second of the seco

(1758 – 1840) and Ferdinand *Bauer* (1760 – 1826), botanic artists of Austrian birth.] I. A genus of dicotyledonous shrubs of the family Saxifragaceæ, including 3'species, natives of Aus-It is characterized by its opposite three-lobed sessile leaves, which have the appearance of a six-leaved whorl, and by its axillary solitary flowers.—2. [l. e.] The Tasmanian name for Bauera rubioides, a handsome shrub with pink or white flowers and thin wiry branches which become so entangled as to form almost impenetrable thickets. Also called native rose, tanglefoot, and leg-ropes.

Bauhinia retusa gum, Bauhinia variegata

gum. See *gum².

Baumé (bō-mā'). An abbreviation of "according to the Baumé seale of a hydrometer." See hydrometer, and Baumé *degree. Abbreviated

Baumes-Chaudes race. See *Cro-Magnon. baumhauerite (boum'hour-it), n. [Namedafter Prof. II. Baumhauer of Freiburg, Baden.] A

sulpharsenite of lead (Pb4As6S13) from the dolomite of the Binnenthal, Switzerland.

bauta-stone (bou'tā stōn), n. [leel. bauta-steinn, bautarsteinn, pl. bautarsteinar, orig. *brautasteinar, 'road-stenes,' \langle brit, brittle, and to bijota = AS. brootan, break: see brit, brittle, and ef. route, 'a way broken'), + stein = E. stone.] One of the stone monuments set up in Sweden and Denmark, along the highways, in the eleventh and twelfth centuries and earlier, in memory of the dead (or, sometimes, of the absent living)

Bauxite bricks. See *hrick2

bava (bä'vä), n. [Sp. bara, baba, slaver, spittle: see barette.] In the West Indies, partietle: see barette.] In the West Indies, particularly in Trinidad, the slimy pulp which adherest othe seeds of the cacao, Theobroma Cacao.

trinidad Mirror, April 2, 1903.

bave (bav), n. [F.] The double fiber as it issues from the silkworm. It is devoid of cellular structure and is nearly homogeneous in appearance. The single fiber is known as the being us in the silkword of the single fiber is known as the being us in the silkword of the single fiber is known as the being us in the silkword of the s

single fiber is known as the brin.

The reelable ecocon thread or bave is composed of two cylindrical fibers or brins, consisting of homogeneous matter (fibroin Schorlemmer) surrounded and cemented together by a substance resembling gelatine (sericin or silk-gelatine, Schorlemmer).

Hannan, Textile Fibers of Commerce, p. 166.

bay¹, n.—Swamp bay, or swamp red bay, Persea pubescens, formerly considered a variety of P. Borbonia.
Both belong to the coast of the southeastern United

bay², n.—Juniper bay, a swamp of white cedar or "juniper," Chamæcyparis thyoides, with or without white bay, Magnolia Virginiana. [Dismal Swamp region.]

bay3, n. 10. In hydraul. engin., an opening through a dam or bulkhead for the passage of water, generally eapable of regulation by gates or sluices: as, a head-buy, an opening in a dam at the head of a flume or eanal.

baya (bä'yä), n. [Mex.] The Mexican name of a species of fish, Mycteroperea Jordani, a form of grouper found in the Gulf of California. bayabas (bā-yā'bās), n. [Sp. guayaba, guava.] A name applied in the Philippines to the guava

(Psidium Guajava). See guava. bayacuru (bä″yä-kŏ-rŏ'), n. [Tupi.] The highly astringent roet of Statice Braziliensis. Also bayenry and biaeury.

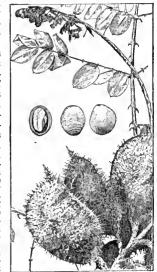
bayad (bä-yäd'), n. [Ar. bayad, whiteness, white of eggs, plaster.] Bagrus bayad, a large siluroid fish found in the Nile.

bayadere, n. 2. A weave of fabries in which stripes run transversely instead of longitudinallv.

Applied as a distinctive epithet to textile fabrics horizontally striped, of which various kinds were used for eurtains, skirts, etc.: as, a bayadere grenadine, a bayadere skirt. The word is also applied to the stripes theoselves. Balmoral petticoats when first introduced were ornamented with many-colored horizontal stripes around the bottom, and were said to be "bayadere-striped" or "skirts à la bayadère."

bayag-kambing (bä-yäg-käm'bing), n. [Tagalog bayag cambing, \ bayag, testicles, + cambing, a goat.] A

name applied in the Philippines to the hard, smooth, steny seeds of Guilandina Crista, a prickshrub of the Cæsalpinia family, with loosely spreading or climbing branches and bipinnate, prickly leaves.
The seeds are inclosed in short broadly ovate broadly ovate prickly pods. They are used medici-nally. Their chief interest lies in the fact that an alrespace is inclosed between the kernel and the shell, which gives them remarkable bnoy-ancy and makes it possible for them to be transported



Bayag-kambing (Guilandina Crista)

to be transported all over the earth by ocean currents. They are sometimes called fevernuts, nicker-nuts, or Molucca beons, and in Samoa anaoso. In Spanish countries the plant is often called unos de gato ('cat's-claws'), from the sharp recurved prickles with which it is armed.

dense amorphous jasper, associated with the manganese deposits of the province of Santiago de Cuba. Bulletin 213, U. S. Geol. Survey, 1902, p. 252.

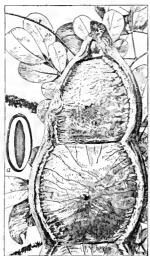
Bayberry fat. Same as bay-oil. bay-head (bā'hed), n. The head or upper of a bay.

bayldonite (bāl'don-it), n. [Named after Dr. John Bayldon.] An arseniate of copper and lead occurring in small green concretions: found in Cornwall.

bayocks (bā'oks), n. pl. [Appar. due to the otherwise obsolete *bayock, baiock, an Italian coin: see baiocco.] Inferior ostrich-feathers. bayogo (ba-yō'gō), n. [A Philippine name.] In the Philippine

Islands, the match-box seabean, or simi-tar-pod (*Lens* phaseoloides), a giant climber of the mimosa family. Its stem, which is sapona-ceons, is pounded between stones ceons, is pounded between stones and is used by the natives of those islands for washing. See sea-bean, simitar pod, and caccon. Also called gogo (Bisaya) in the Philippine Islands and careful pode and pode in the Philippine Islands and productions of the production of the producti lands and gaye in Guam.

bay-oil, n. 2. A volatile oil or essence obtained by distilling the leaves of the West Indian bay-tree (Pi-menta aeris).



Bayogo (Lens phaseoloides.)

bayok (bä-yōk'), n. [A Philippine name, said book. to be Tagalog. Cf. Bisaya bayóğ, name of a beach-crab (bēch'krab), n. A name applied beach-crab (bech'krab), n. A name applied to any crab living on the sea-heades, but estree.] In the Philippine Islands, Pentapetes accrifolia, a tree with winged seeds belonging to the family Stereuliacere. The wood is used in the Philippines for making oars and paddles, and in India for furniture. See Pterospermum.

bayon (bā-yōn'), n.; Sp. pl. bayones. [Philippine Sp., < Tagalog bayong.] In the Philippine Islands, a basket or bag made of palm-

leaves or rushes. Such bags are used for shipping coffee or rice. Also bayong.

bayonet-engine (bā'o-nct-en"jin), n. An engine in which the bed-plate is curved to one side at the end of the guide, so as not to interfere with the erank. Such an engine-bed has, in plan, somewhat the form of a bayonet for which the eylinder is the end of the gun-barrel; hence the term.

bayong (bä-yông'), n. [Tagalog.] Same as

2. An abandoned portion of a bayou, n. river-channel forming a lake or swamp following the general course of the main stream: a beach-tramper (beeh'tram-per), n. A memspecial case of "ox-bow lake." The bayons ber of the British coast-guard service. [Slang.] of the lower Mississippi river are typical. beacon-mark (be kon-mark), n. The rude fig-Chamberlin and Salisbury, Geol., I. 181.

bay-plum (bā'plum), n. A name in the West Indies for the guava, Psidium Guajava, bay-shark (bā'shārk), n. See *slark¹.

bay-sore (bā'sōr), n. An ulcer which affects many of the natives of Honduras (as observed on the coast of the Bay or Gulf of Honduras,

or of the Bay Islands).

bazarucco (bā-zā-rö'kō), n. [Also basarucco, basarucc, E. budgerook, budgrook, etc., apparently from a native Indian name at Goa, given as Canarese bajāra-rokkha, 'marketmoney': see bazaar, and cf. Canarese rūka, a eopper coin, Marathi rukā or rukkā, one twelfth of an anna. (Yule).] A coin of copper, tin, or lead, of small and varying value, formerly current at Goa and elsewhere on the western coast of India.

E. B. An abbreviation (b) of best best, which see under *best, a., 5; (c) of bail-bond.

B. B. An abbreviation of best best best, which see under *best, a., 5.

B. C. An abbreviation (b) of Bachelor of

B. C. S. An abbreviation (a) of Bachelor of Chemical Science; (b) of Bachelor of Commer-cial Science; (c) of Bengal Civil Service, Bd. An abbreviation of board.

bdellid (del'id), a. and n. I. a. Having the characteristics of or belonging to the lepidopterous family Bdellidæ.

terons family Bdellidæ.
II. A mite of the family Bdellidæ.
bdelloid (del'oid), a. [NL. *bdelloidēs, ⟨Gr. βδείλα, leech, + είδος, form. Cf. Bdelloida.] Of or pertaining to a leech or to the group Bdelloida.
Bdellura (de-lö'rä), n. [NL., ⟨Gr. βδέίλα, a leech, + οἰρὰ, tail.] The typical genus of Bdelluridæ. Leidy, 1848. Also Bdelloura.
Bdelluridæ (de-lö'ri-dē), n. pl. [NL., ⟨ Bdelluridæ + idæ.] A family of triclad turbellarians by ying a candal appendage for fivation.

having a caudal appendage for fixation. It contains the genera Bdellura and Syncolidium, both of which are parasitic on the king-crab (Limulus). Also Bdellouridæ.

B. D. M., B. D., In astron., abbreviations of Argelander's Bonn Durchmusterung of the northern heavens. See *durchmusterung.

Bé. An abbreviation of *Baumé.
B. E. An abbreviation (a) of Bachelor of Engineering; (b) of Bachelor of Elements; (e) of Bachelor of Elocution.

beach, "— Barrier beach, an off-shore sand-reef in-closing a lagoon or arm of the sea. Strictly speaking, the beach is only the outer slope of the barrier.—Roll-ing beach, a beach on which stones and pebbles are rolled back and forth by the waves.

Storm-beach, a heach formed by a storm.

beach-chicken (beeh'ehik"n), n. One of many

names for the turnstone, Arenaria interpres:
used particularly in North Carolina.

beach-combing (beeh'kōm-ing), n. In mining,
working the sands on a beach for gold, tin, or
platinum. Coal and Metal Miners' Poeket-

to any crab living on the sea-beaches, but especially to Ocypoda arenaria of the southern east of the United States.

beach-cusp (bech'kusp), n. One of a number of small points of gravel or sand 20 or 30 feet apart on a beach.

The author comes to the conclusion that beach cusps are produced by the interference of two sets of waves of translation on the beach.

Geog. Jour., (R. G. S.), XVI. 704.

uro of a beacon painted in blue on pieces of stanniferous faience made at Genoa, Italy, in the seventeenth and eighteenth centuries.

bead, n. 11. In wearing, a roughness of yarn due to fraying by friction or rubbing.—Parting-bead, a separating bead or rounded strip.

Beaded hair, diseased hair having a series of alternate constrictions and beady swellings.—Beaded ribs, ribs the ends of which are enlarged at their junction with the costal eartilages, occurring in rickets and constituting the so-ealled *rachitic rosary.

beader, n. 2. A wood-working tool resembling a spoke-shave, having a number of interchange-able cutting-irons or -bits: used in reeding, fluting, beading, and routing straight or irregular surfaces; a reeder or molding-tool. See combination *planc.—3. A *beading-machine (which see).—Single-handed beader, a form of beader for reedling or fluting diagonal lines upon wood. It has but one handle.

bead-frame (bēd'frām), n. A frame holding beads strung on wires, used in ealculating; an abacus.

beading-machine (bē'ding-ma-shēn"), n. In sheet-metal work, a hand- or power-machine for

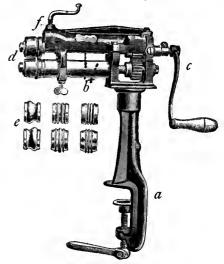
bayan (bä'yän), n. [Tagalog?] A political division comparable to a township: also, a district of the country. [Philippine Is.] bayate (bă-yā'te), n. [Local Cubau; origin not ascertained.] A silicious rock, consisting of donse amorphous issuer, associated with the law.

Chemistry; (e) of Buchelor of Commerce; (d) same as *C. B. (d); (e) of bail court.

B. Chem. Same as *B. C. (b).

Same as *C. B. (d).

parts of objects. The essential features of the many forms of beading-machines are the beading-rolls, placed in pairs, one each on two parallel shafts, and turning together, the face of each roll being of some coneave or gether, the face of each roll being of some coneave or



Beach Beading-machine.

a, standard, and clamp for securing it to bench; b, spindles; handle for turning spindles; d, beading rolls; e, sample rolls lowing different styles of beading; f, pressure control.

In beach, a beach on which stones and pebbles are rolled back and forth by the waves.

In times of storm the stones of a rolling beach, sometimes to the depth of two or three feet, are carried to and fro with the advance and retreat of the waves. In this movement the bits roll over one another much in the manner of millstones.

Shaler, Nat. Geog. Monographs, v. 143.

Starm beach, a beach on which stones and pebbles are rolled and pebbles are corresponding convex form. The sheet-metal to be beaded is passed between the moving rolls and is impressed with the bead or form of the roll-face. Power-machines, by the use of supplementary parts, may also be used as flanging, forming, trimming, and erimping-machine. See crimper, flanging-machine, and forming-machine.

Scholer, Nat. Geog. Monographs, v. 143.

beading-roll (be'ding-rol), n. See *beadingmachine

one, Actività mesembryanthemum.

bead-lightning (bēd-lit'ning), n. A rare form of lightning having the appearauee of a string of brilhant beads stretehing through a cloud or from eloud to cloud.

According to the testimony of an intelligent eye-witness, who described the rare phenomenon of bead-lightning within an hour after it had been seen, it is a very beautiful luminous appearance, like a string of beads hung in a cloud, the beads being somewhat elliptical and the ends of their axes in the line of their discharge being colored red and purple respectively.

Smithsonian Rep. 1899, p. 129.

An beachless (bēch'les), a. Without a beach: as, of the Gulf States.

An beachless (bēch'les), a. Without a beach: as, of the Gulf States.

An beachless (bēch'les), a. Without a beach: as, of the Gulf States.

Beach-robin (bēch'rol-in), n. The rebin-snipe of the Gulf States.

Beach-tree, n.—Coral bead-tree, Adenanthera pavo-scalet, orbicular, liard, glossy seeds. See Adenanthera.

Mexican bead-tree, Erythrina coralloides. See Accorn and *chilicote.—Texas bead-tree, Sophora secundifora, a stout shrub or small tree bearing hard red beans in wooden pods constricted at each division between the beans. Also called frigolito. See Sophora, and coral bean, under bean!

beach-tree, n.—Coral bead-tree, Adenanthera pavo-scalet, orbicular, liard, glossy seeds. See Adenanthera.

—Mexican bead-tree, Erythrina coralloides. See deach-tree, Sophora secundifora, a stout shrub or small tree bearing hard red beans in wooden pods constricted at each division between the beans. Also called frigolito. See Sophora, and coral bean, under bean!

beach-tree, n.—Coral bead-tree, Adenanthera pavo-scalet, orbicular, liard, glossy seeds. See Adenanthera coralloides. See deach-tree, Erythrina coralloides. See deach-tree, Erythrina coralloides. See beach-robin (bēch'rol-in), n. The rebin-snipe or red-breasted sandpiper; the turnstone.

beach-sap (bēch'sap), n. A species of sea-rocket, Cakile Chapmani, found along the shores beak!, n. 1. (g) (3) In the shells of the Brachiopoda (Molluscoidea) and Pelecypoda (Molluscul). The projecting is a stout shrub or small tree bearing hard red beams in wooden pods constricted at each division beaken.

Beach-sap (bēch'sap), n. A species of sea-rocket, Cakile Chapmani, found along the shores of the Gulf States.

Beach-sap (bēch'sap), n. A species of sea-rocket, Cakile Chapmani, found along the shores of the Gulf States.

lusca), the projecting, usually arched, part of the valves; the initial part of the shell about which accretions by growth have been added unequally. Beaks in the two valves of the Brachiopoda are usually of unequal size and prominence, but in the Pelecypoda, they are generally alike. Often termed

2. (j) Specifically, the monthpiece of instru-ments like the clarinet and some varieties of flageolets or direct flutes.

beak1, v. t. 2. To ram (a ship) with the beak or prow so as to penetrate the hull in an en-

deavor to sink it.

beak-sedge (bēk'sej), n. Same as beak-rush,
beak-wattle (bēk'wot"l), n. The large earunculate wattle found at the base of the beak in various breeds of domesticated pigeons, notably in the carrier.

beal³ (bēl), n. [Native name.] A sweet Australian drink made by steeping honey-bearing flowers in water. Also called bool and bull.

flowers in water. Also called boot and bull, beals, n. Same as *belah.
beam, n. 2. (j) In laee-manuf., a tin drum of small diameter, varying in length with the width of the machine, upon which the yarn is wound.—8. In eurrying, an inclined table or stand on which the skin is placed while it is

beamed or seraped. C. T. Davis, Manuf. of Leather, p. 250.—Bent beam, a beam which has a camber, natural or artificial. In English wooden roofs such pieces were chosen for the horizontal chord of the truss, replacing the tie-beam and supporting a king-post.—Compression beam, in bridge-building and constructive work, a beam in a truss, bridge, ear, or other structure designed to resist pressure or compression; a compression member: the opposite member of a truss to the tension member, unally called the tension rod. See bridge and truss.—Paper-board beam, a weighing-beam for ascertaining the number of sheets of board in fifty pounds by weighing one board.—To tip the beam, to prove heavier than the weight at the other end of the beam of a balance; weigh or have a weight of (so much); as, to tip the beam at 300 pounds. Same as to tip the scales.—Yarn-numbering beam, a small and very delicate weighing-beam for ascertaining the trade number of any particular lot of yarn. A bunch of fifty yards of yarn is tied by a single thread and hung by the thread on the beam at a point where it balances the beam; the mark on the beam under the thread then indicates the yarn number.

beam, v. t. 6. To burnish, as moroceo leather. beamed or seraped. C. T. Davis, Manuf. of

beam, v. t. 6. To burnish, as moroceo leather. with a beaming-machine; also, in *currying*, to flesh or shave on the flesh side.

beamage (be maj). n. [beam + -age.] An al-

lowanee in the weight of the dressed carcass of an animal as shown at the beam, to eompensate for loss of weight by evaporation in cooling.

beam-arm (bēm'arm), n. In ship-building, the onter end of a beam where it joins the framing at the ship's side.

In wood ships, working at the beam-arms was very common during heavy rolling at sea.

White, Manual of Naval Arch., p. 326.

beam-element (bem'el"e-ment), n. An infinitesimal longitudinal element of any beam; an elementary fiber. In a beam of uniform cross-section, the beam-element is parallel to any element in the surface of the beam.

beam-face (bein'fas), n. In currying, the surface of the beam on which a skin is placed for shaving. C. T. Davis, Mannf. of Leather,

beam-hanger (bēm'hang'ér), n. Same as *stirrup-iron, 2. beam-house (bēm'hous), n. The room or por-

tion of a curriery in which the unhairing of the skins is done. Flemming, Practical Tanning, p. 1.—Beam-house machine. Same as beam-ing-machine, 2.

beaminess (bēm'i-nes). u. 1. Breadth of beam: bean-blight (bēn'blit), u.

as, a ship of great beaminess.—2. Radiance. Richardson, Pamela, IV. 384.

beamit (bē'mit), n. [Appar. an arbitrary formation from beam, v. t., + -it.] The commercial name of a compound made for unhairing hides and pelts. Flemming, Praetical Tanziera 431 ning, p. 431.

beam-knee (bēm'nē), n. In ship-building, a re-inforcement of the end of a deck-beam where it is attached to the side of a vessel to strengthen the whole against the racking effects of rollthe whole against the racking effects of rolling at sea. In a wooden ship with wood beams the knees are separate knee-shaped pleces of timber. See knee, 3. (a). In steel ships they are sometimes triangular pleces of plate riveted to the beam and to the frame, and sometimes are formed by bending down the lower part of the beam itself and weiding in a piece of plate forming a triangular probogation which is riveted to the frame and called a relief bean-knee.

beam-motion (bem'mo"shon), n. A motion involving the use of a reciprocating lever or

volving the use of a reciprocating lever or walking-beam.

beam-scale (bem'skal), n. A weigh-beam (which see).

beam-shaft (bem'shaft), n. The shaft which carries the walking beam of an engine. beamsman (bemz'man), n.; pl. beamsmen

(-men). A man who works in a beam-house: same as beamster. Modern Amer. Tunning, p. 54.

beam-supports (bem'sn-ports"), n. pl. brackets or standards which carry the bearings for the shaft of a walking-beam.

beam-trawling (bem'tral"ing), n. A method of fishing with a trawl attached to a beam and dragged on the bottom. Science, March 29, 1901, p. 510.

beam-wheel (bem'hwel), n. In wearing, a gear attached to the cloth beam or roller of a loom. beam-work (bem'werk), n. Work done in a beam-house. Modern Amer. Tanning, p. 41.

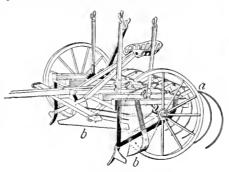
beam-nonse. Modern Amer. Tanning, p. 41.
beam!, n.—Adzuki beam, a varlety of the gram, Phaseolus Mungo, much entitvated in Japan for making beamflour and confectionery.—Banana beam. Same as relret-*beam.—Beam cutworm. See *cutworm.—Beam
ladybird. Same as *hean-beetle.—Beam leaf-beetle.
See *leaf-beetle.—Beam vine-borer. See *vine-borer.
—Black beam. (a) See Egyptian beams, under beam!, (b)
The Beed of the beam-tree or Moreton Bay chestnut,
Castanospernaum australe, which, though poisonous when
green, is rendered harmless by cooking and forms part of

bean-bag (ben'bag), n. Abag containing, or designed to contain, beans; specifically, a child's game played with bags full of beans. Various games are played with bags of beaus, oats, sand, or other material.

bean-beetle (bēn'bē"tl), n. tle, Epilaehna corrupta, which damages growing beans in the western United States, differing in this phytophagous habit (together with other members of the same genus) from the usually carnivorous members of the family Coecinellidæ.

A disease of beans eansed by Bacillus Phascoli.

bean-harvester (ben'har'ves-ter), n. A horsepower machine for eutting, gathering, and de-



Bean-harvester. a, rake; b, b, knives for cutting off plants

positing in windrows field bean-plants preparatory to threshing. It resembles in general design a hay-rake, having in addition inclined knives placed in advance of the rake.

bean-louse (bēn'lous), n. An aphis which attacks the bean, as Aphis rumicis.

bean-mildew (ben'mil"du), n. A disease of beans attacking particularly the pods, although occasionally the leaves and stems. It is caused by Phytophthora Phascoli.

bean-stick (ben'stik), n. A form of eoagulated

legumin or vegetable easein. bean-thresher (ben'thresh"er), u. power threshing-machine adapted to threshing bean-plants and resembling in general plan the wheat-threshing machine. It is fitted with a self-feeder or feed appliance, a botting appliance, a dist-conveyer for removing the dirt or waste to a distance, a dust-collector-and-conveyer for removing the dust from the machine, a wind-stacker, and a recleaner for cleaning the threshed beans. See threshing-machine and *wind-stacker.

bean-vine (ben'vin), n. 1. The plant of any climbing bean.—2. The wild kidney-bean, Phascolus percunis; also Strophostyles helvola. See Strophostyles.



The Glacier Bear (L'rsus emmonsi-Dall).

bear, but of a general bluish-gray color. The outer side of the limbs and a stripe down the back are black; the muzzle and front of the cheeks are tan-color. It is rare and is apparently confined to the vicinity of Monnt St. Elias, Alaska.—Kadiak bear, U. middendorffi, a huge



The Great Kadiak Bear (Ursus middendorffi-Merriam).

species, perhaps the largest of all bears, related to the brown bears of Europe and Asia. It is of a dark reddishbrown color in summer, lighter in winter; but the color appears to be variable. A number of related species have been described from Alaska, as the Sitka bear, U. sitkensis, the Yakutat bear, U. dalli, etc., but they are of doubtful validity. Several species of black bear are now recognized, among them the Louisiana and Florida bears, U. luteolus and U. floridanus. A bear of a yellowishwhite color, though belonging to the black-bear group,



The Inland White Bear (Ursus kermodei-Hornaday).

has been described from British Columbia under the name of Ursas kermodei.—The Bear, a familiar name for Russia.

bear-brush (bar'brush), n. A shrub, Garrya Fremontii, of the Californian mountains. Also called *quinine-hush (which see).
bear-cat (bar'kat), n. The panda, Elurus fulbear-clover (bar-klo"ver), n. See *clover, beard, n. 6, (b) Also, a projecting flap of metal soldered to a pipe close to its mouth to improve its "speech." Beards are common on either side of the mouth, and in some kinds of pipe are carried across below the mouth as well. The former are side-beards, the latter cross-beards.—11. pt. A breed of pigeons of which the most distinctive character is a cres-

bearded, a. 4. In bot: (a) Awned; especially, having long stout awns, as bearded wheat.
(b) Having a special growth of hairs on certain organs, as on the inside of the corolla in many flowers, for example, those of Pentstemon.

beardlet (berd'let), n. [beard + -let.] A small

beard or awn.

Christian Poets, p. 191.

beard-token (bērd'tō*ken), n. A copper coin struck by Peter the Great of Russia in 1724, to be given to those who had paid the tax of 50 rubles every year for the privilego of wearing

their beards.

beardy, n. 3. A fish, Lotella marginata, of the family Gaddide, resembling the loach: so named evergreen bearwood.

Bear-trap dam, weir. See *dam¹. bearwood, n. 2. Also Rhamnus crocca, the family Gaddide, resembling the loach: so named evergreen bearwood. from the barbel under its chin. Also called

ling. [New South Wales.]

pearer, n. 13. In shipbuilding, a support or of beasts; beasthood. foundation in the interior of a vessel for beast-gate (best'gat), n. In Suffolk, England, engines or boilers: usually in the plural: as, engine-bearers, boiler-bearers.—14. A persou, usually a woman or girl, who formerly carried coal in baskets from the workings to the shaft, and in many cases up the ladders to the surface. The bearer was usually the miner's wife or daughter. Barrowman, Glossary. [Scotch.]—15. In geom., a system of costraight points is called a range, of which the straight is the bearer. A system of copunctal straights is called a pencit, of which the intersection point is the bearer.—16. pl. In mining, pieces of timber 3 or 4 feet longer than the breadth of a shaft, which are fixed into the solid rock at the sides at certain intervals: used as foundations for sets of timber. Coal and Metal Miners' Pocket-book.—Bearer's way, In mining, an underground road or passage along which the hearers carried their burdens. See *bearer, 14. Barrowman, Clescave. (Soctob.)

bearer-plate (bar'er-plat), n. A metal plate placed under a beam or girder where it rests

on a wall or foundation.

bear-grass, n. 2. A bunch-grass, Stipa setigera, ranging from the mountains of California, where it is considered valuable, to Oregon and Texas.

bearing, n. 7. (b) That part of a construc-tion which receives a superincumbent weight. (c) The act or condition of taking or supporting that weight: thus, the upper bed of a block or pier affords a bearing of so many square inches; or may be said not to give a good bearing, or to need an iron plate to provide a better bearing. (d) That part of a superincumbent mass which rests directly upon the supporting member: thus, a lintel has 6 inches (or 48 square inches') bearing at lass o litches' (or 45 square inches') bearing at either end.—Absolute bearing (naut.), the direction of an object as determined by the compass, that is, with reference to the north point of the heavens.—Combination bearing, a form of bearing for shafts or axles in which the contact and load-carrying surfaces are made up of combinations of rollers and balls (making a combination of ball-hearing and roller-hearing) to diminish friction and loss of power.—Compass bearing. Same as absolute bearing,—False bearing, the resting of a weight, as a piece of wall or a pier, upon a support which is not continued straight dawn to the foundation, as when the windows in a front are not placed exactly one over another, so that the piers between the upper windows come partly over the openings below. Parts of a building supported on corbels or brackets or girders may be said to have false bearing.—Liquid bearing, a form of bearing in which some liquid, such as oil or water, is forced under pressure between the two metallic surfaces which mutually restrain each other's motion, so as to keep them apart. Liquid friction replaces the sliding friction bearing, a common cylindrical bearing, as distinguished from a roller, ball-, or combination bearing, a sdistinguished from a roller-, ball-, or combination bearing.—Relative bearing, char (hör'ing-bär), n. A har at the either end .- Absolute bearing (naut.), the direction

bearing-bar (bar'ing-bar). n. A bar at the back end of a boiler-furnace which carries the

ends of the grate-bars.

bearing-doors (bar'ing-dorz), n. pl. In mining, air-doors on a main airway. Barrow man, Glossary. [Scotch.]

bearing-pit (bar'ing-pit), n. In mining, a shaft up which coal was formerly carried by bearers. Barrowman, Glossary. [Scotch.] bearing-plate (bar'ing-plat), n. A carrying or supporting plate; a plate used to furnish a proper bearing-surface for a heavy load.

bearing-road (bar'ing-rod), n. A road on the cross-beards.—11. pt. A breed of pigeons of which the most distinctive character is a cresent-shaped patch of white ou the throat just bearishly (bar"ish-li), adv. In a bearish mauner (in either sense of the adjective).

bear-jug (bar-jug), u. A stoneware vessel at one time popular in certain localities in Engone time popular in certain localities in Lingland. It was made in the form of a bear, was usually dark brown in color, had a rough surface produced by the application of small shavings of elay, and was used either as a tobacco-jar or a beer-jing, the detachable head or cover serving the purpose of a drinking-cup. Also or cover serving the purpose of a drinking-cup. Also officer, forbidding him to take the fine formulad hear.

beardom (bar'dum), n. 1. The domain of Bearnaise sauce. See *sauce. bears; bears collectively.—2. Bearish perbear-oak (bar'ok), n. Same as scrub-oak (c). sonality or character. Mrs. Browning, Greek bear-pipe (bar'pip), n. An obsolete organ-stop pipes so covered or inclosed that they gave a hoarse, muffled sound.

bear's foot, n. 2. A stout composite plant, Polymnia Uvedalia; or, especially, its root, vaguely claimed to be an alterative.

beastdom (best'dum), n. 1. The domain of beautyship (bū'ti-ship), n. The personality of beasts; beasts collectively.—2. The condition a beauty: as, your beautyship: formed on the

land and common for one beast. Black, Law

The right [a right of common in gross] is then generally known as a cattle-gate or beast-gate.

Encyc. Brit., XXVII. 168. beaverish (be ver-ish), a. Like a beaver. Car-

beast-god (best'god), n. A deity conceived in animal form.

beastling (best'ling), n. A little beast; a little animal. Miss Braddon, Bitter End, p. 51. beat¹, v. t. 20. In ericket, to break through (a batsman's defense): said of the bowler or the ball.—To beat a retreat, to give the signal by drumbeat to retreat; hence, simply, to retreat.—To beat out of (something), to secure the surrender or relinquishment of (something) by persistent effort.—To beat the Dutch.—See Dutch.—To beat the hoof, to go on foot. beat¹, n. 12. In fencing, a smart tap on the adversary's blade to disconcert him or drive the blade aside for the thrust.—13. The act of overcoming or surpassing; specifically (in newspaper cant), the securing and publishing of some news item by a newspaper in advance of its competitors.—14. The news item itself. or its competitors.—14. The news item itself.—15. The act of beating or ranging over a cover for game; the company, collectively, of those engaged in beating for game.—Primary beat, in accustics, a beat produced by the interference of two musical tones which are nearly in unison.—Secondary beat, in accustics, a beat produced by the interference or combination of two primary beats.

beatable (bet 'a - bl), a. Capable of being beaten. Cotgrave.

beat-borough (bet'bur"o), n. Same as *bcat-

beat-earth (bet'erth), n. An earth of black Becchi test.

beatee (bē-tē'), n. One who is beaten.

beat-earth (bēt'érth), n. An earth of black color containing iron ore, found in some of the western islands of Scotland.

beater (bē-tē'), n. One who is beaten.

beater, n.—Porcupine beater, a cylinder or beater consisting of a number of spikes or blades for opening and mixing the matted layers of cotton from the bale; part of a machine known in the cetton-factory as an opener. Also called porcupine cylinder, beat still (bet'fill) n. Theat's n. + bill 1 A beatbalita (bet'al.it) n. [After Professor beater, n.—Porcupine beater, a cylinder or beater consisting of a number of spikes or blades for opening and mixing the matted layers of cetton from the bale; part of a machine known in the cetton-factory as an opener. Also called porcupine cylinder.

beat-hill (bet'hil), n. [beat3, n., + hill.] A heap of beat or land-parings ready for burning.

Also called beat borough

Also called beat-borough.

beating-vat (be'ting-vat), n. A vat in which the liquor extracted from the fermenting indigo-plant is agitated to expose it to the air, in order that the indigo white it contains may be oxidized to indigo blue. The operation was formerly done by natives who beat the liquor with paddles, but it is now done mechanically.

Beatson's operation. See *operation.

beat-tone (bet'ton), n. In acoustics, a musical tone produced by a beat too rapid to enable the separate pulses to be distinguished, and having a frequency falling with the range of audibility. Combination-tones, which are described by Koenig as beat-tones, are held by some authorities, notably by von Helmholtz, to have a different explanation.

What becomes of the beats when they occur too rapidly to produce on the ear a discontinuous sensation? On this matter there have been several conflicting opinions, some holding, with Lagrange and Young, that they blend into a separate tone; others, with von Helmholtz, maintaining that the combinational tones can not be so explained and arise from a different cause. Let it be observed that, even becket.

Beckwith's clover.

See **elover.

if beat-tones exist, it is quite possible for beats and beat-tones to be simultaneously heard.

Smithsonian Rep. 1890, p. 342.

beau-catcher ($b\bar{o}'$ kach-ėr), n. A small flat eurl worn by women on the temples. [Humorous.] Beaufort beds, scale. See *bed¹, *scale³, n. Beau gregory. See *gregory. beau-idealize (bō″ī-dē'a-līz), v. t. To invest with ideal qualities. [Nonce-word.]

Beaujard process. See *process.

beaumontage (bō-moń-täzh'), n. [Beaumont, a suruame, +-age.] A name of various compounds used for filling up holes which it is de-

the purpose.

beauregarde (bo're-gard), n. A corruption of *budgerigar.

beauty, n.—Painted beauty, a nymphalid butterfly, Vanessa huntera, common to the United States and the Mexican table-land. Its larva feeds on the everlasting (Gnaphalium) and allied plants. The wings above are dark brown, with large irregular spots of golden orange and several white spots at the apex of the front pair. The hind wings each have two submarginal eye-spots on the under side.

beautyship (bu'ti-ship), n. The personality of a beauty: as, your beautyship: formed on the analogy of ladyship. Bailey, Festus. N. E. D. Beauvais tapestry. See *tapestry.

Beaver parasite, a peculiar coleopterous insect, Platypsyllius castoris, type and sale species of the family Platypsylliue, occurring upon European and American beavers, where it may feed on the hair or epithelial scales, or upon a parasitic mite, Schizocarpus mingaudi.

lyle. [Rare.]

beaver; a beaverish trait. Carlyle.
beavery (bē'ver-izm), n. The condition of a beaver; a beaverish trait. Carlyle.
beavery (bē'ver-i), n.; pl. beaveries (-iz). A place where beavers live or are kept. land. N. E. D.

beblast (be-blast'), v. t. To blast completely; dry or wither up: as, "beblasted with lightning," Phaer. Æneid.

beblood (be-blud'), v. t. To smear or cover with blood. North, Plutarch, p. 16.

bebog (be-bog'), v. t.; pret. and pp. bebogged, ppr. bebogging. To entangle in a bog. [Rare.] bebung, n. 2. Specifically—(a) Aneffect produced upon the obsolete clavichord by balancing the finger on the key so as slightly to rub the tangent against the string and thus prolong the tone with a gentle pulsation. (b) An effect, common in violin-playing, produced by rocking the finger of the left hand in stopping a string so as to produce a slight waver or tremolo in the pitch. (c) An effect in singing produced by a slight unsteadiness in the breath so as to cause a waver both in pitch and in

resonance. See tremolo and vibrato.

Bec-Carcel (bek-kär-sel'), n. The Carcel lamp, used as a standard of light in France. See light

 \star standard.

See $\star test^1$.

beckelite (bek'el-it), n. [After Professor Friedrich Becke, of Vienna.] A silicate of the cerium metals and calcium (perhaps essentially Ca₃(Ce, La, Di)₄Si₃O₁₅), occurring in octahedrons and dodecahedrons, also in coarse

yellow grains, in the rock of the eleolite-syenite type called mariupolite: found on the shore of the sea of Azov.

Becker's sodium process. process.

becket 2 , n. (f) A large hook used in loading logs on cars by means of tackle. (g) In marine hardware, a brass or iron ring forming a part of a metal block, the block and becket

being cast in one piece. becket-block (bek'et-blok), n. pulley-block having a rope-eye or becket.

becket-hitch (bek'et-hich), n. See



becket.

beclaw (bệ-klâ'), v. t. To scratch and claw all over. Holland, Plutarch.

beclog (be-klog'), v. t.; pret. and pp. beelogged, ppr. beelogging. To clog thoroughly, as with ppr. beclogging. something sticky.

beclothe (be-kloth'), v.t. To cover fully with

clothes; clothe.

Becquerel ray. See *ray1, n. Becquerel's electrochemical photometer. See *photometer.—Becquerel's volumenometer. See *volumenometer.
becross (be-krôs'), v. t. To mark with the sign of the cross; decorate with a cross or

crosses.

becrown (be-kroun'), v. t. To crown: as, "the forest which becrowns the isle," Monthly Mag., VIII. 806.

becudgel (be-kuj'el), r. t.; pret. and pp. becudgeled or becudgelled, ppr. becudgeling or becudgelling. To belabor with a cudgel; cudgel

soundly. becuiba fat. Same as becuiba-tallow (which see, under tallow)

see, under tatlow).

beding. A. A. (a) The curved piece of wood which forms the main section of the platform carriage-part of a whiche the main section of the platform carriage-part of a whiche the main section of the platform carriage-part of a whiche to Upper Triassic strata in the Loundary Alps.—Ashley beds, in geol., a name introduced by Thomey for beds in South Carolina, along the Ashley river, consisting of calcareous maris of Ecoene age and lying above the Santee beds. They abound in fossils, among which remains of the extinct whale, Zeuglodon, are notable.—Back-set bed, an inclined layer deposited at the head of a glacial sand-plain as the ico-mass retreats.—Bathy-opsis beds, the organie or paleontologic name given to the Wind River group of the Lower Ecoene in the Rocky Mountain region. See Wind River *\text{\text{group.}}\$—Beaufort beds, in geol., a division of the Karoo formation in South Africa, regarded as of Permian age, consisting of nearly horizontal sand and shale beds with intercalated voleanic rocks, and constituting the middle division of that group. They contain a considerable flora, in which the geous Glossopter's is conspicuous, and a remarkable reptilian fauna.—Bed of state, a richly decorated and finely appointed bed for show, or for use on state occasions, as when the dead body of some great personage is lying in state. See *\text{\text{state}}\$-d.—Belgrano beds, in geol., a division of the Lower Ecoene of the London basin lying below the London clay and above the Woolwich beds. These strate, though of slight thickness (20-40 feet) and almost wholly composed of rolled flints, have afforded unmore so sais, mostly marinogenesis and sauds, and contain many fossils. See London day of the Lower Ecoene of the Upper Jurassic, equivalent in part to the Kimmerlege clay of orbits and subject of the Lower Ecoene of the Capts and sauds, and contain many fossils, mean and indicate a littoral deposit.—Borkholm beds, in geol., a division of the Eather Subject of the Triassic beds, in geol., a divisio

Coal-measures.—Dingle beds [Dingle, a towo in County Kerry, Ireland], strata lying at the base of the Old Red Sandstone in Ireland.—Dossena beds [It. Dossena, a Sandstone in Ireland. — Dossena beds [It. Dossena, a divisition of the Bilddie Triassic or Keuper formation in the southern Alps.— Egoln beds (G. Lepin, a town in Prussia), in Alps.— Egoln beds (G. Lepin, a town in Prussia), in Alps.— Egoln beds (G. Lepin, a town in Prussia), in Its is regarded by German geologists as equivalent to the top of the Lower Oligoene. It is preceded by the Lower Brown-coal series and overlain by Middle Oligoene beds. It is characteristic fauma consists of marie lamelilibranchs (Odrea ventrilabrum), gasteropods, and coralis.— Egolus beds, in good, a shorivision of the Freat State of the Control of the Present State of the Control of the

Lafanette *group.—Lenham beds, in geol., a division of the Phiocene Tertiary in Britain lying near the base of the scries, below the coralline crag. In Kent it overlaps the Chalk, and yet its fossils show that it is not Early but Middle Tertiary. It is the equivalent of the Diestian stage of the Continent.—Lenticular bed. See *Lenticular.—Loup Fork beds, in geol., a division of the Miocene Tertlary in the interior of the United States constituting the uppermost part of the series above the Deep River beds. Its strata are partly of lacustrine and partly of fluviatile origin.—Magellanian beds, a series of Oligocene or Upper Eocene beds in Patagonia, named from the Strait of Magellan.—Nanalmo beds, in geol., a series of coal-bearing strata of Cretaceons age on Vancouver Island.—Naples beds, in geol., a series of Upper Devonian strata in western New York characterized by the presence of a pelagic fanna abounding in goolatites.—Narrabeen beds, in geol., a subdivision of the Triassic Hawkeshury scries in New Sonth Wales lying at the base of the formation and overlain by the Hawkeshury sandstone. These beds are sandstones and shale, rising to a tbickness of about 2,000 feet.—Nodule beds, in geol., a local term applied to conglomerite deposits which lie at the base of the red and coralline crags, belonging to the Pliocene Tertiary of England. Also known as bexelones.—Osborne beds, in geol., the lower nember of the lacustrine Pliocene series of Texas and Kansas, identical with the Goodnight beds, and containing a fossil fanna of horses, rhinoceroses, and camels.—Pantolamhda beds, in geol., the biotic designation of the Torrejon group of the basal Eocene Tertiary in New Mexico, named from the baracteristic genus of its mammalian fanna.—Paradoxides beds, in geol., the seep and gray marls, aggregating 50 to 150 feet in thickness, which contain an abundant formity in the proposition of the Organian series which contain the fauna characterized by the tribolite genus Paradoxides (which see).—Partnach beds, in geol., a series stone in the former and above the Esnon imestone in the latter.—Raikfüll beds, in geol., a division of the Upper Silurian rocks in the Baltic provinces of Russia, lying near the middle of the series and comprising about 100 feet of coral reefs and flagstones.—Ranikot beds, in geol., the lowest division of the Eccene Tertiary in the Sind distriet of India, containing an abundant marine fauna with some species of Cretaceous affinities.—Reading beds, in geol., the lowest division of the Eccene Tertiary in the llampshire basin in England, and lying above the Thanet sand in the London basin.—Rhetic beds. See **Rhetic.**Rhenan beds, in geol., the lower division of the Devonian system in the Rhineland, subdivided in ascending order into the Gedinnian, Tamusian, and Coblentzian.—Saarbrücken beds, in geol., the lower or main coal-bearing heds of the Carboniferous system in North Germany. These are from 5,000 to 9,000 feet thick, with 82 workable and 142 unworkable coal-seams, or in all between 350 and 400 feet of coal.—St. Erth beds, in geol., the uppermost division of the older Pliocene Tertiary in Britain, limited to a patch of clay in Cornwall which has produced a considerable number of organic remains.—Salina beds, in geol., the saliferous deposits of New York, forming the final stage of the Silurian: formerly termed the *Onondaga salt.* Camillus shale, Bertie water-lime.—Sandgate beds, in geol., a subdivision of the Lower Greensand struta on the Isle of Wight, lying under the Folkestone beds and over the Hythe beds.—Sandling beds, in geol., a subdivision of the Carinthian stage and lying over the Railb beds.—San Fedro beds, in geol., a Pedro, and will self of the Triassic rocks in the Mediterranean basin pertaining to the Carinthian stage and lying over the Railb beds.—San Fedro beds, in geol., a pleistocene series of sediments named from San Fedro, Cal., their typical locality.—Santee beds. See Santee.—Seis beds, in geol., the lowest subdivision of the Triassic rocks in the southern Alpa.—Skelgil beds, in geol., a the titanothere Telmetatherium.—Timber-belt beds, in good, a division of the Eocene exstem of Texas: same as the standard, to make, to make the summary level layer of sediment that is deposited on the pure surface of a delta as it is built forward.—Uintans therium beds. See Vicksburg group.—Warminster beds, in good, the upper more of the gold of the upper surface of a delta as it is built forward.—Uintans see Vicksburg group.—Warminster beds, in good, the upper more of the glad of the upper more of the group of the upper surface of a delta as it is built forward.—Uintans see Vicksburg group.—Warminster beds, in good, the upper more of the group of the upper surface of a delta as it is built forward.—Uintans of the upper surface of a delta as it is built forward.—Uintans see Vicksburg group.—Warminster beds, in good, the upper more of the group of the upper surface of a delta as it is built forward.—Uintans see Vicksburg group.—Warminster beds, in good, the upper more of the group of the upper surface of a delta as it is built forward.—Uintans see Vicksburg group.—Warminster beds, in good, the built forward.—Uintans see Vicksburg group.—Warminster beds, in good, the built forward.—Uintans as developed in Witshire, England.—Warp bed, in good, the lowest division of the pelagic Trias of the Mediterranean province, a member lying above the Marmohada limestone and below the St. Cass as ub beds; no good, and the lowest division of the St. Cass as ub beds; no good, and the castern and southern Alps.—Willow beds, in good, the lowest division of the stages of the Upper Trias.—Werfer beds, in good, and with castuarine fossils, while the Reading beds in English of the Capacid Trias in the castern and southern Alps.—Willow beds, in good, and with castuarine fossils, while the Reading beds in English of the Vipper Critaceous in the Canadian Northwest convenient height.

Bedlington (bed'ing-ton), n. [From Bedling-ton, one feel or legs are beds of the Eocene Tertiary, forming the color is bluish, liver-colored, or sandy.

Bed

bed¹. v. t.—To bed a tree, to level up the place in which a tree is to fall, so that it may not be shattered, [U. S.]

bedamn (bē-dam'), r. t. To damn or curse roundly or with iteration and emphasis.

bed-and-platen (bed-and-plat'en), a. Of or pertaining to the bed and the platen of a printpertaining to the sed and the platen of a printing-press.—Bed-and-platen movement, a printing-press movement by which the types on the bed and the platen above are at once brought together to print the sheet between: in contradistinction to a cylinder movement, which impresses the types that pass under it upon an oscillating bed-plate.—Bed-and-platen press. Same as platen press (which see, under platen).

bedangled (be-dang'gld), p. a. Beset with bedpost, n.—Devil's bedposts, a nickname for the dending things. Swift dangling things. Swift.

bedbug, n.—Gigantic bedbug, a reduviid bug, Conorhinus sanguisum, of North and Central America. It was probably at first an inhabitant of the nests of field-mice and gophers, but it now often infests houses, especially in the southwestern United States.

bedbug-hunter (bed'bug-hun'tèr), A reduviid bug, Reduvius personatus, of cosmopoli-tan distribution, which inhabits houses, where it preys upon bedpreys bugs, flies, household other pests. When young it disguises its appear-ance by covering itself with dust and fibers, which adhere to a sticky secretion of the body. Called the masked bed-

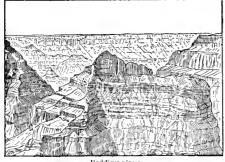
bed-claim (bed'klām), n. In mining, a claim which includes the bed of a river or creek. Australia.



Bedbug-hunter (Reduvius person r or Kissing-bug natus), Twice natu

(Howard, U. S. D. A.)

Bedded volcano. See *volcano. bedding-fault (bed'ing-fâlt), n. See *fault. bedding-plane (bed'ing-plān), n. The plane of stratification or bedding in a sedimentary The plane



Bedding-plane

series of rocks. It marks the surface upon which each succeeding layer of sediment was deposited, and, nnless subsequently disturbed, is usually almost level.

bedeckt, pp. A simplified spelling of bedeeked. bedewment (bē-dū'ment), n. Dew-like moist-

Bedford cord, shale. See *cord1, *shale2.

tering an animal or of its parts; or of a house. beef-fat (bef'fat), a. In stock-raising, fat and

convenient height.

Bedlington (bed'ling-ton), n. [From Bedling-ton, a parish in Northumberland.] A breed of beefing!, n. II. a. Beef-forming; beef-promoderate-sized short-haired terriers with narmoderate-sized short-haired short-hair

Records of Shelley, etc. bed-plane (bed'plan), n. In geol., the junction between two layers or strata. Dana, Manual of Geol., p. 111.

bed-plank (bed'plangk), n. In mining, a plank in the lining or floor on the foot-wall side of an inclined shaft on which the hoisting-bucket slides

bed-plate, n. 2. An iron plate on the bed of a carriage, serving as a support to the king-bolt socket.

bedpost, n.—Devil's bedposts, a nickname for the four of ciubs.

bedropt, pp. A simplified spelling of bedropped.

bedrug (bedrug'), v. t. To drug thoroughly; saturate with drugs. [Rare.]

bedsted, n. A simplified spelling of bedstead. beel, n. 4. [cap.] In astron., the constellation generally called Apis or Musca.—Blunttongued burrowing bee, any aculeate hymenopterous insect of the family Colletide.—Dammar bee, a wild East Indian bee, Melipona vidua.—Horned bee, a European megachilid bee, Osmia rufa (formerly 0. bicornis), which has a two-horned head.—Leaf-cutting bee, any aculeate hymenopterous insect of the genus Megachile, which cuts fragments of leaves with which to construct its cells.—Mosquito bee, any one of the stingless tropical bees of the genera Melipona and Trigona.—Ploneer bee, the Enropean solitary bee, Odynerus murarius.—Potter-bee, any one of certain bees of the aculeate hymenopterons family Megachilide, which construct small globular cells of earth and attach them to the stem of a plant.—Sharp-tongued burrowing bee, any aculeate hymenopterons insect of the family Andrenide.—Solitary long-tongued bee, any long-tongued bee, any long-tongued bee except those belonging to the social families Apidæ and Bombidæ.

B. E. E. An abbreviation of Bachelor of Electrical Engineering

B. E. E. An abbreviation of Bachelor of Electrical Engineering.

bee-apron (be'ā-prun), n. An apron worn by bee-keepers as a protection against stings.

bee-keepers as a protection against stings.
bee-balm (bē'bām), n. See balm, 7.
bee-beetle (bē'bē-tl), n. A European beetle,
Trichodes apiarius, of the family Cleridæ, red
and blue in color, which destroys the larvæ of
the honey-bee. Other species of the samo genus live in the nests of wild bees.
bee-brush (bē'brush), n. In beekceping, a soft
brush need in handling live bees.

brush used in handling live bees.

beech¹, n. 2. Any one of several trees of different genera having a real or fancied resemblance to the true beeches; especially, Cryptocarya glaucescens, of the laurel family. Also called she-beech and black beech. [Aus-Also called she-beech and black beech. [Australia.]—Beech pottery. See American *pottery.—Beech seedling mildew. See *mildew.—Beech far. See *tart.—Black beech. Same as *beech!, 2.—Copper beech, a highly ornamental variety of the common beech, Fajnus sylvatica, with red sap in the cells of the epidermis of the leaves which gives them a copper color and somewhat metallic luster. Also called purple beech.—Evergreen beech, the name in Australia of Nothofagus Cunninghami, the only tree there properly called beech.—Native beech, the name in Australia of Calticoma serratifolia, a tree of the saxifrage family.—Queensland beech. Seem as Australian beech (which see, under beech!).—Water-beech, See water-beech.—White beech. See white.

beech-blight (bēch'blīt), n. An American plant-louse, Pemphigus fagi.

moth, Stauropus fagi, whose larva feeds on the beech. Kirby and Spence.

An attachment to a hive designed to control the movements

turi. 2.

bedidlik (be-did'lik), n. [Egypt. Ar.] A gold
coin of Egypt, equal to 100 piasters or about
\$4.97.

bedikah (bā-di-kā'), n. [Heb. bedīkah, exambedikah (bā-di-kā'), n. [Heb. bedīkah], n. [Heb. bedīkah, exambedikah (bā-di-kā'), n. [

in high condition, or ready for market. [U.S.]

Twenty-five or more years ago, while ranges were unrestricted and grass was iree, it was no uncommon sight to see five- and six-year-old Texas steers coming into market beef-fat off the range.

Rep. Kan. State Board Agr., 1901-1902, p. 60.

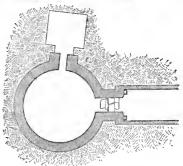
bedog (bē-dog'), v. t. 1. To assail with the epithet 'dog.'—2. To follow like a dog; dog: family Bombyliidæ: so called on account of as, "hatred bedogged his steps," Trelawney, Records of Shelley, etc.

cattle with Cystieercus bovis, the larval stage of Tænia saginata (the most common of the larger tapeworms of man). In cattle the parasites are found especially in the tongue and the muscles of the jaws. When the infection is very severe this condition is sometimes called acute cestede tuberculosis. bee-glove (be'gluv), n. A cotton glove soaked in theseed-oil and dried in the sun, worn by hear keepers to protect the band.

in finseed-oil and dried in the sun, worn by bee-keepers to protect the hand.

beehive, n. 3. A covered cup or jug for holding honey, sugar, etc.—4. [cap.] In astron., a name for Præsepe, the cluster of stars in Cancer.—Beehive kiln. See *kiln.—Beehive tomb, an artificial subterranean sepulcher of the Mycenæan age in Greece. It is composed of two parts, a horizontal trench, called the dromos, cut into the sloping side of a hill, and a circular chamber, called the tholos, in which it terminates. The tholos is excavated vertically from





Beehive Tomb. Section and plan of the Treasury of Atreus at Mycenæ, Greece.

the face of the rock to the level of the dromos, and has the form of an old-fashioned beehive. There is sometimes a rectangular chamber connected with it. The entire interior was faced with masonry and decorated. A fine example is the so-called Treasury of Atreus at Mycense.

bee-hunter (bē'hun-tèr), n. One who hunts or searches for swarms of wild bees.

bee-keeper (be'ke-per), n. One who keeps honey-bees; an apiarist.

beekite (bēk'īt), n. [Named after Dr. Henry Beeke (1751-1837), dean of Bristol.] A kind of chalcedony replacing shells, corals, etc., in the New Red conglomerate of South Devon,

bee-kite (be'kīt), n. The honey-buzzard, Pernis mellivora, which feeds on bees and honey.

Beekmantown limestone. See *limestone.

beech-drops, n.—Carolina beech-drops, the sweet pine-sap, Monotropsis odorata. See Schweinitzia.

beech-fern, n.—Broad beech-fern, hexagonoptera, of eastern North America.

beech-moth (bēch'môth), n. A European moth. Ntauropus fuai, whose larva feeds on specially useful in fumishing nectors to beech.

specially useful in furnishing nectar to bees; a honey-plant. Among well-known bee-plants are the lindens (see bee-tree), the common red and white clovers, the sweet clover, and the common buckwheat. The name has been applied specifically to Scrophularia Marylandica and to S. Californica. The Rocky Mountain bee-plant (also called bee-weed) is one of the spider-flowers, Cleome serrulata.

cleome serruana.

beer1, n.—Braga beer, a kind of beer hrewed in Russia.—Lager-beer. The name is often loosely applied to any German heer, or any beer made by German methods.

Milk beer, a name sometimes given to kumiss.—

Weiss-beer, the German name for beer made chiefly from wheat malt and sold for consumption while the secondary fermentation is still in progress. heer1

beerbachite (ber'bak-it), n. [G. Beerbach ('Berry brook'?), a stream in the Odenwald, Baden, + -ite2] In petrog., the name of an irroon rock-ite of the petrog. igneous rock of panautomorphic granular texture, consisting of labradorite, diallage, and magnetite, with other subordinate minerals. It was first named by Chelius (1894), and considered to be a haplitic differentiation-product

beer-wort (ber'wert), n. Wort prepared by

converted into beer. bee-smoker (bē'smo"ker), n. In bee-keeping, a small portable furnace fitted with a bellows: used to produce a cloud of smoke and to blow it into a hive to stupefy the bees and keep them quiet when the hive is opened to remove the hefeast (be-fest'), r. t. To treat to a feast; honeveomb.

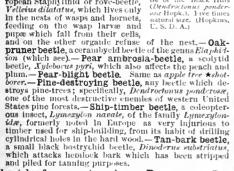
Beeswax cement. See *cement.

Beetarmy-worm, carrion-beetle. See *armyworm, *carrion-beetle.—Chytridiose of beet. See *chytridiose.

bee-tent (be'tent), n. A cover or tent placed over a hive to protect it from the bees of other hives.

beetle? n.—Aberrant long-horned beetle, any member of the cerambycid series belonging to the small and somewhat discrepant family Spondylidæ. Four species are known in North America, and all live under the bark

somewhat unsergrain taminy Sponda are known in North America, and a of pine-trees.—Brazilian beetle, See Brazilian beetle, See Brazilian the colcopterous family Cleride, the species of which are usually beautifully marked with strongly contrasting colors.—Elm leaf-beetle. See *leaf-beetle.—Feather-wing beetle, any member of the colcopterous family Trichopteragide, an assemblage of very small species having long narrow whigs so fringed with long hairs as to appear feather-like.—Hornets'-nest beetle, a large and powerful European Staphyllinid or rove-beetle, Velleius dialatatus, which lives only in the nests of wasps and hornets. Pine-description of the Black Huns (Dendroctonus ponder-osa Hopk.). Five times natural size, (Hopkins,



Pine-destroying Bee-e of the Black Hills

beet-leaf maggot, miner, Pegomya. See *maggot, *leaf-miner, *Pegomya. beetle-crusher (be'tl-krush*er), n. A large

foot. [Slang.]

beetle-sticker (be'tl-stik"er), n. A joeular name for an entomologist.

beetle-weed (bô'tl-wêd), n. See *Galax.

Beet-root gum. See *gam².—Beet-root sugar. The manufacture of sugar from beeta has attained an enormous development, a larger product from this source than from sugar-cane being made, in ordinary years, for the general commerce of the world. Sugar from these two plants is when purified absolutely the semants. two plants is, when purified, absolutely the same sub-

beet-scab (bet'skab), n. A disease of beet-roots caused by the fungus Oöspora seabics. See ★scab.

beet-sugar (bet'shug"är), n. Same as beetroot sugar, under beet-root.—Beet-sugar industry, the commercial production of sugar from the beet.
In the United States this business after many failures became successful from 1888 onward. In 1903 there were
55 factories in operation with a total annual capacity of
528,104 tons of sugar. The State of Michigan led, followed at rather long lutervals by California, Colorado,
Utah, Nebraska, and New York, five other States having
one factory each. See *sugar-beet. The annual period
of working up the crop, called the campaign, occuples
about 100 days. In the factory the beets, after being
washed and weighed, are sliced into cossettes (see *cossette) and the sugar is extracted in a "dilusion battery,"
consisting of 14 air-tight cylindrical steel vats, each holding sevaral tons, in which, under some pressure, the cossettes are subjected to 14 applications of hot water, the libeet-sugar (bet'shug "är), n. Same as beet-

quid passing from one vat to another. The sugary water is defecated by being mixed with lime, "carbonated" (see carbonation), and filtered, the process being once repeated, then, after being treated with sulphur finnes, evaporated to "thick juice," and through several further stages brought to the state of granulated sugar. The local requisites for a factory are, besides a supply of beets with high sugar content, a sufficiency of pure water, of fuel (coal most often used), and of limestone, together with transportation facilities.

DRE-VAN (DE VAN). W. A warm used in in-

bee-van (bē'van), n. A wagon used in in-

struction in bee-culture.

County councils have already done good work in providing lectures and demonstrations by means of travelling bee-vans.

Natural Science, Oct., 1896, p. 273.

bee-veil (bē'vāl), n. A veil or netting worn over the head to protect the face from the attacks of bees while removing honey from a hive or working about it. It is worn over the hat and tucked under the coat, or drawn over a light metal frame which covers the head and

of the gabbroic magma.

rests on the shoulders.

beer-wort (ber'wert), n. Wort prepared by the infusion of malt with water, intended to be beewise (be'wiz), adr. In the manner of the bee. [Rare.]

On every side occurred suggestive germs Of that—the tree, the flower—or take the fruit, Some rosy shape, continuing the peach, Curved beavise o'er its bough.

Browning, Pippa Passes, II. 90.

A simplified spelling of befell. hefel. nret. befreeze (bē-frēz'), r. t.; pret. befroze, pp. be-frozen, ppr. befreezing. To freeze up or over; freeze thoroughly or completely.

befrend, v. t. A simplified spelling of befriend. befriender (be-frend'er), n. One who befriends another.

Love and serve Man, angelical Befrienders, Edwin Arnold, Light of the World, p. 24.

beg, r. i.—To go a-begging, to go about begging; figuratively, to have difficulty in finding a purchaser (for something offered for sale) or an incumbent (for an office to be filled), etc.; hence, to be in little demand; have little or no value or acceptance.

begar (be-gär'), n. [Hind. beyār, forced labor (beyāri, a forced laborer), < Pers. bīkār, with-

out work, unemployed ($bik\bar{a}ri$, idleness), $\langle bi$, without, $+k\bar{a}r$, work.] Forced labor in some parts of India, as in the construction of roads,

irrigating banks, etc. [Anglo-Indian.]
begarry (be-gü'ri), n.; pl. begarries (-riz).
[Hind. begarī: see *begar.] One who is en-One who is engaged in forced labor. See *begar. [Anglo-Indian.]

beggar, N.—Beggar's ultramarine black. Same as Spanish black (which see, under black).—Beggar's velvet, the loose, fuzzy, wool-like particles which collect in the seams of clothing and under furniture, carpets, etc. beggar's-lice, n. 3. A name of the European stickseed. Lappula Lappula; of the hound'stongue, Cynoglassum officinale; of the species of Meibonia (see *beggar-weed, 2); and proba-

bly of other plants with adhesive seeds or pods. beggar-weed, n. 2. A plant of any species of Melbomia, the tick-trefoil, particularly of M.

Methomia, the tick-trefoil, particularly of M. tortuosa, the Florida beggarweed. This is a tall species, native in the West Indies and probably in southern Florida, now found very valuable for forage and solling purposes on light sandy soils in the warmest parts of the southern United States.

Beggiatoa (bej-i-at'ō-ii), n. [Mr. (Trevisan, 1842), named after Beggiato, an Italian botanist.] A genus of filamentous bacteria consisting of non-scutate.

consisting of non-septate, mostly colorless filaments containing sulphur granules and possessing an undulatory motion. They occur chiefly in sulphur springs and sea-water. B. alba is the most com-mon species; it occurs on decay-ing plants in sulphur springs and produces slimy flakes.

Beggiatoaceæ (bej"i-a-tōā'sē-ē), n. pl. [NL., \langle Beg-giatoa + -aeew.] A family of filamentous bacteria, typified by the genus Beg-

beggingly (beg'ing-li), adv. In the manner of a beggar; as a beggar. Florio.

Even my bonnet . . . how beggingly she looks at that.

Miss Mitford, Our Village, I. 51. thrust gifts upon. Carlyle. begigged (be-gigd'), p. a.

Infatuated; erazy: as, begigged about bridge

whist. [Colloq., southern U. S.]
begon, r. A simplified spelling of begone.
begoniad (bē-gō'ni-ad), n. [NL., < Begonia +
-adl.] A plant of the family Begoniaces.
beharad (bā-hā-rād'), n. A mnemonic word
representing the four letters B H R D, which
inlights necessiting to Holyang showed as the indicate, according to Hebrew chrouology, the indicate, according to Hebrew chrouology, the first molad of creation. See *molad. The numerical value of the four Hebrew letters is 2, 5, 200, and 4. The 2 stands for Monday (the day when the "great lights" were created), the 5 for the fifth hour (11 A. M.), and the 204 for the parts of an hour. Since an hour contains 1,080 parts, and the lunar month contains 29 days, 12 hours, and 793 parts of an hour, the first molad would fall on Monday at 5,355 or about 11.12 A. M.

behead, v. t. 3. To tap (a stream) and divert its upper waters through new channels: said of the encroped burnet of one stream upon another.

the encroachment of one stream upon another in such a way as to 'capture' its head and upper tributaries.—Beheaded river, in phys. geog., the remaining lower course of a river after its former upper waters have been captured or diverted to another

beheadal (bē-hed'al), n. [behead + -al.] Beheading: decapitation.

behed, v. t. A simplified spelling of behead. behen, n. Also, same as ben. — Oil of behen. Same as ben-oil.

behenic (bē-heu'ik), a. Same as benic.—Behenic acid, a crystalline acid, $c_{22}II_{14}O_{2}$, found in behenil from the seeds of Moringa Moringa. It melts at 73°C. behen-oil (bē'hen-oil), n. Same as ben-oil.

behenolic (be-he-no'lik), a. [behen + -ol + -ic.] Derived from behenic acid.—Behenolic acid, a crystalline acid, C₂₂II₄₀O₂, obtained by treating dibrombehenic acid with alcoholic potash. It melts at 57.5° C. Behmenism, n. Same as *Bochmenism.

Behmenist, n. Same as *Bochmenist.

behold, r. t. 4. In astrol., to cast (an aspect). behram (bū'rām), n. A copper coin of Mysore, and the balf a price.

equal to half a pice. beige, a. II. n. A thin, wiry dress-fabric of worsted, originally unbleached, but now made

in all colors and many designs. beignet (bān-yā'), n. [F.] A fritter composed of various ingredients.

beiju (bā-ē-zhö'), n. [Pg., from Braz.] The name in Brazil for cassava-bread. See cassava. being, n. 7. A living; livelihood; means of subsistence; home. Spectator, No. 544. [Ob-

solete or prov. Eug.] "I shall have enough to do to keep a beein for you" (Mrs. Gummidge meant a home) "again you come back—to keep a beein here for any that may hap to come back, Dan'l."

Dickens, David Copperfield, xxxii.

Truth of being, the totality of that which is such as it is independently of any assertion about it; truth in the objective sense.

beingless (bē'ing-les), a. Without being; non-existent. Galt.

beingness (bē'ing-nes), n. Actual existence; entity. J. Chandler.

entity. J. Chaudter.
be-inked (bê-inkt'), p. a. Smeared or daubed
with ink. Charlotte Brontë, Villette, xxxv.
beisa (bī'sā), n. [Northeast African.] A
large antelope, Oryx beisa, of northeastern Af-



rica, of a light-gray color with black markings. The horns are long, almost straight, and directed backward. It is a near relative of the

begift (be-gift'), v. t. To bejuco, n. 2. A name applied especially to thrust gifts upon. Carlyle. monorops, known commercially as ratans. The



Beggiatoa alba.

neggrates alba.

a, living filament, showing sulphur granules; b, filament after treatment with sulphur carbonate. Magnified.

beiuco

Friend, I. ii. 12.

bel. u. A simplified spelling of bell.
B. E. L. An abbreviation of Bachelor of English Literature: same as *B. Lit.

ush Literature; same as *B. Lit.
belah (bē'lā), n. [Native Australian.] The
desert she-oak. Casuarina glauca, widely distributed throughout Australia, yielding a hard,
durable wood. Also beala, belar, billa, and
beal; known among the colonists as bill-oak.
See she-oak.

belamarine (bel-am'a-rin), n. [Appar. bel-(ladonna), + Amar(yllis) + ine².] An alkaloid formed in the tubers of Amaryllis belladonna, which grows in the islands of the Caribbean Sea. It crystallizes in colorless needles.

Belamcanda (bel-am-kan'dii), n. [NL. (Adanson, 1763, adopted from Rheede, 1692), from the Malabar name of the plant.] Agenus of monoeotyledonous plants belonging to the family Iridaceae. See Pardanthus.

belay, r. t.—Belay, there! hold on! stop! enough!—
an order to sailors preparatory to making fast the rope
on which they are hauling.
belduque (bel-dö'kā), n. [Mex. Sp.; said to be

a corruption of Sp. rerdugo, a sword.] A large, heavy sheath-knife, used in Mexico and some parts of the western United States

belemnitoid (be-lem'ni-toid), a. [Belemnites + -oid.] Allied to Belemnites.

Belemnocrinus (be-lem-nok'ri-nus), n. [NL., ⟨Gr. βέλεμνον, a dart, + κρίνον, a lily.] The only genus of an extinct family of the Crinoidea, or fossil encrinites, termed Belemnocrinidæ. It oecurs in the Lower Carboniferous rocks of the Mississippi valley.

belemnoid, a. II. n. One of the Belemnoidea; a belemnite or fossil dibranchiate cephalopod,

or a related form.

Belemnoidea (be-lem-noi'de-ä), n. pl. [NL. ⟨Gr. βέλεμνον, a dart, + εἰδος, form.] An order or suborder of the dibranehiate eephalopods, now almost extinct, but very abundant in the now almost extinct, but very abundant in the Mesozoic age. They have internal chambered shells with septa traversed by a siphunele, the posterior part of the shell bearing a calcareous guard or sheath. The arms, 10 in number, are provided with hooklets. Some authors include in this suborder the coiled living Spirula. In several of the fossil species the head, arms, and ink-bag of the animal have not infrequently been preserved.

Belemnoteuthidæ (be-lem-nō-tū'thi-dē), n. pl. [NL., \langle Belemnoteuthis + -idæ.] A family of Belemnoidea, or dibranchiate cephalopods, with a shell composed of a gonie phragmacone and

a shell composed of a conie phragmacone and proöstrachm, and the rostrum or guard greatly

proöstracim, and the rostrum or guard greatly reduced. The species are found in the Triassic and Jurassic rocks.

Belemnoteuthis (be-lem-nō-tū'this), n. [NL., ⟨Gr. βέλεμνον, a dart, + τενθίς, a squid.] The typical genus of the family Belemnoteuthidæ. beletter (bē-let'ér), v. t. 1. To write letters

to; invite or inform by letter.

The University-orator . . . belettered all the lords of the privy-council. Fuller, Hist. Camb., p. 179. N. E. D. 2. To decorate with letters or with appended abbreviations of office or title, such as F. R. Bell process. See *process. G. S., M. R. A. S., LL.D., etc. [Rare in both Ladonna, n.—Japanese belladonna, n.—Japanese twist.

Belgian blocks, nearly cubical blocks of granite, trap or other suitable atone used for pavements.—Belgian canary. See *canary.—Belgian-Silesian furnace. furnace.

belief, n.—Primary belief, in the philosophy of common sense, one of the irresistible beliefs which no man sane enough for the business of life can really doubt, and which, not in the least doubting, we really regard as infallible truths, whether we set down a doubt of them on paper or otherwise make believe to doubt them, or not.

beliefless (be-lef'les), a. Having no belief; indisposed to believe.

And most beliefless, that had most believed. Clough, Easter Day, i. 10

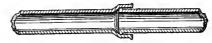
believ, v. A simplified spelling of believe. Belinuridæ (beli-nū'ri-dē). n. pl. [NL., \langle Belinurus + -idæ.] A family of merostome erustaceans closely allied to the living limulus and resembling a larval phase of that erab.

The cephalothorax is broad, abdomen with distinct segments, and the telson a long spine. They occur in the Devonian and Carboniferous rocks.

bell1, n. 2. (g) The movable cap of a blast-furnace. It is lowered to put in the charge of ore, and rises after the charging to keep the top gas-tight. (h) An enlarged section at the end of a cast-iron pipe, the purpose of which is to furnish a means of making a joint with the most nine.

next pipe.

5. A bell-shaped rock-mass of somewhat in doubtful origin occurring occasionally in sedimentary rocks. The inverted position of of these masses leads to the theory that they were the result of some local disturbance of sedimentation. Some may be due to contemporaneous erosion.—Bell and spigot, a form of cast-iron pipe commonly used for underground pipe-



Cross-section of Bell-and-spigot.

lines. Each length of pipe has one straight end, the other end forming a bell large straight end of the next length.

—Belldollar, the silver glockenthaler of Brunswick, which has on it the representation of a bell.

—Bow bells, the celebrated peal of bells of Bow Church (properly the Church of St. Mary le Bow), situated in Cheapside, near the center of the City of London.—Cap and bells. See **capl.—Liberty bell, the bell which was in the tower of the state-house (since called **Independence** **Hall**) in Philadelphia, and which was rung on the occasion of the proclamation of Independence made July 4, 1776. It happened to bear a biblical inscription ("Proclaim liberty throughout the land unto all the inhabitants thereof") which made its use on that occasion especially appropriate, and established its popular name.—Savart's bell and resonator, an apparatus used to show the influence of boxes in strengthening sound. A hemispherical brass veasel is set in vibration by means of a violin bow. A cardboard cylinder, closed at one end, is then placed at varying distances and inclinations, to show its effect as a resonator.—Uterine bell, one of the peculiar hell-shaped or furnel-like structures, with muscular walls, found in the nemathelminth **Echinorhynchus*, whose contractions serve to draw into the bell the impregnated eggs which float freely in the body-cavity, and to force them along into the uterus and vagina and thonce to the exterior.—Within the sound of Bow bells, within the limits of the City of London.

Having been born within the sound of Bow-bells he cannot help being a son of Cockaigne.

Having been born within the sound of Bow-bells he cannot help being a son of Cockaigne.

Punch, Dec. 30, 1894, p. 294.

belladonna, n.—Japanese belladonna, Scopolina Japonica, the rhizome of which appears in trade as a substitute for belladonna.

bella-moth (bel'a-môth"), n. A moth, Utetheisa bella (which see with cut).

belland (bel'and), n. A form of lead-poisoning to which lead-miners are subject. Coal and Metal Miners' Pocket-book.

Sionally used in popular band-music.

Bellvale flags. See *flag4.
bell-wheel (bel'hwēl), n. A form of toothed

bell-bearer (bel'bar-èr), n. A leaf-hopper, Bocydium tintinnabuliferum.

bell-binder (bel'bin-der), n. Same as bellbind

bell-bird, n. 4. In New Zealand, one of the Meliphagidæ, Anthornis melanura.—5. In Anstralia, Oreoica gutturalis, one of the shrikes.

bell-bottomed (bel'bot umd), a. Having flaring bottoms: as, bell-bottomed trousers.

bell-cord n.—Bell-cord hanger, a swinging strap or rod snapended from the roof of a passenger-car and carrying a guide-ring for a bell-cord.

Belleek ware. See *ware.—Carved Belleek.
See American *porcelain.

Belleville boiler. See *boiler.

stems are remarkable for their tenacity, flexibility, and length, and are used in the construction of bridges, houses, and fish-corrals. They also furnish material for cordiage, for the care bottoms of beds and chairs, and for hats, mats, and fine cigar-cases. See ratan, 2, and rataways, a [Philippine Is.]

beknown (be-non'), a. Known: as, "the seamm was beknown to me," Dickens, Mutual Friend I ii. 12.

Belinurus (bel-i-un'rus), n. [NL., appar. an bell-faced (bel'fâst), a. Having the striking terror for *Belonurus, (Gr. βέλον, a needle, + face convex or rounded: said of a hammer. bell-horse (bel'hôrs), n. 1. A horse wearing a bell; especially, a horse adorned with bells, ribbons, etc., used in celebrating May-day, which, in consequence, is called bell-horse day.

Belinurus (bel-i-un'rus), n. [NL., appar. an bell-faced (bel'fâst), a. Having the striking terror for *Belonurus, (Gr. βέλον, a needle, + face convex or rounded: said of a hammer. bell-horse (bel'hôrs), n. 1. A horse wearing a bell; especially, a horse adorned with bells, ribbons, etc., used in celebrating May-day, which, in consequence, is called bell-horse day.

Belinurus (bel-i-un'rus), n. [NL., appar. an bell-faced (bel'fâst), a. Having the striking terror for *Belonurus, (Gr. βέλονη, a needle, + face convex or rounded: said of a hammer. bell-horse (bel'hôrs), n. 1. A horse wearing a bell; especially, a horse adorned with bells, ribbons, etc., used in celebrating May-day, which, in consequence, is called bell-horse day.

Belinurus (bel-i-un'rus), n. [NL., appar. an bell-faced (bel'fâst), a. Having the striking terror for *Belonurus, (Gr. βέλονη, a needle, + face convex or rounded: said of a hammer. here of the family bell-horse (bel'hôrs), n. 1. A horse wearing a bell; especially, a horse adorned with bells, ribbons, etc., used in celebrating May-day, which, in consequence, is called bell-horse day. vantage to exert himself more than his fellow employees, in order to give grounds for the discharge of those who eannot keep up with

the pace set by him. [Slang, Eng.] bellicosity (bel-i-kos'i-ti), n.; pl. bellicosities (-tiz). Bellicose tendency or disposition; war-like intention or desire. Manchester Examiner,

July 9, 1884.

bellite (bel'it), n. [Bell, a proper name, +-ite².]
An explosive, of Swedish invention, consisting of a mixture of 5 parts of ammonium nitrate with 1 part of meta-dinitrobenzene, melted together, pressed while warm, and granulated.

bell-joint (bel'joint), n. An abbreviation of bell-and-spigot joint.
bell-moth (bel'môth), n. The oblique-banded leaf-roller, Archips rosaecana, an American tortrieid moth which when at rest holds its wings in the shape of a bell; also, any other tortrieid moth of similar shape.

wings in the snape of a bell; also, any other tortricid moth of similar shape.

Bellocq's cannula. See camula.

bellows, n. sing. and pl. 2. In photog., that part of a camera which connects the front and back portions and is capable of being extended or closed as desired.—3. In organ-building, the extensive apparatus by which air is supplied and compressed for the sounding of the pipes. It usually includes two distinct parts, an oblique bellows, but on a large scale), by which the air is pumped into the reservoir, and a reservoir, called the storage-bellows, which is a horizontal bellowa (having its top and bottom boards parallel and connected by creased folds of leather) so loaded by blocks of lead or other weights that the air within is maintained at a constant compression or tension. From the reservoir lead off the wind-trunks by which the compressed air is supplied to all parts of the instrument. Furthermore, on the wind-trunks are usually placed small bellows with springs, called concussion-bellows, panting-bellows, or winkers, by which sudden irregularities in pressure are taken up and counteracted.—Facings bellows, in foundry-work, a hand-blower for distributing fine dust or facings over a mold, to give a finished surface to it, preparatory to casting.—Hessian bellows, a blower invented in Thuriogia about 1621. It toonsists of a flat vane having an inlet-valve for air, which reciprocates in a sector-shaped box. The air-outlet is close to the hinge. reciprocates in a sector-shaped box. The air-outlet is close to the hinge.

bellows-leather (bel'oz-leffe'er), n. Leather used in the manufacture of bellows: usually made from side leather.

bellows-tongue (bel'oz-tung), n. tongne stitched in each side of a shoe (usually high-laced) to the top, for protection against snow and water.

bell-pipe (bel'pip), n. A pipe with a bell or soeket at one end to make the joint with the next length.

bell-pit (bel'pit), n. In mining salt and other minerals, a pit which is gradually widened to 100 or 200 feet in diameter, becoming cylindrical below.

bell-scale (bel'skāl), n. In bell-founding, a scale or standard of reference of any sort by which the dimensions, proportions, or pitch of a bell are measured.

bell-strap (bel'strap), n. A strap running lengthwise through a railway or other car and

Japonica, the rhizome of which appears in trade as a substitute for belladonna.

The mania prevalent among people of more ambition than performance for belettering themselves.

Attenæum, May 19, 1899, p. 638.

N. E. D. beleve, v. An obsolete form of believe.

Belgian blocks, nearly cubical blocks of granite, trap or other suitable stone used for pavennents.—Belgian canary. See **canary.—Belgian-Silesian furnace.

Japonica, the rhizome of which appears in trade as a substitute for beladonna.

Japonica, the rhizome of which appears in trade as a substitute for beladonna.

Japonica, the rhizome of which appears in trade as a stateched to a signal-gong.

belladonna belladonna belladonna on the proving the proving the proving the proving the proving the proving trade as a substitute for belladonna.

**Line 1. Japonica, the rhizome of which appears in trade as a stateched to a signal-gong.

belladonna belladonna on the proving trade as a stateched to a signal-gong.

belladonna belladonna on the proving trade as a stateched to a signal-gong.

belladonna belladonna.

belladonna on the proving trade as a stateched to a signal-gong.

belladonna belladonna.

belladonna.

Atropa Belladonna.

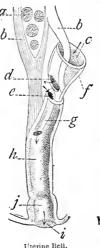
Bellani lucimeter. See *lucimeter.

bella-moth (bel'a-moth"), n. A moth, Utetheisa bearing several small bells which can thus be bella-moth (bel'a-moth"), n. A moth, Utetheisa shaken at once: usually a mere toy, but ocea-

wheel in which the pitch-surface is a frustum of a hyperboloid of revolution. This gives to the wheel a shape which, in projection, suggests the usual profile of a church bell. It was used in textile practice in former times to give a special and varying velocityratio of the driving and the driven shaft.

belly-ache, n.—Dry belly-ache, girdle-pain in the abdomen, due to disease of the spine.
belly-bar (bel'i-bär), n. A bar used in pianoforte-making. See the extract.

Beneath the strings from where the hammers rise, to the bent slde, back, and end of the case, is the sound-board of spruce fir, barred beneath with batons, usu-ally of the same wood, technically "belly-bars," which strengthen the belly, and by increasing its elasticity, ex-tend its power to form nodes or centers of vibration, and



thus respond more promptly and effectively to the vibra-tions which are passed to it from the strings, when set in movement, through the hardwood belly bridge. Sci. Amer. Sup., May 6, 1905, p. 24536.

belly-bump (bel'i-bump), adv. Prone on a sled, as a child in sliding down hill. Dialect

Notes, III. iii, ISI. [New England.] belly-bumper (bel'i-bum"per), n. The act of sliding down bill prone on the sled. In New pelly-bumper (bel'i-bum'per), n. The act of vice for shifting the operating belt of a masliding down hill prone on the sled. In New chine from one pulley to another.

York, etc., belly-ichopper. Also used adverbbelt-frame (belt'fram), n. In shipbuilding, ially. [New England.]

bellyman (bel'i-man), n.; pl. bellymen (-men). In pianoforte-making, one who makes or fits

the soundboards.

Belly River series. See *series.

belly-stay, n. 2. A plate on a locomotive belting, n.—Gnt belting, machine belting made of which goes under the belly of the boiler, acting as a support for the latter and binding the belt-knife (belt'nif), n. A knife which reframe-plates together. When the locomotive volves over wheels, as a band-saw or circular has inside eylinders the belly-stay also earries the cross-head guides.

belodent (bel'o-dont), n. [Belodon.] ber of the reptilian family Belodontidæ.

Beloidea (bel-ō-i'dō-ā), n. pl. [NL., \langle Gr. $\beta \dot{\epsilon} \lambda o_{c}$, a dart, $+ \epsilon i do_{c}$, form.] A family of solitary or colonial peripylæan radiolarians having a skeleton of loose silicious needles. It contains the genera Thalassosphæra, Thalassoplancta, Physematium, Belonozoum, and Sphærozoum.

belonesite (be-lon'ē-sīt), n. [Said to be \langle Gr. $\beta \epsilon \lambda \delta \nu \eta$, a needle (referring to the form of the crystals), $+ -itc^2$. The proper form belonite is nsed in another application.] A magnesium molybdate occurring in white acieular tetrag-onal crystals: found on Vesnvins in the lava

Belonesox (be-lon'ē-soks), n. [NL., < Gr. βελόνη, a needle, + L. esox, a kind of pike (see Esox).] A genus of pœeilioid fishes found in Honduras: characterized by the elongate jaws.

B. belizanus is the known species.
belonophobia (bel-φ-nφ-fö'bi-ä), n. [NL., ζ Gr. βελόνη, a needle, + -φοβία, ζ φοβεῖν, fear.]
A morbid fear of needles and pins.

belonospherite (bel*ō-nō-sfō'rit), n. [Gr. βε-λόνη, a needle, + σφαϊρα, sphere, + -ite².] A term devised by Vogelsang (1872) for minute spherulites with radiate crystalline texture, often found in partly glassy lavas, especially the more silicious ones, such as rhyolite, and in

dibranchiate cephalopods or cuttlefishes from the Eocene Tertiary rocks.

Belou (bel'ö), n. [NL. (Adanson, 1763, adopted from Rheede, 1682), from one of the forms of (Bengali) bel, a Hindu name of the Bengal quince, Belou Marmelos.] A genus of dieotyledonous plants belonging to the family Rutaceæ. See Æglc.

Belpaire fire-box. See *fire-box. belt, n. 6. In a war-ship, the side belt, n. 6. In a war-ship, the side of the vessel, in the vicinity of the water-line, protected by external armor-plating. A complete belt is one in which the armor extends from stem to one in which the armor extends from stem to stern: a partial belt extends over only part of the length.—7. In archery, a strap for snspending the quiver: usually worn round the waist of the archer.—Belt of high pressure, belt of low pressure. See *pressure.—Belt of rains. See *rain!—Cotton belt, the portion of the southern United States adjoining the Gulf of Mexico sud the Atlantic (Including North Csrolins), where cotton is best and most extensively cultivated. See *Cotton States, under cotton!—Thermal belt. See *thermat.

belt-armor, n. It extends from 4 to 6 feet helow the surface of the water and to varying heights above it. In vessels with a partial belt the armor-protection is completed at the ends by a diagonal or athwartships helt in the luterior from side to side. In modern vessels the armoring of the side is continued shove the belt by the casemate armor. one in which the armor extends from stem to

belt-concentrator (belt'kon "sen-trā-tor), n. e *concentrator.

belt-conveyer (belt'kon-va'er), n. See *con-

belt-coupled (belt'kup"ld), a. Connected by a belt: applied specifically to a machine which is driven by an engine through a belt instead

of directly or by gears. belt-course (belt kors), n. Same as string-

belt-driven (belt'driv"n), a. In mach., driven by means of a flexible belt. It is used of pumps, air-compressors, electric generators, etc., somewhat in opposition to direct-connected, which indicates that no transmission element intervenes; and specifically of a form of motor-cycle or motor-car in which a flat or

angular belt is used to transmit power to the driving-wheels instead of a chain or a shaft and gears.

Belted cruiser. See *cruiser.—Belted plains. See * plain.—Belted ship, an early type of armored warship in which the hull protection was concentrated in the water-line armor-belt. White, Manual of Naval

belt-fork (belt'fôrk), n. A two-pronged de-

is to be attached, and hence built up of plates and angles much deeper and stronger than those of the ordinary frames: same as *webframe.

saw: used in splitting hides or skins. Modern

Amer. Tanning, p. 110.

belt-perch (belt'perch), n. A wooden or metal bar placed beside a belt-pulley to support the belt when it is thrown off the pulley for re-This prevents the belt from being

eaught on the revolving shaft. belt-pump (belt'pump), n. A belt-driven punip.

belt-punch (belt 'puneh), n. A puneh made up in the form of pliers for piercing holes in belting through which the lacing or rivets are passed when the ends are coupled together.

Beltrami's equation. See *equation. belt-stretcher (belt'streeh "er), n. A piece of mechanism for stretching new leather belts, especially when they are to be laced or ec-mented, so as to make them grip the pulleys

belt-table (belt'tā"bl), n. Same as *belt-coneentrator

belt-tightener, n. 2. A device used for pulling the ends of a belt together when they are to be laced or cemented. Clamps are attached to the ends of the belt, and are then drawn together by serews.

belugite (be-lu'git), n. [beluga + -ite2.] petrog., the name proposed by Spurr (1900) for granular igneous rocks intermediate in composition between diorite and diabase, especially as to the lime-soda feldspar, which is andesine or labradorite.

artificial glasses. Compare globospherite and belying (be-li'ing), n. The telling of lies about *granospherite. one; calumniation: as, "backbiting and belying," Swinburne, Essays and Studies, Pref. x. Belosepia (bel-ō-sē'pi-ii), n. [NL., ⟨Gr. βέλος, ing," Swinburne, Essays and Studies, Pref. x. a dart, + σηπία, a enttlefish.] A genus of bemaim (bē-mām'), v. t. To maim seriously;

Spoiled of their goods, bemained and slaine. Stow, Annals, p. 673.

bemaster (bē-mas'ter), v. t. To master completely. B. Taylor, Trans. of Goethe's Faust. Bembecides (bem-bes'i-dēz), n. pl. [NL., < Bembex (-bee-) + -ides,] The Bembecidæ considered as a group of less than family rank: vir-

posts, and mauls. From the leaves is obtained an oil resembling cajeput. Also called poplar-

box and red box.

bementite (bē'ment-īt), n. [Named after C. S. Bement of Philadelphia.] A hydrated manganese silicate occurring in grayish-yellow stellate forms with micaceous structure: found at Franklin Furnace, New Jersey.

ben¹, adv. 2. In mining, inward; toward the workings. [Seotch.]
ben¹, n. 2. In mining: (a) The right to enter

the mine and work. A workman may elaim his ben, have his right to cars acknowledged, and delegate it to his boys. Hence—(b) A day's work. The terms quarter-ben, half-ben, three-quarters-ben are used to denote the proportion of a man's darg, or day's output of mineral, which a youth is able or allowed to

put out. Barrowman, Glossary. [Scotch.] benab (bā-nāb'), n. [Also benaboo, from a native name (Carib?) in Guiana.] A temporary shelter made of leaves and branches and supported on a framework of poles. Also benaboo. Guiana. 1

Bence-Jones albumin, albuminuria, albumose. See *albumin.
bench, n. 8. (b) (2) A horizontal subdivision of a bed of coal or other mineral.—11. A glass tray in which microscopical slides can be placed, in a vertical position, for staining or other purposes.—Anxious bench. See *anxious seat.—Mourners' bench. See *mourner1.—Optical bench, an apparatus suitable for experiments in optics, particularly on the interference of light. It consists of a properly supported horizontal brass bar, accurately graduated, along which vertical uprights can slide freely. A vernier is attached to each upright. An adjustable slit, a metal plate for holding special instruments, and a micrometer eyepiece with cross-wire form the usual outfit.—Sloid bench. See *sloid.

bench-board (bench'bord), u. A board used by molders, on which the pattern is laid when starting to fill the flask with sand. This board is removed after the flask is turned over, so that the cope can be put on.

bench-diggings (bench'dig"ingz), n. pl. In mining, river placers not subject to overflow. bench-grinder (bench'grin"der), u. A small machine for grinding which, having short legs, is set on a bench to bring it to a convenient height.

benchlet (bench'let), n. [bench + -let.] A Carlyle.

small bench; a stool. Carlyle.
bench-level, n. 2. The elevation of a surveyor's bench-mark above a given or datum-

benchucha (ben-chö'ehä), n. [From some S. Amer. source?] A large Sonth American reduviid bug, probably of the genus Conorhinus, which sucks the blood of warm-blooded animals, including man.

benchy (bench'i), a. In mining, characterized by benches, as a lode or bed.

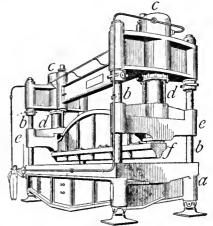
bend¹, n. 13. Power; ability: as, that is above my bend. [Colloq., western U.S.]—14. A segmental plate or ring on which the movable earding-surfaces of a revolving flat cottoncarding machine run and are adjusted in their relation to the main cylinder or drum. Nasmith. Cotton Spinning, p. 101.—15. pl. Same as eaisson-disease. The Century, Nov., 1903, p. 45. [Colloq.]

benda (ben'da), n. An Ashanti gold coin. bender, n. 6. A mechanical device for bending or drawing a crossbow.

bendigo (ben'di-gō), n. A rough fur cap named from a noted English pugilist. Stand. Diet.

bending-form (ben'ding-form), n. In hard-ware, a form of bench-anvil used in bending steam-, gas-, and water-pipes.

bending-machine, n. 2. In wood-working, a power-machine for bending wood into the various forms required in making vehicles, agricultural tools, and furniture. Two types are in use: in one the wood, while soft and hot from the steaming-bath, is bent without additional heat; in the other the machine itself is steam-heated to sesist in keeping the steamed wood hot until the bending is complete. In the steamed wood hot until the bending is complete. In all machines there is a master-form of metal fixed in the machine, to give the wood the required shape, and a second form for holding the wood in place until bent. In some machines the form is removed with the wood to keep it bent until cold and rigid; in others the wood is hound by a shackle or other device for r. taining its bent form, and removed from the machine and allowed to cool, when the shackle can be removed.—Hydraulic bending-machine, a machine for bending metal rails, beams, plates, etc., used in ship-building. It consists of a massive anvil, former, or table for supporting and guiding the



Ship's-plate Bending machine.

 a_i table supporting anvil or lower die; b_i , b_i , b_i guideways and supporting posts; c_i , c_i hydraulic cylinders; d_i , d_i , rams; e_i , e_i crossheads carrying former or upper die; f_i , former.

beam, rsil, or plate while it is subjected to the pressure of one or two hydrsulic rams. The large machines are essentially double hydraulic presses, employing two ver-tical rams that carry a long former which bends the metal laid on the table under it into the required shape.

128

bending-rolls (ben'ding-rolz). n. pl. A mahaving a set of rolls, either horizontal or vertical, so arranged that a plate passed between them while they revolve will be curved tween them while they revolve will be curved to any desired radius. If it is desired to curve the plate until its two edges meet, the bending-rolls must be so made that the hearing at one end can be removed to provide for taking out the plate.

benduqi (ben-dö'kē), n. [Also benduky, benduky; Ar, bunduqi, a Venetian sequin or ducat, lit. 'Venetian,' & Bunduq, Turk, Vendik, G. Venedig, Venice, & L. Veneticus, adj., & Venetia, Venice.] A gold coin of Morocco.

benedicence (be-ned'i-sens), n. [NL. as if *h. nedecentia. < L. benedicere, bless: see benedict.] Kindly speech. M. Williams.

Benedictinism (ben-ē-dik'tin-izm), n. The system and method of religious life and thought

exemplified in the Benedictine order.

benedictional, n. II. a. Pertaining to or of the nature of a benediction; pertaining to blessings given according to the prescribed rite; also, relating to objects so blessed.

Small benedictional crosses belong to each altar, and processional crosses are common.

Encyc. Brit., XXVII. 238.

benedictive, a. 2. Expressing desire or wish; precative: a form of the optative mood in Sanskrit verbs.

The agrist has also an optative, of somewhat peculiar inflection, usually called the precative (or benedictive).

Whitney, sansk. Gram., § 533.

benedictively (ben-ē-dik'tiv-li), adv. the force of the benedictive mood. See *bene-

benedite (ben'e-dīt), n. An explosive containing 92-95 parts of ammonium nitrate and 5-7 parts of colophony.

5-7 parts of colophony.
benefactorship (ben-ē-fak'tor-ship), n. The position or relation of benefactor: as, "his benefactorship to his country," Hales.
benefactory (ben-ē-fak'to-ri), a. Benefit-conferring; beneficial: as, benefactory results.
benefice (ben'ē-fis), r. t.; pret. and pp. beneficed, ppr. beneficing. [benefice, n.] To endow or invest with a benefice. Wyelif.
beneficial, II. n. 2. ln zoöl., an animal which benefits man by destroying or checking the increase of animals injurious to him.

increase of animals injurious to him.

Group G.—Animals which are known as "beneficials," on account of their being destructive to or checking the increase of the injurious animals classed under Groups D, E, and F. Examples:—Certain carnivorous and insectivorous birds, reptiles, and Amphibia; parasitic and predacious insects, acari, myriopods, etc.

Jour. Roy. Micros. Soc., April, 1904, p. 172.

Benefit of cession, in civil law, immunity from future imprisonment of a debtor for his present debts upon surrender of his property for the benefit of his creditors. Bengal blue, isinglass. See *blue, *isinglass. bengalin (ben'ga-lin), n. [Bengal + -in².] One of the Janus coal-tar colors. Same as indoin *blue. Also bengaline.

bengaline (ben'ga-lin), n. [Bengal + -ine²_s] A fine, corded dress-fabric for women's wear. It has a silk warp and a worsted weft. The latter is so introduced as to form a cord, though entirely concealed on both surfaces by the silk warp.

bengaza (ben-gä'zä), n. A sponge of somewhat coarse texture found in deep water and

used by the Turks as a bath-sponge.

beni (bā'nē), n. Tho name ('Japanese beni' of Caryopteris (Mastacanthus) incana, a har shrub native to China and Japan, cultivated for its late summer bloom. The leaves are petioiate, ovate, or oblong the flowers small, violet-blue, or lavender-blue. It is known in the trade as the blue sphræa, benighted (bē-nīt'ed), p. a. Overtaken with night; hence, involved in moral darkness or

ignorance: as, benighted Hottentots. benjamin¹, n. 2. In Australian Pidgin-Eng-

lish, a married man: a husband. Benjamite (ben'ja-mit), n. A descendant of the patriarch Benjamin, son of Jaeob.

Bennet's fracture. See */racture.

Bennettitaceæ (ben'e-ti-tā'sē-ē), n. pl. [Ni...

(Salms-Laubach, 1887), \(Bennettites + -aeew. \) A family of gymnospermous fossil plants of A family of gymnospermous fossil plants of the order Bennettitales. It is distinguished from the Cycadacese by having the reproductive organs, which consist of spadices surrounded by involucral bracts, embedded in a thick jacket or armor (see *\timesarrow\), and projecting only slightly or not at all heyood it. It contains the genera *\timesBennettites and *Cy adeoidea (which see). The numerous trunks of this family have all been found in Mesozoic strata, chiefly Jurassic and Lower Cretaceous, especially in England, France, Italy, Maryland, and South Dakota.

Bennettitales (ben-e-ti-tā'lēz), n. pl. [NL. (Engler. 1892), < Bennettites + -ales.] An order of fossil plants, of the class Gymnospermæ, eontaining the family Bennettitaceæ only,

though further research may show that this should be divided into several families.

an English botanist.] A genus of gymnospermous fossil plants, type of the family Bennetmous fossil plants, type of the family Bennettitacca and order Bennettitales. It is characterized by the presence of seeds borne on long stalks and deeply embedded in the silicified armor. These seeds have been discovered in only a few specimens, and those in which they do not occur are referred to the genus Cycadeoidea, a name which has priority. It is probable that all the fertile plants actually bore them, and therefore the distinction is purely artificial. See *Cycadeoidea.

Bennington pottery. See American *pottery. beno (be'nô), n. An English spelling of Spanish rivo, wine, applied in the Philippine Islands to acquardiente.

to aguardiente.

In view of the vile whiskey and "beno" selling dens which have sprung up around the army posts since the canteen was abolished, the military authorities here have asked the Commission to prohibit the sale of liquors within two niles of a military post, except in the case of a few stations located in large towns.

Med. Record, April 4, 1903, p. 547.

bent1, a. 3, In mining, said of a eoal-seam which is difficult to work on account of the unequal distribution of the weight of the overlying strata. [Scotch.]-4. Bound in some direction or toward an aim; set; pointing toward something. bent¹, n. 8. (b) The articulated group of mem-

bers forming a plane frame of a framed structure, such as a bridge-truss, a braced pier, or a building-frame. A bent of trestle would comprise all the members in one transverse plane, including the sill, cap, vertical and inclined posts, and transverse bracing-members.—11. A cleavage-plate of slate whose sides are slightly curved, cut from gently folded beds.

The rock surface may be but a few inches below the turf The rock surface may be but a few inches below the turn or may be buried beneath 30 to 40 feet of glacial deposits. There is frequently a flexure of the cleavage ("curl") for a few inches near the ribbon; more rarely there is a cur-rature of the cleavage across the entire bed. Slates cut from such bods are called "bents," and are used for covering curved or conical roofs.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 362.

contrib. to Econ. Good., U. S. Geol. Surv., 1902, p. 362.

bent², n.— Black bent. (b) The switch-grass, Panicum
virgatum.— English bent, the redtop, Agrostis alba.—
Long-leafed bent, the sand-grass, Calamovilfa longifolia.— Panic bent, the Munro-grass, Panicum agrostoides.— Rhode Island bent, the dog-hent, Agrostis
canina, one of the best lawn grasses. Less properly, A.
alba.— Rough bent, Agrostis hyemalis.— Rough-leafed
bent, Agrostis asperifolia.— Sea-coast bent, Agrostis
coartata.
benthic (ben'thik), g. fhenthos + ic. 7. Living

benthic (ben'thik), a. [benthos + -ic.] Living upon the bottom as distinguished from living in the water above; submarine; benthonic. Benthocometes (ben"thō-kō-mē'tēz), n. [NL.,

 $\langle \operatorname{Gr.} \beta \acute{\epsilon} \nu \theta \circ \varsigma, \operatorname{depth}, + \kappa \circ \mu \eta \tau \eta \varsigma, \operatorname{hairy} (\operatorname{or comet}?) :$ see comet.] A genus of deep-sea fishes of the family Brotulidæ.

Benthodesmus (ben-thō-des'mus), n. Gr. $\beta \dot{\epsilon} \nu \theta o \varsigma$, depth, $+ \delta \dot{\epsilon} \sigma \mu \dot{o} \varsigma$, band. A genus of deep-sea fishes allied to the mackerel, belonging to the family Lepidopodidæ.

benthonic (ben-thon'ik), a. [Irreg. < benthos + -on-ie.] Living upon or in the bottom of +-on-ie.] Living upon or in the bottom of the sea as distinguished from the water; submarine. Benthonic organisms are contrasted with those that are water-dwelling or planktonic. Many animals are benthonic during part of their lives and planktonic during another part. Most hydroids are fixed to the hottom, or benthonic, while the mediase which they produce and set free swim in the water and are planktonic. See benthal and *planktonic.

The Challenger observations have shown that the bottom in this neighbourhood is covered by an exceedingly rich benthonic fauna. Geog. Jour. (R. G. S.), XIII. 58.

benthos (ben'thos), n. [Gr. $\beta \ell \nu \theta o c$, depth, akin to $\beta a \theta b c$, depth: see bathos.] The plants and animals that live in the sea-bottom, and those that are attached to its surface, and those that ereep or run over it: a collective noun introduced by Hacekel. The benthos is contrasted with the plankton, or floating and swimming fauna and flora of the sea. It includes **benzenoid** (ben'zē-noid), a. [benzene + -oid.] all the marine macrophytic alge, also some Derived from or related to benzene. Rep. Brit. phanerogams, the sea-grasses (see sea-grass, 1), as well as an abundance of microphytic algae (diatoms, etc.). It is divided into the sedentary and the vagile or vagrant benthos, the former including organisms attached to the bottom, the latter those moving over it. See plankton, *nekton.

Others again have no natatory organs, and are either permanently fixed, like Zoophytes and Stalked Crinoids, or move by creeping over the sea-bottom, like Starfishes, Holothurians, Chacopods, etc.; such forms constitute the benthos, or "bottom fanna." Parker and Haswell, Zoology, 11. 600.

Abyssal benthos, the animals that live upon or in the bottom of the deep sea.—Littoral benthos, the animals

and plants that live upon or in the bottom of the waters in the vicinity of the coast,

Bennettites (ben-e-tī'tēz), n. [NL.(Carrnthers, Benthosauridæ (ben-thō-sâ'ri-dē), n. pl. [NL., 1871), named in honor of John Joseph Bennett, Schulber et dæ.] A small family of ⟨ Benthosaurus + -idæ.] A small family of deep-sea fishes with well-developed maxillary and very long ventrals, allied to the Synodontidx

Benthosaurus (ben-thō-sâ'rus), n. [NL., ζ Gr. βειθος, depth, + σαὐρος, lizard.] A genus of fishes, typical of the family Benthosauridæ. The species B. grallator is found in the Gulf Stream.

Benthosema (ben-thō-sē'mä), n. [NL., < Gr. βένθος, depth, + σημα, a sign, mark, token.] A genus of lantern-fishes of the family Myc-

tophide, found in the waters about Greenland. Benton shale. See *shale?. bentonite (ben'ton-it), n. [Benton + -ite².] A variety of elay occurring extensively in the Fort Benton strata of the Cretaeeons of Wyoming. While containing chiefly silica, alumina, and water, with about 60 per cent. or more of the first-named, it nevertheless has so many other bases as not to be re-fractory, but rather to resemble fullers earth. Engin. and Min. Jour., Oct. 22, 1898, p. 491.

bent-wood (bent'wid), n. Wood in rods, bars, and narrow boards and moldings softened in steam and fastened while hot into a curved elamp to give it a bent form. When cold and removed from the clamp it retains its form. Used in boat-building and in furniture-making.

Used in boat-building and in furniture-making, —Bent-wood furniture, chairs and other furniture made of round rods of wood bent into various artistic forms and usually having cane seats. benum, v. t. A simplified spelling of benumb. benylene (ben'i-lèn), n. [ben(zene) + -yl + -ene.] A hydroearbon, C₁₅H₂₈, of the acetylene series, formed by the action of alcoholic potash on triamylene bromide. benzal (ben'zal), n. [benz(ene) + *-al3.] 1.

benzal (ben'zal), n. [benz(ene) + \star -al³.] 1. An organie radical having the formula C₆H₅CH and a valence of two. - 2. A prefix sometimes used to indicate that a compound is derived from benzaldehyde .- Benzal green. Same as ben-

zaldehyde green (which see, under green!). benzaldoxime (ben-zal-dok'sim), n. d(ehyde) + oxime.] The oxime, C₆H₅CH:NOH, of benzaldehyde. It exists in two forms—antibenzaldoxim, which melts at 35° C., and synbenzaldoxim, which melts at 128°-130° C. benzamarone (ben-zam'a-rōn), n. [benz(al-dehyde) + L. amar(us), bitter, +-one.] A erystalline compound formed by allowing an alcoholic solution of desoxybenzoin, benzaldehyde, and potassium hydroxid to stand. melts at 218° C.

benzanilide (ben-zan'i-lid), n. [benz(oyl) + anil(ine) + -idt².] The benzoyl derivative of aniline, C₆H₅NHCOC₆H₅. It crystallizes in leaflets which melt at 161° C.

benzein (ben'zē-in), n. [benz(oin) + -e-in².]
A triphenyl carbinol or one of its derivatives in which two of the benzene nuclei are hydroxylated: as, phenol benzein, $C_6\Pi_5C < C_6H_4OH$.

The benzeius are formed by the condensation of benzotriehlorid with phenols, and are dyes.

Benzene nucleus. See *nucleus.—Benzene ring, the graphical or structural representation of a molecule of henzene by the closed chain or ring, proposed by Kekule in 1865. It is usually written in the form of a hexagon,

Kekule's Formula. Centric Formula

Ass'n Advancement of Sci., 1900, p. 166.

Assumentation of Sci., 1800, p. 1800, benzerythrene (benzeryi-thren), n. [benzene) + Gr. $ip\theta\rho\phi\varsigma$, red, + -ene.] A colorless hydrocarbon, $C_{23}H_{18}$, contained in anthracene oil and formed by passing benzene through a red bet table. It convertibles in leaflets and red-hot tube. It erystallizes in leaflets and melts at 307°-308° C.

benzhydrol (benz-hi'dröl), n. [benz(cne) + hydr(ogen) + ol.] Diphenylmethanol or diphenylearbinol, (C_6H_5)₂CHOH, a compound formed by the reduction of benzophenone. It erystallizes in needles which melt at 68° C.

benzidam (ben'zi-dam), n. [benz(ene) + -id1 am(monium).] The name given to aniline

berlin

by Zinin in 1840, when he prepared it by redneing nitrobenzene with ammonium sulphid. [Now obsolete.]

benzidine (ben'zi-din), n. [benz(ene) + -ull + -ine².] The common name for para-diamino-diphenyl, one of the aromatic bases having the formula NH₂.C₆H₄-C₆H₄.NH₂. It is an important raw material in the preparation of many portantraw material in the preparation of many of the direct cotton colors.—Benzidine blue, colors.—See *blue, *colors.—Benzidine rearrangement, a molecular rearrangement by which benzidine is formed from hydrazobenzene, CeHzNHNHCeHz, or by which other hydrazo compounds undergo a similar transformation. The rearrangement takes place under the influence of dilute acids and is important as a step in the preparation of many dyea, especially those of the "Kongo" series.—Benzidine red. See *red!.

benzilam (ben'zi-lam), n. [benzil + am(monia) (?).] The compound triphenyloxazole, CeHz-CCO.

nia) (?).] The compound triphenyloxazole, $C_6H_5 - C - O$ C_6H_5 . It crystallizes in prisms $C_6H_5 - C - N$ which melt at 115° C.

Benzilie acid, diphenylglycolic or diphenylhydroxyacetic acid, (CgHz)bCOH)COyH. It is formed by warming benzil with alcoholic potash. It crystallizes in needles which melt at 150° C.

benzimino (ben-zim'in-ō), n. Noting an ester of the general formula C₆H₅NH-O-R, salts of which are formed by the action of hydrochloric acid and an alcohol on benzonitrile. The ethyl ester is an oil which forms a crystalline hydrochlorid. Also called, less correctly, benzimino ether.

benzo-. A combining form of benzene, sometimes used to indicate that a compound is reinnes used to include that a compound is related to benzene or one of its homologues. Its significance is not definite, as is the case with auch prefixes as methyle, phenyle, etc. In color-chemistry its use commonly indicates a direct cotton color, as in benzoblue, benzo-purpurin, etc. The direct cotton coal-tar colors are sometimes spoken of as the benzo colors.—Benzo-black, blue, etc. See the *couos.—Benzo skyblue. Same as diamine *sky-blue.

benzo-azurine (ben-zō-azh'ū-rin), n. Either of two direct cotton coal-tar colors (benzo-azurine G and 3G) of the diazo type, derived from dianisidine. They dye unmoblue in an alkaline salt bath. They dye unmordanted cotton

benzo-black (beu-zō-blak'), n. A direct cotton coal-tar color of nnpublished composition. A direct cot-

benzo-blue (ben-zō-blö'), n. A name applied to three distinct cotton coal-tar colors (benzoblue BB, BX, and 3G), of the diazo type, deber (bar), n. [Hindi ber.] The name in India rived from benzidine or telidine. They dye of the jujube or Chinese date, Zizyphus Jujuba. Name and the property of the pulment of the pulment of the jujube, 1, and Chinese neutral salt bath. They are similar to save date under Add 2 neutral salt bath. They are similar to some of the diamine blues.

benzo-brown (ben-zō-broun'), n. Same as alkuli *brown.—Benzo-brown B and G, two direct cotton coal-tar colors of the tetraklsazo type. The former is produced by combining diazotized sulphanilio acid, and the latter diazotized naphthonic acid, with Bismarck brown. They dye unmordanted cotton various shades of brown from a neutral salt bath.

from a neutral salt bath.

Benzole sulphimide. Same as saccharin, 2.—German benzole acid, a term formerly applied to benzole acid made from horse-urine.

benzoin, n. 2. [eap.] A genus of aromatic di-cotyledonous trees or shrubs of the family Lauraceæ. See Lindera.—3. A compound, $C_6H_5CHOHCOC_6H_5$, formed when benzaldehyde is boiled with alcohol containing a little potassium cyanide. It melts at 130° C. and boils at 344° C. Also diphenylethanolone.

at 544° C. Also diphenylethanolone.
benzol, n.—Ninety-per-cent. benzol, the mixture of hydrocarbons obtained from conl-tar which distils over at temperatures not exceeding 110° C.: so called because 90 per cent. of it distils below or at 100°. It usually contains about 70 per cent. benzene and 25 per cent. tollene, and is used in the manufacture of nitrobenzene (oil of mirbane) and of aniline oil, from which aniline dyes are made.

benzoleic (ben-zō-lē'ik), a. Of or pertaining to benzol.-Benzoleic acid. Same as *tetrahydroben zoic acid.

benzometadiazine (ben"zō-met-a-di-az'in), n. [benz(ene) + metadiazine (1).] Same as *quin-

benzonitrile (ben-zē-nī'tril), n. [benzo(ie) + nitrile.] Phenyl eyanide or the nitrile of ben-S.-9.

zeie aeid, C₆H₅CN. It is an oil with an oder like **Berdan pan**. See *pan¹.

that of bitter amonds. It boils at 190.6° C. benzo-olive (ben-zō-ol'iv), n. A direct cotton coal-tar color of the trisazo type, derived from benzidine. It dyes unmordanted cotton a greenish olive in a neutral salt bath.

benzo-orange (ben-zō-or'anj), n. A direct est-ton eoal-tar color of the diazo type, derived from benzidine and containing a salicylic-acid group. It dyes unmordanted cotton orange from an alkaline salt bath.

benzophenone (ben-zō-fē'nōn), n. [benzo(ie) +phen(yl) + -one.] Diphenylketone, $(C_6H_5)_2$ CO, a compound formed by the dry distillation of calcium benzoate. It melts at 48° C. and boils at 306.1° C.

benzoquinone (ben-zō-kwin'ōn), n. [benzo(ic)

+ quinone.] Same as quinone. benzosol (ben'zō-sōl), n. [benz(oyl) + -ose + -ol.] A colorless, tasteless, erystalline compound, $C_6H_4OCH_3OCOC_6H_5$, obtained by the action of benzoyl chlorid upon guaiacol; guaiacol benzeate; benzeyl guaiacol. It is sometimes taken internally for intestinal tuberculosis and diarrhea.

benzotrichlorid (ben"zō-tri-klō'rid), n. zo(ic) + trichtorid.] Phenyltrichlormethane or 1', 1', 1'-trichlortoluene, $C_6H_5CCl_3$, a colorless liquid formed by the action of chlorin on boiling toluene. It has a penetrative, irritating odor, and boils at 214° C. It is used in the preparation of a number of dyes.

Benzoyl chlorid, the chlorid of benzoic acid, C₈H₅COCl.

It is a colorless oil with a pungent odor. Its vapor is very irritating to the cyes. It boils at 195° C.

benzoylacetylperoxid (ben"zō-il-as'e-til-perok'sid), n. [benzo(ic) + aeetyl + peroxid.]
A compound having the formula C₆II₅CO.O.-O.COCH₃, a solid which melts at 40° C. It is a powerful germicide and has been used in medieine. A trade-name, acetozone, is sometimes used for this compound.

used for this compound.

Benzyl acetate, an important constituent of the natural essential oils of jasmine and ylang-ylang, used in perfumery.—Benzyl blue, violet. See *blue, *violet!.

benzylidene (ben-zil'i-den), n. [benzyl + -id-

+ -ene.] Same as *benzal.

bepatched (be-paeht'), p. a. Much or frequently patched; wearing patched clothes.

You ragged vagabond . . . you be patched and be apattered nave. Addison, Sir Roger de Coverley.

date, under *date3.

berakah (be-rä'kä), n.; pl. berakolh (-kôt). [Heb., < barak, Ar. baraka, bend the knee, bless, praise.] A blessing; a benediction. The blessings and thanksgivings generally begin with the words Baruk atah Adonai ("Blessed art thou, O Lord"). The plous Hebrew eats or drinks nothing without a bene-diction before and after.

Derived from berberine.—Berberic acid, a crystalline acid, $C_8H_8O_4 + H_2O$, obtained by melting berberine with potsssium hydroxid. It melts with decomposition at about 165° C_8 diving homopyrocatechinol. berberid (bêr'bê-rid), n. [Berber(is) (see barberry) + -id².] A plant of the family Berbert.

Berkshire (bêrk'lê-ît), n. Same a levian.

Berkshire (bêrk'shir or bärk'shir), dateer.

ducer.

the decrease where the decrease with the decrease with the decrease of t

berberonic (ber-be-ron'ik), a. [Berber(is) + -one + -ic.] Derived from berberine. - Berberonic acid, 2, 4, 5-pyridine trlearboxylle acid, CytleN-t(COglib). It is formed by the oxidation of berberine with nitric acid. 1t crystallizes in prisms which melt at 235° C.

Berchemia (ber-kē'mi-ā), n. [NL. (proposed by Neeker, 1790, established by De Candolle, 1825), of unknown significance.] An untenable name for *Œnophia* a genus of usually elimbing shrubs belonging to the family Rhamnaceæ. See * Enoplia.

berduque, n. Same as *belduque.
Berea grit. Same as Berea sandstone.

Berecynthian (ber-i-sin'thi-an), a. [Gr. Be-Berecynthian (ber-i-sin'thi-an), α. [Gr. Βερεκίντιος, βερεκίντιος, adj., from Βερέκιντιος, a place in Phrygia.] Of or pertaining to Berecynthos, a place in ancient Phrygia.— Berecynthian mother, Cybele, who was called 'the mother of the gods,' and whose worship was common in Phrygia, in the Berecynthian forest or Berecynthian mountains.

berengelite (be-ren'ge-lit), n. [Berengela (see def.) + -ite².] A substance resembling bitumen or asphalt, found in the province of San Juan de Berengela, Peru, locally used for ealking and paying ships.

ealking and paying ships.

Berenicea (ber-ē-nis'ē-ā), n. [NL., < L. Berenice, Gr. Βερενίκη, a feminine proper name.] A genus of eyclostomatous bryozoans growing as thin discoid crusts on foreign bodies, the zoœcia being arranged in irregularly alternating lines. These organisms are found in rocks as old as the Silurian, became very abundant in Mesozoie time, and are present in existing seas.

beresovite (be-res'ō-vīt), n. [Berezof, a mining district and place in Russia, in the government of Perm, + -ite².] A chromate and carbonate of lead occurring in deep-red crystalline lamellæ: found at Berezof in the Ural.

bergamiol (ber-gam'i-ōl), n. [bergam(ot) + -i-ol.] Linaloyl acetate, the principal constituent of the essence or essential oil of bergamot, now prepared in separate form and used

bergaptene (ber-gap'ten), n. A lactone, C₁₂-ll₈O₄, corresponding to ethenylol-phentriol-propenylic acid, IIO.CH:CHC₆H(OH)₃CH:CHCO₂II: found in oil of bergamot. It crystallizes in needles which melt at 188° C.

Bergen game. See $\star game^1$. bergenin (ber'je-uin), n. An indifferent, crystalline, bitter substance, $C_8H_{10}O_5 + H_2O$. It melts at 130° C.

bergschrund (berg'shrönt), n. [G., < berg, meuntain, + schrund, a gap, erevice.] A crevice between a glacier and the rocky wall of its valley. The bergschrund is the scene of thawing under the auo'a rays during the day and of freezing at night, and along it frost is very destructive, turnishing the loose rocks for moraines. Jour. of Geol., Nov.-Dec., 1902, p. 846.

bergstock (berg'stok), n. [G., 'mountain stick': see berg and stock.] An alpenstock; a long stick with a spike at the end, used in moun-

tain-elimbing.
berg-till (berg'til), n. Glacial debris earried and deposited by icebergs.

When icebergs bearing till or bowlders floated out into lakes which bordered the ice-sheet, deposits were made in the water which bear resemblances both to till and to lacustrine clays. If the icebergs bore till, this might be deposited intact if the icebergs grounded. If the bergs bore only-bowlders and stones, these were dropped into the lacustrine clay. The stones and the clay or mud might be in the relative proportions appropriate to till. Such deposits would be, in some respects, unlike ground moraine, both in physical constitution and in topography, but the two classes of deposits may so closely resemble each other that their local differentiation is no simple matter. Deposits of berg till are quite certainly existent in New Jersey.

R. D. Salisharu, in Geol, Surv, of New Jersey, 1892, p. 44. When icebergs bearing till or bowlders floated out into benzo-cyanine (ben-zō-si'a-nin), n. A direct cotton eoal-tar eolor of unpublished composition. It dyes numerdanted cotton a bright blue from a salt bath.

benzo-flavin (ben-zō-flav'in), n. A hasic coal-tar eolor of the aeridine type. It dyes unmortanted wool and silk and tannin-mordanted wool an

benzo-gray (ben-zō-grā'), n. A direct cotton coal-tar color of the trisazo type, derived from benzidine. It dyes unmordanted cotton gray from a neutral salt bath.

Benzole sulphimide. Same as saccharin, 2—German benzole acid, a term formerly applied to benzole acid.

Benzole sulphimide. Same as saccharin, 2—German benzole acid, a term formerly applied to benzole acid.

Benzole sulphimide. Same as saccharin, 2—German berberic (bêr'be-rik), a. [Berber(is) + -ie.] mant of circumcision. The rite of circumcision la performed on every Jewish male infant on the eighth day performed on every Jewish male infant on the eighth day after his birth.

Berkeleyite (berk'le-it), n. Same as Berke-

shire of England.] A breed of pigs which had its origin in Berkshire, England. These pigs are of moderate size, with short legs and straight backs, and the color is mainly black.

berley (ber'li), n. [Origin unknown, Morris suggests that it is aboriginal Australian.] Among Australian fishermen, ground-bait.

berlin¹, n. 3. A dance similar to a polka (which see).—4. A fine kind of dyed wool used for knitting fancy articles, tapestry, etc.—5. A variety of bexed sleigh, used for passengers or goods.—Berlin black. See *black.—Berlin coach, the name given to a berlin when made up with a paneled boot instead of a hammer-cloth scat.—Berlin defense. See *defense.—Berlin rockaway, a carriage in which the characteristic features of the berlin and the rockaway are combined.—Berlin warehouse, a shop where Berlin woof and fancy articles are sold. berlinet (ber-linet'), n. [berlin+-et']. A Berycinæ (ber-i-si'nē), n. pl. [NL., $\langle Beryx \rangle$ bessy-cerka (bes-i-ser'kā), n. [Origin not assmall berlin with interior seats for two persons. (Beryc-) + -inæ.] A subfamily of fishes typiberlingot (ber-lan-gō'), n. [F. berlingot, forfied by the genus Beryx.] Same as oldwife, 2 (e). best, n. 5. Specifically, noting a certain grade nerly brelingue, \(\lambda \) cerlingue, brelingue, variations beryl, \(n \)—Golden heryl, a golden-yellow transparent of berlinde, berlien, a berlin.\(\right) = A carriage of variety of beryl found in Connecticut and elsewhere : used the berlin type, with the front quarter removed as a semiprecious stone. the berlin type, with the front quarter removed and cut longitudinally to half its original width: fitted for only one passenger.

berlinet

Berlinism (ber'lin-izm), n. A manner of

He [Prof. Steindorff] contrives also—more Germanorum—to introduce into his memoir some extraordinary spellings, such as "Gize" for Ghizeh, "Othocs" for Teta, "Phipps" for Pepi, "Pseuntk" for Psammetichus, and "Echenaten" for Khuenaten, with the apparent intention of showing that, even when deprived of the commas and crotchets of "Berlinism," German scholars can yet render unrecognizable to the unlearned reader the most familiar names in Egyptian history.

Athenæum, Sept. 19, 1903, p. 387.

berlinite (ber'lin-it), n. [Named after Prof. N. H. Berlin of Lund,] A hydrated aluminium phosphate occurring in from gray to rose-red massive forms: found in Sweden.

berm, n. 3. In railroad engin., the narrow horizontal plane between the foot of the embankment or exeavation slope and the top of the

slope of the side-ditch.

Bermuda *bluefish, *catfish, *lily, *shilling. See the nouns.

Bernardston series. See *series.

Bernician group. See *group1.

Bernissartian (ber-ni-sär'ti-an), a. and n.

[Bernissartia (see def.) + -an.] In geol., noting a group of clays and sands in Belgium lying at the large of the Cratagorian. at the base of the Cretaceous system. They lie

at the base of the Cretaeeous system. They lie heneath beds of Upper Neoconian age and represent in part Neoconian time. The name is derived from Bernissart, Belgium, "wherein a buried system of Cretaeeous ravines remains of the terrestrial and fluviatile life of the time have been well preserved "(Geikie). Formerly termed *Anchenian (which see).

Beroida (bē-roi'dii), n. pl. [NL., < Beroë, a genus, + -oidia.] An order of Ctenophoru. They have an elongate, somewhat compressed body, no tentacles, wide mouth and spacious stomodeum, and the meridional vessels produced into a complex system of anastomosing branches. The order contains the family

anastomosing branches. The order contains the family Beroidæ. Also Beroidea. berri-berri. n. See beriberi. berro (ber'rō), n. [Sp. berro, water-cress.] The name in Porto Rico for the common watercress, Roripa Nasturtium.

berrugate (be-rö-gä'te), n. [Sp. (Dominguez), appar. equiv. to *berrugado, verrugato, warty, \(\cdot \) berruga, verruga, \(\text{L. verruca}, \) a wart.] A serranoid fish, Lobotes pacificus. found on the Pacific coast of Central America.

Pacific coast of Central America.

berry!, n.—Baked-apple berry. Same as baked-apple.—China berry. Same as china-tree.—Gall berry. See *gall-berry.—Holm berry, a berry of the butcher's-broom, Ruseus aculcatus (so called from its resemblance to a holly berry), or the plant itself. Sometimes called kneeholm.—Miraculous berry, a shrut belonging to the family Sapotaeex, Synsepalum dulcificum, native to Upper Guinea, West Africa: so named by the English colonists from the exceedingly sweet fruits and from the long duration of the sweet flavor upon the palate. The natives use the fruits for sweetening stale and sour food and palm-wine.—Molkaberry, the cloud-berry, Rubus Chamæmorus. [Alaska.]—Purple berry, a Tasmanian evergreen twining shrub, Billardiera longifora, of the family Pittosporaeex, bearing showy greenish yellow flowers and purple berries.

berseem (ber-sem'), n. [Egypt. Ar. barsīm (Spiro).] The Alexandrian or Egyptian elover, Trifolium Alexandrium, the principal forageplant and soil-plant of Egypt. Itis an annual and

plant and soil-plant of Egypt. It is an annual and of great value as a winter crop in warm countries where irrigation is practised. It has been introduced into America for trial, especially along the Rio Grande.

berth², v. I. trans. 2. To find a berth for; provide with a "job" or "situation."

Comfortably berthed in the City Chamberlainship. Leslie and Taylor, Sir Joshua Reynolds, H. 365.

H. intrans. To occupy as living-quarters on shipboard: used with in.

A part of the crew berth in the forward part of the Buck, Med. Handbook, J. 519.

Berthelot calorimeter. See *ealorimeter. Bertie dolomite, water-lime. See *dolomite, Salina *beds.

Bertillon system. See *system. bertillonage(ber-tê-yo-n\(\text{i}\)zh'),n. [F., \(\) Bertillon, a personal name.] The identification of criminals by the Bertillon system. See *system.

Bertin's ligament. See *ligament.
Bertolonia (ber-tō-lō'ni-ä), n. [NL. (Raddi, I820), named in honor of Antonio Bertoloni (1775 − 1869), an Italian botanist.] An untenable name for *Triblemma*, a genus of plants of the family *Melastomaceæ*. See **Triblemma*.

130

beryllium, n. Some evidence has lately been brought forward which indicates that another element may perhaps be present in beryllium, which has heretofore been supposed to be simple.

Berlinism (ber'lin-1zm), n. A manner of supposed to be simple, of speech or method of doing things peculiar to berlin, or to some persons there.

He [Prof. Steindorff] contrives also—more Germanorum—to introduce into his memoir some extraordical colorless orthorhombic erystals: found in Maine

berzelium (ber-ze'li-um), n. [NL. (Ch. Basker-ville), \(Berzelius, a Swedish chemist (1779-1848).] A supposed new chemical element of which the chlorid was obtained by fractional sublimation of thorium chlorid. The oxid of ber-

zelium, it is said, has a greenish color and does not phosphoresee with ultra-violet light.

Berzelius's lamp. See *lamp.
besa² (bā'sā), n. [E. African coast.] A current coin of Benaith, equivalent to one fourth of an anna, or about half a cent.

besan (bā-sān'), n. A Creole name of the Moorish idol, Zanclus canescens, a fish of the tropical Pacific. bescoundrel (bē-skoun'drel), v. t.; pret. and

pp. bescoundreled or bescoundrelled, ppr. bescoundreling or bescoundrelling. To call 'scoundrel'; apply the epithet 'scoundrel' to.

Where surly Sam . . . Nassau bescoundrels. Wolcott, To Boswell, Works, I. 313.

beshade (be-shād'), v. t. To put in the shade; envelop in shade; shade.

The highe tre the ground beshadeth.

beshadow (be-shad'o), v. t. To east a shadow upon; overshadow: as, beshadowed by huge

beshame (be-shām'), v. t. To put to shame. $Abp.\ Parker.$

beshear (be-sher'), v. t. To shear or shave all round: used chiefly in the past participle. besil, n. Same as bezel. besil, n.

besonnet (be-son'et), v. t. To address or celebrate in sonnets.

Belles, who had been besonneted . . . for ten years be-bre. J. P. Kennedy, Swallow Barn, p. 60.

besoot (bē-sút'), v. t. To soil with soot; blacken with soot; besmut.

Was it fit that hee should be soot his face with the same paintings?

Mabbe, Aleman's Guzman d'Alf., I. 12. N. E. D.

besouled (be-sold'), p. a. Ensouled; endowed with a soul.

Besouled with earnest human nobleness. Carlyle, Past and Present.

bespectacled (be-spek'ta-kld), p. a. Wearing spectacles; having spectacles on: as, a prim,

bespectacled schoolmaster. bespeed (be-sped'), v. t. To speed; cause to prosper.

Men set to woo . . . for others take often opportunity to be speed themselves. Jackson, Creed. N. E. D. to bespeed themselves. Jackson, Creed. N. E. D. bespined (be-spiud'), a. Covered with spines,

or furnished with many spines. bespirit (bē-spir'it), v. t. 1. To fill or endow with spirit.—2. To possess with a familiar spirit.

The letter had no spirit in it; . . . but he aduised me, that he which wrote it should be beespirited.

Hellowes, Gueuara's Epistles, p. 55.

besplash (bē-splash'), r. t. To splash all over; wet with splashing.

He besplashes and bemires the ladies who are walking.

IV. Taylor, in Annual Review, I1. 288.

bespout (be-spout'), v. t. 1. To recite in a pompous or affected manner.—2. To pester with too much "spouting" or oratory.

Woe for the age, wee for the man, quack-ridden, bespeeched, bespouted. Carlyle, Miscellanies, 1V. 138. bespred, v. t. A simplified spelling of bespread.

bess-bug (bes'bug), n. [Origin not obvious.]
A large American beetle, Passatus cornutus. bessemerize (bes'e-mer-iz), v. t.; pret. and pp. bessemerized, ppr. bessemerizing. To subject (metal) to the Bessemer process; remove carbon, snlphur, or other combustible elements from (iron or steel) by forcing air through the material to be treated in a melted condition, as in the process, invented by Bessemer, for the production of mild steel or fused wroughtiron from east-iron. See Bessemer process, un-

der process, and Bessemer copper *process.
bessroot (bes'röt), n. A provincial corruption
of birthroot. Small, Flora Southeastern U. S.

best, u. 5. Specifically, noting a certain grade of wrought-iron, which is generally divided into four grades: crown, best, best best, and best best best or treble best. This classification is largely arbitrary, and there is considerable difference between the same grades of different manufacturers. bestar (be-stär'), v. t. To sprinkle with stars; adorn with stars. Sylvester, Trophies. bestialism (bes'tjal-izm), u. Bestial condition or state; irrationality. Rossetti. bestialist (bes'tjal-ist), n. One who makes a study of beasts. Swinburne.

bestiarinism (bes-tjal-iran), n. Bestia-bestiarinism (bes-tjal-iran-izm), n. Bestia-

bestiarianism (bes-ti-ā'ri-an-izm), n. Bestiarian principles; the principles of the bestiarians or friends of the beasts.

bestrewment (be-strö'ment), n. The act of bestrewing about: as, the bestrewment of flowers. Blackwood's Mag., LIVII. 526.
besugo (bā-sö'gō), n. [Sp. besugo, the seabream, Sparus pagrus L.] The Cuban name of

the red porgy, Pagrus pagrus.

bet², n. 3. In faro, a card which is a case, that is, the only one of that denomination remaining in the box: so called because the maining in the box: so called because the player cannot be split. Amer. Hoyle, p. 348.—Heeled bet, in faro and some other games, a bet which plays two different events, the lowest chip being on one card and the remainder of the chips tilted toward the other. —Mouth bet, a bet, especially in poker, made without putting up any money or counters. [Slang.]—Open bet, in faro, a bet which is not coppered.—To bar a bet. See *bar!.—To press a bet, to increase the amount of a bet after losing one, in order to regain what has been lost.—To raise a bet, in poker, to increase the bet of the preceding player.—To string a bet, in faro, to lay the chips composing a bet so that they are spread out instead of being stacked up, to indicate either that the bet takes in a remote card or that it is on odd or on even cards only.

Beta (be 'tä), n. [NL. (Linnæus, 1753, adopted

Beta¹ (bē'tā), n. [NL. (Linnæus, 1753, adopted from Tournefort, 1700), < L. beta, the beet.] A genus of dicotyledonous plants belonging A genus of dicotyledonous plants belonging to the family Chenopodiaccæ. They are annual or biennial herbs with fieshy roots, distinguished from Chenopodium by the three small bracts at the base of each flower and by the fact that the ovary is embedded in the succulent base of the perianth, which thickens, and hardens as the fruit ripens, becoming angular and sometimes toothed or prickly. The genus includes 5 or 6 species, natives of Europe, the Orient, and northern Africa. Some of the species are ornamental. For B. vulgaris, see beet, I, and see beet-chards, under chard?. beta 3 (bd.15) ... [Fijipa payma 1] In the Fiji

beta³ (bā'tā), n. [Fijian name.] In the Fiji Islands, a plant of the ginger family, Zinziber

Zerumbet. See *awapuhi. beta-galactan (bē'tä-ga-lak#tan), n. Same as *luveose

beta-naphthol (bē-tä-naf'thöl), n. A naphthol having the hydroxyl (OH) group in the beta position; β-naphthol. See naphthol.—Beta-naphthol orange. See *orange!. betanglement (bē-tang'gl-ment), n. A tan-

beta-gled condition. J. Hawthorne, Fort, Fool, I. ii. beta-rays (bē 'tā-rāz), n. pl. See *ray!.

Betelgeuze (bet-el-gêz'), n. [F., explained as < Ar. ibt-al-jauza, 'the giant's shoulder.']
A reddish star of the first magnitude, situated in the right shoulder of the constellation Orion, and known to astronomers as a Orionis. bête-rouge (bāt-rözh'), n. [F., 'red beast.'] A larval mite of the spurious genns Leptus, probably a larval Trombidium, which in the West Indies corresponds to the so-called 'red

bug' or 'jigger' of the southern United States. It infests low-growing shrubbery and readily transfers itself to the legs of pedestrians, penetrating the outer skin and causing much inflammation.

beth² (beth; Heb. bāt), n. [Heb. bēth (bēt), construct form of bayith (bayit), a house.] The second letter (2) of the Hebrew alphabet, corresponding to the Euglish B. Its numerical value is H

value is II.

bethabara (beth-ab'a-rä), n. A trade-name of the wood of the wasahba-tree, a native of British Guiana. It resembles black walnut in color, is hard and of close grain, and because of its strength, toughness, and resiliency is used for making bows and fishing-rods. Also called bow-wood.

beth-din (bāt'-dēn'), n. [Heb. bēth (bēt) dīn, lit. 'house of judgment.'] Among Jewish orthodox communities, a tribunal which is composed of the rabbi and two or more dayanim (judges). Cases in dispute, whether ritual or secular, are brought before this tribunal for decision. After careful deliberation and research in Talmudic and other standard rabbinical authorities, judgment is given, from which there is no appeal.

betheral (beth'er-al), n. A variant of bedral. Galt, Annals of the Parish. A variant of Scotch

bethphany (beth fa-ni), n. [M. bethphania, an artificial term, ζ Heb. beth, house, + Gr. (ἐπι)φάνεια, epiphany.] In the artificial lan-

guage of the schoolmen, the 'third divine manifestation' of Christ, namely in the miracle of the wine at the house in Cana, commemocle of the wine at the house in Cana, commemorated on the feast of the Epiphany.

Bevel-gear drive, a mechanism which comprises a pair of bevel-gears with the necessary shafts, etc., for driving a machine or motor-car.

bevel-pinion (bev'el-pin'yon), n. The smaller bia (be'ii), n. [Siamese bia, a shell used as a bevel-pinion (bev'el-pinion) rated on the feast of the Epiphany. pethumb (bē-thum'), v. t. To soil or mark

bethumb (be-thum'), r. t. To soil or mark with frequent thumbing, as in turning the leaves of a much-read or much-studied book. Bethylidæ (be-thil'i-dē), n. pl. [NL., < Bethylus + .idæ.] A curious family of proctotrypoid hymenopterous parasites, containing about twenty wide-spread genera and many species parasitic upon insects of several different

betimbered (bē-tim'berd), p. a. Timbered; furnished with timbers; built.

Venerable buildings betimbered with dark oak.

Hugh Miller, First Impressions, p. 172.

betis (bā'tēs), n. [Philippine Sp., said to be from a Tagalog name.] A name applied in the Philippines to a large forest tree, Madhuca Betis (Azaola Betis of Blanco), belonging to the (Azaola Betis of Bianeo), belonging to the sapodilla family. It has simple oblanecolate leaves which are clustered near the ends of the branches, and clusters of greenish, many-stamened flowers with long peduncles. The wood is brownish or red with lighter markings. It resists the attacks of the ship-worm and is highly prized for piles for wharves and piers, and for keels and other timbers in ship-building. It yields logs from 40 to 65 feet long and from 16 to 20 inches square.

betol (be 'tol), n. [beta + -ol.] A trade-name of the 3-naphthyl ester of salicylic acid, HO.C₆H₄CO₂C₁₀H₇. It is crystalline and melts at 95° C. It is an antiseptic and febrifuge.

betone (be-ton'), r. t. To give a special tone to; lay stress upon; accentuate; emplastize.

to; lay stress upon; accentuate; emphasize.

betrail (bē-trāl'), r. t. To trail over or about.

Fuller, Joseph's Coat, p. 221.

betrample (bē-tram'pl), r. t. To trample over;

affect by much trampling: as, "a field...betrampled every day with horse," Golding. betrodden (be-trod'en), p. a. Trodden again and again. Carlyle.

betrumpet (be-trum'pet), v. t. To trumpet the praises of. Carlyle.
betrunk (be-trungk'), v. t. To deprive (a river) of its lower course or trunk by submergence or by the erosion of the land by the sea.

The former rivers have been betrunked by subsidence. I. C. Russell, Rivers of North America, p. 218.

better¹, adv.—To think better of, to reconsider and b. g. An abbreviation of bay gelding. change one's mind or one's plans.

b. h. An abbreviation of bay horse

change one's mind or one's plans.

Betterment tax. See *tax.

Betts's process. See *process.

betty, n.—Brown betty a baked pudding made of sliced apples, bread-crumbs, and molasses or brown

Betula resin. See *resin.
betulaceous (bet-ū-lā'shius), a. Belonging to the family of plants known as Betulaceæ; resembling or allied to the birehes.
between-brain (bē-twēn'brān), n. Same as

betweenness (be-twen'nes), n. 1. The quality or fact of being between.—2. In math., the ordinal quality possessed by one of every three points on a straight line, in virtue of which it may be said to lie between the other two points.

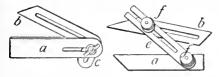
Of Hilbert's betweenness assumptions, axioms of order, one of the five is redundant.

Science, March 11, 1904, p. 410.

betvl. n. See bætulus.

benteous, a. A simplified spelling of beautiful.
beutiful, a. A simplified spelling of beautiful.
beuty, n. A simplified spelling of beauty.

bevel, n.—Combination bevel, a bevel having a straight stock to which is pivoted a split blade which, by means of a set-serew, may be set at any angle with the stock, in combination with a slotted auxiliary blade that may be set at any angle with the first blade, thus making the instrument useful in measuring any angle.—



Universal Bevel. Combination Bevel. a, straight-edge; b, slotted auxiliary blade; c, offset blade; e, split blade; ∫, stud and set screws.

Universal bevel, a hevel having a bent blade that increases its usefulness in measuring minute angles. Another type of universal bevel has a large slot in the stock which increases its range of work.

bevel-disk (bev'el-disk), n. A disk having a

beveled edge. Such disks are used for transmitting power by friction-drives from one shaft to another which makes an angle with it.

of two toothed wheels in gear, the axes of whose shafts intersect one another. The teeth whose shafts intersect one another. The teeth are formed on the surfaces of two cones, whose elements all intersect at the common point of the axes. The shafts are most frequently at right angles; when both whe is are of the same diameter they are called *interspaces*, because the angle of the equal cones is 45°. See beedgear and gearing, 2.—Skew bevel-pinion, a toothed wheel or gear-wheel which drives another on a shaft whose axis is neither parallel to the first nor intersects it. The teeth of the larger gear or the smaller pinion are formed on surfaces which are hyperboloids of revolution. If the two gears are formed upon cylinders developed on the circles at the gorge of the two hyperboloids, skew bevel-gears become the same as helical gears. See skew gearing. skew gearing.

bevel-tool (bev'el-töl), n. A tool with a bevel edge: used by wood-turners for forming grooves and tapers.

bevel-wheel, n.—Skew bevel-wheel, in a skew-bevel transmission, the larger of two such wheels in gear. The other is the pinion. See skew, *bevel-pinion.

bewig (bē-wig'), v. t. To provide or cover with a wig

Beyrichia (bī-rik'i-ji), n. [NL., named after E. Beyrich, a German geologist.] A genus of ostracode crustaceans, or ancient water-fleas. in which each of the two valves bears three lobes or nodes. The shells of these creatures often occur in great quantities in the Paleozoic rocks.

 $\begin{array}{lll} \textbf{beyrichite} & (\text{bi'rik-it}), \ n. \ [\text{Named after E.} \\ \textit{Beyrich}, \ \text{a German mineralogist.}] \ \ \Lambda & \text{nickel sulphid}, \ \text{Ni}_3\text{S}_4, \ \text{of lead-gray color and metallie} \end{array}$ luster.

bezoar, n.—German bezoar, bezoar obtained from the chamois, made up for the most part of vegetable fibers or animal hairs in an entangled mass.—Occidental bezoar, bezoar obtained from the flama and viengna of South America, consisting chiefly of calcium phosphate.—Oriental bezoar (the original bezoar), concretions found in the bodies of certain species of goat and gazel in Persia and India, and containing either ellagic acid or lithofellie acid with a coloring substance apparently bilenicment. pigment.

bezzo (bet'sō), n. [It., < MIIG. betz, G. bätz, etc.: seo batz.] A small Venetian coin, of the value of a farthing.

B. F. An abbreviation of Bachelor of Finance. B. F. A. An abbreviation of Bachelor of Fine

An abbreviation of bay horse (that is, stallion).

bhabar (bä'bär), n. [Hind. bhābar.] In India. -1. A grass, Spodiopogon angustifolius, extensively used for making string, mats, and paper.—2. A sedge, Errophorum comosum, frequently associated and mixed with the preceding and used for the same purposes; also used in the construction of rope bridges. Also

bhalu (bä-lö'), n. [Also balu, baloo; < Hind. bhālū, also bhāl, a bear, < Skt. bhallūka, a bear (Macdonell).] A general name for any species of bear; in particular, the sloth-bear, Melursus

bharal (bur'al), n. The blue sheep of northern India, Oris nahura or O. burhel.

bherwa (bar'wa), n. [E. Ind.] An extraordinary locustid, Nehizodaetylus monstrosus, inhabiting India. It lives in burrows on the sandy banks nanting intera. It lives in burrows on the sandy banks of rivers, and sometimes damages the roots of tobaceo and other crops on high ground. The extremities of the tegmina and wings are much prolonged and curled.

bhikku (bik 'ö), n. [Pali blukku, < Skt. bhikkhu, a beggar, esp. a religious beggar (a Brahmen in the first terminal state of the state of the

Brahman in the fourth stage), (bhiksh, beg, ask alms.] In mod. theos., a diseiple (at a specified stage of his 'progress').

Amongst the notes is an invitation to western students to join the great brotherhood of the Yellow Robe, with a very explicit statement of the conditions under which candidates will be accepted. "Bhikkus of occidental nationalities" are first invited, "who in due time would be able to return to their own countries, there to spread the knowledge of Buddhism"—in short, missionaries. Amongst these Bhikkus there may be some who may be willing to take the Robe, but they are candidly warned that the conditions of life in the order are "somewhat severe for occidentals." Nature, Dec. 17, 1903, p. 163.

bhindi (bin'dē), n. [Hind. name.] A name in India of the okra or gumbo. See *★bandaka* and okra.

See *bhusa.

bhousa, n. See *bhusa. BHRD See *bcharad. bhusa (bö'sä), n. [Also bhausa; ⟨ Hind. bhūsā, bhus, husk, straw.] Chopped straw. R. Kipling.

A few donkey loads of bhusa and a little corn brought from Poln enabled me to keep the few animals requisite for carrying the tents, instruments, etc., till the work was finished.

Geog. Jour. (R. G. S.), XIII. 188.

bia (bē'ā), n. [Siamese bia, a shell used as a coin.] A round, thick copper coin of Siam, of the value of 200 cowries.

biacromial (bī-a-krō'mi-al), a. $\Gamma bi^{-2} + acro-$

mial.] Relating to both acromial processes.

biacuru, n. Same as *bayacuru.

biajaiba (bē-ä-hī'bā), n. [Cuban Spanish,
from a native name.] The Cuban name of the lane-snapper, Lutjanus synagris, a fish found

about the West Indies.

bialveolar (bi-al-ve'o-liir), n. [bi-2 + alveo-lar.] Relating to the two sides of the alveolar

processes.—Bialveolar breadth, the distance between the outer sides of the alveolar processes.

bianchetto (bē-an-ket'ō), n.; pl. bianchetti(-i).

[lt., white, white lead, dim. of bianco, white.] A billon coin of the marquisate of Montefer-

rato, under the Palæologi.
biannulation (bi-an-ū-lā'shēn), n. [bi-2 + annulation.] A circular or ring-like formation consisting of two rings. Annals and Mag. Nat. Hist., Jan., 1903, p. 75.

biasterial (bī-as-tē'ri-al), a. [bi-2+ asteria +

-al.] Same as *biasteric.

[bi-2 + osteria +biasteric (bī-as-ter'ik), a. -ic.] In craniom., relating to the asteria, the points where the occipital, temporal, and parietal bones meet .- Biasteric diameter, the distance between the asteria.

biasterionic (bī-as-tē-ri-on'ik), a. [Irreg. \langle bi-2] + asterion + -ic.] Relating to the two asteria; noting a diameter of the skull, the distance between the two asteria.

biatomic (bî-a-tom'ik), a. In chem., same as diatomic.

biauricular (bī-â-rik'ū-lär), a. [bi-2 + auricutar.] In craniom., relating to the auricular points.—Biauricular diameter, the transversal diameter of the skull, measured between the centers of the outer ears by French anthropologists, and between the central points of the upper rims of the outer ears by German anthropologists.

biaurite (bī-â'rīt), a. [L. bi-, two-, + auritus, eared.] See biauriculate.

bib², n.—Best bib and tucker, best clothes: originally used with regard to children, and now, humorously, applied to grown persons.
bibinca (bē-bēng-kä'), n. [Philippine Sp., <

Tagalog bibingen (not verified), perhaps same as bibinggn, a potsherd.] A kind of pastry made of boiled rice and cocoauut-milk. [Philippine Is.]

pine Is.]

Bible, n.—Cranmer's Bible. Same as Great *Bible.—Great Bible, a large folio Bible (called 'great' hecause of its size) published in April, 1539, in England, under the supervision of Coverdale. It is a revision of the versions of Tyndale, Matthew, and Coverdale. From it we have the Psatter of the Book of Common Prayer. Also called Cranmer's Bible.—Hebrew Bible, See *Tanak.—Printers' Bible, an early edition of the Bible in which Ps. cxix. 161 was made to read, "Printers have persecuted me without a cause," princes being intended. Stand. Dict.
—Treacle Bible, a black-letter Bible of the time of Queen Elizabeth, in which Jer. viii, 22 reads, "Is there no treacle in Gilead?" (treacle meaning an antidote for poison).

biblioclast (bib'li-ō-klast), n. [Gr. βιβλίον, a book, + -κλαστης, ζκλᾶν, break: ef. iconoclast.] A mutilator or destroyer of books.

Made honfires of the Maya and Aztec manuscripts. . May these bishops explate their erimes in the purgatory of biblioclasts.

Athenæum, June 7, 1884.

bibliogenesis (bib#li-ō-jen'e-sis), n.; pl. bibliogeneses (-sez). [Gr. βιβλίον, a book, + γένεσις, generation.] The act or process of creating books or literature.

bibliognostical (bib"li-og-nos'ti-kal), a. Same as bibliognostic.

bibliografer, n. A simplified spelling of bibliographer. bibliografy, n. A simplified spelling of bib-

liography bibliographist (bib-li-og'ra-fist), n. One who

is interested in bibliography.

bibliographize (bib-li-og ra-fiz), r, t; pret. and pp. bibliographized, ppr. bibliographizing. [bibliograph(y) + -izc.] To write a bibliography

bibliomanism (bib#li-om'a-nizm), n. Biblio-

bibliopegistical (bib"li-ō-pē-jis'ti-kal), a.

Same as bibliopegistic, bibliophagic (bib-li-of'a-jik), n. [bibliophag(y) + -ic.] appetite. Book-devouring: as, a bibliophagic

bibliophagist (bib-li-of'a-jist), n. One who

reads books omnivorously. bibliophilistic (bib"li-of-ī-lis'tik), a. Of or pertaining to a bibliophilist.

bibliophilous (bib-li-of'ī-lus), a. [Gr. βιβλίον, a book. + other, love.] Book-loving; addicted to bibliophily.

bibliopoly (bib-li-op'ǫ-li), n. [Gr. *βιβλιοπωλεία, ζ βιβλιοπώλης, a bookseller.] Bookselling. bibliotaphic (bib-li-ō-taf'ik), a. [bibliotaph +

-ic.] Of, pertaining to, or characteristic of a bibliotaph.

bibliotics (bib-li-ot'iks), n. [Irreg. ζ Gr. βιβ-λιον, book. + E. -otic, adj. ending.] The study of the essential character of documents, and the determination of the individual character of handwriting.

These contributions are contained in a published treatise of Dr. Frazer on this subject termed "Bibliotics, or the Study of Documents."

Jour. Franklin Inst., April, 1905, p. 323.

biborate (bī-bō'rāt), n. A salt of boric acid: as, biborate of sodium or borax.

as, biborate of sodium or borax.

Bibra alloy. See *alloy.

bicalcic (bi-kal'sik). a.—Bicalcic phosphate, in chem., calcium phosphate (callPo₄), in which one third of the hydrogen of phosphoric acid is present, the remaining two thirds being replaced by calcium. This substance is found in some urinary calculi, and occurs in the "reverted" phosphate of fertilizers, as also occasionally in the superphosphate of line as originally manufactured for agricultural use. Also known as bicalcium phosphate, bicapsular, a. 2. Ilaving a bilocular capsular, bicapsular, a. 2. Ilaving a bilocular capsular. bicarpellate (bi-kär'pel-āt), a. [bi-2 + NL. earpellum + -ate¹.] Same as bicarpellary.

alous Bicheroux's furnace. See *furnace.

bichlorid, n. 2. An abbreviation of bichlo-rid of mercury, mercuric chlorid or corrosive sublimate: often carelessly used in reference to this substance as an antiseptic and disinfectant .- Bichlorid-of-gold cure. Same as chlorid-

bicefalous, a. A simplified spelling of biceph-

bicho (bé'chō), n. [Sp. bicho, a worm, a small insect; Pg. bicho, a worm, biche, a small insect.] Another name in Spanish America for

sect.] Another name in Spanish America for the chigoe, Sarcopsylla penetrans.

Bichromate cell, in photog,, a glass cell designed to hold a solution of potassium bichromate which is placed hefore the objective: used with orthochromatic plates and in securing fine cloud-effects.—Bichromate ray-filter. a *filter1

bichrome (bi-krom'), n. [bichrom(ate of potasstum).] Bichromate of potassium or sodium: a workman's term. G. Duerr, Bleaching and Calico-printing, p. 56.

bichrone (bi'krön), a. [L. bi-, two-, + Gr. χρόνος, time.] Noting a type of internal-combustion motor having two cylinders set at an angle of less than 90° with one anathernal-combustions. other and communicating motion to a common crank-shaft. Such cylinders give more frequent working impulses and more equable turning effort than one cylinder does, and can be used in places where the opposed or double-opposed motors cannot be used for lack of room, as on motor-bicycles, or where the side-by-side arrangement would be inconvenient on account of bulk.

bicinium (bī-sin'i-um), n.; pl. bicinia (-a). [LL., ⟨ L. bi-, two-, + canere, sing.] A musical composition or performance for two voices; a duet.

bicircuition (bī-ser-kū-ish'on), n. [bi-2 + circuitton.] The result of two successive circuitions of the same characters. See *circuition. bicollaterality (bi*ko-lat-e-ral'i-ti), n. In bot., the state of being bicollateral.

biconcavity (bi-kon-kav'i-ti), n. [biconeave + -ity.] The condition of being biconcave or of

bicondylar (bī-kon'di-lär), a. [bi-2 + condyle + -ar³.] In anthrop., relating to two corresponding condyles, particularly to the condyles of the lower jaw.—Bicondylar breadth, the distance between the two condyles of the lower jaw at the middle of the transverse axis.

bicordal (bi-kôr'dal), a. [L. bi-, two-, + chorda, cord, + -al.] Relating to two cords; specifically, noting the vocal cords.

bicornate (hi-kôr'nāt), a. [As bicorn + -ate².]
Two-horned: said of the uterus when the cornua are abnormally large and projecting.

bicycle, n. 2. A traveling block used on a ca-ble in steam-skidding. [U. S.]—convertible bi-cycle, a safety-bleycle which may be made either into a diamond-frame wheel for men's use or into a drop-frame for women by the adjustment of a removable bar in the frame

bicyclette (bī-si-klet'), n. [F.] A chain-driven bicycle: so first named in France, to distinguish such bicycles from the high-wheel type which Lawson's, in which the large-diameter front wheel was re-tained, but the smaller back wheel was gcared and chain-

bicycles which are chain-driven, have wheels of equal size, and are geared for road use, as distinguished from racing-

bicyclical (bī-sik'li-kal), u. [bicycle + -ie-al, after cyclical.] Same as bicyclic².
bicylindrical (bi-si-lin'dri-kal), a. [bi-² + cy-

lindricat.] Having two cylindrical surfaces or axes of curvature: noting a form of lens.

bid, $r.\ i.$ —To bid to the board, in card-playing, to bid for the privilege of naming the trump if the points are not to be credited to any player. bidacryc (bī-dak'rik), $d.\ [bi-2+dacry(on)+dacryc]$

-(i)c.] In unthrop., relating to the two dacrya. See dacryon.

bidaily (bī-dā'li), a. [bi-2 + daily.] Appearing or occurring twice a day.

Each of the bidaily forecasts.

1'earbook U. S. Dept. Agr., 1894, p. 118.

bidarra (bī-dā'rā), n. [Russ. baŭdūra (Alexandrow), baŭdūra (Reiff), a skin canoe; perhaps of Alaskan origin: cf. būdarku, būdarkec.] Same division of a stream into two parts, each of which connects with a different river system:

as baidar.

Bidder, ganglia of. See *ganglion.
biddy-bid (bid'i-bid"), n. [A colonial English

The Maori name niri-piri.] The corruption of the Maori name piri-piri.] name in New Zealand of either of two troublesome weeds belonging to the rose family, Acæna Sunguisorbæ and A. ovina, or of their fruits, which cling to the clothing of passers-by and to animals. See sheep-pest, 2. bidentate, a. 2. In bot., doubly dentate, the

principal teeth, as of a dentate leaf, being less

deeply dentate.

bidimensional (bi-di-men'shon-al), a. [bi-2 +

The mechanical aymbol is complicated, and eventually modified, through the difficulty of depicting tridimensional relations on the bidimensional surface.

An. Rep. Bur. Amer. Ethnol., 1897-98, p. 841.

bidri, n. 2. An alloy, called also bidery

(or Bidery) metal, used by Indian metal workof Paneray, used by Indian India, is composed of 123.6 parts of zinc, 4.6 parts of copper, and 4.14 parts of lead, which are melted together with some resin and wax to prevent oxidation. In other countries the proportions differ considerably. The alloy is very resistive to corrosion and does not oxidize in air or moisture. In India it is used for the manufacture of various utensits.

biduotertian (bid"ū-ō-ter'shan), a. [L. biduus, lasting two days, + tertianus, tertian.] Tertian, but with the recurrences almost continuous (lasting, as it were, over two days).—Biduotertian fever, a tertian malarial fever in which the paroxysms are of such long duration that the fever is nearly ontinuous.

Bidyan ruff. See *ruff3.

Bidyan ruff. See *ruff*.

Biebrich acid-blue, black, scarlet. See *acid-blue, *black, *searlet.

Biela's comet. See *comet.

bielectrolysis (bī-ē-lek-trol'i-sis), n. [bi-2 + electrolysis.] In phys. chcm., simultaneous deposition of two metals by the electrolysis of a mixture of their selfs. a mixture of their salts.

bielid (bi-ā'lid), n. and a. Same as andromed: so named because these meteors are supposed to be connected with Biela's comet and move in its orbit. See Biela's *comet.

A well-marked shower of Bielia meteors was observed at Princeton on the evening of November 24. At ten o'clock the meteors averaged two or three per minute at times.

Sci. Amer., Dec. 9, 1899.

biennium (bī-en'i-um), n.; pl. biennia (-ä). [L.: see biennial.] A period of two years.

-ity.] The condition of being biconcave or of having two opposed concave surfaces, like a biconcave lens or the red blood-corpnseles of bier, n.—Half-bier, twenty warp-threads, or half of the bier measure used in weaving in English textile-mills. bieremus (bī-er/ē-mus), n.; pl. bieremi (-mī). [L. bi-, two-, + cremus, a hermit.] In bot, bicondylar (bī-kon'di-lār), a. [bi-2 + condyle] a two-celled fruit in which the loculi are widely separated.

Bier's operation. See *operation. bifacial, a. 4. In geom., having two distinguishable sides or faces. - Bifacial aurface. See surface

bifanged (bi'fangd), a. [bi-2 + fanged.] In anat., having two roots or fangs, as is the case with some of the premolars of many carnivores.

The molars are sharply distinguished from the premolars, which are bifanged teeth with simple, laterally compressed crowns.

Amer. Jour. Sci., April, 1904, p. 322.

biff (bif), n. [An imitative var. of buff³ and bigwiggery (big-wig'er-i), n. Same as *big-baff².] A brief, sharp sound, as of a blow wigism. with the fist.

biff (bif), r. t. To strike with a sharp blow, as of the fist.

"Ef we all biffed you now, these same men you've been as dead anxious to kill 'u'd call us off. Guess we'll wait till they go back to the haouse, an you'll have time to think cool an' quiet," said Rod.

R. Kipling, A Walking Delegate.

Bi-iliac (bī-il'i-ak), a. [bi-2-to the two iliae bones. Rus till they go back to the haouse, an you'll have time to the two iliae bones. Rus think cool an' quiet," said Rod.

R. Kipling, A Walking Delegate.

driven. The name is still used in France for all types of bifflar, n. 2. An electric circuit doubled back bicycles which are chain-driven, have wheels of equal size, upon itself so that the conductor is closely adjacent to the return-conductor and the inductance of the circuit is thereby reduced to a minimum.

biflex (bi'fleks), a. [L. bi-, two-, + flexus, a bending: see flex.] Having two opposite flexures or bends.

Bifocal *lens, *spectacles. See the nouns. bifoveate (bi-fo'vē-āt), a. [NL. *bifoveatus, < L. bi-, two-, + forca, a pit.] Having two fovem foveæ.

Mesonotum closely punctured, the apex in the middle broadly longitudinally striated, almost reticulated; middle lobe raised at the base. Scutellum roundly raised, smooth, covered with long pale hair. Postscutellum biforeate at the base.

Annals and Mag. Nat. Hist., March, 1904, p. 222.

as, the bifurcation of the upper Orinoco.

big¹, a.—Tropical big leg. Same as pachydermia. bigamously (bigʻa-mus-li), adv. In a bigamous manner; so as to commit, or be chargeable with, bigamy.

bigarreau (be-ga-ro'), n. [F. See bigaroon.] Same as bigaroon.

bigas (be-gas'), n. [Tagalog.] In the Philippines, a name for uncooked rice.

bigatus (bi-gā'tus), n.; pl. bigati (i) [L., \bigati qæ, a two-horse chariot.] A Roman silver denarius, bearing the figure of a two-horse chariot. dimension + -al.] Having two dimensions; of bigeminal (bi-jem'i-nal), a. [L. bigeminus, twin (see *bigeminous), +-al.] 1. In the echinoids or sea-urchins, noting an arrangement of the pairs of ambulacral pores such that there are two vertical rows extending from peristome to apex. Also biserial.—2. Of or relating to the corpora bigemina.—Bigeminal bodiea, the corpora bigemina. See bigeminus

bigeminous (bī-jem'i-nus), a. [L. bigeminus, & bi-, two-, + geminus, twin.] Double, as a tooth apparently formed by the union of two teeth; bigeminal. W. Bateson, Study of Variation, p. 238.—Bigeminous pulse, one which intermits every third heat.

bigenous (bij'è-nus), a. [L.bi-, two-, +-genus, -born.] Inherited from both parents: distinguished from monogenous, referring to one parent. Philos. Trans. Roy. Soc. (London), 1895, Ser. B, 186. 784.

bigging, n. 2. In mining, a pack-wall. Barrowman, Glossary. [Scotch.] bighead, n. 2. A fish, Electris nudiceps, of the family Gobiidæ. [Australia.] biglenoid (bī-glē'noid), a. [bi-2 + glenoid.]

Relating to both glenoid cavities, as of the temporal bones.

biglobulus (bī-glob' ū-lus), n.; pl. biglobuli (-lī). [NL., < L. bi-, two-, + globulus, globule.] In Polyzoa, a pair of zoecia growing on an inter-

bigmouth, n. 2. The squaw-fish, Ptychocheilus

bignouth, n. 2. The squaw-issi, I tychochetus oregonensis. [California.]
bignai (bēg-nī'), n. [Tagalog bignai, bignay.]
A name in the Philippine Islands of Antidesma Bunius, a small tree of the spurge family, with loose spikes of very small unisexual flowers and a small juicy acidulous fruit, red at first and turning black when ripe, used for making preserves.

bignoniad (big-no'ni-ad), n. [Bignonia + -adl.]

A plant of the family Bignoniaceæ. bignonial (big-nō'ni-al), a. Related to, resembling, or having the characters of Bignania.

bigoniac (bī-gō'ni-ak), a. [bi-2+gonia+-ac.] In craniom., relating to the two gonia.—Bigoniac diameter, the distance between the two gonia, or angles of the lower jaw. 17th An. Rep. Bur. Amer. Ethnol., I.

bigonial (bī-gō'ni-al), a. [bi-2 + gonia + -al.] Same as *bigoniae.—Bigonial arc. See *arc. bigquis (bēg-kēs'), n. [Tagalog.] A belt made of fabries, worn by the natives of the Philippine

Islands.

bigwigism (big'wig-izm), n. Official display of importance; pomposity: as, "empty bigwiggism," George Eliot, Middlemarch.

bi-iliac (bi-il'i-ak), a. [bi-2+iliac.] Relating to the two iliac bones. Russell.

bi-impressed (bi'im-prest), p. a. [bi-2+im-

The propygidium is biimpressed and, like the pygidium, is clearly not closely punctured.

Annals and Mag. Nat. Hist., Aug., 1904, p. 144.

bijugal (bī-jö'gal), a. [bi-2+jugal.] In cra-niom., of or pertaining to the two jugal points, —Bijugal breadth, the distance between the two jugal

bijugular (bī-jö'gū-lär), a. Relating to the point of meeting of the jugular process and the masto-occipital suture on each side of the skull.

bike² (bik), n, and v. A corruption of bicycle. bike-sulky (bik'sul"ki), n. [bike2 + sulky, n.] having a high-arched axle, short shafts, and low wooden or wire-spoked wheels

with rubber tires. [Colloq.]
bike-wagon (bik'wag'on), n. [bike² + wagon.]
A light buggy having bigh-arched axles and

low wheels with rubber tires. [Colloq.]

Bikukulla (bi-kū-kul'ā), n. [NL. (Adanson, 1763) for *bicuculla. Named in reference to the form of the corolla, \langle L. bi-, two-, + cucullus, hood.] A genus of dieotyledonous plants belonging to the family Papaveraceæ. See Di-

tonging to centra.

bil, n. and v. A simplified spelling of bill.

bilabial (bi-lā'bi-al), a. [L. bi-, two-, + labium, lip: see labial.] Involving the two bilineurine (bil-i-nū'rin), n. [L. bilis, bile, + Gr. vēipov, nerve (sinew), + -ine².] Same as

Thus F came to be the representative of the unvoiced lablodental spirant instead of that for the bilabial voiced spirant.

Encyc. Brit., XXXIII. 897.

bilango (bi-läng'gō), n. [Tagalog bilango, a constable; cf. bilango, Bisaya bilanggo, take, lations. Ratzel, Hist. of Mankind, II. 20. arrest.] A peace officer or constable. [Phil-bilingually (bī-ling'gwal-i), adv. In two lanarrest.] A ippine Is.]

arrest.] A peace officer or constable. [Philippine Is.]

bilangoan (bi-läng-gō'ān), n. [Tagalog bi-langoan, Bisaya bilangoan, a prison: see *bi-langoan, Bisaya bilangoan, a prison: see *bi-langoan, In the Philippine Islands, a prison.

bilati-pani (bi-lä'ti-pä'ni), n. [Hind. bilyātī biliprasinate (bil-i-pār'sin-āt), n. [biliprasin. bilati-pani (bi-lä'ti-pä'ni), n. [Hind. bilyātī bilipurpurin (bil-i-pēr' pū-rin), n. [L. bilis, pānī; bilyātī, foreign, European, pānī, water.] Literally, 'European water'; an Anglo-lindian name for soda-water. Also bilateename for soda-water and solution from another substance originally present panee

Bile salt, the salt of a bile soid, for example, sodium glycocholate.—Cystic bile, that portion of the bile which is stored for a time in the gall-bladder before passing into the intestine. See extract under kepatic. passing into the intestine. See extract under hepatic.—Pettenkofer's test for bile acids, a careful admixture of sulphuric acid and sugar with a fluid thought to contain bile. It hile, is present, the mixture will allow a play of colors, resulting finalty in a bright purple.—Platner's bile, the bile-acid salts, in crystalline form, obtained from the bile by precipitating its alcoholic extract with ether. This forms the starting-point for the isolation of the individual members of the group.

bile-papilla (bil'pā-pil'i), n. An elevation at the noint where the common bile-duct enters

the point where the common bile-duct enters the duodenum

bile-vessel (bil'ves"el), n. One of the channels in the liver which conduct bile.

Bilge-and-cantline. See *cantline. bilge-block (bilj'blok), n. In ship-building, one of a series of blocks of timber used to support the bilges of a ship when it is building or is in a dry-dock. The bilge-blocks in a dry-dock are supported on transverse sliding ways, and provided with ropes or chains leading up to the top of the dock, by means of which the blocks can be pulled under the ship to help support it while they are still under water.

The reduction of transverse bending atrainaby these special supports is easily explained; for instead of an upward pressure W at the middle line and the downward force W forming a couple, the reaultant of the pressure on the keel-blocks and bilge-blocks will necessarily ite some distance out from the middle and closer to the line of action of the downward force W.

White, Manual of Naval Arch. p. 325.

bilge-saw (bilj'sâ), n. A saw resembling the barrel-saw (which see), having a convex or barrel-shaped cylinder.

bilge-shore (bilj'shor), n. In ship-building, a prop, or shore, which supports a ship at the turn of the bilge when it is on a building-slip or in a dry-dock.

bilge-strake (bilj'strak), n. In ship-building, a strake of planking or plating at the turn of

bilge-stringer (bilj'string"er), n. In iron shipbuilding, a stringer in the vicinity of the turn of the bilgo.

bilharzial (bil-här'zi-al), a. Same as *bilharzie. Jour. Trop. Med., Jan. 1, 1903, p. 1.

bilharzic (bil-hār'zik), a. Relating to oreansed by infection with Bilharzia. Phil. Med. Jour., Jan. 31, 1903, p. 208.
bilharziosis (bil-hār-zi-ō'sis), n. [NL., < Bil-

harzia + -osis.] The state of being infected with Bilharzia.

Water serves as the vehicle and medium of existence of the bilharzia. Water taken as a beverage is very rarely the source of the parasite in man. Cultures of bilharzia

[bi-2 + jugular.] bilianic (bil-i-an'ik), a. [1. bilis, bile, +-an ting of the jugular +-ic.] Pertaining to or derived from bile.

+ -ic.] Pertaining to or derived from bile,

-Biliante acid, an oxidation-product, C₂₄H₃₄O₈, of
cholalic acid.

Biliary acid, any bile acid.—Biliary apparatus, the
secreting cells of the liver, bile-ducts, and gall-bladder
which are concerned in the elaboration, conduction, and
storage of the bile.—Biliary canal. Same as hepatic
duct (which see, under duct).—Biliary irrhosis, a form
of cirrhosis of the liver in which the organ is enlarged, accompanied by jaundice.—Biliary concretions, biliary
calculi.—Biliary fistula, a fistula communicating with
the gall-bladder.

bilic (bil'ik) a [II. bilis bile + ic.] Do-

bilic (bil'ik), a. [L. bilis, bile, + -ic.] Derived from bile.—Bilic acid, a crystalline bibasic acid, Clett200, obtained by oxidizing cholic acid with chromic acid. It melts, when heated quickly, at 190° C. biliferous (bi-lif'e-rus), a. [L. bilis, bile, +

ferre, bear.] Conveying bile.

bilinear, a. 2. Linear in two ways. Thus the form Σ_1 Σ_2 aij x_1 y_1 is a bilinear form, that

bilingualism (bī-ling'gwal-izm), n. [bilingual + -ism.] The habitual colloquial use of two languages by the same person in different re-

tion from another substance originally present

bilirubinate (bil-i-rö'bin-āt), n. [bilirubin + -ate^I.] A salt of bilirubin.

bilirubinic (bil-i-rö-bin'ik), a. Of or pertaining to bilirubin.

bilirubinuria (bil"i-rö-bi-nū'ri-ä), n. [NL., bilirubin + Gr. οἰρον, urine.] Exerction of bilirubin in the nrine.

bilithon (bi'lith-ou), n.; pl. bilitha (-ā). [L. bi-, two-, + Gr. λίθος, stone.] A name invented by James Fergusson to describe a table-like megalithic monument formed by a flat horizontal stone resting on a vertical one.

biliverdinate (bil-i-vėr'din-āt), n. [biliverdin + -ate^I.] A salt of biliverdin. biliverdinic (bil-i-vèr-din'ik), a. Of or per-

taining to biliverdin -Biliverdinic acid. Same as

bilixanthin (bil-i-zau'thin), n. [L. bilis, bile, + Gr. ξανθός, yellow, + -in².] The final oxidation-product of the common bile-pigments: a brownish amorphous substance having the

formula $C_{16}H_{18}N_2O_6$: same as *choletelin. bill 1, n. 3. A headland: as, the Bill of Portland (England).

The contrast between the three headlands of Selsey Bill, Beachy Hend, and Dungeness . . . is remarkable.

Geog. Jour. (R. G. S.), XV. 215.

Beachy Hend, and Dungeness . . . is remarkable. Geogl. Jour. (R. G. S.) XV. 215.

Bill at sight, a negotiable instrument payable by the drawer upon presentment.—Bill obligatory, in old Englaw, a promissory note under seal; a single bill under seal.—Bill of costs, an itemized statement of the amounts of the costs and disbursements allowed by law to the prevailing party in an action.—Bill of discovery, a bill in equity filed to obtain information of facts within the knowledge of a defendant, or of deeds or other instruments or things in his custody or power.—Bill of gross adventure, in French maritime law, an instrument in the nature of a bond given to secure a maritime loan.—Bill of imprest. See *imprest.—Bill penal, in contracts, a bond by which a deltor confessed to his debt in a certain sum and bound himself for payment in a larger aum. It is now superseded by a bond with conditions.—Bill quia timet, in law, a bill in equity filed by a plaintiff because he apprehends injury to his property or rights on account of the fault or neglect of another. It is employed to guard against possible or future injuries, and to preserve the means by which present rights may be protected against possible or future violations.—Engrossed bill, a proposed act of a legislature that has been engrossed helore being called for final passage.—Enrolled bill, in contracts, a written instrument, without conditions, and which does not depend upon any future event to give it validity, for the absolute payment of a certain sum of money at a certain time.

bill³ v. t. 3. To furnish or cover with bills or advertisements; placard: as, to bill the town.

advertisements; placard: as, to bill the town.

have been negative so far. All kinds of mollusca have been examined for the intermediate host in vain. Dr. Ruffer, of Alexandria, does not believe that the parasites enter through the skin. In the Transvaid, where biltharziosis is very frequent, baths are rare. There may be fibrous lesions in which there are no eggs, and rough superficial lesions in which eggs are to be found.

Phil. Med. Jour., Jan. 31, 1963, p. 208. cases returning to it at a farther point); an effluent. Also billibong, billybong.

Billubong is often regarded as a synonym for Anabranch: but there is a distinction. From the original idea, the Anabranch implies rejoining the river; whilst the Billaboug implies continued separation from it; though what are called Billabougs often do rejoin.

Austral English.

bill-beetle (bil'be tl), n. Any beetle with a long rostrum, as a member of the family Curcutionidae; specifically, a *bill-bug (which see).
bill-board², n. 2. A ticket of admission to a
theatrical performance, circus, or the like, given to shopkeepers, etc., in return for billboard privileges accorded. [Theater cant.]

bill-bug (bil'bug), n. Any calandrid beetle of the genus Sphenophorus, as the corn bill-bug, Sphenophorus sculptilis. See Sphenophorus, with cut. They breed in the roots and stems of grains and grasses.

One of the most serious outbreaks of the eorn billbug, Sphenophorus sculptilis, occurred in a field of timothy of three years' standing, containing 35 acres, which was broken during March of the present year, and on the 13th of New was related with comay was planted with corn.

"M. Webster, in Proc. Assoc. Econ. Ent., 1900, p. 86.

F. M. Webster, in Proc. Assoc. Econ. Ent., 1900, p. 86. Blue-grass bill-bug, an American calandridheetle, Sphenophorus parvulus.— Calloused bill-bug, Sphenophorus callosus.— Clay-colored bill-bug, Sphenophorus æquætis.— Sculptured corn bill-bug, an American calandrid beetle, Sphenophorus sculptilis, which damages growing corn. See cut under Sphenophorus.— Tenacious bill-bug, Sphenophorus pertinax.

billete (bil-yā'tā), n. [Sp.: see billet.] In Spanish-speaking countries, a tieket of any kind; especially, a lottery tieket.

billiard-green (bil-yārd-grēn'), n. A bright yellowish-green color: so named because bil-

yellowish-green color: so named because billiard-tables are covered with cloth of this color. billionism (bil'yon-izm), n. The financial position of a billionaire. O. W. Holmes, Elsie Venner, vii.

billionth (bil'yonth), a. and u. I. a. 1. Coming last in a set of a billion terms: an ordinal numeral.—2. Being one of a billion equal parts.

II. n. One of a billion equal parts; the

quotient of unity divided by a billion.

billow, n.—Atmospheric billow. See *air-billow. billy3 (bil'i), n.; pl. billies (-iz). [Prob. from the familiar name Billy.] A tin can or pail with an arched handle and a detachable lid, with an arched name and a detachance ind, used by bushmen in Australia as a kettle.—Billy tea, tea made in a billy. [Australia.] billybong, n. See *billabong.
billy-can (bil'i-kan), n. The tin can used by Australian bushmen as a kettle. See *billy3.

Billy Playfair. A mechanical contrivance for weighing coal, consisting of an iron trough with a sort of hopper bottom, into which all the small coal passing through the screen is condueted and weighed off and emptied from time

to time. Coal and Metal Miner's Pocket-book. bilobal (bī-lō'bal), a. [bi-2 + lobe + -al¹.] Having two lobes: used specifically in mechanism: a bilobal cam; a bilobal eccentric gear.

bilobe ($b\bar{1}'l\bar{0}b$), v.i.; pret. and pp. bilobed, ppr. bilobing. [$bi^{-2} + lobe$.] To produce two lobes.

The bilobing of the anterior wall is adventitious, but the bilobed condition of the ventral wall is a constant character of the development.

Trans. Amer. Micros. Soc., Nov., 1903, p. 64.

bilobiate (bi-lō'bi-āt), a. [NL. *bilobiatus, < *bilobium, < L. bi-, two-, + lobus, lobe.] Having two lobes, or forming a double lobe; bi-

bilobite (bī-lō'bīt), n. [NL. Bilobites.]

sil of the genus Bilobites. See *Bilobites, 2.

Bilobites (bi-lō-bi'tēz), n. [NL. \lambda L. bi-, two-, + lobus, lobe, + -ites.] 1. A name given by Linnæus, in 1775, to a genus of fossil brachiopods, of small size, in which both valves are strongly bilohed by a median sinus. These were subsequently recognized to have the essential structure of Orthis, and were so designated, although King, in 1856, proposed for them the name Dicaelosia. The name Bilebites is now generally recognized. They are found in Silurian and Devonium rocks.

2. A name given by post-Linnean authors to certain lobed (usually bilobed) markings, in the older Paleozoic rocks, which have been va-riously regarded as fossil fucoids, the easts of impressions produced by worms, crustaceans, and jellyfishes, and also as of purely mechan-

ieal origin.

Biloculina (bī-lok-ū-lī'nä), n. [NL., < L. bi-, two-, + loculus, dim. of locus, a place, + -ina¹.] A genus of Foraminifera in which each succes-

sive segment completely envelops the others. Shells of this genus enter largely into the composition of calcareous deposits now being formed in the North Sea, and have abounded throughout Tertiary times.

biloculine (bī-lok'ū-lin), a. [NL. biloculinus,

(L. bi-, two-, + loculus, a compartment.] Having two chambers or compartments; specifically, having the structure or the mode of growth of Biloculina.

It is not until many chambers have been formed that the biloculine plan, characteristic of the genus, is assumed.

Sedgwick, Text-book of Zoöl., 1. 9.

See American *pottery. Biloxi pottery.

Bilston enamel, See *cnamel. bimalar (bi-mā'lār), a. [bi-2+malar.] Of or pertaining to the two malar points or to the two malar bones.— Bimalar breadth, in craniom., the breadth between the two malar points.

bimanually (bī-man'ū-al-i), adv. By means of both hands. Buck, Med. Handbook, V. 357. bimarian (bi-mar'i-an), a. [L. bimaris, lying between two seas, & bi-, two-, + mare, sea.] Of or pertaining to two seas. Bailey. bimastoid (bī-mas'toid), a. [bi-2 + masloid.]

Relating to both mastoid processes.

bimaxillary (bī-mak'si-lā-ri), a. [bi-2 + max-illa + -ary.] In anthrop., relating to the two maxillæ.—Bimaxillary breadth, the maximum breadth of the maxillæ.

bimetameric (bī-met-a-mer'ik), a. [bi-2 + metamere + -ie.] In morphol., eonsisting of two metameres or segments.

bimodal (bī-mō'dal), a. [L. bi-, two, + modus, mode, $+-al^{1}$.] Having two modes. In a table of frequencies the mode is the most frequent measure. If the curve of frequencies has two maxima it is called bimodal.

Field studies showed that the stamens vary from 0 to 13, forming a bimodal curve with principal maximum on 3 and secondary maximum on 5. The relative prominenes of the maxima, the value of the mean, and the coefficient of variability depend upon habitat and time at which collections are made Bot. Gazette, Dec., 1903, p. 477.

bimodality (bî-mō-dal'i-ti), n. The fact or

quality of being bimodal.

In the case of the curve for the prosternal teeth, which is strongly bimodal, the bimodality is due to the tendency towards bilateral symmetry.

Amer. Nat., May, 1903, p. 303.

bimolecular (bī-mō-lek'ū-lär), a. Coneern-

ing or consisting of two molecules .- Bimolecular reaction, in phys. chem., a reaction in which one mole-cule of one substance and one molecule of a second sub-stance disappear, so that the active mass of two sub-

stance disappear, so that the active mass of two substances changes.

bin4 (bin), n. A heap or pile. [Seotch.]

binaguan (bē-nā-gö-ān'), n. [Native name, not traced.] A valuable timber-tree, Dipterocarpus affinis. See Dipterocarpus. [Philip-

√Philippine Is.]

Binah (bē'nä), n. [Heb. bīnah, understanding.] The third Sephira, attribute, or intelligence forming the Adam Kadmon, according to the teaching of the Cabala. See *Sephiroth and *Adam Kadmon.

*Addam Kadamon.

binary. I. a.—Binary numeration, a system of numerals in which 2 is the higher unit, so that the numerals express the ideas 1, 2, 2 + 1, 2 × 2, 2 × 2 + 1, 2 × 2 + 2.

—Binary star, a double star whose components revolve in oval orbits, presumably about their common center of gravity. About 70 of these orbits have been computed with more or less precision, the periods ranging from 5 to 800 years. At least 200 other pairs show distinct evidence of physical connection, but have not yet been sufficiently observed to permit a determination of the orbit. It is likely that the great majority of double stars will ultimately be found to belong to this class, since the theory of probabilities indicates that optical doubles should be comparatively few.—Binary system. (a) See binary classification. (b) In astron., a pair of stars which revolve around their common center of gravity; a binary star.

II. n.—Spectroscopic binary, a binary star of which

around their common center of gravity; a binary star. II. n.—Spectroscopic binary, a binary star of which the components are too near each other to he separated by the telescope, but of which the binary character is shown by spectroscopic observations, being indicated by the periodic doubling and undoubling of the lines in the spectrum, or by the periodic shift of its lines relative to the lines of some element in a comparison-spectrum. About 60 such pairs are now known. Their periods range from about a day and a half to nearly a year, and their relative orbital velocity from 4 or 5 miles a second up to 400. The discovery of such objects (by Vogel and Fickering) dates from 1889. At present the list is rapidly growing.—Twin binary, a star which in the telescope is seen to consist of two pairs of stars, each pair binary: for example, e Lyrae. example, e Lyræ.

binauricular (bin-â-rik'ū-lār), a. [L. bini, both, + auricula, auricula.] Same as *biauricular.

binbashi, bimbashi (bin-, bim-bash'i), n. [Turk. bing bāshī (pron. bin- or bim-), head of a thousand (a chiliarch), < bīng, a thousand, + bāsh, head.] In the Turkish and Egyptian armies, an officer of the rank of major.

Binche lace. See *lace.

bind, v. i.—Binding note or tone, in music, a note or tone common to two successive chords, by which in passing from one to the other the harmony is bound together. 10. In lumbering, a springy pole used to tighten a binding-chain. Also called a jim-binder.—11. In mach., a crank-shaft journal-box or bearing on an engine.—12. In obstet., a broad cloth band applied snugly to the abdomen after the termination of labor. —13. A firm leaf inclosing the filler in a cigar and itself surrounded by the wrapper. It grades, in market value, below the wrapper and above the filler.—14. Indurated argillaceous shales or elay very commonly forming the roof of a coal-seam and frequently containing elay ironstone. Coal and Metal Miners' Pocket-book.—Binder's title, the name of a book (usually abbreviated) placed on the narrow back of its cover.

binder-twine (bīn'der-twīn), n. A special kind of twine for use in the binding appliance attached to a harvester; twine for a binder. See harvester.

binding, n.—Grolier binding. Same as Grolier design.

Loose-leaf binding, a system of bookbinding which admits of the removal of any one or of all the pages of the book at will. The loose leaves can be reinserted in the book and practically rebound within the covers. Loose-leaf books are bound in many ways, sll admitting of the ready removal of the pages, and yet holding all the leaves in place when locked to the covers.

binding-bar (bin'ding-bar), n. Any bar used for binding the parts of a structure together. binding-beam (bīn'ding-bēn), n. A girder upon which rest the smaller beams of a floor. binding-bolt (bin'ding-bolt), n. A bolt used in binding machinery to a foundation. Bar-

rowman, Glossary.

binding-chain (bīn'ding-ehān), n. A chain used to bind together a load of logs. Also

called wrapper-chain.

binding-log (bin'ding-log), n. One of the logs placed on the top of the chain which binds a load in order to take up the slack.

Bindschedler's green. See green*1. bindweed, m.—Bracted, great, or hedge bindweed, Convolvulus sepium.— English or small bindweed, Convolvulus arvensis.—Ivy bindweed. See ivy-bindweed.

bingle-bangle (bin'gl-ban'gl), a. [Imitative derivate of bangl.] Vacillating fiekle. [Dia-

bingo (bing'gō), n. [Origin obscure; 'Bingo' and 'the Bingo farm' figure in the refrain of

six. See sixty-six.

bingoi (bing-gō-ē'), n. [Jap.] The common rush, Juneus effusus, from which Japanese mat-

ting is made.

biniodide (bin-ī'ō-did), n. [L. bini, two by two, + E. iodide.] In chem., an iodide containing two atoms of iodine in the molecule: as, biniodide of mercury or mercuric iodide

(Hgl₂).
bink² (bingk), v. i. To play the part of 'Binks' in the manner of a binkser. the bagman'; act in the manner of a binkser. See quotation under *binkser.

binkser (bingk'ser), n. [Also binxer. See the extract below.] A vulgar, loud-talking, blustering person; especially, a commercial traveler of this kind.

Among commercial travellers a "binxer" or "binkser" is a slang term for that type of bagman, "the gushing personage, with shiny hat and loud voice, who scours the country, establishing a character for being the nnisance of the calling."—Globe, 21 December, 1897. The word probably had its origin in a one-act farce by Stirling Coyne, entitled 'Binks the Bagman.' Binks is there depicted as a bragging, blustering upstart, a "bounder," although his deportment during commercial transactions is not alluded to, his vulgar hehaviour being there confined to the inn at which he puts up.

N. and Q., March 9, 1901, p. 182.

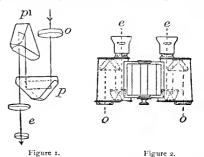
binnacle-lamp (bin'a-kl-lamp), n. On a vessel, the small lamp which fits into the binnacle-hood and lights up the compass-card.

binnacle-light (bin'a-kl-līt), n. Same as *binnacle-lamp.

binocular. I. a.—Binocular camera. See *canera3.—Binocular loop. See *loop1.

II. n. An optical instrument, such as a fieldglass, with two objectives and two eyepieces, adjusted so as to permit the simultaneous use of both eyes. The word binocular has almost entirely supplanted the older and grammatically preferable form binocle.-Porroprism bicarry preferable form *moccle.—Porroprism binocular, a biocoular field-or opera-glass, having a special
combination of prisms, for the purpose of erecting the
lonage, of increasing the interobjective distance, of materially shortening the length of the tubes, and of reducing the weight of the instrument: sn adaptation of the
work of the Italian engineer Porro.—Prismatic binocular, a field-glass or other binocular telescope in which

compactoess of form with great focal length is obtained by the use of a system of reflecting-prisms. Ordinary opera- and field-glasses are telescopes of the Galilean type, consisting of a positive objective and a negative eye-lens. This is a compact construction, since the focal length of the instrument is equal to the difference of the focal lengths of the two lenses, and because it is unnecessary to use an erecting-lens. It is practicable, however, only for magnifying powers of less than 3 diameters. To obtain the advantages of a telescope with positive eye-piece, a form which has a larger field and admits of much higher magnifying power without increasing the actual higher magnifying power without increasing the actual



length of the instrument, the optical system shown in Fig. 1 is employed. It consists of an objective, 0, two reflecting-prisms, p and p1, and an eyepiece, e, for the right eye of the observer, and of a similar system symmetrically placed for the left eye. The series of reflections within the prisms gives an erect image without the introduction of the erecting-lens used in ordinary terrestrial telescopes. In field-glasses of this type a msgnifying power of from 4 to 8 diameters is easily obtained. In the prismatic binocular the interobjective distance oo (Fig. 2) is greater than the interocular distance ee: an arrangement which affords greater steroscopic power than is obtained in ordinary binocular vision or with field-glasses in which the interobjective and interocular distances are equal.

equal.

Binodal area, a region of the ocesu where, according
to H. A. Harris, it becomes possible for the water to
oscillate as a mass about two nodal lines, giving rise to
a hinodal tide.

binograph (bī'nō-graf), n. [L. bini, two by two, $+ \gamma \rho \dot{\alpha} \phi \epsilon \nu \nu$, write.] A picture in which the two elements of a stereogram are united in one: also applied to pictures in which all possible intermediate views are united. Wall, Diet. of Photog., p. 81. binographic (bī-nō-graf'ik), a. Of or pertain-

lectal.]
bingo (bing'gō), n. [Origin obscure; 'Bingo' and 'the Bingo farm' figure in the refrain of a college song.] A game of dominoes essentially identical with the eard game of sixty-six. See sixty-six.
bingoi (bing-gō-ē'), n. [Jap.] The common the production of pictures by the blending of the two elements of a stereogram. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common graphs. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of pictures by the blending of the two elements of a stereogram. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of pictures by the blending of the two elements of a stereogram. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of pictures by the blending of the two elements of a stereogram. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of pictures by the blending of the two elements of a stereogram. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of a stereogram. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of a stereogram. Wall, Dict. of Photog., p. 81.
bingoi (bing-gō-ē'), n. [Jap.] The common distribution of a stereogram.

binominal system of names or naming.

Binomial curve. See $\star curve$.—Binomial law, the law of chance according to which the probability that an event, whose probability on each one of n occasions is p, should occur r times among these n occasions is equal to the term containing p^r in the development of $(p+q)^r$, where q=1-p. See probability.

where q = 1-p. See processing.

To those acquainted with the so-called binomial or serial law, according to which no phenomenon occurs singly—each one heing, on the contrary, the expression of a series of less well-defined but analogous facts—such frequent occurrence of epilepsy among the most distinguished of distinguished men can but indicate a greater prevalence of this disease among men of genius than was previously thought possible, and suggests the hypothesis of the epileptoid nature of genius itself.

C. Lombroso (trans.), Man of Genius, p. 338.

binukao (bē-nö-kou'), n. [A Philippine name.] A tree, Garcinia Cambogia, belonging to the family Clusiaceæ. It yields a gum resin which is inferior to gamboge on account of its insolubility in water. However, it is soluble in turpentine and may be used as a varnish. The acid rind of the fruit is dried by the natives of India and Ceylon and Is used in curries. See Garcinia. [Philippine Is.]

See Garcinia. [Philippine 18.] bioblasts, n:—Altman's bioblasts, miente granules, of which (embedded in a homogeneous substance) protoplasm is composed, according to the theory of Altman bioblastology (bi* σ -blas-tol* σ -ji), n. [Gr. β ioc, life, $+\beta \lambda a \sigma \tau \delta c$, germ, $+-\lambda o \tau a$, $<-\lambda o \tau o c$, $<\lambda \epsilon \tau o c$, speak.] The study or discussion of the properties or characteristics of germs or enables of the study bryos in their relation to the adult properties or characteristics of ancestors. Hyatt, Biol.

Lect., 1899, p. 141. [Rare.] biochemical (bī-ō-kem'i-kal), a. [Gr. \(\beta\)iochemis-+ E_chemical.] Of or pertaining to biochemistry; biochemic; also, chemicophysiological.

A constant constructive and destructive bio-chemical process occurs in the neurones of a healthy nervous system. Encyc. Erit., XXX1. 539.

biochemistry (bi-ō-kem'is-tri), n. [Gr. βίος, life, + E. chemistry.] The chemical study of living matter; also, physiological chemistry.

The chair of biochemistry recently founded in University College. Nature, Aug. 14, 1902, p. 381.

biocrystal (bi-ō-kris'tal), n. A term used by Biologic form, a number of organisms with some common characteristic that is due to some constant external influence. admits of mathematical description.

Midway between the organic plasma-products and in-organic crystals we have the bio-crystals, . . . for in-stance, the crystalline flint or chalk skeletons of many of the sponges, corals, etc. Hacckel (trans.), Wonders of Life, p. 41.

biocular (bi-ok'ū-lār), a. [L. bi-, two-, + oculus, eye: see ocular.] In anthrap., relating to the two eyes: as, external biocular breadth, the distance between the outer corners of the eyes.

biodendry (bi'ō-den-dri), n. [Improp. formed from Gr. βίος, life, + δένδρον, tree, + -y³. The formation means 'life-treeness,' 'the quality of being a life-tree!—a notion not really existent. The proper form would be *dendrobia or *dendroby, 'tree-life.'] The economy of tree life; tree physiology.

Because a tree may take up only one millionth part of the carbon dioxid which comes to it in the air during ita period of growth, is no reason for asying that this constituent of the air is of little consequence in biodendry.

H. W. Wiley, Science, May 15, 1903, p. 794.

biogen, n. 2. In biol., one of the smallest theoretical units of living substance: same as *plasome, *biophore, etc. Verworn, 1895.

Biogenetic law. See *lawl.
biogenetical (bi*o-jō-net'i-kal), a. Same as

biogeographic (bī "ō-jē-ō-graf'ik), a. Of or pertaining to biogeography or the geographical distribution of life.

biogeographical (bī'ō-jō-ō-graf'i-kal), a. [bio-geography + -ic-al.] Of or pertaining to biogeography, the geography of living things or geographical biology.

It has been thought expedient to employ "Association" for the more restricted assemblages, which are peculiar to each biogeographical area.

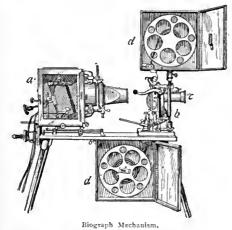
Kearney, Contrib. Nat. Herb., V. 269.

biogeography (bī "ō-jē-og'ra-fi), n. [Gr. βίος, life, + γεωγραφία, geography.] That branch of biology which treats of the geographical distribution of living things; geographical biol-

Bio-geography, the geographical distribution of life, arises directly from physical geography, which dominates it, but it is full of complex questions which involve the biological nature of the organism and the influence of physical environment, in which geographical elements, although predominant, do not act alone.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 705.

biograph (bi'ō-graf), n. [Gr. βίος, life, + γράφειν, 1. A mechanical device, invented by



electric arc-lamp; b, mechanism for moving film; c, objective for [projection; d, fire-proof magazines for film.

Herman Casler, for projecting upon a screen pictures of moving objects.—2. A biographical sketch or notice; a brief biography. E. Bur-

biograph (bi-ō-graf), v. t. To write a biograph of; prepare a brief biographical sketch of, biographee (bi-ō-graf-ē'), n. [biograph(cr) + -ee'.] One of whom a biograph is written. biolith (bi'ō-lith), n. [Gr. $\beta i o c$, life, $+ \lambda i \theta o c$, a term proposed by Ehren-

berg as a general name for a rock composed exclusively of organic debris. Also organo-

biologia (bī - ō - 1ō'ji - ā), n. [NL.] Biology: used in the quotation for the flora and fauna of a region considered as a whole.

We shall be enabled to work out a Biologia of the country now under investigation.

Proc. Zool. Soc. London, 1897, p. 238.

Within the last two years the existence of 'biologic rms' in the Erysiphacea has been definitely proved.

Rep. Brit. Ass'n Advancement of Sci., 1903, p. 850.

Biologic geology. See **geology.—Biologic hemolysis, hemolysis caused by lysins, the products of cellular activity, on the part of animals and plants: for example, the hemolysin produced by the tetanus bacillus, that found in snake venom, the crotin of Croton tightus, etc.

biological, a. 3. Regarded from the point of view of biology and natural selection exclusively as conversed to make height a reliability as

sively, as opposed to sociological, which implies that other considerations are taken into ac-

If we call biological processes natural, we must call social processes artificial. The fundamental principle of biology is natural selection, that of sociology is artificial selection. And so it is throughout. The terms are all reversed.

L. F. Ward, Psychic Factors of Civilization, p. 135.

Biological aggregation. See *aggregation.—Biological survey, a systematic examination of the organisms of any given region, involving their collection and identification and the determination of their distribution, life-histories, interrelations, and economic importance.

portance.

The Biological Survey proper carries on field explorations in all parts of the country, but does most of its detailed work in the west. It collects data and prepares maps showing the actual distribution of various species of manmals, birds, reptiles, trees and shrubs, and determines the boundaries between the several life-zones and areas. By a study of the associations of species distinctive of the several zones in connection with the crops found to thrive best in uarts of these zones, it prepares found to thrive best in parts of these zones, it prepares lists of the particular varieties of fruits and other agri-cultural products adapted to each belt. Science, XVII. 929.

Biological zones. See *zone.

biology, n.—Geographical biology, Same as *biogeography.—Philosophical biology, transcendental
biology, that study which carries speculations concerning biology, and especially organic evolution, further
than strict empirical science can, as yet, go.

We find the phrase transcendental biology employed by French writers, and elsewhere we meet with the significant title philosophical biology. Still more significantly Mr. Spencer, whose treatise on biology is occupied with researches of this high order, speaks of them as constituting a domain of "special philosophy." J. Fiske, Cosmic Philos., I. 61.

Structural biology, vegetable and animal morphology, or structural botany and zoology, considered collectively as the branch of science which treats of the structure or form of living beings.

— Systematic biology, systematic botany and systematic zoology, considered collectively as the branch of science which treats of the taxonomy of living beings, or acceptions to the taxonomy of living beings, or their arrangement in groups according to their degree of likeness or genetic nilinity.

biolysis, n. 2. The chemical decomposition, or breaking up into simpler compounds, of organic matter, brought about by living bacterial or other minute organisms, as in the case of sewage.

biometric (bi-ō-met'rik), a. Of or pertaining bionomic (bi-ō-nom'ik), a. and n. [bionomy + to biometry; biometrical.

The analysis of composite characters into their Individ-nal units and statistical inquiry into the behavior of the units would seem to be a necessary part of biometric in-vestigation.

Encyc. Brit., XXVIII. 344.

biometrical (bī-ō-met'ri-kal), a. Same as ullet biometric.

biometrician (bī/o-me-trish'an), n. One who devotes himself to biometry; a biometricist.

To the biometrician . . . variation is a quantity determined by the class or group without reference to its ancestry.

Pop. Sci. Mo., Jan., 1903, p. 252.

biometricist (bi-ō-met'ri-sist), n. A biometrician. Encyc. Brit., XXVIII. 344.
biometrics (bi-ō-met'riks), n. Same as ★biometrics (bi-ō-met'riks)

etry, 2.

Biometrics.—Within quite recent years, however, a special school has arisen with the main object of treating the processes of evolution quantitatively.

Encyc. Brit., XXVIII. 344.

biometry, n. 2. That branch of statistical science which treats of the measurable or quantitative properties of living beings (as weight or stature), or of their parts (as the stamens and petals of flowers), or of their activities (as and petals of flowers), or of their activities (as speed). More specifically, it is the branch of science which treats the measurable or quantitative properties of living beings, or of their parts, or of their activities, as logically or intellectually separable from these beings and as common or general to many of them, for the purpose of establishing laws of inheritance or other general laws, since it is only as individual and particular living beings that organisms exist in the natural world, and since they are organized and coordinated wholes and not bundles of qualities, many biologists, who admit that the study of biometry is valuable and important, hold that it is not biology but logic, since it deals with human intellectual conceptions or ideas rather than with the actual living world.

The phenomena of heredity and variation are specific, and give loose and deceptive answers to any but specific

questions. That is where our exact science must begin. Otherwise we may one day see those huge foundations of biometry in ruins.

Bateson, Mendel's Prin. of Heredity, p. xi.

biomolecular (bī "ō-mō-lek'ū-lūr), a. Of or pertaining to the biomolecules.

biomolecule (bi-ō-mol'e-kūl), n. [Gr. βίος, life, + E. molecule.] The smallest quantity of living matter that can exhibit some of the chemical phenomena of life; a molecule of living substance, in contradistinction to a molecule of lifeless or inorganic substance.

of lifeless or inorganic substance.

This view of the subject has led some thinkers, and notably Ermano Giglio-Tos of Turin, in a remarkable book entitled 'Les Problèmes de la Vie,' to form the conception of a biomolecule, or living molecule, that is to say the smallest quantity of living molecule, that is to say the smallest quantity of living matter that can exhibit some of the chemical phenomena of life, such as respiratory exchange, the function of chlorophyll, the starch-forming function, and functions of disassimilation and secretion.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 810.

biomonad (bi-ō-mon'ad), u. [Gr. βίος, life, + E. monad.] One of the granules in protoplasm.

E. monad. J One of the granules in protopiasm. Living matter, when examined by the highest powers, presents some of the characters of an emulsion; that is to say, it is composed of minute particles with finid matter between them. These minute particles, built up of biomolecules, have been termed by Tos biomones. Biomones, in their turn, form biomonads or bioplasm, or molecular or granular protoplasm, and this again forms the cell.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 810.

biomone (bi'ō-mōn), n. [Gr. β ioc, life, + μ oroc, single.] One of the minute particles of living matter, visible with the microscope and built up of biomolecules. See the extract under *biomonad.

biomore (bi'φ-môr), n. [Gr. βίος, life, + μόριον, piece.] In biol., a mass of biomolecules constituting one of the organs of the cell, like a

chromosome, centrosome, etc. biomorph (bī'ō-môrf), u. [Gr. βίος, life, μορφή, form.] A decorative form representing a living being or a part of a living being: opposed to *skeuomorph. Haddon, Evolution in Art, p. 126.

biomorphic (bī-ō-môr'fik), a. [biomorph + -ic.] Having the form of or relating to a biomorph.

Haddon, Evolution in Art, p. 188. bion (bi'on), n. [NL., neuter form based on Gr. βioc , life.] A term introduced by Haeckel to designate a physiological individual as contrasted with a morphon or morphological individual.

The physiological individual (or bion), characterized by definiteness and independence of function.

Encyc. Brit., XVI. 842.

bionic (bi-on'ik), a. [Gr. β loc, life, + -on-ic.] In biol., laving the properties peculiar to living organisms; especially, being able to repeat the same morphological characters in successive generations.

-ic.] I. a. Same as *bionomical.
II. n. Same as *bionomics.

bionomical (bi-ō-nom'i-kal), a. [bionomy + - ical.] Of or pertaining to the conditions under which an organism lives in its natural home; œcological. See *bionomics.

A large number of the continually increasing body of investigators have turned again to bionomical work.

Encyc. Brit., XXVIII. 344.

bionomically (bî-ō-nom'i-kal-i), adv. In relation to the conditions under which an organism passes its life in its natural home; ecologically. See *bionomics.

bionomics (h-o-nom'tks), n. [Pl. of *bionomic: see ics.] That branch of biologic science which treats of the conditions under which organisms live in their natural homes; the economics of biology; œcology (which see). Lankester.

bionomist (bī-on'ō-mist), n. [bionomy + -ist.]

One who studies bionomics or ecology.

biontology (bī-on-tol'ō-ji), u. [Gr. βίος, life (see *bion), + outology.] That branch of science which treats of the activities of the bion, or physiologic individual.

bionuclein (bī-ō-nū'klē-in), n. [Gr. βίος, life, + nuclein. A hypothetic iron containing nuclein with both oxidizing and reducing properties. biophilous (bi-of'i-lus), a. [Gr. βίος, life, + φίλειν, love.] In phytogeog., parasitic in or on the leaves and stems of the higher plants, or upon animal organisms: said of a class of fungi.

biophore ($\mathrm{bi}'\bar{\mathrm{o}}$ -for), n. [Gr. β ioc, life, +- ϕ opoc, $\langle \phi \epsilon \rho c v, \mathrm{bear.} \rangle$ 1. A cell, as the vital unit. G. C. Bourne.—2. The hypothetical bearer, in the germ-plasm or substance of inheritance, of one

of the hereditary qualities of an organism. Also biophor. See *germ-plasm.

Weismann's estimates as to the dimensions of the vital mit to which he gives the name of biophor may be shortly stated. He takes the diameter of a molecule at 200 hose of a millimetre (instead of the one millionth) and he assumes that the biophor contains 1,000 molecules. Suppose the biophor to be cubical, it would contain ten in a row, or 10 × 10 × 10 = 1,000. Then the diameter of the biophor would be the sum of ten molecules, or 200 hose would be the sum of ten molecules, or 200 hose would therefore measure 200 hose of which was 1 w would contain 200 × 200 × 200 = 8,000,000 biophors. A human red blood corpusc's measures about 7.7 \(\mu\) is suppose it to be cubed, it would contain as many as 3,652,264,000 biophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the biophor had a diameter of 1000 hiophors. If the Weismann's estimates as to the dimensions of the vital

biophorid (bī-of'ō-rid), n. [G. biophorid (Weismann); as biophore + -id².] A hypothetical mann); as biophore + -id².] A hypothetical living being consisting of biophores. In Weismann's notion, the lowest and most primitive organisms that we know are descended from biophorids. In the earliest biophorids all the biophores were alike (homobiophorids), but these were followed by those in which the biophores were of several kinds (heterobiophorids), from which all known organisms are descended.

These two kinds of hypothetical beings might be respec-vely distinguished as homobiophorids and heterobi-phorids. Weismann (trans.), Germ-plasm, p. 450.

biophysics (bī-ō-fiz'iks), n. [Gr. βioc , life, + φισικά, physics.] A science (not yet existent) which applies the principles of physics to explain the phenomena not merely of physiology but also of embryology and biological morphology. The term was introduced by K. Pearson in 1892.

Applied mathematics and biophysics are thus the two Applied mathematics and belongists are this the two links between the three great divisions of science, and only when their work has been fully accomplished, shall we be able to realize von Helmholtz's prediction and conceive all scientific formulæ, all natural laws, as laws of motion.

K. Pearson, Gram. of Sci., 1st ed., p. 470.

bioplasson (bi'ō-plas-on), n. [Gr. βίος, life, + πλάσσων, ppr. of πλάσσειν, form : see plasm.] Same as bioplasm.

biopsy (bī-op'si), n. [Gr. βίος, life, + δψις, sight.] Examination, for diagnostic purposes, of a piece of tissue severed from the living

biopsychic (bī-ō-sī'kik), a. [Gr. βίος, life, + ψυχή, mird: see psychic.] Pertaining to life and mind; psychephysiological. Pertaining to

But with more precision one can also aver, even outside the conditions profoundly pathologic, that there are a great number of cases in which the bio-psychic anomalies of the criminals may be the effect of an environment which is physically and morally mephitic.

Smithsonian Rep., 1890, p. 639.

biopsychological (bi"ō-sī-kō-loj'i-kal), a. Of

or pertaining to biopsychology.

biopsychologist (bi/ō-si-kol/ō-jist), n. A student of mind in its relations to life; one who bipartite, a. 3. In math., containing two sepapproaches psychology by way of biology (this taken in its widest sense to include evolutionary theory, anthropology, sociology, etc.).

Some biopsychologists almost wish to take the pulpit to bring out aright the old authents of Pauline conviction of sin and Socratic conviction of human ignorance.

G. S. Hall, Amer. Jour. Relig. Psychol., I. 3.

biopsychology (bī/ō-sī-kol/ō-ji), n. The in-bipectinated (bī-pek'ti-nā-ted), a. Same as vestigation of mind in its relations to life; bipectinate.

bioral (bi-o'ral), a. [L. bi-, two-, + os (or-), mouth: see oral.] Having two mouths, as

certain polyps during fission.

biorbital (bi-ôr'bi-tal), a. In craniom., of or pertaining to the two orbits.—External biorbital breadth, the distance between the external orbital

biorgan (bi'ôr-gan), n. [Gr. βίος, life, + ὁργα-νον, organ.] An organ in the functional or

physiological sense, as contrasted with an organ in the structural or morphological sense. bios (bi'os), n. [NL., $\langle Gr. \beta ioc, life, state of life, course of life, the world we live in.] Liv$ ing things considered collectively and in con-trast with things that are not alive. Hackel same as *quarterphase. (trans.), Planktonic Studies, p. 578. biphasic (bī-fā'zik), a. Of two phases.

trast with things that are not alive. Hacket (trans.), Planktonic Studies, p. 578.

bioscope (bi'ō-skōp), n. [Gr. βίος, life, + σκοπείν, view.] 1t. A view of life, or anything which gives such a view: as, "Bagman's Bioscope: Various Views of Men and Manners" (a book-title).—2. A cinematograph or vitascope. Science, Feb. 7, 1902, p. 235.

bioscopic (bi'ō-skop)'ik), a. Pertaining to or connected with a bioscopic: as, a bioscopic in crystals. It consists of a quarter places.

connected with a bioscope: as, a bioscopic camera. Athenæum, Dec. 12, 1903, p. 799.

biose (bī'ōs), n. [bi-2 + -osr.] A carbohydrate which on decomposition yields two molecules of a simpler sugar, as cane-sugar, which

gives rise to equal molecules of dextrose and

biosphere ($\ln^2 \tilde{o}$ -sfēr), n. [Gr. $\beta \log$, life, $+ \sigma \phi \tilde{a} \tilde{i} \rho a$, The sum of the living things on the

The atmosphere and the hospites. Brit. XXVIII. 625. biota 1 (bi'o-ti), n. [NL., \langle Gr. β tor η , beside β toro ς , life, way of life, \langle β to ς , life.] 1. The sum total of animal and plant life of a given sum total of animal and plant life of a given 1. The region or period: the equivalent of fauna and flora combined.—2. A treatise upon the animals and plants of any geographic area or geologic period. Stejneger, Amer. Nat., 1901,

Biota² (bī'ō-tii), n. [NL. (proposed by Don, 1828), \langle Gr. $\beta i\sigma\tau \dot{\eta}$, life: see biota¹. The name alludes to the common name of these trees, arbor-vitæ.] A group of conifers, now commonly referred to Thuja, the arbor-vitæ. The name, however, is frequent in nurserymen's catalogues.

biotic, a. 2. Pertaining to or treating of a biota, or the combined fauna and flora of a region or period: as, a biotic publication; a biotic region. Stejneger, Amer. Nat., 1901, p.

89. — Btotic geology. See *geology. biotomy (bi-ot'ō-mi), n. [Gr. βίος, life, + -τομία, ⟨ταμεῖν, cut.] The study of the structure of animals and plants by dissection: a compre-

hensive term for zoötomy and phytotomy. biotonic (bi-ō-ton'ik), a. Of or pertaining to biotonus. G. S. Hall, Adolescence, II, 112. biotonus (bi-ot'ō-nus), n. [Gr. βίος, life, + τόνος, tone, intensity.] In physiol., the relative amount of assimilation and dissimilation exhibited by any mass of living protoplasm in a given unit of time.

Biot's *hemispheres, *polariscope. See these words

Bipaliidæ (bi-pa-li'i-de), n. pl. [NL., < Bi-palium + -idæ.] A family of terrestrial Tricladida, having marginal eyes and the body broadened out to form a semicircular cephalic plate. It includes the genera Bipalium, Perocephalus, and Placocephalus, the members of some of which are very large, reaching a length of from 6 to 18 inches.

Bipalium (bī-pā'li-um), n. [NL., < L. bi-, two-, + (†) pala, a spade.] The typical genus of the family Bipaliudæ. Slimpson, 1857.

biparasitic (bī-para-sit'ik), a. [bi-2+para-sit'lik]

sitic.] Parasitic in or on another parasite. biparental (bi-pā-ren'tal), a. [L. bi-, two, + parens, parent, +-al.] Amphigonic; pertaining to or derived from two parents.

le the source what it may, the existence of this assortative mating most substantially modifies the form of biparental inheritance. Biometrika, Nov., 1903, p. 396.

arate sets of variable values; made up of two continuous, but non-intersecting, curves.

bipectinate, a. 2. In Mollusca, having 2 rows of plates on the ctenidium, or gill, arranged, typically, perpendicularly to the axis, as in Aspidobranchiala and Tectibranchiata. bipennate.

psychology as based upon or approached by way of biology.

bioral (bī-ō'ral), a. [L. bi-, two-, + os (or-), mouth: see \(\overline{o}\)rdal] Having two mouths, as certain polyps during fission.

biorbital (bī-ōr'bi-tal), a. In craniom., of or pertaining to the two orbits.—External biorbital

biorbital (bī-ōr'bi-tal), a. External biorbital

biorbital (bī-ōr'bi-tal), a. In craniom.)

the Mexican iguanoid lizard also runs bipedally.

bipennate, a. 3. In Mollusca, same as *bi-peetinate, 2.

bipenniform (bi-pen'i-form), a. [bi-2 + penniform.] Having the parts arranged along both

in crystals. It consists of a quartz plate, ent parallel to the axis, and of such thickness as to show color when placed between crossed Nicol prisms. The plate is cut through in the direction which bisects its planes of vibration, and one of the halves is reversed so that the color-changea caused by variations in the difference of phase

hetween the two rays traversing the biplate thus formed will be complementary. Such an arrangement is very sensitive to traces of double refraction, to changes of phase, etc.; hence its importance in polariscopic experi-ments.

earth considered as a stratum in contrast with the atmosphere and the lithosphere. Energe.

Brit. XXVIII. 625.

iota¹ (h̄'(ō-tā). n. [NL. < Gr. βιστή, beside certain monactinellid sponge-spicules.

bipocillum (bī-po-sil'um), n.; pl. bipocilla (-lā).
[Nl.: see *bipocillate.] A bipocillate spongespicule.

bipolar, a. 3. In elect., pertaining to an electric machine having two poles.—4. In zoöt., occurring in the north and south polar regions, but not in the intervening tropical ocean. See extract under *hipolarity, 2.—Bipolar staining, in eytol., taking the stain only at the two poles, or staining differently at the two poles; said of cells or cell-atructures.—Bipolar theory of distribution of species, a view advocated by Dr. John Murray, that many identical or closely allied species of marine organisms, both plant and animal, occur around both poles, but are absent from the intervening ocean.

bipolarity, n. 2. In biol., the occurrence of organisms, mostly marine, in both polar areas, but not in the tropies. See discontinuous *distribution.

Bipolarity in the distribution of marine organisms is a fact, however much naturalists may differ as to its extent and the way in which it has originated.

Geog. Jour. (R. G. S.), XI. 419.

biprism, n.—Fresnel's biprism, a prism with two refractive edges, each of small angle, its cross-section being an obtuse-angled isosceles triangle. The whole prism is as if made up of two prisms, hence the name. Used in experiments on the interference of light.

biprotovertebral (bi "prō-tō-ver'tē-bral), a. [bi-2 + protovertebra + -all.] In embryol., comprising or consisting of two protovertebræ or mesoblastic somites. Philos. Trans. Roy. Soc. (London), 1895, p. 214.

bipyramid (bi-pir'a-mid), n. [bi-2 + pyramid.]

See *pyramid.

biquadrantal (bi-kwod-ran'tal), a. [bi-2 + quadrantal.] In spherical trigon., said of a triangle if each of two of its sides is a greatcircle quadrant.

biradial (bi-rā'di-al), a. and n. [L. bi-, two-, + radius, spoke (ray), + -all.] I. a. Having the radii arranged bilaterally, as in sea-anemones and corals.

II. n. In geom., the figure formed by two rays which go out from the same point; an angle.

Birago trestle. See *trestle1.

Biram's *air-meter, *anemometer. See these words.

birational (bi-rash'on-al), a. [bi-2 + rational.] In math., characteristic of a transformation such that each of two sets of variables is expressible rationally by means of the other set. birch, n. 4. In New Zealand, a name of any pressible fationary by means of the other set.

birch, n. 4. In New Zealand, a name of any
one of several species of Nothofagus.—Black
birch (c), Nothofagus fusca, a tree 60 to 90 feet high: so
called from the color of the bark.—Bog birch, the Carolina buckthorn, Rhamnus Caroliniana. [Alinnesota.]—
Cañon-birch, Betula occidentatis, a species inhabiting
mountain eafons in the central and northwestern parts
of the North American Continent—Fragrant birch, a
subspecies (odorata) of the European Betula obla.—
Gray birch, (a) See birch, 1. (b) Same as white *birch
(b)—Indian paper-birch, Betula utilis, a mediumsized tree of Nepal and the higher ranges of the Himalayas. Its bark is the material upon which the ancient Sanskrit manuscripts of northern India are written.
It peels off in large sheets and is used like paper for
wrapping parcels, lining the roofs of houses, for umbrellas, and for many other purposes.—Moor-birch, Betula pubescens.—Old field-birch. Same as white *birch
(b).—Red birch, [Same as black *birch (c): so called from
the color of the wood.—Water-birch. (a) The riverbirch, (a) The European Betula alba. See birch, 1. (b)
The Atlantic coast birch, B. populifolia. (c) The paperor canoe-birch, B. papyrifera. (d) Nothofagus Solandri,
a beautiful evergreen tree 100 feet high: so called from
the color of the bark.

bird¹, n.—Speckled bird, a person of blemished char-

form.] Having the parts arranged along both sides of a median axis or rachis, like the barbs of a feather.

biphase (bī'fāz), a. [bi-2+phase.] In elect., same as *quarterphase.

bird-cage, n. 2. In textile-manuf., a small skeleton creel for holding yarn on a hankbiphasic (bī-fā'zik), a. Of two phases.
biplane, n. 2. A flying- or a gliding-machine in which two principal superposed aëroplane surfaces are depended upon to sustain the machine in the air.

swinding machine.—Bird-cagetwine. See *twine. bird-cherry (bērd'cher-i), n. See cherry!, 1. birdeen (bēr-dēn'), n. [Appar. < bird² + Ir. Gael. dim. -cen(-în), as in colleen, etc.] 'Birdie': a pet name. Frona Maclcod, Mountain Lovers. bird-grasshopper (berd'gras/hop-er), n. Any grasshopper of the genus Schistocerca, which contains large migratory forms, as S. americana, S. peruviana, etc. Science, July 29, 1904, p. 156,

birdlet (berd'let), n. [bird1 + -let.] A little

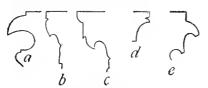
bird; a nestling.

bird-pepper (berd'pep-er) n. See Capsicum.

bird-pox (berd'poks), n. A disease of chickens, biscoyol (bis-kô-yôl'), n. See ★huiscoyol. pigeons, turkeys, etc., characterized by the eruption about the head of yellow nodules varying in size from that of a pinhead to that

of a pea. Also called hen-pox and sorehead.

bird's-beak (berdz'bek), n. In arch., a profile, as of a molding, supposed to resemble the
sharp beak of a bird: used especially for dripmoldings, whether to shed water or to give a sharp-edged dark shadow.



Bird's-beak Moldings.

a, From the Theseion, Athens; b, Temple, Agrigentum (Akragas); c, Farnese Palace, Rome; d, Ely Cathedral; c, Netley Abbey.

Bird's-dung spider. See *spider. bird's-eye. I. n. 1. (d) pl. A Californian wild flower, Gilia tricolor, sometimes carpeting whole slopes. The funnel-shaped corollas are azure or whitish, with purple spots in the throat bounded by bright gold.

II. a.—Bird's-eye grain, a slight roughness or grainy appearance on the grain side of rough leather: contrasted with a smooth grain. Modern Amer. Tanning, p. 171.—Bird's-eye *marble, *porphyry. See the

nouns.

Bird'a-foot fern. See *fern1.—Bird'a-foot atar, a starfish of the asterinoid type; a sea-star.

Bird'a-nest moss. See recurrection-plant (b).—Bird'a-nest pudding. See *pudding.

birds'-nest (berdz'nest), r.i. To search for birds' nests or their eggs: aa to go birds'nestina

bird-vine (berd'vin), n. See the extract.

These plants, called bird-vines (Loranthaceæ), are, tike the stranglers, distributed by birds. The seeds are covered with glutinous pulp, which, when they are dropped by birds, enables them to adhere to the branches of the trees. Here they sprout, and with their young leaves, produce sërial roots, covered with suckers, which run along and insinuate themselves into the cracks of the bark, continually nourishing themselves on the life-blood of their victims.

Simithsonian Rep., 1891, p. 339.

bird-wave (berd'wav), n. In ornith., the audden arrival of birda during the spring or fall migration in such numbers as to make their biscuit-worm (bia'kit-werm), n. The larva of coming noticeable.

birefringence (bi-rē-frin'jens), n. [bi-2 + re-fringence (see refringency).] 1. Double refraction.—2. The strength of the double refraction, that is, the difference between the fbi-2 + retwo indices of refraction for a nniaxial crystal and that between the maximum and minimum indices for a biaxial crystal. See refraction, 1.

biremal (bi-rē'mal), a. [L. bi-, two-, + remus, oar.] Having a dorsal and a ventral parapodium on each aegment, as certain polychætous biserial, a. 2. In the Crinoidea, or encrinites, annelids.

birl², v. t. 2. In lumbering, to cause a floating log to rotate rapidly by treading upon it.

Birmingham gage, platinum. See *gagc2, *platinum.

*platinum.
birmite, n. See *burmite,
Birth palsy. See *palsy.
Birthday card. See *cardl.
birth-opening (berth'ōp"ning), n. In the liverfluke, an opening in the wall of the redia
through which the cercariae escape. See cercaria. Parker and Heevell Toology. 1 221 Parker and Haswell, Zoology, I. 231.

birth-stone (berth'aton), n. A name applied to any precious or semi-precious stone which is imagined, according to a long-cherished apperstition, to protect the wearer from harm, auperstition, to protect the wearer from narm, ill luck, and the evil eye. Lists of "appropriate" birth-stones for different persons to wear are often printed.—Birth-stone jewelry, birth-stones set in a jewel which is made up of the signs of the zodiac, the flower of the month, the fewel of the day, the gem of the geardian angel, and other emblematic devices.

biscalar (bi-akā'jār), n. [bi-2 + scalar.] A complex number, x + iy; the aum of a real number, x and a neomonie number, x 4/-1

number, x, and a neomonic number, $y \sqrt{-1}$. See the extract.

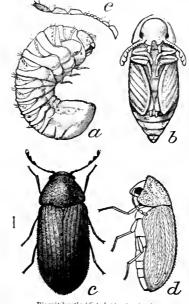
In like manner, an expression of the form (3), or x' =still the manner, and the two real scalars, but $\sqrt{-1}$ is still the ordinary imaginary of algebra, may be said by analogy to be a biscalar. Imaginary roots of algebraic equations are thus, in general, biscalars.

Sir W. Rowan Hamilton, Elem. of Quaternions, p. 219.

Bischoff sance. See *sauce. bischofite (bish'of-it), n. [Named after Dr. K. G. Bischof (1792-1870).] A hydrated magnesium chlorid found in the salt-mines of Leopoldshall, in northern Germany.

biscuit, n.—Biscuit Tortont. Same as ★bisque2.—
Naples biscuit, lady's-fingers.—Partan biscuit, a fine,
unglazed, soft-paste porcelain resembling Carrara marble;
used for objects of art and ornament, and made by the casting process.

biscuit-beetle (bis'kit-bē"tl), n. ous insect, Sitodrepa panicea, of the family



Biscuit-beetle (Sitodrepa panicea).

a, larva; b, pupa; ϵ , adult; d, adult from side; ϵ , antenna. a, b, ϵ , and d, all greatly enlarged; ϵ , still more enlarged. (Chittenden, U. S. D. A.)

Ptinidæ, which feeds on hard biscuits, giving riae to the expression 'weevily biscuit.' It also feeds on stored fruit and drugs, and is frequently so abundant in apothecary shops as to be called the *drug-

biscuit-weevil (bis'kit-wee'vl), n. Same as *biscuit-beeile.

the biscuit-beetle or biscuit-weevil.

biseauté (bē-sō-tā'), n. [F., 'cut obliquely,' pp. of biseauter, to cut obliquely, < biseau, oblique: see bezel.] A playing-eard so trimmed that it can be distinguished by the fingers, and so can be withdrawn from the pack at will: used in conjuring and in cheating.

Bisection of a star, the accurate setting of a reticule wire in a telescope upon the center of a star-image, or the observation of the instant when that center crosses a wire.

noting a double arrangement, in the arms, of interlocking plates beveled toward each other and thickened on the margins of the arms. Contrasted with uniserial.

II. n. In decorative art, a double series in which the elements face toward each other,



Biserial Motive, Mexican.

look away from each other, or alternately look

toward or away from each other, or alternately look toward or away from each other.

bisexual, a. 2. In cthnol., characterized by an equal social development of both sexes.

O. T. Mason, in Pop. Sci. Mo., LIX. 341.

Bishop's circle. Same as Bishop's *ring.—Bishop's gambit, in chess, playing 3 B-OB 4. See gambit.—Bishop'a purpla. See *ringl.—Bishop's ring. See *ringl.—Two bishops' opening. See *ringl.—Two bishops' opening.

bishop's-head (bish'ups-hed), n. An iron easting at the top of the king-post of a balance-bob, to which the iron straps are attached.

bob, to which the iron atraps are attached.

bisiliac (bis-il'i-ak), a. [bis- + E. iliac.] Relating to both iliac bones, especially to their crests.

bisilicic (bī-si-lis'ik), a. In chem., noting metasilicie acid. Il₂SiO₃, viewed as derived bisphenoid (bī-sīē'noid), n. See *sphenoid. bisphenoid (bī-sīē'noid), n. See *sphenoi one in the latter.

bisischiatic (bis-is-ki-at'ik), a. [bis- + ischia

bisischiatic (dis-is-ha-di in), d. [1005-1 teschia-tic.] Relating to both ischia. bisk², bisque³, n. 2. In polf, a stroke allowed a player, which may be taken after a hole is played out and before the next tee-shot is inade.

Biskra, or Biskara, boil. Same as Aleppo

bismal (biz'mgl), u. [bism(uth) + \star -at'.] bluish-gray voluminous powder, consisting of the bismuth salt of methylene-digallic acid, the latter being a condensation-product of formaldehyde and gallie acid ($4C_{15}H_{12}O_{10}$ +

3Bi(OH)₃). It is an internal astringent. **Bismarckian** (biz-mär'ki-an), a. Of or pertaining to Prince Bismarck (1815-98), a famous Prussian statesman, the unifier of the German people and the first chancellor of the German

empire

people and the first chancellor of the German empire.

bismuth, n.—Basic gallate of bismuth. Same as *bismuth. n.—Basic gallate of bismuth. Same as *bismuthum subgallicum.—Bismuth chrysophanate. See *chrysophanate.—Bismuth spiral, in elect., a spiral of bismuth wire, which increases in resistance by a magnetic field and is therefore used to measure magnetic fields.—Bismuth subnitrate, a compound of bismuth, largely used in medicine, and to some extent as a cosmetic. It varies somewhat in composition, but usually consists of bismuth hydroxy-nitrate, Bi(HO)2NO₂—Joachimathal process for the extraction of bismuth. The crushed ore, mixed with 2s per cent. of iron turnings, 15 to 20 per cent. of carbonate of sodium, 5 per cent. of lime, and 5 per cent. of carbonate of sodium, 5 per cent. of lime, and 5 per cent. of thor-spar, is charged into earthen crucibles and fused in a wind-furnace. The fused mass is then ladded into inverted conical iron moids, on the bottom of which the bismuth collects. The metal obtained sometimes contains a certain amount of silver, which may be reduced by cupellation.—Matthey's method of refining bismuth, a method consisting in removing the arsenic by heating impure bismuth to a temperature of 305° C. for a considerable time in the air, so that the arsenic volatilizes without loss of bismuth. The antimony is removed by poling the bismuth, raised to the oxidization-point of antimony, with a piece of wood, and removing the seum which forms on the surface of the bath.—Naphthol bismuth, a basic or normal bismuth salt of β-naphthol, [(CnH₇O)₃Bi] + Bi₂O₃ or (CnH₇O)₃ Bi 311₂O. It is a neutral, non-irritant, light-brown powder of very slight odor. It acts as an Intestinal sedative and antiseptic in diarrhea and dysentery.—Radioactive bismuth, the first substance, separated from the residues of the working of pitchbiende for uranium, in which the phenomena of radio-activity were observed and studied by Mme. Curie. The substance, associated with and chemically similar to bismuth, wh

bismuthate (biz'muth-āt), n. In chem., a salt derived from bismuthic acid.

bismuthose (biz'muth-oa), n. [bismuth + -ose.] An albuminous compound containing 21-22 per cent. of bismuth, prepared by coagulating egg-albumin with a solution of bismuth subnitrate in saline solution.

bismuthum (bis-mū'thum), n. [NL.: see bismuth. Bismuthum aubgallicum, subgallic bisnuth; an amorphons, bright yellow, inodorous and tasteless powder, somewhat variable in composition, obtained by precipitating a solution of bisnuth trinitrate with a solution of gallic acid. It is used as a dry antiseptic in surgery. Also called dermatol, basic gallate of bismuth, and subgallate of bismuth.

bismuthyl (biz'muth-il), n. [bismuth + -yl.] one atom of oxygen. This compound (incapable of separate existence) occurs as a compound radical.

bismutosmaltite (biz "mu-tō-smâl'tīt), n. [bismuth + smaltite.] A skutterudite containing bismuth.

bisnada (bis-nā'dā), n. See *visnaga. bisnaga (bis-nā'gā), n. See *visnaga. bison, n. 4. A name applied by Indian sports-men to the gaur, Bibos (or Gavæus) gaurus, in distinction to 'buffalo,' which is used for Bos buffelus.

bisonance (bi-so'nans), n. [L. bi-, two-, + sonans, sonant: aee sonancy.] In psychol. acoustics, pure dissonance; the intrinsic inability of certain tonal qualities to blend or

Ordinary dissonance is made up of a mixture of beats, or harshness, and pure dissonance. . . This lack of accord in tones, due to the relation of their pure qualities,

may be designated bisonance.
W. Wundt (trans.), Outlines of Psychol., p. 100.

dered macaroons are mixed before freezing.

Called also biscuit Tortoni.—Tomate bisque, strained tomatees into which milk thickened with a little corn-starch is poured after cooking.
bisque³, n. See *bisk².

bisque³, n. See *bisk². bistelic (bī-stel'ik), a.

In bot., having two steles or axial cylinders.

bister, n. - Manganese bister. Same as manganese

bisti (bē'stē), n. [Pers, bīst, twenty.] A Persian copper and silver coin, also current in Georgia, equal to 4 cos.

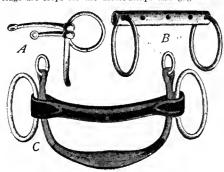
bistratose (bi-strā'tōs), a. Having the cells

disposed in two layers or strata. bisulcated (bi-sul'kā-ted), p. a. Bisulcate.

bisulphite, n.—Bisulphite of lime, the commercial name for calcium sulphite dissolved in water with the aid of sulphirous acid. The solution probably contains calcium acid sulphite, Call₂(SO₂)₂, and is used on a very large scale in the manufacture of paper-pulp from wood, as also in sugar-making and brewing.

calcium acid sulphite, Call₂(SO₂)₂, and is used on a very large scale in the manufacture of paper-pulp from wood, as also in sugar-making and brewing.

bit¹, n. 10. In mining: (a) The eutting edge of a drill for boring rock by hand or by machine drilling. (b) A sharpened steel bar used for drilling rock by hand or by machine. A chiselbit has a simple cutting edge, a cross-bit has two cutting edges crossing cach other at right angles; similarly the X-bit, the L-bit, the horse-shoc-bit, and the crown-bit have cutting edges disposed as indicated by the several names.—Barrel-head bit, a bit having oblong heads on the mouthpiece for the rein-rings.—Bancher bit, a curb-bit with long, straight cheeks and a high port: used in connection with a jointed bridoon.—Bentinek bit, a bit having a long movable port in the mouth, standing above where the port is usually placed.—Buxton bit, a coach-bit with long, curved cheeks and a sliding month-piece which plays up and down upon a short section of the cheek; the lower ends are connected by a bar.—Cambridge bit, a stiff check-bit with a port. The tops of the cheeks have rings for the bridle-straps and loose hooks for the gag-chain; the lower arms have loose rings at the ends, and on each there is a small loop for a strap.—Crescendo bit, a bit with a double or triple monthpiece, jointed or stiff; the rein-rings are attached to the long heads on the monthpiece by branches having pins that enter the heads.—D'Orsay bit, a bit with a buxton monthand check-piece, a ring around the center bar, and solid rings at the ends of the upper and lower check-pieces.—Double month-bit, a bit having two monthpieces which connect with the cheek-pieces, generally with a long and a short section on each, so placed that a short section is near each check.—Duke bit, a bit in which the ends of the check-pieces are shaped like a flattened S.—Greenwood bit, a coach-bit with a segundo mouthpiece which partice which strike the caster-backs, attached to the vertical bars of a stocking-frame.—Leather mo



A, double mouth-bit; B, wind-sucking bit; C, humane round leather mouth-bit.

Mameluke bit, an Oriental bit; it has a large ring jointed on the top of a high-port hunting-bit.—Melton bit, a bit with long, straight cheeks, having loops for the bridle-straps at the top, loose rings at the lower ends, and small side-loops below the mouth. The mouthpiece is a port. The cheeks pass through the ends of the mouthpiece and are loose, but do not slide.—Mexican bit, a bit with solid mouth- and cheek-pieces. The mouthpiece is provided with players, and the cheeks are of the gag variety and ornamental in character. This class of bits includes the California, Texas, and ranch bit, all of which embody the same general principle.—Mullin bit, a double-ring bit with a how mouthpiece. Pelham bit, a bit with a jointed or stiff mouthpiece. The cheek-pieces are long, and have bridle-loops at the tops, rein-rings at the mouth, gag-rein rings at the lower ends, and chinstrap loops above between the rein-rings.—Plereel bit, a small bit commonly used for boring a vent in a harrel or keg. Often called a piercel.—Rolling Buxton bit, a sud slides.—Rubber bit, a bit with a solid metal, chain, or linked mouthpiece, covered with hard or soft india-rubber.—Segundo bit, a bit with a horned port and long eheeks which are solid on the mouthpiece. The reinrings are at the lower ends of the cheeks.—Spiral bit, a form of auger for boring holes in wood in which the steel of the shaft is twisted into a helical ribbon, so as to form a channel or groove between the helices up which the chips may pass as the tool penetrates.—Weymouth bit, a riding-bit with a sliding mouthpiece and one rein-ring.—Whitman bit, a bit invented by Colonel R. E. Whit-

is used to attach the bit to the bridle. It can be attached or released quickly.—Wimble-hit, a bit which has a screw at the point for making it feed. Frequently called a wimble,—Wind-sucking bit, a bit with a perforated tubular mouthpiece, designed for cribbing horses.

bit², n. 8. In ceram., a small piece of stone

man, U. S. A., characterized by a snap-hook which revolves on the outside of the head of the check-piece. The hook is used to attach the bit to the bridle. It can be attached or released quickly.—Wimble-bit, a bit which has a screw at the point for making it feed. Frequently called a wimble,—Wind-sucking bit, a bit with a perforated tubular mouthpiece, designed for cribbing horses.

bit2, n. 8. In ceram., a small piece of stone for separating the pieces of pottery in the kiln: used before the invention of stilts, cockspurs, and triangles. Ware so made was called bit-stone ware.—Crimbal bits, French coins made for the Windward Islands: said to be so called after the person who introduced them into Barbados, hitanhol (hot-tim-holf). n. [Philippine Sp. 6] spars, and triangles. Ware so made was carried bit-stone ware.—Crimbal bits, French coins made for the Windward Islands; said to be so called after the person who introduced them into Barbados. bitanhol (bē-tān-hōl'), n. [Philippine Sp., & Bisaya bitanghol.] Calophyllum Inophyllum, a



Bitanhol (Calophyllum Inophyllum). Branch with Flower-stalk a, lengthwise section of ripe fruit. (After Greshoff.) (From Sadebeck's "Die Kulturgewächse der deutschen Kolonien.")

beautiful feather-veined leaves and tough, durable wood. It yields an aromatic resin and from its seeds a bitter oil is obtained. Also called palo Maria, or St. Mary's wood, and in Guan daog. See tamanu, tacamahac, 1, poonay-oil, and Calophyllum. [Philippine Is.]

bitch, n. 3. pl. A set of three chains for sling-

iug pipes.
bitch-chain (bich'chān), n. A short, heavy chain with hook and ring, used to fasten the lower end of a gin-pole to a sled or car when loading logs. [U. S.]

bitemporal (bī-tem'pō-rai), a. [bi-2 + tem-biunial (bī-ū'ni-al), a. [Irreg. < L. bi-, two-, were long to the unike, p. 270.

Having two hooks.

poral.] In eraniome, of or pertaining to the two temporal bones.—Bitemporal breadth, the maximum distance between the temporal bones.

Bithynis (bi-thī/nis), n. [NL. (Philippi, 1860), < Gr. Βιθννίς, Bithynian, < Βιθννίς, the inhabitants of Bithynia, a district in Asia Minor.] A genus of erustaceans. Same as Palæmon, bitogo (bē-tō'gō), n. [Philippine name.] A name applied in the Philippines to Cycas circinalis. See *fadang and Cycas, I. bitrochanteric (bi"trō-kan-ter'ik), a. [bi-2+

family Tipulidæ, having short wings, banded

genus of eurious mecopterous insects, of very wide distribution and predatory habits, re-

wide distribution and predatory habits, resembling erane-flies in general appearance. They use the hind instead of the front legs for grasping their prey, and their larve live near the surface of the ground and feed upon dead animal matter.

Bitter salts. Same as epsom salts.

bitter-apple (bit-er-ap'1), n. See colocynth.

bitter-bark (bit 'er-bärk), n. 1. An Australian euphorbiaceous tree, Petalostigma quadriloculare, the bark of which contains a powerful bitter principle which is used medicinally. ful bitter principle which is used medicinally. Also ealled emu-apple, crab-tree, and native quince.—2. Either one of two trees of the dogbane family, Tabernæmontana orientalis and Pala constricta (Alstonia constricta of F. von Müller), the barks of which are also used in medicine. The latter is better known as feverbark. See also Alstonia bark, under bark2.

bitter-buttons (bit-er-but'nz), n. The tansy, Tanacetum vulgare.

Bitter-rot of apple. See anthracouse of apple, under *anthracouse.—Bitter-rot of grape, a disease of grapes caused by Melanconium fuligineum.

purposes.

Bittium (bit'i-um), n. [NL., appar. < Gr. Βίττιον, a womau's name.] A genus of gastro-Birrow, a womau's name.] A genus of gastro-ped mollusks belonging to the family Cerithi-idæ, having high-turreted spiral shells with granulated spiral ribs. It is eommon in Ju-rassie, Cretaeeous, and Tertiary rocks, and

also exists in the present seas.

bitty (bit'i), n. Refuse left after the starch
has been removed from such plants as arrow-

nas been removed from such plants as arrowroot, eassava, etc. [West Indies.]
bitubercular (bī-tū-bėr'kū-lär), a. Having
two tubercles, as a tooth. W. Bateson, Study
of Variation, p. 217.
bituminoid (bi-tū'mi-noid), a. [bitumen(-min-)
+-oid.] Bitumen-like; having the general charaeter of bitumen.
bitvnic (bī-tin/ib) a. Thi 2 + tooth in 2.

bitypic (bī-tip'ik), a. [bi-2 + type + -ic.] Consisting of two types only; said of a genus containing but two species. Compare monotypic.

He found that many of the characteristic genera of eastern America, and a number of the monotypic and bitypic genera, occur also in the Japanese region.

L. H. Bailey, Survival of the Unlike, p. 270.

Having two heoks. biunial (bī-ū'ni-al), a. [Irreg. \langle L. bi-, two-, +-unus, one, +-i-al.] Having or consisting of two combined in one; as, the biunial magic lantern. N. E. D.

biuniform (bī-ū'ni-fôrm), a. [bi-2 + uniform.] In math., one-to-one.

This results from the definition which Hilbert gives of This results from the definition which Hilbert gives of movement. To be a movement, a transformation must satisfy many conditions; first it must be continuous and transform two points infinitely near into two points infinitely near; then it must be bianiform, that is to say, that every point of the plane must have one transformé and only one, and be the transformé of one point and of only one.

Science, Sept. 16, 1994, p. 360.

family Tipulidae, having short wings, banded legs, and swollen feet. The larve are subaquatic and bear a long anal respiratory tube with two spiracles at the end. The respiratory tube of the pupa projects from the opposite end of the body.

Bittacus (bit'a-kus), n. [NL. (Latreille, 1804). 4 Gr. βιττακος, var. of ψιττακος, a parrot.] A genus of eurious mecopterous insects, of very

added to a solution of a protein.

Bivalence of the chromosomes, in cytol., the double as distinguished from the single (univalent) condition of the chromosomes, for example, in the occytes and spermatecytes of one of the forms of Ascaris megalocephala.

bivalent, a. 2. In cytol., having double as distinguished from single (univalent) chromosomes in the occytes and spermatocytes, as in one of the varieties of the roundworm of

in one of the varieties of the roundworm of the horse (Ascaris megalocephala).

bivariant (bī-vā'ri-ant), a. [bi-2 + variant.]

In phys. chem., having two degrees of freedom.

See degree of freedom.—Bivariant system, a thermodynamic system in which two of the magnitudes which determine it may be made to vary independently without destroying the system by altering the number of phases of which it consists. If we place one pound of pure water and one pound of dry carbon dioxid in a cylinder provided with an air-tight piston, we shall have two phases present, one a solution of carbon dioxid in liquid water, and the other a mixture of gaseous carbon dioxid with water vapor. The composition of these two phases will be determined by the temperature and the pressure, and we can within limits vary each without regard to the

other and yet have the two phases still existing. The system is bivariant. If, however, we raise the temperature till all the water evaporates, or increase the pressure till all the carbon dioxid is dissolved, one phase disappears, and the system becomes monovariant.

bivocal (bī-vō'kal), n. [L. bi-, two-, + vocalis, a vowel.] A evalition or union of two vowels pronounced in one syllable; a diplithong: as

ai in 'rain,' oi in 'noise,' ete.

bivoltin (bi-vol'tin), n. [F. *bivoltin, \langle L. bi-,
two, + volte, a turn, revolution (see volti),
volta), + E. -in¹.] A race of domestic silkworms that have two generations each year.

biweekly, a. and adv. III, n. A periodical issued once every two weeks; a fortnightly

publication.

Bixa (bik'sā), n. [NL. (Linnæus, 1753, first used by him in his 'Genera plantarum,' 1737), \(\(\begin{align*} bixa, a \) Spanish spelling of \(bicha, \) bischa, the name of the plant among the Arawak Indians name of the plant among the Mawak indicate of Guiana.] A genus of dieotyledonous trees constituting the family Biraceæ. It is characterized by its large cordate-ovate entire leaves, showy pinkish flowers in terminal panicles, and prickly capsules. The only species, B. Orellana, is a native of tropical America, but has been introduced in the tropics of the Old World. See achiote and arnotto

bixaceous (bik-sā'shius), a. Belonging to the

plant family Bixaeeæ.

bixbyite (biks'bi-it), n. [Named after Maynard Bixby of Salt Lake City.] A rare manganate of iron (essentially FeMnO₃), occurring the block or white controls with building the controls of the control of the control of the controls of the control of the ring in black cubic crystals with brilliant metallic luster. It is related to perovskite, and occurs in rhyolite in southern Utah.

bixein (bik'sē-in), n. Same as bixin. **bizet** (bi-zet'), n. [Thought to be an arbitrary or mistaken form of bizel, bezel: see bezel.] The upper part of a brilliant between the table and the girdle in a full brilliant having 32 facets, and supposed to occupy one third of the depth of the gem.

biznaga (bēth-nä'gä), n. [Sp. biznaga.] See

bizug (bi-zög'), n. A Syrian lute.

The smallest distance observed between frets is the bove-cited 14 mm., except that the Syrian lute, bizug above-cited 14 mm., except that the Syrian lute, bizug (No. 95,144, U. S. N. M.), has two spaces of 12 and 13 mm. Smithsonian Rep., 1900, p. 434.

bizz (biz), n. A dialectal (Scotch) variant of buzz1.

bkr. An abbreviation of barkometer.
B. L. An abbreviation (e) of Bachelor of Letters or of Literature; (d) milit., of breech-

B. L. A. An abbreviation of Backelor of Lib-

eral Arts. Same as B. A. (a).

blaazop (bläz'op), n. [Cape Duteh, \(\begin{array}{c} blaaz \cdot op\) (inf. opblazen), blazen, blow (see blaze', bleeze'), \(+ op\), up: see up.] A South African insect of the genus Pneumora, family Aeridiidæ, which is said to inflate its abdomen and to make a tremulous noise at night. Kirby and Spence,

Entomology, p. 495.

Blabera (blab'e-ri), n. [NL. (Serville, 1831), ⟨Gr. βλαβερός, hurtful', pernicious, ⟨βλαβη, hurt, harm, injury, ⟨βλάπτευ, hurt, injure.] A genus of very large tropical and subtropical cockroaches of the orthopterous family Blat-tidæ. They are known in the West Indies as drummers and are supposed to make a noise at

Blaberides (bla-ber'i-dez), n. pl. [NL., < Blabera + ides, taken as a plural suffix.] A tribe of cockroaches of which Blabera is the type. They have the thighs unarmed beneath, no pad between the claws, the pronotum smooth, and the wings with a fan-like folded anal field.

black. I. a. 10. Dark-complexioned.

How if she be Blacke and Witty?
Shak., Othello, ii. 1.

Took up Mr. Hater and his wife. . . . I found her to be a very pretty, modest, black woman.

Pepys, Diary, April 30, 1661.

Pepps, Diary, April 30, 1661.

Black *angel, *ant, *beech. See these words. Black belt. (b) Same as *cane-brake region.—Black body, in phys., a body which completely absorbs the radiation failing upon it, reflecting none and transmitting nene. No actual known substance rigorously fulfils this definition, and the black body thus specified is therefore commonly termed the ideal black body. See *radiation.—Black *Cancasian, *drop, *fern. See the nouns.—Black *Cancasian, *drop, *fern. See the nouns.—Black-figured style, See *style!.—Black hand. (b) A criminal conspiracy among certain Italian immigrants in the United States for the purpose of blackmall and deeds of violence.—Black house, See *house!.—Black hand, in the Justralian hist, the line of about 5,000 armed men which in 1830, by order of the governor, swept across Tasmania from north to southeast in the attempt to drive the aboriginal tribes into that part of the Island known Assuming from north to southeast in the attempt to drive the aboriginal tribles into that part of the island known as Tasman Peninsula. See *black war.—Black lung.

See *lung.—Black mark, a mark indicating failure, offense, or demerit.—Black money. See *money.—Black pool. See *pool.—Black pool. See *pool...

Black rot. (b) A black appearance on hides, caused by the application of hot liquor to green stock. C. T. Duris, Manuf. of Leather, p. 183.—Black salt. See *salt.—Black Thursday, in Australian hist., Thursday, February 6, 1851, remarkable for a great heat-wave (112° F. in the shade) and a disastrons hush-fire which affected the whole colony of Victoria. Strutt's celebrated painting, 'Black Thursday,' commemorates the event.—Blacktracker, a member of a special force of aboriginal Australian police, skilled in following traits and employed in running, down criminals.—Black War, in Australian hist, a bloodless military expedition undertaken in 1830 by the governor of Tasmania for the purpose of driving the troublesome aboriginal tribes into Tasman Peninsula. Only two natives were captured. See *blackline.—Black Will.

II. n. 13. In archery: (a) The fourth and next to the outermost eircle of the target, which is colored black. See target. (b) arrow which hits this circle; a hit in the black. According to the present method of scoring such a hit counts 3.—14, pl. Black or coaly shale. Barrowman, Glossary. [Scotch.]—15, pl. The larvæ of the black *caterpillar (which see).—Alizarin black, a mordant dyestuff, derived from anthracene, which dyes chrominm-mordanted wool a very fast black. It is a trihydroxyanthraquinone quinoline.—Alizarin-cyanine black, a mordant coal-tar color similar in character to alizarin cyanine. It produces blue-black shades with a chromium mordant.—Almond black, a black pigment prepared by carbomizing almond- and cocoanut-shells.—Antline black. It is an insoluble substance produced by the oxidation of smiline, usually in the form of antiline sait. Its chemical composition is unknown. There are three stages in the oxidation of antiline sait. The color is always made as used, the formation of emeraldine or azurine, (2) the oxidation of eneraldine to nigraniline, and (3) the oxidation of the nigraniline to the so-cadled ungreenable black which is the color desired. The color is always made as used, the formation of the black taking place within and upon the fiber during the lyeing process. It is largely used in calico-printing and in hosiery-dyeing, and whenever an extra-fast black is desired. It is commonly applied to cotton, but processes have been devised by which it may be applied to cotton-and-wool unlon goods.—Anthracite black, an acid coal-tar color of the sulphonated azo type, derived from a naphthylamine. It dyes wool black in an acid bath. Also called phenylene black. Anthracyluinone black, a sulphid coal-tar color made by fusing dinitro-anthraquinone with sodium polysulphid. It dyes unmordanted cotton black, and possesses the common properties of the sulphid colors.—Auronal black, a sulphid coal-tar color made by fusing dinitro-anthraquinone with sodium polysulphid. It dyes unmordanted cotton black, and possesses the common properties of the sulphid colors.—Auronal black, a sulphid coal-tar color of myolysulphid with the product formed by the condensation of antido-bydroxy-diphenylamine with the product of the section of sulphur chlorid upon phenol, cresol, or anines. It dyes cotton black, and possesses the common properties of the sul (which see).—Alizarin black, a mordant dyestuff, derived from anthracene, which dyes chromium-mordanted wool a very fast black. It is a trihydroxyanthraunmordanted cotton black in a neutral salt bath.— Cross-dye black, a coal-tar color of the sulphid type, used in dyeing cotton warps. It gives a deep blue-black. Also called cross-dye name.—Cuba black. Same as diamid *black.—Dead black, a preparation of lampblack for painting brass and white metals.—Diamine beta-black, a direct cotton coal-tar color of the triazo type derived from benzidine. It dyes unmordanted cotton in a salt bath a black which, upon being diazotized and developed with \$\beta\$-naphthol, becomes much faster.—Diamine black, the name of several direct cotton coal-tar colors, related to benzidine, which dye unmordanted cotton black in a salt bath.—Diamineral black B. 3B. 6B. and B. direct. salt bath.—Diamineral black B, 3B, 6B, and R, direct cotton coal-tar colors. They dye unmordanted cotton black in a salt bath, but for the best results they should be after-treated with potassium bichromate or copper sulblack in a sait bath, but for the best results they should be after-treated with potassium bichromate or copper sulphate.—Dianii black, a direct cotton coal-tar color of the tetrakisazo type derived from benzidine. It dyes unmordanted cotton in an alkaline sait bath. Also called Cuba black.—Diazin black, a basic coal-tar color of the monoazo type derived from safranine. It dyes tannin-mordanted yarn black of a good degree of fastness.—Diazo black, a direct cotton coal-tar color of the diazo type derived from benzidine. It dyes unmordanted cotton in a sait bath, but for the best results requires subsequent diazotizing and developing.—Diazo brilliant black, a direct cotton coal-tar color of the diazo type derived from tolidine. It dyes unmordanted cotton in a sait bath, but for the hest results it requires a subsequent diazotizing and developing.—Direct black. (a) Sane as one-dip *black. (b) Any direct cotton black.—Fast black, a basic coal-tar color of the oxazin type, but of uncertain composition. It dyes cotton mordanted with tannin and iron a very fast black.—Fast black B and BS, two sulphid coal-tar colors prepared by the action of sodium sulphid upon dinitronaphthalene. They dye unmordanted cotton from an alkaline bath.—Galena black,

blackberry

a black pigment made from native lead sulphid.—Graphite black, a black pigment consisting of powdered graphite.—Immedial black, a coal-tar color of the sulphid type, similar to Vidal black. Its composition is naknown. It dyes unmordanted cotton a very last black in a sodium-sulphid bath.—Kumassi black, an acid coal-tar color of the diazo type derived from diamido-maphthalenessulphonic acid. It dyes wool a deep black in an acid bath.—Kumassi union black, a coal-tar color of the triazo type, derived from diamido-maphthalenessulphonic acid. It is particularly well suited for the dyeing of cotton-and-wool union material.—Kumassi wool black in an acid bath.—Liège black, a black pigment obtained by carbonizing vine-twigs. It consists of a pure form of clarcoal. Also called blac-black.—Naphthol black, an acid dyestuff of the sulphonated azo type, derived from maphthalene. There are several naphthol blacks which vary slightly in composition, although they are all of the same general character.—Naphthol black B, 3B, and 6B, acid coal-tar colors of the diazo type containing three naphthalene nuclei. They dye wool black in an acid bath.—Naphthol black 12B. Same as naphthol *blackbuck.—Naphthylamine black, an acid coal-tar color of the diazo type. It dyes wool abue-black in an acid bath.—Naphthylamine black, an acid coal-tar color of the diazo type. It dyes wool a blue-black in an acid bath.—Naphthylamine of the diazo type. It dyes unmordanted cotton in a salt bath, and is also well suited for wool-dyeing.—One-dip black, a logwood black dyed in a single bath, the nordant and dyestuff being applied simultaneously. The mordant first unites with the logwood to form a color-lake gradually deposits upon the liber.—Orantic black and acid, usually dyestiff being applied simultaneously. The mordant first unites with the logwood to form a color-lake gradually deposits upon the liber. blackberry similtaneously. The mortant first unites with the log-wood to form a color-lake which dissolves and is held in solution by some acid, usually oxalic. From such a solution the color-lake gradually deposits upon the fiber.—

Oxamine black, a name applied to several direct cotton coal-tar colors which dye unmordanted cotton black in a salt bath.—Oxidation black, a name by which aniline black is sometimes designated, from the fact that it is produced by the oxidation of aniline.—Oxydiamine black, a name applied to several direct cotton coal-tar colors which dye unmordanted cotton black in a salt bath.—Palatine black, one of the wool blacks.—Phenylene black. Same as authracite *\phiblack.</code>—Prudhomme's black, a name sometimes given to aniline black when produced by using potassium ferrocyanide.—Reduced black, a prepared mixture for the production of a one-dip logwood black which has been subjected to a reducing action.—Salzburg vitrol is used in its production.—Salzburg vitrol is used in its production.—Singlebath black. Same as one-dip *\phiblack.—Spear-marked black, a geometrid moth, fiheumaptera hastata, common in Europe and the northern United States, black in color and striped and spotted with white. One white spot and

black, a geometrid moth, Rheumaptera hastata, common in Europe and the northern United States, black in color and striped and spotted with white. One white spot and land somewhat resemble a spear-head, hence the name. Its larve are gregarious and feed upon birch and sweetgale.—Sulphone black, a mordant acid coal-tar color similar to diamond black, a mordant acid coal-tar color similar to diamond black, a mordant acid coal-tar color similar to diamond black, a direct cotton coal-tar color of unpublished constitution, which dyes unmordanted cotton from a salt bath.—Union black, a name given to several direct cotton coal-tar colors which are particularly well suited for dyeing cotton-and-wood union goods black.—Victoria black, an acid coal-tar color of the diazo type. It dyes wool black in an acid bath.—Vidal black, a sulphid coal-tar color, prepared by the fusion of amido-phenol and other compounds with sodium polysulphid: one of the earliest sulphid colors. It was discovered in 1893 and named after its discoverer. It dyes unmordanted cotton a very fast black.—Whitestriped black, an American geometrid moth, Euchaeca alborittata, black in color, with a broad white band extending across the fore-wing.—Wool black, a name assigned to several acid colors of the diazo type which dye wool black in an acid bath.—Zambesi black, a direct cotton coal-tar color, which dyes unmordanted cotton in a salt bath, but is rendered faster by subsequent diazotzing and developing.

and developing. black-and-tan (blak-and-tan'), n. A cab of the coupé type, introduced in New York in 1883: so named from its colors. [Colloq.]

Black-ash furnace. See *furnace.

blackback, n. 3. The Menomonee whitefish, Coregonus quadrilateralis. [Lake Michigan.] blackball, n. 4. Same as black ash.

blackball, n. 4. Same as black ash.

blackberry, n., 1. In North America the term blackberry is applied to those edible-fruited members of the genus Rubus in which the drupelets and torus ('core') adhere into one mass and in this form separate from the plant. The blackberry is now more extensively cultivated in the United States than elsewhere in the world. These fruits are the ameliorated products of native species, and the evolution has taken place within about half a century. The species of blackberry are much confused, but as now understood the forms cultivated for their fruit have been derived chiefly from Rubus nigrobaccus, the common wild blackberry. Some have come from R. are gutus, and a very few from R. cuneifolius. The dewberries (R. villosus of Aiton) and R. invisus. A few blackberries are hybrids between blackberries and dewberries. The blackberries are of very easy culture. If the ground is fertile and the plants free from disease, the crop is very heavy; and as this crop matures in midstand summer, it is important that the soil he retentive of moisture. As in related plants, the fruit arises from canes that grew the previous year, and these canes usually bear but once and never more than one good crop; therefore the old canes are wholly removed after they have borne, and the growing canes take their places. This removal of the old canes not only conserves the energy of the plant and removes objectionable brush, but also serves to keep disease in check. The chief diseases are the anthracnose and the red rust. The former canes discolorations and spots on the canes. It can be kept in check to some extent by thorough and repeated spraying with Bordeaux mixture; but the best procedure is to keep to out by timely removal of affected canes and by changing the patch to a new area every few years. The red rust, yellow rust, or yellows is due to a fungus that affects the entire plant, but fruits on the under side of the leaves and is therefore often mistaken for a foliage

disease. The only remedy is to aproof the plant and burn it. The varieties of blackberry are many, and new kinds are constantly taking the place of the old. Probably the species of arrow-wood, Viburnum pranifolium or V. rufotomentosum.—2. One of two shrubs smaller and less valuable tree than the best in quality.—Blackberry bark-louse, *canebest in quality.—Blackberry Santhasa words.

black-haw (blak'hâ"), n. 1. Either of two species of arrow-wood, Viburnum pranifolium or V. rufotomentosum.—2. One of two shrubs or small trees, Bunclia lanuginosa and B. disease. The only remedy is to uproot the plant and burn it. The varieties of blackberry are many, and new kinds are constantly taking the place of the old. Probably the Snyder is now the most wide-spread, although not the best in quality.—Blackberry bark-louse, *caneborer, *crown-borer, *root-borer. See these words.—Blackberry blight, a disease of blackberry cames and leaves, thought to be due to bacteria.—Blackberry-gall-maker. See *jull-maker.—Pithy blackberry-gall, a large woody growth on the stems of the blackberry-polythalamous in character and produced by the cynipid Diostrophus nebulous.

blackbird, n. 5. A native of the islands of Torres Strait. [Australia.]—Brewer's blackbird, Scoleenphanns cyanocephalus, a member of the oriole fam-ily common in the western United States.

blackbirder (blak'ber-der), n. A slaver; a slave-ship. [Cant.] blackbirding (blak'ber-ding), n. and a. I. n.

II. a. Engaged in the kidnapping of negroes or Polynesians to be sold as slaves: as, a black-led, n. and v. A simplified spelling of

or Polynesians to be sold as slaves: as, a black-blue crew.

black-blue (blak'blö"), n. A blue so dark that it is nearly black. Similar to blue-black.

Azo black-blue, a direct cotton coal-tar color of the diazo-sulphonie-acid type, prepared by combining diazo-nary-blue. It dyes unmordanted cotton from a boiling salt bath.—Benzo black-blue, a name given to several similar direct cotton coal-tar colors of the trisazo type, derived from benzidine or tolidine. They dye unmordanted cotton black-blue, a direct cotton coal-tar colors of the trisazo type, derived from benzidine, which dyes unmordanted cotton a black-blue shade from an alkaline salt bath.

Diamine black-blue, a direct cotton coal-tar colors of the trisazo type, derived from benzidine, which dyes unmordanted cotton a black-blue shade from an alkaline salt bath.

Diamine black-blue, a direct cotton coal-tar colors of the trisazo type, derived from benzidine, which dyes unmordanted cotton a black-blue shade from an alkaline salt bath.

Diamine black-blue, a direct cotton coal-tar colors of the trisazo type, derived from benzidine, which dyes unmordanted cotton a black-blue shade from an alkaline salt bath.

Diamine black-blue, a direct cotton coal-tar colors of the trisazo type, derived from benzidine, which dyes unmordanted cotton a black-blue shade from an alkaline salt bath.

Diamine black-blue, a direct cotton coal-tar colors of the trisazo type, derived from benzidine, which dyes unmordanted cotton a black-blue shade from an alkaline salt bath.

Black-lead.

black-lead.

black-lead.

black-lead.

black-lead.

black-le

black-brown (blak'broun"), n. A brown so dark that it is nearly black.—Benzo black-brown, a direct ection coal-tar eclor of unpublished constitution, which dyes a black-brown from a salt bath.—Katigen black-brown, a sulphid eclor similar to *cachou de

black-buck (blak'buk), n. A sportsman's name for the Indian antelope, Antilope cervi-See cut under sasin.

Black-bulb thermometer. See solar-radiation thermometer, under thermometer. blackbutt (blak'but), n. A valuable timbertree, Eucalyptus pilularis, of southeastern tree, Eucatyptus pilularis, of southeastern Australia. It is straight in the grain, moderately heavy, light reddish brown in color (though the lower part of the trunk is black), and is adapted for bent work. It is found to thrive in California near the coast. Its wood is of general excellence for house- and ship-building, etc., and on account of branching high is specially available for telegraph-poles. Also called flintwood, willow, white-top, and mountain-ash.

black-chaser (blak'chā/ser), n.

blacken, r.t. 3. In founding, to coat (the face lines on a white ground. of a mold) with graphite, or any mixture black-printing (blak'prin"ting), n. In ceram. of a mold) with graphite, or any mixture used for the purpose, in order to create a surface which will gasify under the heat of the molten metal. The thin film of gas so produced prevents any impression of the grain of the mold-surface being made and gives a smooth finish.

black-ends (blak'endz), n. pl. Refuse coke from cooking-evens

from cooking-ovens.

blackeyed Susan (blak-id sū'zn). One several plants having flowers or heads with a

several plants having flowers or heads with a dark center. One of these is Flemingia alata (see Thunbergia); another the flower-of-an-honr, Hibiscus Trionum; a third, Rudbeckia hirta (see Rudbeckia).

blackfellow (blak'fel*\(^0\)), n. An aboriginal Anstralian. [Colloq. E. among the eolonists.]

Black-fin snapper. See \(^*\supersigma\) superpril.

blackfish, n., 1. (g) In Australia: (1) A seafish, Incisidens simplex. (2) A sea-fish, Gircella trieuspidata. (3) A fresh-water fish, Gadopsis marmoratus.—Bleckfish dl. See \(^*\sigma\) formt black marmoratus.—Bleckfish dl. See \(^*\sigma\) formt black black-stick (blak'stik), n. A black marmoratus.—Blackfish oil. See *oil. Grunt black-fish, the black grunt (Ronco Prieto), Hæmulon bonariense, a fish of the West Indies and southward.

black-fly, n.—Innoxious black-fly, a dipterous insect, Simulium pictipes, of the family Simuliides, which in central New York does not appear to bite.

blackcard n. a and v. A simplified spelling.

blackgard, n., a., and v. A simplified spelling of blackquard.

black-grouse (blak'grous), n. The European

blackcock (which see).

black-gum, n. 2. The water-tupelo, Nyssa biftora, a tree inhabiting wet ground along the biplora, a tree inhabiting wet ground along the Atlantie and Gulf coasts. In the Dismal Swamp (southeast Virginia) it dominates areas of decidious forest called black-jum or (on account of density) durk swamp. See **gum neump. These areas when cleared form black-jum land, a type highly adapted to the cultivation of Indian eorn. Compare jumiper swamp, under **Jumiper.**

3. Eucalyptus stellulata.

tenax, of the southern United States.

blackhead, n. 3. In entom., the larva of an Blackwood series. See *series. American tortricid moth, Endemis vacciniana, which feeds on the leaves of the eranberry, Also called fire-worm. - 4. A common name for eomedo. See comedo.

Blackheath beds. See *bed1.

black-hot (blak'hot), a. Hot but not glowing; less hot than red-hot.

A slaver; a Blackiston's trout. See *trout. black-jack, n. 10. Candy made of dark

The kidnapping of negroes or Polynesians to be sold into slavery.

In the early days of sugar-planting [in Queensland] there may have been blackbirding, but it was confined to a very few, and it is done away with altogether now.

Gilbert Parker, Round the Compass in Australia, p. 78.

If a Engaged in the kidnapping of negroes.

The Herald Building cannot be in the least degree affected by the Quixotic enterprise of the lobbyists and blackmailers of the Arcade Railroad.

New York Herald, April 24, 1868, p. 6.

blackmark (blak'märk), v. t. To put a black mark against the name of (some one).

Ostracise and black mark all who do not come into their

confederacy.

D. Masson, Drummond of Hawthornden, xiii. black-meat (blak'mēt), n. Mollusks of the genus Rissoa in the larval, or veliger, stage, occurring in masses on the surface of the sea, and furnishing food for mackerel, herring, and other fishes

blackneck (blak'nek), n. Either one of the seaup-ducks, Aythya marila nearctica and A. affinis, which have the head and upper part of the neck black. More commonly called broadbill or bluebill.

blackpoll (blak'pol), n. The black-poll warblack-dog, n. 3. A general name for the debased and counterfeit subsidiary coinage current in the British West Indies.

1 In founding, to coat (the face lines on a white ground.

1 In founding, to coat (the face lines on a white ground.

the process of printing on pottery in black over

the glaze; it antedates blue-printing.

Black-process paper. See *paper.

Black River limestone. See *limestone.

black-rust (blak'rust), n. See rust!

black-saddler (blak'sad'ler), n. A maker of gig-saddles. [Eng.] black-shank (blak'shangk), n. Same as black

*rot of the sweet potato.
blacksmith (blak'smith), v. i. To follow the trade of a blacksmith; work as a blacksmith.

You have made me work very hard at this wild-goose chase, digging, and tramping, and blacksmithing, and you got me into a scrape that might have cost me my life.

M. N. Murfree, Despot of Broomsedge Cove, xx.

black-stick (blak'stik), n. A blackish, resinous mass, sometimes molded into sticks, which eonsists of a mixture of impure alkaloids separated from the mother-liquors in the mannfacture of quinine. It is used as a substitute for quinine. Also known as chinoidine and quinoidine.

black-stone (blak'ston), n. A carbonaceous shale.

black-stripe, n. 2. A disease of the tomatoplant eaused by the fungus Alternaria Solani.

solani.

auang and acopon.

Blaes and acopon.

Blae crusher, shale with embedded nodules of iron ore. Barrowman, Glossary.

Blair process. See *process.

Blake crusher.

See *crusher. black-stripe, n. 2. A disease of the tomato-plant eaused by the fungus Alternaria Solani. Blacksville limestone. See *limestone. black-tooth (blak'töth), n. A condition of

hogs in which the teeth are black from accu-

blacktree (blak'trē), n. Same as blackwood, 3.

DIACK-WAINUU (DIAK-WAI NUL), n. Dee wanut.—California black-wainut, Juglans Californica, a smaller and less valuable tree than the black-walnut of the eastern United States, found on the Pacific slope and ranging into Arizona, New Mexico, and Sonora. See walnut.

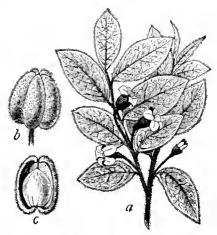
Black-water fever. See ★fever1.

bladder, n., 4. (c) A membranous inflated fruit, as that of Kælreuteria or the pericarp of Physalis.—Bladder fever, acute cystits; also pempligus.—Fasciculated bladder, a condition associated with obstruction to the flow of urine, in which the hypertrophica muscular coat of the bladder forms ridges or columns on the inner surface of the organ.—Stammering bladder. See stammer, v.

bladder-fish (blad'er-fish), n. Same as globefish and puffer, 3.

bladder-lard (blad'ér-lärd), n. 1. Lard put up for sale in bladders.—2. A trade-name for lard of the best quality from the kidney fat of the animal.

bladder-nut, n.—African bladder-nut, a small



Bladder-nut (Rovena Incida).

a, flowering branch; b, fruit; c, longitudinal section of a fruit, (Drawn from Engler and Prantl's "Pflanzenfamilien.")

South African tree of the ebony family, Royena lucida, or its fruit. Its wood is much used. Also called African snowdrop. See Royena.

bladder-plum (blad'er-plum), n. Same as *plum-pocket.

bladder-sedge (blad'er-sej), n. A species of sedge, Carex vesicaria of the temperate Old World, having the perigynia (seed-cases) much inflated. In its dried state this sedge was worn, on Nansen's polar expedition, inside boots and shoes, to keep the feet warm and dry.

bladder-seed (blad'er-sed), n. See Physosper-

mum.

bladder-worm, n.—Gid bladder-worm, a cestode worm Cænurus cerebralis, whose larval stage is passed in the brain of the sheep, ox, and other grazing animals, in which it causes gid, turnsiek, or staggers. If eaten by a dog the larva develops into a tapeworm, Tænia cænurus, which produces numerous eggs. These, if scattered about a farm or along roadsides, may in turn infect grazing animals. See gid!.—Thin-necked bladder-worm, a cestode worm whose larval stage, Cysticercus tenuicollis, occurs in the omentum of grazing animals and sometimes eauses their death. In the alimentary canal of the dog the larva develops into a tapeworm, Tænia marginata, whose eggs, if swallowed, may infect such animals as naturally harbor the larval stage.

blade n... 3 (k) That part of an iron head of a

blade, n., 3. (k) That part of an iron head of a golf-club which forms the face or striking-surface. (l) The broad part of a cricket-bat. 4. A swords-man.

The short man 1 felt quite confident Hugh could handle, and was surprised, seeing his bulld, that Pike should have declared him a good blade. S. Weir Mitchell, Hugh Wynne, I. 214.

blady-grass (bla'di-gras), n. The alang-alang grass, Imperata arundinacca: so named apparently from the abundance of leaf-blades. It is common throughout the warmer parts of the globe and is recommended as a binder of soil and and. See *alang-alang and *cogon.

Blakiston's line. See *line1.

blanch1, n., 3. (b) Lead ore mixed with other minerals.

hogs in which the teeth are black from accumulation of tartar. The condition produces no ill effect upon the health of the animal, and is not, as is commonly supposed, a disease.

blacktree (blak'trē), n. Same as blackwood, 3.

Blanco group. See *group1.

Blanjulidæ (blan-jö'li-dē), n. pl. [NL., < Blan-julus + -idæ.] A family of chilognath myria-pods having a thin cylindrical body with more than 30 rings, and either with no eyes or with a simple row of eyes beneath the edge of the forehead.

Blanjulus (blan'jö-lus), n. [NL. (Gervais, 1837).] Agenus of blind chilognath myriapods,

typical of the family Blanjulidæ.

blank. I. a .- Blank wall, a flat wall without openings; a dead wall.

II. n. 12. An opening in a forest where from any cause very few or no trees are growing.

—In blank, with parts left blank, to be filled in later by another band: as, to sign a check in blank, v. t. 5. To leave (a card) so that it must

be played when the snit is led.—To blank out, in printing, to extend the length of (a short page) by insertion of leads, lines of quadrats, or low furniture.

insertion of leads, lines of quadrats, or low furniture. blanket. I. n.—Army blanket, a coarse, extra strong wool blanket of a gray-brown color, napped on both sides, 60 by 90 inches in size, and weighing 9 pounds a pair.—Mattress blanket, a blanket of a cottony character, with a nap on both sides, though the face shows a distinct wave, produced in the finishing process. The size varies from 60 by 70 to 60 by 74 inches, and the weight from 5 to 60 pounds a pair.—Navy blanket, a heavy white blanket of wool, napped on both sides, 60 by 72 inches in size, and weighing 10 pounds a pair.—Spanish blanket, a showy wool blanket, with a white body and stripes of atrong, contrasting colors, from 7 to 10 inches in width, running from list to list through the entire blanket.

II. a. That covers, or is intended (like a blanket) to cover, many different but more or

blanket) to cover, many different but more or less closely related things, conditions, contingencies, requirements, or the like; as a blanket-mortgage; a blanket-clause in a deed

or resolution.

No such objection can be urged against such use of the word "art," as its significance in this connection has long... become conventioual.... Therefore I have long been in favor of what has been called a blanket degree.

Science, May 27, 1904, p. 8ts.

blanket, $v.\ t.$ —To blanket the fire (of a ship), to interpose between the firing vessel and the vessel aimed at so as to screen the latter.

blanket-ballot (blang'ket-bal'ot), n. See

blanket-cattle (blang'ket-kat"l). The Dutch belted cattle (which see, under *cattle). blanket-flower (blang'ket-flour), n. A plant

of the genus Gaillardia. blanket-moss (blang'ket-môs), n. A local name for the felted mat of dead algæ, generally some species of Spirogyra, Zygnema, or Cladophora, which forms along the border of receding waters.

blanket-patent (blang'ket-pat"ent), n. Letters patent covering a variety of matters, each of which may be the subject of a single patent. blanket-policy (blang'ket-pol'i-si), n. In in-surance law, a contract of insurance applied to a class of property rather than to any particular property, in which the risk assumed is shifting and varying according as different articles or things in the class are brought within the

blanket-scum (blang'ket-skum), n. In the manufacture of sugar from the cane, the first-stand thick layer of coagulated material which appears on the surface of the cane-juice which has been treated with milk of lime and heated in open kettles. It consists chiefly of cal-cium salts, coagulated proteid matter, and mechanically entangled particles of vegetable fiber. Sadtler, Handbook of Indust. Chem., p. 129.

blanket-strake (blang'ket-strak), n. In mining and metal., a sloping table or sluice containing coarse cloth, used for catching gold.

see blanket-sluice. [Australia.]

blanket-table (blang'ket-ta"bl), n. In mining, an inclined plane covered with blankets or other coarse cloth, to eatch the heavier minerals which pass over it. See blanket-stnice.

blanket-twill (blang'ket-twil), n. Same as *cassimere-twill.

blanket-vote (blang'ket-vot), n. blanket-*ballot.

blanking-die (blang'king-di), n. Same as cutting-die.

blare1, n. 4. In painting, a broad and brilliant effect of color, as in the representation of flowers.

This is a thing nnique in painting, unique in the sense of freshness and ambiance in which the "blare" of the

flowers is rendered.

C. Ricketts, Velasquez, in Burlington Mag., v. 339.

blanching-machine (blan'ching-ma-shēn"), n. blasfeme, blasfemous, blasfemy. Simplified blastokinetic (blas"tō-ki-net'ik), a. Of or permonds and peanuts. It breaks the skin, brushes it sway, and leaves the nnt clean, white, or blanched.

blasfeme, blasfemous, blasfemy. Simplified blastokinetic (blas"tō-ki-net'ik), a. Of or permonds and peanuts. It breaks the skin, brushes it sway, and leaves the nnt clean, white, or blanched.

blasfemous, blasfemy. Simplified blastokinetic (blas"tō-ki-net'ik), a. Of or permonds and peanuts. It breaks the skin, brushes it spellings of blaspheme, blasfemous, blasphemous, blasphemous, blasphemous. Blastomyces (blas-tō-mī'sēz), n. [NL. (Cossum), a. Of or permonds and peanuts. It breaks the skin, brushes it spellings of blaspheme, blasphemous, blasphemous, blasphemous. Blastomyces (blas-tō-mī'sēz), n. [NL. (Cossum), a. Of or permonds and peanuts. It breaks the skin, brushes it spellings of blaspheme, blasphemous, blasphemous, blasphemous, blasphemous, blasphemous, blasphemous, blastokinetic (blas"tō-ki-net'ik), a. Of or permonds and peanuts. It breaks the skin, brushes it spellings of blasphemous, blastokinetic (blas"tō-ki-net'ik), a. Of or permonds and peanuts. It breaks the skin, brushes it spellings of blasphemous, a mine-shaft designed to produce or quicken ventilation. Barrowman. [Scotch.]—14. In the West Indies, a disease of the sngar-cane, probably caused by an acarid now known as the sugar-cane mite. The species is still undesugar-cane line. The species is sent lines seribed.—Cranberry blast, a disease caused by the pyonidial form of a species of Guignardia, which attacks the very young fruit and prevents its further development.—White blast, a disease of rice along the South Atlantic coast of the United States. The forming head of the rice-plant attacked by it turns snow-white. The clause of the disease is not known.

Common product of Successive Council and provides phores. The single species, B. luteus, was found on bear-dung. Recently various writers on animal pathology have incorrectly referred to this genus certain fungion of obscure relationship which have been isolated from tumors, ulcers, and cancerous growths.

Common product of Successive Council and the species, B. luteus, was found on bear-dung. Recently various writers on animal pathology have incorrectly referred to this genus certain fungion of obscure relationship which have been isolated from tumors, ulcers, and cancerous growths.

Common product of Successive Council and the species of the species of the successive Council and the species of the sp ause of the disease is not known.

blast² (blast), n. [Gr. βλαστός, a sprout, shoot, germ, ζ βλαστάνεν, sprout, bnd, grow.] In zoöl, one of the spindle-shaped, spore-like bodies in the life-cycle of certain Sporozoa,

such as the malarial parasite.

blast-area (blast'ā'rē-ā), n. The area over which a blast of air or steam is distributed;

the cross-section of the blast. **blastesis** (blas-tē'sis), n. [NL.. (Gr. βλάστησις, a budding.] The reproduction of a lichen thallus by means of gonidia. Minks.

Blast-furnace gas, the mixture of gases discharged from Blast-furnace gas, the mixture of gases discharged from the top of a blast-furnace used in snelting iron. It consists essentially of carbon monoxid, carbon dioxid, and nitrogen, and in view of the combustibility of the first of these is becoming a very important source of power hitherto wasted, being used as fuel in internal-combustion engines.—Blast-furnace oil, a tar-like mixture of hydrocarbons, pienols, etc., recovered from coal used in blast-furnaces.—Buttgenbach's blast-furnace, a blast-furnace in which the furnace-top is supported by pillars of cast- or wrought-iron, thereby relieving the stack of its weight.—Styrian charcoal blast-furnace a blast-furnace for the production of white iron. The ores treated are chiefly spathic carbonates, poor in manganese and containing from 35 to 55 per cent. of iron. The use of charcoal as a fuel is confined to the production of fine grades of iron. grades of iron.

blastidium (blas-tid'i-nm), n.; pl. blastidia (-ä). [NL., \(\rightarrow\) Gr. \(\beta\lambda\) of \(\rightarrow\) germ, cell, \(+\) dim. \(-\lambda\) iov.] A secondary cell generated within another; a

danghter-cell. Schleiden.

blasting-powder (blas'ting-pou"der), n. blasting-powder (blas'ting-pou"der), n. An explosive agent, commonly gunpowder, used in blasting rock. Gunpowder for this purpose is often made with nitrate of soda instead of nitrate of potash, although the former salt, which is the cheaper, tends to take up hygroscopic moisture, and the powder is thereby reduced in strength.—Borlinetto's blasting-powder, an explosive, nade by mixing intimately 10 parts of picric acid, 10 parts of sodium nitrate, and 8.5 parts of potassium chromate.—Brain's blasting-powder, an explosive, 40 per eent. nitroglycerin and 60 per cent. a mixture of charcoal, wood-pulp, and nitrate and chlorate of potassium. The last-named ingredient renders it a very dangerous material.

blastocele, n. Same as blastocæle.
blastochore (blas'tō-kōr), n. [lrreg. < Gr.

blastocele, n. Same as blastocele. blastochore (blas 'tō-kōr), n. [lrreg. \langle Gr. $\beta\lambda a\sigma\tau\delta c$, a germ, sprout, $+\chi\omega\rho\epsilon\bar{\nu}$, spread.] In phytogeog., a plant disseminated by offshoots. F. E. Clements.

blastochyle (blas'tō-kil), n. [Gr. βλαστός, a germ, + χνλός, juice, liquid.] In embryol., the liquid which fills the blastocæle, or eavity of the blastula.

blastogenetic (blas "to-je-net'ik), a. [Gr. β izatio, a germ, + γ ėvėtic, production: see genetie.] In biol., of or pertaining to characters which have their origin in the reproducthe acquired or somatogenetic characters, which make their appearance in the soma, or body, of the animal or plant.

plastogenic (blas 'tō-jen'ik), a. I. Pertaining to or produced by means of budding or blastogenic (blas tō-jen'ik), a. blastogenesis.

The same is true as regards the formation of a new polyp from a blastogenic cell and from an ovum. In both cases the final result is the same, or very similar, though the method by which it is attained is different.

Weismann (trans.), Germ-plasm, p. 174.

2. Concerning or pertaining to origin from Blastozoa (blas-tō-zō'ā), n. pl. [Gr. $\beta\lambda a\sigma \tau \delta \varsigma$, germ-plasm, or the substance of germ-cells, as contrasted with origin from the soma or body. layers; Metazoa. [1] contrast them [somatogenic characters] with the blastopenic characters of an individual, or those which originate solely in the primary constituent of the germ.

Weismann (trans.), Germ-plasm, p. 392.

Blastogente germ-plasm, tdtoplasm. See *germ-plasm, *idioplasm. Blastogente variation, diversity among germ-cells considered as variation, and, according to Weismann's doctrine of germ-plasm, the only variation, which can be inherited or transmitted to descendants. *Weismann' (trans.), Germ-plasm, p. 441.*
blastoidean (blast-toi'dē-an), a. and n. I. a. Having the characters of or pertaining to the

Blastoidea.

II. n. One of the Blastoidea.

11. n. One of the Blastoidea.

blastokinesis (blas "tō-ki-nē'sis), n. [Gr. βλαστός, a germ, + κἶνησις, movement.] In embryol., the movements of the whole insect embryo within the egg. Wheeler, 1893.

Blastomyces (blas-tō-mi'sēz), n. [NL. (Costantin and Rolland, 1888), ζ Gr. βλαστός, a germ, + μύκης, a fungus.] A genus of hyphomycetous fungi having a scantily branched mycelium with somewhat polyhedral simple conidia produced on short lateral conidio-

Blastomucetes.

Blastomycetes (blas "to-mi-se'tez), n. pl. [NL., ζ bractos, a germ, $+ \mu i \kappa \eta \varepsilon$ (pl. $\mu i \kappa \eta \tau \epsilon \varepsilon$), a fungus, a mushroom.] A name applied chiefly by animal pathologists to a heterogeneous group of fungi occurring as parasites on man and some of the lower animals. Some of the species included appear closely related to such genera as Oospora and Oidium. They are of simple structure, consisting chiefly of simple cells arranged in chains or

blastomycetic (blas"tō-mī-sē'tik), a. Pertaining to or due to Blastomycetes.—Blastomycetic dermatitis, a form of inflammation of the skin caused by the presence of a fungus of the yeast-plant family.

blastomycetous (blas-tō-mī-sē'tus), a. Pertaining to or eaused by any of the so-called Blastomycetes; blastomycetic.

blastomycosis (blas/tō-mī-ko'sis), n. [NL., \langle Gr. $\beta r a \sigma \tau \delta c$, a germ, $+ \mu \nu \kappa \eta c$, a fungus, + -osis.] Inflammation due to the presence in the tissues, especially on the skin, of a vegetable parasite belonging to the family of budding fungi.

Blastophaga (blas-tof'a-gä), n. [NL. (Gravenhorst, 1829), ζ Gr. βλαστός, a germ, sprout, +

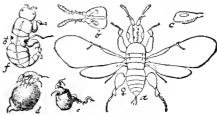


Fig-insect (Blastophaga grossorum),

a, adult female: δ , head from below; ϵ , head from side; d, male impregnating female; ϵ , female issuing from gall; f, male—enlarged. (After Westwood.)

φαγεῖν, eat.] A remarkable genus of chalcidoid insects of the family Agaonidæ, having winged females and wingless males of peculiar strucfemales and wingless males of peculiar structure. They inhabit the flower receptacles of the fig, and act as fertilizers, bringing about the production of the so-called fruit in the pistillate varieties. B. grossorum fertilizes the Smyrna fig of commerce, which is absolutely dependent upon this insect for the production of secd. Both plant and insect have been introduced by the United States Department of Agriculture into California, where large crops of Smyrna figs are now grown.

blastophor, n. Same as blastophore.

blastophoreal (blastofoore, lastophore, lastophore, n. 2. One of the nucleated por-

tive cells, or germ-cells, as distinguished from blastophore, n. 2. One of the nucleated portions of protoplasm formed in an oöcyst of Sporozoa, comparable to a sporoblast.

Blastoporie seam, in embryot, the suture or seam formed by the closing of the lips of the blastopore.

blastostroma (blas-tō-strō'mā), n.; pl. blasto-stromata (-ma-tā). [Gr. βλαστός, a germ, + $\sigma \tau \rho \bar{\omega} \mu a$, a bed, mattress.] In embryol., that portion of the egg which participates actively

in forming the blastoderm. blastous (blas'tus), a. Of or pertaining to a germ.

blast-stove (blast'stov), n. See hot-blast \star_{store}

blastular (blas'tū-lär), a. Of or pertaining to the blastula.

blastule (blast'tūl), n. Same as blastula. blast-wheel (blast'hwēl), n. The wheel in a centrifugal disk- or pressure-blower; an imneller.

I. a. blat (blat), v.; pret. and pp. blatted, ppr. blatting. [Imitative: cf. blatter, blather, bleat.] I. trans. To utter heedlessly; blurt out: as, he blatted the news.

II. intrans. 1. To talk inconsiderately or nonsensically; blather.—2. To bleat. blatjang (bla'eliang), n. In South Africa, chut-

ney; a condiment.

Blatti (blat'i), n. [NL. (Adanson, 1763, adopted from Rheede, 1682), from a Malabar name of one of the species of the genus, B. cascolaris,] A genus of dicotyledonous plants, type of the

family Blattiaceæ. See Sonneratia.

Blattiaceæ (blat-i-ā'sē-ē), n. pl. [NL. (Niedenzu, 1892). < Blatti + -aceæ.] A family of dicotyledonous archichlamydeous plants of the order Myrtales, typified by the genus Blatti, and mostly with the characters of that genus. It contains only one other genus. They are trees or shrulss of tropical Asia, the Malay Archipelago, and the Himalays. See Sonneratia and kambala.

Blattidium (bla-tid'i-um), n. [NL., < L. blatta, a cockroach, + Gr. dim. -ίδιον.] A genus of extinct cockroaches from the Jurassic rocks.

blaze¹, n. 6. In physiol., an electric current traversing normal living tissue in a positive direction when a mechanical stimulus is applied; the electric response of living tissue to stimulation. See *blaze-current.

This " blaze" response is the algebraic sum of post-anodic and post-kathodic currents; the resultant is commonly homodrome, but an antidrome blaze, distinguished from polarisation by its much greater order of magnitude, is also seen.

Nature, July 9, 1963, p. 238.

blaze-current (blāz'kur"ent), n. An electric current aroused in living tissue by stimulation.

In another paper, A. Durig describes observations which make it impossible, he says, to regard the appearance of blaze-currents as a specific property of living tissue. It is much more probable that they are to be considered as special manifestations of certain epithelial tissues.

Jour. Roy. Micros. Soc., Oct., 1903, p. 599.

blazed (blāzd), p. a. Having a white mark, properly a streak, on the forehead: said of horses and cattle.

blaze-reaction (blaz-re-ak'shon), n. A reaction obtained when living tissue is stimulated by a mechanical or an electrical stimulant. It consists of an electric enrent traversing the living tissue in a positive direction, and it is thought to be an electrical criterion of vitality. See $\star blaze$, n, 6, and $\star blaze$ -current, Jour. Roy. Micros. Soc., Oct., 1903, p. 599.

Jour. Roy. Micros. Soc., Oct., 1903, p. 599.

blazing-star, n., 2. (d) In California, Mentzelia twevicaulis, a white-stemmed plant with cream-colored or light-yellow flowers or 4 inches broad; also M. Lindleyi, with smaller golden flowers.

bleach!, n. 3. An abbreviation of 'bleaching-powder,' or chlorid of lime.—Madder bleach, the most thorough calico-bleaching process: so named because it was first applied to goods to be printed or dyed with madder colors. Its object is the complete removal of every impurity which can attract coloring matter other than that desired.—Market bleach, a bleaching process for cotton goods snitable to meet the ordinary requirements of the trade. It differs from that for printed goods essentially in the absence of the boiling with resin soap and in the introduction of tinting with a blue coloring matter.

bleach-croft (blech'kroft), n. A field of growing grass upon which linen or cotton cloth is spread for bleaching.

bleacher, n. 4. Same as *bleachery, 2. bleacherite (blē'chèr-īt), n. One who must be content to stand or occupy a bench in the open air while witnessing a base-ball or other game. [Slang, U. S.]

bleachery, n. 2. An outdoor stand from which spectators may view something, especially a game of foot-ball or base-ball. [Slang, U. S.]

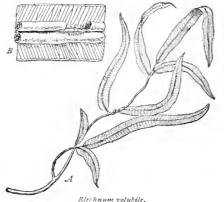
bleaching-engine (blē'ching-en"jin), n. In paper-manuf., a machine for bleaching, cleaning, and preparing wood-pulp for use in a paper-making machine. It is essentially a form of beating-engine (which see).

bleaching-liquor (ble'ching-lik"or), n. Bleaching-liquid; as usually understood, the solution obtained by the action of water on bleaching-powder or chlorid of lime, but also applied to solutions of the alkaline hypochlorites, bleaching-liquor being now made directly by the electrolysis of an aqueous solution of common

bleach-liquor (bleeh'lik-or), n. Same as \star bleaching-liquor.

bleach-works (bleeh'werks), n. pl. Same as bleachery.

Blechnum (blek'num), n. [NL. (Linnæus, 1753), < Gr. $\beta \lambda \bar{\eta} \chi \nu o \nu$, a kind of fern. (Blechnon was used by Pliny.)] A genus of hardy polypodiaceous ferns. The fronds are nearly or quite uniform and mostly pimatifid or pinnate; the sterile veinlets are free, those of the fertile pinnæ being connected near their base by a transverse continuous receptacle which bears a linear sorus parallel to the midvein and provided with an elongate superior industum free and at length reflexed from the inner margin. The species in cultivation are rather coarse greenhouse ferns which are very useful to florists for jardineres and for spectmen ferns. The following are most commonly cultivated: B. Brasiliense, B. mitidum, and B. Corcoradense, of Brazil; B. occidentale, found in Mexico, the West



A, a sterile frond; B, portion of a fertile pinna showing the sori and spores. (Drawn from Engler and Prantl's "Pflanzenfamilien.")

Indies, and Brazil; and B. serrulatum, found in the regions between Florida and Brazil. B. cartilagineum, B. Lanccola, and others are also under cultivation.

bleed, r. t. 6. To allow an escape of (liquid bleed, r. t. 6. To allow an escape of (liquid or gas) through a cock or valve from a higher pressure to a lower. Specifically—(a) To let (steam) escape by a by-pass from a high-pressure cylinder of a compound engine to one of the low-pressure cylinders (b) To let (air or condensed water) escape into the atmosphere from the train-pipe or reservoirs of an air-brake system. (c) To remove (condensation) from a gas-main or a steam-pipe by opening a drip-valve.

7. In making turpentine, to obtain resin from (living frees) by cutting into them.—To bleed a sack, to make a slit in it, as in loading sacked wheat for export. See the extract.

In loading sacked wheat for export a number of sacks

In loading sacked wheat for export a number of sacks in each row are "bled." In other words, a slit is made in the sack, which allows a small quantity of the wheat to escape and itll in the spaces around the corners and sides of the sack, thus making a more compact cargo, which is less liable to shift than would be the case if the sacks were loaded without "bleeding."

Yearbook U. S. Dept. Agr., 1901, p. 576.

bleeder, n. 3. In mech., a pipe which leads steam from the pressure-line to the intermediate or low-pressure cylinder of the engine

or to the condenser.

bleeding-heart, n. 4. Same as *coral-creeper.

- California bleeding-heart, Bikukulla formosa, a beautiful species of the Sierras and Coast Range.—Wild bleeding-heart, Bikukulla eximia of the Allegbany

bleeding-valve (ble'ding-valv), n.

Bleiberg process. See *process. blend¹, v. i. 3. In biol., to exhibit or transmit to descendants the resultant or combination of resemblances to the two parents in in-

heritance.

In the former case where A and a are characters which can be denoted by reference to a common scale, the law assumes of course that the inheritance will be, to use Galton's term, blended, namely, that the zygote resulting from the union of A with a will on the average be more like a than if A had been united with A; and conversely that an Aa zygote will on the average be more like A than an azygote would be.

W. Bateson, Mendel's Prin. of Heredity, p. 20.

4. In psychol. to combine in such a way that

4. In psychol., to combine in such a way that the combining qualities are thrust more or less into the background by the total impression which results from their combination; fuse.

blend¹, n. 3. In psychol., a fusion; a connection of mental processes in which the constituents are forced into the background by the total impression.

There is no trace of fnsing, of being fused, when the tones sound: they form a blend; and this blend, the sound-whole, is the fusion.

E. B. Titchener, Exper. Psychol., 1. ii. 330.

blend², n. A simplified spelling of blende.

blende, n.—Sidot blende, an artificially prepared zinc sulphid, in finely crystalline powder, exhibiting phosphorescence on exposure to sunlight, by friction, and by the impact of the radiation from salts of radium. Science, Oct. 28, 1904, p. 569.

blender, n. 2. A machine for mixing or blending together different kinds of flour, dry paints, or other new drops.

ing together different kinds of flour, dry paints, or other powders. It consists of a cylinder of wood or iron in the axis of which is a shaft, called an agitator, fitted with spiral fans which when revolved stir and mix together the various powders or flours placed in the machine. It is usually combined with some form of sifting-machine, and is then called a sifter and blender. Large machines have also a feeder.

blending, n. 2. The combination of the characteristics of both parents as a resultant in

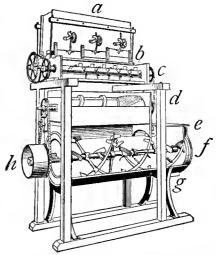
acteristics of both parents as a resultant in cross-breeding.

Cross-precuring.

In some cases there was obvious blending, as for example when white crossed with red or claret gave pink.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902,

[1.45.]



Combined Feeder, Sifter, and Blender.

a, feed-box with three compartments; b, feed-gates regulating proportions of mixtures; ϵ , distributing-shaft; ϵ , mixer with spiral brushes for spreading material over sieve (not shown) through which it falls to blender; ϵ , blender; f, agitator; g, point of discharge; h, pulley for belt delivering power. Front of ϵ , ϵ , and ϵ open to show construction. Machine 15 to 20 feet high.

blendure (blen'dūr), n. [blend¹ + -ure (cf. mixture).] A blend or mixture.
blend-word (blend'werd), n. An invented word, made up of two or more known words taken and combined without regard to ctymological usage or rule, the object (which may not be consciously present in the inventor's mind) being to produce an absolutely new word, which shall not appear to be a compound or which shall not appear to be a compound or derivate of known words. Examples are frequent in humorons formations, as in the works of "Lewis Carroll"; as snark from su(ake) and (sh)ark, chortle from ch(uck)le + (sn)art, etc. So brunch, in Oxford University slang, from br(eakfast) + (l)anch. See ★brunch-word. Blendwords of this nature differ only in spirit from a class of chemical and other technical compounds in which two or more words are arbitrarily reduced for mere convenience, as aldehyde from al(cohol) dehyd(rogenatus), chloroform from chlor(in) + form(yl), etc.

blendy (blend'i), a. Containing the mineral blende.

Diennemesis (ble-nem'ē-sis), n. [NL., \langle Gr. β λέννα, mucus, + έμεσις, vomiting.] The vomiting of many blennemesis (ble-nem'ē-sis), n.

globiceps.

βιστοτρίς. Start (blen-ö-starsis), n. [NL., ζ Gr. βλέννος, slime (mucus), + στάσις, standing.] Suppression of a discharge of mucus. blennuria (blen-ŭri-ä), n. [NL., ζ βλέννος, slime (mucus), + οὐρον, urine.] Discharge of mucus in the prime

mucus in the urine.

mucus in the urine.

bleo (blā'ō), n. [Native name.] Pereskia Bleo, of the caetus family, a thorny shrub found in Colombia and Brazil. It bears flesh-colored flowers and smooth, pear-shaped edible fruit the size of a large plum. The plant serves as a good stock on which to graft the more ornamental species of cacti and is planted for hedges. See Pereskia. [Colombia]

blephara (blef'a-rā), n.; pl. blepharæ (-rē). [NL., < Gr. βλέφαρον, eyelid.] One of the teeth of the peristome in mosses. [Rare.]

blepharic (ble-far'ik), a. [Gr. βλέφαρου, eyelid, -ic.] Same as palpebral.

blepharis (blef'a-ris), n. [NL., ζ Gr. βλεφαρίς, eyelash, eyelid, ζ βλέφαρον, eyelid, appar. ζ βλέπειν, look at.] In certain crustaceans, the fringe of hair on the edge of the pit in which the eve is situated.

eye is situated.

Blepharocera (blef-a-ros'e-rā), n. [NL. (Macquart, 1843) (also Blepharicera), ζ Gr. βλέφαρον, eyelid (βλεφαρίς, eyelash), + κέρας, horn.] 1.

A genus of dipterous insects typical of the family Blepharoceridæ.—2. A genus of tineid moths. Chambers, 1877.

Blepharoceridæ (blef"a-rō-ser'i-dē), n. pl. [NL., < Blepharocera + -idæ.] A family of small bibionoid dipterous insects which have the wings furnished with a network of creased lines, from which they have been called the met-vened midges. The adults are mosquito-like in form, and the larve, which are aquatic, resemble crustacea more than insects. They attach themselves to rocks in swift-running streams, and have apparently but 7 segments.

blepharoclisis (blef a-rō-kli'sis), n. [NL., ζ Gr. βλέφαρον, eyelid, + κλείσις, κλησις, slutture.

ting up.] Union, to a varying extent, of the opposing eyelids, of congenital origin.

blepharoconjunctivitis (blef a-rō-kon-jungk" ti-vī'tis), n. [NL., < Gr. βλέφαρον, eyelid, + NL. conjunctivitis.] Inflammation of the conjunctiva of the eyelid.

blepharoplast (blef'a-rō-plast), n. [Gr. βλε-φαράς, eyelash, + πλαστός, formed.] 1. A spe-eialized eilia-forming protoplasmic organ of eialized cifia-forming protoplasmic organ of the sperm-cells of certain plants. It first appears in the spermatozoid mother-cells in the form of a round body with radiating rays of kinoplasm, and through its growth and development gives rise to the motile cilia of the spermatozoids. The organ resembles a centrosome or centrosphere, and may be a modified homologue of that organ of the cell. In Zamin, Cycas, Ginkgo, and certain ferns, two of these organs appear in each spermatozoid mother-cell, one going to each of the two spermatozoids formed therefrom. II. J. Webber, Development of the Antherozoids of Zamia, in Bot. Gazette, July 16, 1897, p. 24. 1897, p. 24.

2. In protozoans, a minute granule, of un-known function, at the base of each flagellum, as in Multicilia.

blepharoplastoid (blef "a-rō-plas' toid), n. [Gr. βλεφαρίς, eyelash, + πλαστός, formed, + είδος, form.] In bol., a structure resembling the blepharoplast in the spermatids of certain plants, such as Marsilia.

blepharostat (blef'a-rō-stat), n. [Gr. βλέφαρου eyelid, + στατός, fixed, ζίστάναι, cause to stand.]
An instrument for keeping the eyelids apart;
an eye-speculum. Jour. Trop. Med., Mar. 2,
1903, p. 71.

blepharosymphysis (blef n-rō-sim fi-sis), [NL., ⟨ Gr. βλέφαρον, eyelid, + σίμφυσις, a growing together.] Union, to a varying extent, of the opposing eyelids, occurring as a result of discovery. result of disease.

blepharosynechia (blef "a-rō-sin-e-kī'ā), n. [NL., \langle Gr. $\beta\lambda i\phi a\rho ov$, eyelid, + $\sigma vv\ell\chi ea$, continuity, \langle $\sigma vve\chi \eta g$, continuous, \langle $\sigma vv\ell\chi ea$, continue, hold together, \langle σiv , with, + $\dot{\epsilon}\chi eav$, hold.] Adhesion between the margins of the opposing evelids.

blepharotomy (blef-a-rot'ō-mi), n. [Gr. βλέ-φαρον, eyelid, + τουν, a cutting.] In surg., incision of the eyelid.

Blessed bread. Same as culogia. blet (blet), n. [blet, v.] A soft spot in a fruit; an early stage of decay.

Bletja (ble'ti-ä), n. [NL. (Ruiz and Pavon, 1794), named in honor of Luis Blet, a Spanish pharmaeist and botanist.] A widely distributed genus of terrestrial or epiphytal herbs of the genus of terrestrial or epiphytal herbs of the family Orchidacea. The leaves are plicate, membranaceous, erect, and have a sheathing base. The terrestrial species are most commonly grown by gardeners. There are about 20 species of Bletia found in the American tropics, and one species is found in China and Japan. B. hydrinthina, B. verecunda, B. Sherratiana, B. patula, and B. campanulata are most commonly grown.

campanulata are most commonly grown.

bleu (blè). n. [F.] Blue.—Bleu céleste, in ceram, same as *bleu turquoise.—Bleu de ciel, a shade of blue faund in Chinese porcelain; sky-blue. Also called bleu d'azur.—Bleu de Nanking, a dark-blue color found on Nanking or 'East India' stoneware and porcelain.—Bleu de Sèvres, adeep, rich cobalt blue color used at the Sèvres factory near Paris. Same as bleu de roi (which see).—Bleu fouetté, a blue color used on Chinese ceramic ware; so called from its whipped aspect. It is less deep in shade than the lapis tazuli, and has a mottled appearance. See ponder *blue.—Bleu lapis, a velned dark-blue color, or gross bleu, used on French porcelain, particularly that of Sèvres.—Bleu turc, a pale grayish or 'Turkish' blue, used as a ground-color on Sèvres porcelain.—Bleu turquoise, in ceram, a highly prized turquoise-blue color invented in the reign of Louis XV.

blibe (blib), n. [Appar, a dial, variant of bleb.]

blibe (blib), n. [Appar. a dial. variant of bleb.] In glass-making, a defect in the glass, caused by the retention of gas-bubbles formed during the

melting. Also called blister.

blicksilber (blik'sil"ber), n. [G.] Silver as it appears after the removal of the impure litharge or abstrich in a cupeling-furnace. Blicksilber still contains some lead and has to be

further refined. Phillips and Bauerman, Elements of Metallurgy, p. 707.

blight, n., 3. (c) Purulent conjunctivitis.—4.
An insect, usually inconspicuous or hidden, which causes trees or plants to become diseased which causes trees or plants to become diseased or to die, as the American blight.—American blight, a name given in England and the English colonies to the woolly root-louse of the apple (Schizoneura lanigera) on account of its supposed American origin. Its native home, however, is not satisfactorily determined, and it may quite possibly have been Europe or Asia.—Appleblight. Same as pear-blight.—Bacterial blight. See Abacterial.—Black blight. (a) A disease of the mango, Mangifera Indica, caused by the fungus Dimerosporium amagiferum, which produces velvety black patches on the leaves, especially where insects that produce honeydew are present. (b) Same as mosquita*blight. See also ten-bug.—Cane-blight, a disease of raspberries doubtfully ascribed to a spectes of Phoma.—Corn-blight, a disease of seed-blight of corn.—Douglas fir blight, a disease of seed-

lings and young trees of Pseudotsuga mucronata and Sequoia Washingtoniana, caused by the fungus Selerotinia Douglassii. Bortutis Douglassii is regarded as the conidate condition of the fungus. Egg-plant blight, a disease of the egg-plant attributed to Bacillus solunaccurum,—Grape-leaf blight. See *kela-blight of grape.—Gray blight, a disease of the tea-plant in India caused by Pestatotia Guepini, which produces brownish-gray spots on the leaves.—Green blight, the greently; any green plant-louse, especially one of those forms which damage hothouse plants.—Maple-blight, a disease of young shoots of the maple, Acer campestre, in Europe, caused by the fungus Septogleum Hartigianum.—Mosquito, blight, a blight of the tea-plant produced by the punctures of several species of plant-bugs of the genus Helopetis. See tea-bug.—Pineapple-blight, a serious disease of the pineapple, causing the death of the plant. It has been attributed to a species of Fusarium. Pineapple-blight has been injurious in Florida, causing large losses.—Potato early blight, a disease affecting the leaves of the potato, caused by the fungus Alternaria (Macrosporium) Solmi. Same as potato beaf-curl.—Potato late blight, a disease of potato-leaves and tubers caused by Phytophethora infestans. See potato-rot.—Rice-blight, a very destructive disease of rice, attacking the sten near the top and preventing the development of the grain. It is supposed to be due to a fungus.—Sorghum-blight, a disease of the laves of sorghum ascribed to Bacillus Sorghi.—Thread blight, a disease of strawberries supposed to be of bacterial origin.—Tomato-blight, a disease of tomato-plants caused by Macillus solanocarum; also, in the southern United States, a disease caused by a Sclerotium.—Wheat-blight, a disease of wheat attributed to Mystrosporium abrodens.

blight-powder (blit'pou-der), n. A mixture of sulphur with a small proportion of anhy-

blight-powder (blit'pou-der), n. A mixture of sulphur with a small proportion of anhydrous copper sulphate in fine powder, for dust-

Blikoor (blik'or), n. [Cape D., & blik, bare, galled, sore, + oor, ear.] A South African nickname for a person from the Transvaal. blind, n. 14. In hort, said of a shoot that

nickname for a person from the Transvaal. blind!, a. 14. In hort,, said of a shoot that does not bloom. It is most frequently applied to roses, chrysanthemums, and other twiggy growers. Such shoots are often spoken of as blind wood. Shoots which do not fulfil their promise, or fulfil the expectations of the gardener in producing flowers, are said to "come blind."—Blind alphabet. See *braille.—Blind cat, a siltroid fish, Amiurus nigrolabris, found in caves and having the eyes functionless.—Blind goal. (b) Coul, containing little volatile matter, which burns without smoke; authracite. [Scotch.]—Blind door. (b) A door made of slats like a window-blind, and intended to allow of the passage of air while sight is prevented.—Blind gut, the execum.—Blind hole. (b) In golf, a hole so situated that a given player cannot see the flag which marks its position.—Blind hookey. See *hookep3.—Blind insects, any insects in which the eyes are absent or are functionless, as in a number of the forms of different orders which inhabit caves, in the curious orthopterona insects of the family Hemineridar, in certain cockronches, in the full-grown females of many Coccider, in certain species of fig-insects of the chalcidoid family Aganaidar, and in others.—Blind pit, in mining, a shaft which does not reach the surface, as a shaft from an upper to a lower seam.—Blind pocket. See *pocket.—Blind shearing, in coal-mining, a side-cutting without undercutting. Barrowman, Glossary.—Blind spot. (b) In cricket, that spot of ground in front of the batsman where, if the ball pitches, he is in doubt as to whether to play back or forward.—Blind tiger, a place where intoxicating liquors are sold surreptitiously. [Local U. 8.]—Blind wall, a wall without openings.

blinded, a. 3. In mining, not opposite, but nearly so, as two level drifts on either side of a slope. Barrowman, Glossary. [Scotch.] blind-fish, n. 3. Any of the several species of

fishes which inhabit caves and have more or less rudimentary eyes.—Cuban blind-fish, either of two species of blind-fishes found in the caves of Cuba, Lucifuga subterranea and Stygicola dentatum. They belong to the family, Brotulidæ, a group otherwise strictly

blindfold chess. See *chess1. blindfoldedness (blindfoldednes), n. The state of being blindfolded. N. E. \hat{D} .

blinding-tree (blin'ding-tre), n. [Ppr. of blind1+tree.] A littoral tree, Execcaria Agallocha, belonging to the spurge family, the aerid milky juice of which is said to cause blindness. See Execeria and tiger's-milk. [East Indies.]

blindlingt (blind'ling), n. [blind + -ling¹.] A blind person. N. E. D. blind-lobster (blind*lob'ster), n. Phoberus excus, found in the Gulf of Mexico and the

blindness, n.—Blue-yellow blindness, a form of partial color-blindness in which the short-wave end of the spectrum is very dark and but little colored, and yellow is confused with white, white red and bline-green are still distinguished.—Cortical blindness, loss of sight due to a lesion in the cortical portion of the brain.—Mental blindness, psychical blindness, a pathological state in which the patient, though able to see objects before him, cannot recognize them by their visual properties.

blind-tooling (blind'töl"ing), n. In bookbinding, an effect produced by various instruments B. LL. An abbreviation of Bachelor of Laws. gold-leaf.

Blind-tooling is the impression of the tools upon the leather without gold or color. It is produced by the tools, slightly warned, being impressed upon the leather when damped, and by the same impression being often repeated to brighten its effect.

W. Matthews, Bookbinding, p. 55.

blind-work (blind'werk), n. Same as *blind-

blind-your-eyes (blind'yor-īz), n. [Australian.] Same as *blinding-tree.
blinker, n. 3. pl. Goggles; spectacles used for protecting the eyes from the light, dust, glare of the snow, etc.—4. A small mackerel:

blinking, n. II. a. 1. Winking with halfopened eyelids, as when the eyes cannot bear
full light.—2. Having twinkling eyes. Scott,

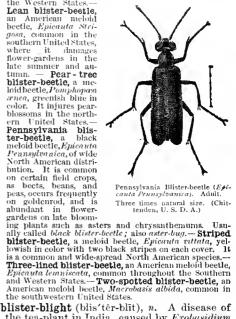
Nigel, xvii.

blippo (blip'pō), n. [African.] A shrub or small tree, Randia melleifera, belonging to the madder family, with the inky sup of which the natives of North Central Africa dye their bodies.

blister, n. 6. A swelling on a metal plate; a bag.—7. A young oyster. [U. S.]—8. In photog., a defect in a plate or on a paper in the process of coating with gelatin, albumin, or collodion.—9. In glass-making, a defect in the glass caused by the retention of gasbubbles formed during the melting.-Larchbubbles formed during the melting.—Larchblister, a disease of the branches of the European larchcaused by a discomycetous fungus, Dangscypha Willkommii.—Pear-leaf blister. (a) A disease of pear- and quince-leaves in Europe, causing swollen blister-like patches, due to the fungus Taphria bullata. (b) A common disease of pear-leaves produced by a mite, Phytoptus puri, commonly called the pear-leaf blister mite. Each blister is a swelling of the leaf, producing a cavity in which the mites are found.—Pine blister, a disease of pines caused by species of Peridermium which form blisters on the leaves.—Plum-leaf blister, a disease of the plum caused by Polystigma rubrum which produces reddish patches on the leaves.

patches on the leaves.

blister-beetle, n.—Black blister-beetle. See Pennsylvania *blister-beetle.—Black-striped blister-beetle, an American meloid beetle, *Macrobasis atrivitata, which damages garden plants in the Missispipi valley.—Immaculate blister-beetle, an American meloid beetle, *Macrobasis immaculata*, which damages garden vegetables in the Western States.—Lean blister-beetle, an American meloid beetle, *Epicaula Strigosa,* common in the southern United States, where it damages



blister-blight (blis'ter-blīt), n. A disease of the tea-plant in India, caused by Exobasidium vexaus, which produces velvety convex blisters on the leaves.—Pine blister-blight, a disease attacking the leaves of Pinus sylvestris in Europe, caused by Peridermium Cornui.
blister-copper (blis'ter-kop"er), n. Metallic

copper produced in the smelting of the metal heating together copper sulphid and copper oxid, the escape of sulphur dioxid in bubbles giving rise to small cavities or blisters in the mass.

blister-furnace (blis-ter-fer'nās), n. The furnace in which blister-copper is melted. It is a form of reverberatory furnace.

The multiple system anodes are sometimes cast directly from the blister-furnace or the converter, Eucyc, Brit., XXVII. 237.

B. Lit. An abbreviation of Bachelor of Litera-

upon the leather without the assistance of bloat!, a. II. n. The bloater whitefish, Argyrosomus prognathus.

bloat-clover (blōt'klō"ver), n. See bear-*elover. Bloater whitefish. See *whitefish. blob, n. 5. In cricket, no score; zero; a duck's

blob, u_{\bullet} egg (which see).

blocage (blo-käzh'), n. [F., < bloc, block.] Rough masonry made by bedding small stones in masses of mortar, as in the interior of heavy walls.

M. E. Bloch (1723-99), a German ichthyologist.] A genus of singular clayers Blochius (blok'i-us). gist.] A genus of singular elongate teleost fishes with a beak-like snout and finely toothed

fishes with a beak-like snout and finely toothed jaws. The body is covered with rhombic bony and keeled scales; the dorsal fin extends from occiput to tail and is composed of a spaced series of long spines; and the anal fin is of similar character. It is the only genus of the family Blochiidæ, and occurs only in the Upper Eocene rocks of Monte Bolca.

block¹, n., 6. (b) A block-like form of eastiron or steel used by angle-smiths in shipbuilding instead of an anvil. They are of various shapes and are named from their special uses, as splitting-blocks, bending-blocks, welding-blocks, joggling-and-offsetting blocks, etc.—10. Hence—(d) The engraving or plate itself.—15. One of the sections into which the colonies of Australia are divided. See the colonies of Australia are divided. See *back-blocks.—16. In railroading, the space or distance on a track between two signals; one of the short divisions into which a railroad is divided for signaling purposes, irrespective of the particular signal-system employed. See *block-signal, and *signaling.—17. In ceram., the original model from which the block-mold is cast. See *block-mold.—18. In geol.,



Portion of earth's crust, showing geological blocks.

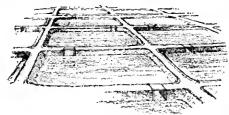
a portion of the earth's crust separated by fracture from the adjacent parts, and usually uplifted or depressed with respect to them. -19. In violin-making, a triangular piece of wood within one of the projecting corners of the waist, to which the ribs, belly, and back are glued and by which the solidity and strength of the whole is largely secured. Usually called corner-block. As the waist has two corners on either side, the number of blocks is four. The introduction of corners and blocks in the fifteenth century marks a decided transition in the evolution of the true violin from the

20. In forestry, the unit of management treated in a working-plan. A block contains always two, but usually many more, compartments. -21. In stock-raising, any animal of a stocky, stout, compact, and well-made form: opposed to a loosely formed or rangy animal.

Fifth on the list was Lucifer, a "block" with fine spread of fore rib, a strong loin, level lines, and a bull's head.

Rep. Kan. State Board, Agr., 1901-1902, p. 204.

Block coefficient. See *coefficient of fineness.—Block system. (a) In geol., a mountain system in which the



Application of Water by Block System

the gold. Instead of being sawn horizontally with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are ent across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are at across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are at across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle-bars, block-rifles are at across the tree, and stand in the slinice with the grain of the wood, like ordinary rifle bars. ranges are dislocated blocks of the earth's crust, (b) In irri-

blocks or bunches from 6 to 10 inches apart, which are then thinned by hand to one plant each; to bunch.—To block out. (b) In photog., to screen or cover a portion of the negative in order to prevent printing

block², n. 3. In *cricket*: (a) A batsman's guard; the position in which he holds his bat upon the ground previous to striking. (b) A block-hole. (c) The stopping with the bat of a ball which is pitched in the block-hole, (d) A batsman who acts entirely on the defensive. [Colloq.]—Lock-and-block, a system of operating railroad-trains by which a holder is locked by a preceding train so as to block the following train, which cannot proceed uitil the forward train is out of the section. The presence of a train on a section prevents the release of a staff from the holder; no engineman is allowed to pass such a holder without withdrawing the staff from it.

"Lock-and-block" has been used to a limited extent on a good many lines in England and a half-dozen in America, but of extensive installations there were in 1901 only four. Energe. Brit., XXXII, 146,

block2, r. t. 2. In card-playing, to hold up a high card in order to prevent an adversary

from making smaller ones later on. block-ball (blok'bâl), n. In base-ball, a ball which goes out into the crowd or is stopped by some one who is not connected with the game.

block-chain (blok'chān), n. A form of drivechain for transmitting motion or power, in which the alternate links are solid blocks con-nected by side-pieces or links which are held in place by pins through the blocks near their ends. The pins and flat links give flexibility. Newer designs use flat links edgewise, rather than the alternate block and links.

block-cutting (blok'kut"ing). n. In ceram., the process of carving, out of gypsum or clay, molds from which the working-molds are to be made.

block-fuel (blok'fu"el), n. Small coal or coaldust mixed with pitch or other binding-ma-terial and pressed into blocks for use as fuel, Also called patent fucl. Thorpe, Dict. Applied Chem., I. 329.

block-game (blok'gām), n. A game of dominoes in which each player starts with seven pieces, the object being to block the adversary so that he cannot play. The winner counts the points on his opponent's pieces. blockhead board (blok'hed-bord"), n. Same

as *doll2, 2,

block-hole (blok'hōl), n. In cricket, a mark or depression just inside the popping-crease and in front of the wicket, upon which, for the purpose of determining his position, the batsman usually rests his bat previous to striking.

block-model (blok'mod-el), n. In ship-building a model made from a number of flat pieces of wood called lifts, bolted or glaed together into a block and earved to represent the shape of a vessel on a reduced scale. The joints between the pieces show the form of the water-lines of the vessel

block-mold (blok'mold), n. In ceram., a hollow plaster east taken directly from the original block, or clay model. Plaster of Paris is poured into this to make the ease or case-mold, and from the latter the hollow working-molds, which are replicas of the block-mold, are made. See *case-mold* and *working-mold.

block-printer (blok'prin-ter), n. One who prints colored patterns on cloth with hand-blocks.

block-printing, n. 3. Any process in which by the aid of photography, a block is produced which may be printed from in an ordinary printing-press together with the letterpress. The half-tones of the photograph must be broken up into lines, dots, stippling, or grain in order to hold the ink.

block-riffles (blok'rif"lz), n. pl. Wooden bars fastened to the bottom of the sluice to retain the gold. Instead of being sawn horizontally with the grain of the wood, like ordinary rifile-bars, block-riffles are cut across the tree, and stand in the alnice with the grain upward. They are said to be more durable than riffle-

made up of cars which together form one unit of unvarying composition. [Eng.]

In block-trains, where the component coaches are permanently coupled together, one dynamo sometimes lights all the carriages; but usually each has its own dynamo, and so becomes an independent unit.

Encyc. Brit., XXXIL 154.

blockwood (blok'wud), n. Same as logwood, 1. bloedite, n. See blödite.

blolly (blol'i), n. [From loblolly, perhaps taken as low-blolly.] A tree, Pisonia longifolia, of the West Indies and southern Florida. The name is probably given also to P, subcordata, the lobbolly-tree.

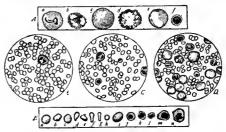
blomstrandite (blom'stran-dit), n. [Named after Prof. C. W. Blomstrand of Lund.] A tantalate and niobate of uraninm, related to

atter Prot. C. W. Blomstrand of Lund.] A tantalate and niobate of uraninm, related to samarskite: found in Sweden.

blondinette (blon-di-net'), n. [blond + -ine + -ette.] A breed of oriental frilled pigeons, of small size, plump, compact form, feathered legs, and tricolored wings. The markings are the same in the different varieties, but the colors, usually light, vary considerably.

Blondlot rays. See *ray1.

blood, n. 1. The blood is a slightly alkaline, albuminous fluid with a specific gravity of 1.050, and is equal in amount to about one thirteenth of the body-weight. It transfers food and oxygen to the tissues, from which it also removes carbon dioxid and other waste products. Its fluid portion, the plasma, and its solid constituents, the cells, are present in about equal amounts. The plasma is a clear yellowish fluid containing serum albumin, globulin, fibrinogen, and inorganic salts. The formed elements are the red corpuscles, the white corpuscles or leucocytes, and the blood-plates. The red corpuscles are non-nucleated, biconcave disks of an average diameter of 7 micromillimeters, and it is their presence that gives the blood its red color and its opacity. Their chief constituent is the hemoglobin, and they number about 4,500,000 to the cubic millimeter. In disease three types of nucleated red cells are observed, named, according to their size, microblasts, normoblasts, and megaloblasts, as well as abnormal non-nucleated cells, the microcytes, megalocytes, and polkilocytes. The leucocytes are nucleated, number about 8,000 to the cubic millimeter, and five normal varieties are recognized—the polymorphonuclear neutrophiles, the lymphocytes, the large mononuclears, the eosinophiles, and the basophiles. In certain infectious diseases, such as appendicitia and pneumonia, the number of leucocytes may be much increased, while in typhoid fever the number is diminished. The blood-plates are supposed to take part in the clotting of the blood. In recent years the study of the blood of Malta fever, and the search f



Blood.

Blood.

A. Types of Leucocytes. a. polymorphonuclear neutrophile; b. polymorphonuclear cosinophile; c. inyelocyte (neutrophilic); d. eosinophilic myelocyte; c. large lymphocyte (large mononuclear); f. small lymphocyte (small mononuclear). B. Normal Blood. Field contains one neutrophile. Reds are normal. C. Anemia, post-operative (secondary). The reds are fewer than normal, and are deficient in hemoglobin and somewhat irregular in form. One normoblast is seen in the field, and two neutrophiles and one small lymphocyte, showing a marked post-hemorrhagic anemia, with leucocytosis. D. Spieno-myelogenous leucemia. The reds show a secondary anemia. Two normoblasts are shown, consisting of nine neutrophiles, seven myelocytes, two small lymphocytes, one eosinophile typolymorphonuclear), and one eosinophilic myelocyte. Note the polymorphous condition of the leucocytes, that is, their variations from the typical in size and form. E. Varieties of red corpuscles. d., normal red corpuscle (normocyte); b. c., anemic red corpuscles; d., f., microcyte; j. m. galocyte; j.-m. nucleated red corpuscles; j., k. normoblasts; l., microblast; m., m., megaloblasts. (From Dunglison's "Medical Dictionary.")

The diseases of the blood are leucemia and anemia. Leucemia, or leucocythemia, may be of two varieties, lymphatic and myelogenous. In the former there is a great increase in the number of lymphocytes, which may reach 400,000 to 500,000 to the cubic millimeter, the hemoglobin is very low, and there is an enlargement of the lymphodes. In the myelogemous form there is in addition great enlargement of the spleen, and leucocytes of a special type, called myelocytes, appear in large numbers. Nucleated and degenerated red cells occur in both forms of the disease, which is accompanied by progressively increasing weakness with hemorrhages into the skin and mucous membranes, and is usually fatal. Anemia is a condition in which the quality of the blood is impaired through reduction either in the red cells, or in the hemoglobin, or in both. Xumerous forms are recognized, and

blood

It may occur in all grades of severity, from the mildest, which require only fresh air and attention to the general health for their cure, to the severest, which prove fatal In spite of all treatment. The primary or essential anemias include pernicious anemia and chlorosis, which are conditions whose cause has not yet been discovered. In pernicious anemia there is extreme destruction of the red cells, so that counts of less than 1,000,000 or not uncommon. In contradistinction to the conditions obtaining in chlorosis and the so-called secondary anemias, the relative fall in hemoglobin is less than that of the red cells, so that each corpuscle contains more than its normal share of hemoglobin. Abnormal forms of red cells are a conspicuous feature. The symptoms include pallor of a yellowish tinge, progressively increasing weakness, shortness of breath, cardiac weakness and irregularity, and sometimes fever. The symptoms develop insidionsly, and there may be periods of improvement; but though the patients sometimes live for several years, the disease usually terminates fatally. Chlorosis is a curable disease, thely seen in young women, and is characterized by great reduction in the hemoglobin, while the number of red corpuscles is not diminished to nearly the same degree. The chief symptoms are a greenish pallor, general debility, headache, dizziness and fainting attacks, palpitation of the heart, menstrual disorders, and indigestion. The secondary anemias are those which are directly traceable to some other condition, and may be produced by profuse or long-continued hemorrhage, by wasting diseases, such as nephritis or tuberculosis, by malignant growths, malaria, lead-poisoning, improper or insufficient food, etc. A form due to the uncinaria or hook-worm common in southern latitudes is sometimes known as tunnel-workers', miners', or Egyptian anemia. The symptoms of secondary anemia of course vary according to the gravity of the anemia and the nature of its exciting cause, but the condition is usually amenab

8. In animal-breeding, and by analogy in plantbreeding, the peculiar character of an individbreeding, the peculiar character of an individual conceived as transmissible.—Avenger of
blood, the nearest relative of a man who had been
murdered, whose duty it was, according to the laws of
Moses, to seek out and slay the nurderer.—Black blood,
venous blood.—Blood line, a particular transmissible
character in an animal, or, analogically, in a plant.—
Blood quotient, the figure obtained by dividing the
amount of hemoglobin in a given quantity of blood by the
number of red blood-corpuscles in the same.—Full blood.
See *full-blood, n.—Laky blood. See *laky.—Red
blood, arterial blood.

blood, v. II. trans. In leather-coloring, apply a coating of blood to, in order to obtain a good black. Modern Amer. Tanning, p. 110. bloodberry, (blud'ber'i), n. A name in the West Indies of the rouge-berry, Rivina humilis. Also called cavs-blood.

blood-bird (blud'berd), n. An Australian honey-eater, Myzomela sanguineolenta: so called from the red color of its plumage.

blood-blister (blud'blis"ter), n. An effusion of blood-stained serum beneath the epidermis, forming a blister-like elevation.

blood-bond (blud'bond), n. The tie of consanguinity or blood-relationship.
blood-brother (blud'brufffer), n. 1. A brother by birth.—2. One who has become a brother by the ceremony of mutual mingling of blood, as among the American Indians and others.

blood-brotherhood (blud'brufffer-hud), n. A bond between two or more persons made sacred by the mingling of their blood: a primitive custom symbolic of the establishment of bloodrelationship.

blood-carrier (blud'kar"i-er), n. In a view of primitive society in which descent is reckoned in the maternal line, the female, through whom blood-relationship is established and reckoned.

The confinement of their display to the recognized The commement of their display to the recognized blood-earriers of the clan strests, perhaps more clearly than any other phenomena thus far noted, the strength of that semi-instinctive feeling expressed in maternal organization.

Smithsonian Rep., 1900, p. 62.

blood-clam (blud'klam), n. Anark-shell, Arca Noz, whose blood contains some red corpuscles.

See blood-quahog, under quahog.

blood-count (blud'kount), n. A determination of the number of red and white cells in a given quantity of blood, and also of the relative numbers of the different varieties of white cells: this latter is called the differential bloodcount.

blood-crisis (blud'kri'sis), n. A sudden inva-sion of the circulating blood with red cells from the bone-marrow, many of which are nucleated: observed at times in cases of anemia where marked regenerative processes are go-

blood-cyst (blnd'sist), n. In embryol., one of the cysts, or islets of Reil, which early make in the vascular area of the vertebrate embryo, and which give rise to the blood-corpuseles and to the walls of the embryonic blood-vessels.

blood-drop (blud'drop), n. A red worm, especially Enoplobranchus sanguineus or Polycirrus blood-vein (blud'vān), n. A British collectors' eximius, which is contractile into a red spot: namefer a geometrid moth, Timandra amataria, S. - 10

found living on muddy bottoms as well as on

wind-poppy, Paparer heterophyllum crassifo-lium, bearing many small red flowers: found in California.

blood-dust (blud'dust), n. Minute granules floating free in the blood-plasma. Their origin is unknown, as is also the function, if any, which they perform in the economy. Also called hemoconia. blood-eagle (blud'ē"gl), n. The lungs, liver,

etc., when torn by a conqueror out of an enemy's body. *Tennyson*, The Dead Prophet. blood-elder (blud'el'der), n. See *elder's. blood-feud (blud'fūd), n. A feud arising from vengeance for a murder. See *vendetta.

worms: usually a parapodial, sometimes a eephalic, structure.—2. pl. Iu entom., those gills in aquatic and subaquatic insects, as trichopterous larvæ and the larvæ of Eristalis and eertain other Diptera, which are not provided with traches and to and from which the blood flows directly. A. S. Packard, Text-book of Entom., p. 475.

blood-gland (blud'gland), u. In Mollusca, a eellular structure, in the course of the circula-tion, supposed to have a blood-forming func-

blood-groove (blud'gröv), n. A groove eut into the head, and sometimes in the shaft, of an arrow or spear, supposed to increase the flow of blood from the wound made by the weapon.

Arrowheads and spears, many of them carriously barbed and twisted, and some showing a knowledge of the value of the "blood-groove." Geog. Jour. (R. G. S.), X. 156.

bloodied (blud'id), p. a. Bloody; stained with

After him came spurring hard A gentleman, almost forspent with speed, That stopp'd by me to breathe his bloodied Shak., 2 Hen. IV., I. 1.

blood-leaf (blud'lef), n. See Iresinc. blood-lily (blud'lil-i), n. A name given to plants of the genus Hæmanthus, especially those with red flowers, as H. coccineus and H. puniccus. See Hæmanthus.

Blood-lye salt. See *salt1.

blood-money, n. (c) A percentage of the earnings of compositors working on profitable piece-work exacted for the benefit of brother workmen on less profitable work: practised in a few newspaper houses only, and almost obsolete. [Slang.]

bloodnoun (blud'noun), n. [Also bloodynoun; < blood 'n 'ouns, orig. blood and wounds, a pro-fane exclamation, used vaguely in nursery narratives, like raw head and bloody bones, and fe-fi-fo-fum, to express something fearful. The **blow1**, n. hoarse croaking of a bullfrog suggests the like.] A local name of the bullfrog, Runa catesbiana. [Southern U. S.]

blood-orange (blud'or'anj), n. See orange1. blood-plant (blud'plant), n. Same as *blood-See also Humanthus.

blood-plastid (blud'plas"tid), n. or specialized evtoplasmic partiele, supposed to give rise to a non-nucleated blood-corpuscle. Smithsonian Rep., 1890, p. 430. blood-rain (blud'rān), n. See rain¹, 2.

blood-revenge (blud're-venj'), n. The avenging of the murder of a man by his next of kin, in accordance with the ancient custom of demanding a life for a life. Also called bloodvengeance.

blood-sign (olud'sin). n. A tattoo-mark or other mark by which members of a consanguineous group are recognized.

The restriction of the painted symbols to the females and the especially conspicuous use of them by matrona betoken the strength and exclusiveness of that sense of maternal descent which is normal to the lowest stage of culture; the devices are at once blood-signs, definite as the face-marks of gregarious animals, and clan-standards, significant as tartan or pibroch; and the confinement of their display to the recognized blood-earriers of the clan attests, perhaps more clearly than any other phenomena thus far noted, the strength of that semi-instinctive feeling expressed in maternal organization.

Smithsonian Rep., 1900, p. 62.

blood-snow (blud'sno), n. The red snow of the arctic regions, due to the growth of a minute alga, Sphærella nivalis.

occurring throughout Europe and northern and and under oysters.

western Asia.

blood-drops (blud'drops), n. A variety of the bloodweed (blud'wed), n. Same as blood-

Jlower, 2.

bloodwood, n.—Norfolk Island bloodwood, a small tree of the spurze family. Balouhia lucida, found in eastern Australia, Norfolk Island, and New Caledonia. The bloodred sap which oozes from the trimk, when wounded, forms, without any admixture, a red indelible pignent, formerly used for marking bags, blankets, and other articles. Its wood is fine and close-trained and of a light reddish-brown color. Also called scrub or brush bloodwood. Same as Norfolk Island ★bloodwood. Yellow bloodwood, a tree of New South Wales. Evenlyptus eximia, which yields a kino (whence the name) and a soft, light-colored wood, having very lasting properties when kept under water.

vengeance for a murder. See vendetta.

The benefits accruing to trade by the settlement of bloods fends.

Geog. Jour. (R. G. S.). XVI. 53.

Bloody angle. Same as *death-angle. bloomage (blö'māj), u. The blossoms bloom of a plant or area taken collectively. The blossoms or blood-frenzy (blud'frenzi), n. An irresistible mania for the shedding of blood.

blood-gill (blud'gil), n. 1. A branchial organ containing blood-vessels, found in some sea-

"Well, let me tell you," said Goldsmith, "when the tailor brought home my bloom-coloured coat, he said, 'Sir, . . . when anybody asks you who made your clothes be pleased to mention John Fillby."

Irving, Oliver Goldsmith, p. 248.

Bloomeria (blö-mē'ri-ä), n. [NL. (Kellogg, 1863), named in honor of H. G. Bloomer, a pioneer botanist of California.] A genus of plants of the family Liliaceæ, closely allied to Hookera, from which they differ by having the Hookera, from which they differ by having the perianth parted nearly to the base. There are only two species, B. crocca (B. aurea of Kellogg) and B. Clevelandi, natives of southern California. They have a fattish corm covered with fiber; the leaves are slender and grass-like; the scape is slender but stiff, and from 6 to 18 inches high; the flowers are nearly rotate, less than an inch across, and orange in color. They are sometimes seen in choice gardens.

blooming-rolls (blö'ming-rolls), n. pl. The rolls in which ingots are broken down to rolls in which ingots are broken down to blooms. Lockwood, Diet, Mech. Eng. Terms. blotch, n. 4. In bot., a disease of fruit or leaves, which cause the formation of spots, usually black in color.—Seety blotch of the apple, a disease of the apple doubtfully attributed to Phyllachora pomigena. blow, r. t. 11. In the tobacco industry, to sprinkle lightly with water before sweating: a disapproved practice.

a disapproved practice.

The to hacco is frequently blown, that is, lightly sprinkled with water, etc. $U.\ S.\ Dept.\ Agr.,$ Farmers' Bulletin No. 60 (1898), p. 5.

C. S. Dept. Agr., Farmers' Bulletin No. 60 (1898), p. 5.

To blow out. (c) In a high or shaft furnace, such as a blast-furnace for smelting iron from an ore, to stop the production of metal. It is done by gradually impoverishing the charges at the top by diminishing the proportion of ore and flux to fuel, until the furnace stops running iron and slag and contains only ashes and partly burned fuel. The blast can then be gradually reduced and finally shut off and the furnace left to cool. If the blast were shut off and cooling allowed to occur with normal charging, the contents would chill solid, and the furnace could be emptied only by blasting.—To blow the gaff, to beraya e confidence: disclose a secret. Maryat, Peter Simple, xhiii. [Naut. slang.]—To blow the grampus, to souse or drench one, especially a dawdler or a shirk, with water.

5. Boastfulness; blowing: as, mere blow. [Slang.]—After-blow, that period of the basic Bessemer operation for the manufacture of steel in which the phosphorus is being burned and after the carbon has heen burned. In the acid Bessemer process the operation is ended when the carbon is eliminated from the bath. In the basic process, however, the phosphorus is not oxidized until after all of the carbon, which in turn follows manganese and silicon. In the basic in turn follows manganese and silicon. In the basic Bessemer operation, atmospheric air is blown through the bath until the manganese, silicon, and carbon have been oxidized and eliminated from the pig-iron. This period constitutes the 'fore-blow' and is not very different in character from the total blow of the acid Bessemer. process. In the basic process, however, the fore-blow is followed by an after-blow, which continues for a stated length of time and during which the phosphorus is oxidized and passes into the slag.

blow³, n.—Body blow. (a) In boxing, a blow upon the body. (b) In billiards, a stroke in which the player, losing confidence, not simply lifts his shoulder, but also throws his whole body at the ball in essaying a 'draw' or 'spread.'

blow-can (blo'kan), n. In foundry work, a combined can and spraying-tube used in sprinkling liquids on a mold; a spraying-can. blower-nozle (blo'er-noz"), n. 1. A blast-nozle; the end of a blast-pipe.—2. An orifice for measuring a blast; a hole in a flat plate or a hole with its edges curved to form a nozle, used to insure a constant cross-section to the stream of gas or vapor flowing through the

blower-room (blo'er-rom), n. Naut., a compartment in a ship containing forced-draft blowers or ventilating blowers.

blow-fish (blo'fish), n. The wall-eyed pike, Stizostedion vitreum.—Spiny-back blow-fish, a common name of one of the puffers, Spheroides marmo-

5. Ar. orifice on a rocky coast blow-hole. n. connected with a passage which gives access to the waves. When a heavy roller dashes into the latter it spouts from the blow-hole.

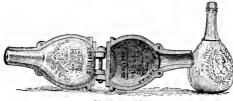
The cliffs are cut into numberless narrow inlets, and their summits are often completely bare of vegetation for some distance from the sea. *Blow-holes* are very numerous, and several columns of spray rising high above the trees may often be seen at once. *Geog. Jour. (R. G. 8.), XIII. 25.

blowing-bottle (blo'ing-bot l), n. In ceram., an apparatus for distributing color over the ware as a background for decoration; an atomizer. See blowing-pot, Mocha *ware. and *dip-

blowing-cone (blö'ing-kön), n. driblet-cone directly connected with a subterranean molten lake from which there is much The incessant explosion and gas escaping. The incessant explosion and escape of the vapors often produces a noise resembling the blowing of steam. Dana, Manual of Geol., p. 279.

blowing-machine, n. 2. In hat-making, a machine for cleaning and separating the line hair of fur-bearing animals, such as rabbits, hares, etc., and preparing it for making felt. etc., and preparing it for making felf. It consists essentially of a long chamber of which the sides are formed of line wire netting and which is fitted with a series of rotary beaters. The raw hair cut from the skin is fed to the machine under a heavy air-pressure, and under the blast, aided by the beaters, is torn apart, cleaned and separated, and reduced to a cloud of loose hair ready to be blown through pipes to the forming-machine. See forming-machine.

blowing-mold (blō'ing-mōld), n. In glass-manuf., a metal mold or box in two or more



Blowing-mold.

parts, hinged together, in which bottles or other hollow objects are blown.

blow-lamp (blo'lamp), n. A hand-terch; a portable torch used for heating a small spot on any material. Naphthais the fuel generally used: it is vaporized by the heat of the burner itself and forced through the orifice of the latter by vapor-tension of air or

Blow-off valve. Same as blow-off cock (which

see, under blow-off).

blow-out, n. 2. A recess or hollow in a sand-dune formed by the action of the wind in carrying away the lighter particles. A false blow-out may be formed by the wind carrying forward and depositing a mass of sand so as to leave a hollow region. Blowouts are usually formed in the rear of an obstacle by the action of the wind as it curves around behind it.

It sometimes happens that settlers (in the sand-hill region) a few years after breaking their land find a field transformed into a big blow-out.

P. A. Rydbery, Contrib. U. S. Nat. Herb., 111. 135.

3. In elect., a device for blowing out by an airblast, a magnetic field, etc., the arc formed in plast, a magnetic field, etc., the arc formed in opening an electric circuit.—Blow-out grass, one of several grasses characteristic of blow-outs in the Nebraska sand-hills. The blow-out grasses are: Redfieldia flexuosa and Muhlenbergia panquens (the most abundant, found almost exclusively in blow-outs); Eriocoma cuspidata and Eragrostic trichodes (less abundant); Stipa comata and Calamovilfa longifolia (bunch-grasses, growing also in other situations). Pound and Clements.

blowpipe¹, n. 3†. A blast-pipe or blower-pipe; hence the steam-pipe for a steam-blast.—Rlow-

blowpipe¹, n. 3f. A blast-pipe or blower-pipe; hence the steam-pipe for a steam-blast.—Blow-pipe bamboo, furnace. See *bamboo, *furnace.—Oxyacetylene blowpipe, a piece of apparatus similar in general character to the oxyhydrogen blowpipe, but serving to burn a nixture of oxygen with acetylene instead of hydrogen, and thus producing a much higher temperature. Special precautions against explosion are necessary in the construction of the instrument, which has been found valuable in the autogenic soldering of iron and steel.

blow-torch (blo'tôrch), n. An apparatus for applying heat to a small area; a small portable heater. See gasolene *torch.

ble heater. See gasolene *torch.

Bloxaming (blek'sam-ing), n. A method ef obtaining a smoothed series or smooth curve from a series of irregular observed values and thus detecting any regular periodicity that may be concealed in those values: introduced into English meteorology by John C. Blexam in 1858, but used in medified forms by many others previously. Bloxam adopted the rule that the mean value of 9 or 11 consecutive days gives the normal value for the central date more accurately than the identical value observed on that date. If, therefore, one desires the normal mean temperatures for a series of days, he takes the sums and means for consecutive decads, 1-10, 2-11, 3-12, etc. The dates for these mean values are, therefore, for the first mean 5½, for the second mean 6½, etc. Having carried this process through the whole year, the resulting series of mean decadal daily values is treated again in the same way, so that the new decadal values belong to dates that are whole numbers, such as 5, 6, etc. This process is repeated until the resulting values constitute regularly increasing and decreasing quantities for dates that represent whole numbers, and accidental irregularities are smoothed out. Bloxam states that by repeating the process twenty-two times the annual curve of temperature at Newport, England, was reduced to one line of constant ascent and one of common descent. Usually two or four repetitions are sufficient for climatological studies; but the great labor involved in the process, and the absence of any clearly defined theoretical basis, make the harmonic analysis preferable to this numerical method.

B. L. S. An abbreviation of Bachelor of Library

B. L. S. An abbreviation of Bachelor of Library

blubber-guy (blub'èr-gī), n. A device, pecuwhaling-vessel, consisting of a stout rope secured between the two forward masts, having a tackle hooked into it: employed for turning the whale over as it is stripped of its

blubber-hook (blub'er-huk), n. In whaling, a hook used to remove and handle a whale's blubber.

In boarding the blubber-hook is detached.

Fisheries of the U. S., aer. 5, 11, 28.

Fisheries of the U. S., aer. 5, 11. 28. blue. I. a.—Blue ash, baby. See *\(\alpha \) that y.—
Blue band, a band of fee in a glacier which owes its blue color to the absence of air-bubbles. Dana, Manual of Geol., p. 243.—Blue butter. Same as mercurial ointment (which see, under ointment.—Blue *\(\alpha \) call.

*\(\alpha \) tagon, *\(\alpha \) tagon butter. See the nouns.—Blue iron earth. See vivianite.—Blue lead. See *\(\alpha \) tage ded z.—Blue line, a bluish discoloration of the edge of the gums present in chronic lead-poisoning.—Blue oil, oxid, powder, sit-yer. See *\(\alpha \) the tage the deep sea.—Blue ver. See *\(\alpha \) the third circle of the target, which is now usually colored blue. See \(target \), (a) An arrow which hits

blue. See target. (b) An arrow which hits this circle; a hit in the blue. By the present this circle; a hit in the blue. By the present method of scoring, such a hit counts 5.—Acetin blue, Same as spirit-soluble induline.—Acid alizarin blue, a mordant acid coal-tar color derived from anthracene. It is rendered extremely fast when subjected to an after-chroming.—Acid blue. See *acid-blue.—Alizarin blue, a mordant dyestuff derived from anthracene, which dyes chromium mordanted wool a very fast blue. It is a di-hydroxy-anthraquinone-betaquinoline, and is sold in the form of a paste.—Alizarin blue powder, a sulphonic-acid derivative of alizarin blue.—Alizarin ndigo blue, a mordant dyestuff derived from anthracene. It is the sodium bisulphite compound of penta- and tetra-hydroxy anthraquinone-quinoline. With a chromium program tit praduces a color similar to indigo blue. sold in the form of a paste.—Alizarin blue,—Alizarin indigo blue, a mordant dyestuff derived from anthracene. It is the sodium bisulphite compound of penta- and tetra-hydroxy anthraquinone-quinoline. With a chronium mordant it produces a color similar to indigo blue.—Alpine blue, an acid coal-tar color of the triphenyl-methane-carbinol sulphonic-acid type.—Azindone blue. Same as *indanine.—Azoinphenyl blue. Same as *spirit-soluble induline.—Azodiphenyl blue. Same as *spirit-soluble induline.—Azodiphenyl blue. Same as *spirit-soluble induline.—Azonavy blue. Same as *doluce.—Basel blue, a name given to two basic coal-tar colors of the azonium chlorid type, of similar constitution. They give a bright blue.—Basel blue S, an acid *color produced by the sulphonation of Basel blue.—Bengal blue. Openations of the azonium chlorid type, of similar constitution. They give a bright blue.—Basel blue S, an acid *color produced by the sulphonation of Basel blue.—Bengal blue. Same as *doluce.—Benzal blue. Same as *doluce.—Benzal blue. Same as *doluce.—Same as *doluce.—Same as *doluce.—Same as *doluce.—Same as *doluce.—Benzal blue. Same as *doluce.—Benzal blue, a basic coal-tar color of the oxazin type which dyes tannin-mordanted cotton a bluish green.—Celestine blue, a mordant coal-tar color of the oxazin type, derived from gallocyanine. It dyes chromium-mordanted wool a bright blue. Same as *doluce.—Chlorazol blue, a mane given to several direct cotton coal-tar colors of the diazo type, derived from benzidine, tolnidine, or dianisidine. They dye mmordanted cotton relight blue. Same as *dornie. Relight series as *doluce.—Chlorazol blue, a direct cotton coal-tar color of the diazo type, derived from benzidine, which dyes unmordanted cotton hunc in a salt bath.—Chlumbia blue R and G.—Cresyl blue, a basic coal-tar color of the oxazin type bu

hiling indigo.—Diamine new blue G and R, direct coton coal-tar colors which dye unmordanted cotton a duliblue in an alkaline salt bath, and unmordanted wool blue or dull blue in a slightly acid salt bath.—Diamine pure blue. Same as diamine **λείρελει».—Diamine pure blue, a man alkaline salt bath.—Diamine blue, a direct cotton coal-tar color of the diazo type which dyes unmordanted cotton blue in a salt bath.—Diamisldine blue, a reddish-blue ingrain color of the insoluble azo type. It is formed when cotton material prepared with sodium β-naphtholate is passed through a cold solution or printed with a cold paste of diazotlzed dianisidine in the presence of a copper salt. It is fast to washing and fairly fast to light and chlorin.—Diazot blue. Same as of the diazot type Diazot blue, a direct cotton coal-tar color the diazot type blazot blue, a direct cotton coal-tar colors of the diazot type the treatment of the diazot type derived from coal-tar colors of the diazot type derived from dianisidine. They dye unmordanted cotton blue in a salt bath.—Direct blue R, a direct cotton coal-tar color of the diazot type, derived from toluidine. It dyes unmordanted cotton violet-blue in a salt bath.—Direct blue R, a direct cotton coal-tar color which dyes unmordanted cotton blue in an alkaline bath.—Direct blue R, a direct cotton coal-tar color which dyes unmordanted cotton blue in a salt bath. An after-treatment with copper sulphate renders the blue faster but duller.—Fast marrine blue GM, MM, and RM. Same as the new *blues.—Fast new blue same for a light, greenish blue.—Ere blue, a mordanted cotton blue, a mordanted cotton blue, a mordanted cotton blue, a salt bath.—Bigoland blue, Same as *pion-blue.—Glovin blue, God, and the color of the azonium chlorid type which dyes unmordanted cotton blue in a salt bath.—Bigoland blue, Same as *pion-blue.—Flowin blue, a mordanted cotton blue, a neath salt.—Indamine blue, a macid coal-tar color of the azonium chlorid type.—Indoin blue, a basic coal-tar color of the azonium chlorid type.

Then followed the Yunglo period (1408 to 1424), during which much white porcelain, with ornamentation in blue under the glaze, was manufactured. The blue employed in these perioda is said to have been brought from some Mohammedan country as tribute, and hence was known as "Mohammedan blue,"

Sci. Amer. Sum. Feb. 28, 1903, p. 22,711.

Sci. Amer. Sup., Feb. 28, 1903, p. 22,711.

Sci. Amer. Sup., Feb. 28, 1903, p. 22,711.

Molybdenum blue, a blue pigment composed of the diaxid and trioxid of molybdenum.—Naphthalene blue, an acid coal-tar color which dyes wool blue in an acid bath.—Naphthalene blue R. Same as new blue.—Naphthalene blue B. Same as new blue.—Naphthalene blue in an acid bath.—Naphthyl blue, an acid coal-tar color prepared by sulphonating milling blue.—Naphthyl blue 2B, a direct cotton coal-tar color of the diazo type, derived from diamino-diphenic acid. It dyes unmordanted cotton blue in a sait bath.—Naphthyl-lene blue. Same as new blue.—New blue B or G, a basic coal-tar color of the oxazin type, prepared by condensing new blue R with dimethyl-paraphenylene-diamine. It dyes tannin-mordanted cotton a fast deep blue.—New fast blue, a basic coal-tar color of the oxazin type. It dyes tannin-mordanted cotton blue.—Night blue. (d) A coal-tar color, the hydrochlorid of tetramethyl-tolyl-trianido-diphenyl-naphthyl-carbinol, used in dyeing silk, wool, and cotton goods: so named on account of the pur-

ity of the color by artificial light.—Nile blue, the names by which two similar basic coal-tar colors of the oxazin type are known. They dye tannin-mordanted cotton a greenish blue.—Oxamine blue, a name applied to several direct cotton coal-tar colors. They dye unmordanted type are known. They dye tannin-mordanted cotton a greenish blue.—Oxamine blue, a name applied to several direct cotton coal-tar colors. They dye unmordanted cotton blue in a salt bath.—Paraphenylene blue, a basic coal-tar color of uncertain constitution.—Patent blue, an acid dyestuff, related to triphenyl-methane, similar in constitution and properties to cyanol blue.—Pedican blue, a deep, greenish blue. See peacock-blue.—Pedican blue, Same as spirit-soluble induline.—Phenylene blue. Same as sepirit-soluble induline.—Phenylene blue. Same as sepirit-soluble induline.—Phenylene blue. Same as see blue, a blue produced on wool by using logwood and potassium ferrocyanide.—Powder blue, a blue pignent consisting of smalt ground to a very fine powder.—Printing blue, same as spirit-soluble induline.—Soudder's blue, an American lycanid butterfly, Rusticus soudderi, occurring in Canada and the northeastern United States. Its larva lives on wild lupine.—Sèvres blue, Same as *bleu de Serres.—Silvery blue, an American lycanid butterfly, Nomiades lygdamas, occurring east of the Mississippi. Its early stages are nuknown.—Solid blue. Same as water-soluble induline.—Spirit-soluble blue. Same as water-soluble induline.—Spirit-soluble blue. Same as water-soluble induline.—Spirit-soluble blue, same as antiline blue.—Tailed blue, an American lycanid butterfly, Everes computas, dark purplish violet in color, and of very wide distribution, leeding, in the larval state, on the flowers of clover and other leguninous plants.—Vienna blue, one of the cobalt blues.—Zambosi blue, a direct cotton coal-tar color. It dyes unmordanted ootton in a sait bath a blue which is rendered faster by anbsequent diazotizing and developing.

blueback n. 5. The lake-herring, Argyrosomus artedi, of the Great Lakes.—6. A bank-note of the Confederate States. Compare greenback.—Michigan blueback, the lake-herring, Argyrosomus artedi. [Lake Michigan.]

Argyrosomus artedi. [Lake Michigan.]
bluebell, n.—California bluebell, the baby-blueeyes, Nemophila insignis.—Peruvian bluebell, a robust
herb of the potato family. Physatodes Physatodes, with
nodding blue flowers, cultivated and adventive in the
United States; the apple of Peru.—Tasmanian bluebell, a alender, graceful plant of the campanula family,
Cervicina marginata (Campanula marginata of Thunberg), bearing blue flowers. Also cultivated under the
name of Australian harebell.
blueberry n.—2. In Australia. (All The Sec. 1)

blueberry, n. 2, In Australia: (a) The fruit of the blueberry-tree, or the tree itself. (b) The berry-like fruit of *Dianella lævis*, of the

lily family.

blueberry-ash (blö'ber-i-ash), n. See *ash1 blueberry-root (blö'ber-i-röt"), n. The rhizome and rootlets of the blue cohosh, Caulophyllum thalictroides. Also called papoose-root (which see) and squawroot.

See Adsh. In psychol. optics, standard and squawroot.

Standard And Andrew Blue and a badge of the blue cohosh, Caulophyllum thalictroides. Also called papoose-root in trap-shooting.

Superficient Andrew Blue and a badge of the blue cohosh, Caulophyllum thalictroides. Also called papoose-root in trap-shooting.

Superficient Andrew Blue and a badge of the blue cohosh, Caulophyllum thalictroides. Also called papoose-root blue-rock, n. 2. A dark-blue clay pigeon used in trap-shooting.

Superficient Andrew Blue and a badge of the blue cohosh, Caulophyllum thalictroides. Also called papoose-root blue-rock, n. 2. A dark-blue clay pigeon used blue-rock, n. 2. In psychol. optics, blue-sighted (blö'sit-ed), a. In psychol. optics, blue-rock and called papoose-root blue-rock and called papoose-ro

blueberry-tree (blö'ber-i-trē), n. The palberry, Myoporum serratum. Also called cockatoo-bush, native currant, and native juniper. See *pulberry. [Australia.]
blue-black, n. 3. In making black leathers,

black which when finished is a jet-black on the grain side.—Alizarin blue-black, a name sometimes assigned to alizarin *black.—Blue-black B and R, acid coal-tar colors similar to *azo-black.—Diamine blue-black, a direct coal-tar color derived from benzidino which dyes manurdanted cotton a blue-black shade in an alkaline sail bath.—Diazo blue-black, a direct coal-tar color of the diazo type. It dyes unmordanted cotton in a salt bath, but for the best results subsequent diazotizing and developing are necessary.—Naphthol blue-black, an acid coal-tar color of the diazo type, prepared by combining a diazotized mixture of paranitraniline and anilne with amido-naphthol-disulpinonic acid. Also called naphthol black 12B.—Naphthyl blue-black, an acid coal-tar color similar to naphthylamine *black.

blue-blindness (blö'blind'nes). n. A supposed

blue-blindness (blö'blind"nes), n. A supposed form of color-blindness in which the subject is unable to distinguish the fundamental color blue. Stud. Yale Psych. Lab., VIII. 14. blue-blossom (blö'blos"um), n. The blue

myrtle or California lilac, Ccanothus thyrsifto-

bluebottle, n., 1. (b) pl. The grape-hyacinth,
Muscari botryoides and M. racemosum. See

Muscari. [Pennsylvania.]
bluebush, n. 2. A species of salt-bush, Kochia
pyramidata, belonging to the goosefoot family, native to southeastern Australia. It is a valuable forage-plant in times of drought.

blue-chat (blö'chat), n. An Anglo-Indiau namo

for a bird of the genus Larvivora.

blue-devil (blö'dev'il), n. The blneweed. Echium vulgare, a pest in the middle Atlantie States

blue-dyeing (blö'di-ing), n. The process of dyeing with indigo.

bluefish, n. 6. Girella cyarrea, a hæmuloid fish found in Australian waters.—Bermuda bluefish, a lahroid fish, Iridio radiatus, found from the Florida Keys and Bermuda south to Brazil: common in the West

bluegill (blö'gil), n. One of the largest of the sunfishes, Lepomis pallidus.

blue-grass, n.—Alkali blue-grass, the west American Poa juncifolia.—Apache blue-grass, the wire

bunch-grass. Agropyron divergens.—California bluegrass, the mutton-grass. Poa Fendleriana.—Canadian or fiat-stalked blue-grass, Poa compress.—Hungarian blue-grass, the velvet-grass Holens landtus.—Mountain blue-grass. Same as Apache *bluegrass.—Novada blue-grass, Poa nemoralis.—Seaside blue-grass, Poa macrantha, a species native on the sand-dunes of the Pacific coast, valued as a sand-binder and promising for forage.

bluehead (blö'hed), n. Same as blue *groper.

blue-jay (blö'jā), n. 1. See jay2.—2. See road *monkey.

blue-mope (blö'mōp), n. Same as bluebonnet, 1. blue-oil (blö'oil), n. A soft, semisolid mixture of paraffin crystals with heavy hydrocarbon oils, one of the commercial products from ozo-Indust. Chem., p. 26.

Bine-pigeon filer, one who steals lead pipes and the like.
[Thieves' cant.] cerite or mineral wax. Sadtler, Handbook of

blue-point (blö'point), n. Same as Blue Point ouster

blue-pointer (blö'poin''tèr), n. A shark, Isuropsis glauca, of the family Lamuidæ, found
throughout the Indian region. [Australia.]

Salva trutta

pendent Jewish order.

Calva trutta

pendent Jewish order. blue-poll (blö'pol), n. A trout, Salmo trutta

cambricus, found in rivers in Wales.

blue-print, n.—Electric blue-print machine, a machine in which the sensitized paper is exposed behind tracings to a series of electric lights instead of to sunlight.

blue-printing, n. 2. The process of printing on china in blue beneath the glaze (first employed by English potters about 1780), as distinguished from *black-printing.

bluer (blö'èr), n. One whose business it is to blue gun-metal, etc. Gentleman's May., XVII.

blue-ribbonism (blö-rib'on-izm), n. The wearing of a blue ribbon as a badge of adherence to total-abstinence principles; total abstinence.

blue-ribbonist (blö-rib'on-ist), n. A total abstainer who wears a blue ribbon as a badge of

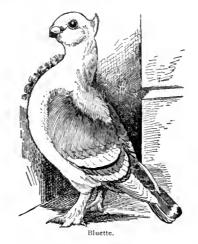
seeing as if through blue glasses. The eye which has become adapted to yellow (for example, to lamplight) is blue sighted when placed in the dark or in white light; it sees everything as if tinged with the complementary blue.

E. B. Titchener, Exper. Psychol., 1. i. 22.

blue-black, n. 3. In making black leathers, the foundation for the final color, a bluish black which when finished is a jet-black on the grain side.—Alizarin blue-black a name sometimes blue-top (blö'top), n. The buil-nettle, Solanum

elucaynifolium.

bluette (blö-et'), n. [blue + -ette.] A breed
of oriental frilled pigeons of small size and



plump form. The shoulders are clear, pale blue, and the tail blue with white spots or bands. The wing-bars are white, graduating into warm brown and edged with

into Texas in alkali soils and regarded as a pest, though its tubers are eaten by hogs and its foli-

though its tubers are eaten by nogs and its ionage, in dry seasons, by eattle. It is the camote del raton of the Mexicans.

bluey (blö'i), n. [blue + dim. -y².] 1. An Australian bushman's blanket: so called from the color.—2. The material of which the blanket called a bluey is made.—3. The bundle grayped my in a bluey corried by a bush dle wrapped up in a bluey, carried by a bushman when he sets out on a tramp. - 4. A rough

shirt or blouse made of bluey, worn over the coat in the wilderness of western Tasmania. To hump bluey, to go on the tramp, as in search of ork, carrying one's bundle wrapped in bluey.

bluf, a., n., and v. A simplified spelling of

bluff!, n. 2. An isolated group of trees on the prairie.

[Manitoba.]

bluing, n. 4. A disease of pine timber which causes it to assume a blue color. It is due to the pyrenomyeetous fungus, Ceratostomella pilifera

blunderhead, n. 2. A dipterous insect of the family Simulidae; a black-fly. [Local, U. S.] **B. M.** An abbreviation (b) of Backelor of Met-

allurgy; (c) of Bachelor of Music.

b. m. An abbreviation (a) of bay mare; (b) of bench-mark; (c) of board-measure.
B. M. E. An abbreviation (b) of Bachelor of

Mechanical Engineering.

B. M. S. An abbreviation of Bachelor of Medi-

pendent Jewish order.

B. N. S. An abbreviation of Bachelor of Natural

B. O. An abbreviation of Bachelor of Oratory.
boagan (bō'a-gan), n. [Manx, = W. bwgan, a
goblin: ef. boggard, bogle, etc.] One of the
'black spirits' or goblins which figure in Manx superstitiou.

[At an expected birth, men] hang up their hats over the staw to fright the boayanes.

Hall Caine, The Deemster, p. 13.

The boanthropy (bō-an'thrō-pi), n. [Gr. βοῦς, f ad- οχ, + ἀνθρωπος, man.] A form of madness in which the victim imagines himself to be an ox.

The exact form of the disease, which would be Boan-thropy, 1 have not found any notice of. (though) Arnold (on Insanity) suggests that such may have been meant by the story of the Proetidis in Virgil Ecl. Pusey, Daniel, Lecture VII. 427.

board, n. 15. In an Australian wool-shed, the floor on which the sheep are sheared; hence, the floor on which the sheep are sheared; hence, the shearers there. [Australia.]—Ballistic board. See *ballistic.—Board and board (naut.), side by side; in parallel courses.—Duplicate whist board, a beard or tray with 4 pockets, each capable of holding 13 cards, and so marked that one side of it will always be laid on the table to the north and each player will lead in turn: used for whist and bridge.—Pullers' board, the best grade of binders' board: not used extensively except in the very best bindings.—Perforated board, a thin pasteboard, perforated with small holes at regular distances apart, for embroidery and similar work.—Take-off board, in athletes, a bar or section of plank set in the ground from or behind which the running broad-jumper must jump.—To bid to the board. See *bid.—Trade board, in Great Britain, a permanent committee of employers and work-people in a particular trade, appointed for the consideration of matters affecting the interests of both aides, with a view to preventing atrikes and lockonts.

Voluntary trade boards, however (i.e., permanent joint boards representing employers and work-people in particular trades), are at once the most firmly established and the most important agencies in Great Britain for the prevention and settlement of labour disputes.

Eneyc. Brut., XXV. 550.

board, v. I. trans.—To board a card, to play a card if called for, as must be done when it is shown.—To board a tack, (natt.), to hant the lower corner of a course down to the deck, bumkin, or chess-trees.

II. intrans.—To board round, to board in turn at the different houses in a community: a custom to which school-teachers in country districts were in some places expected to conform, their board being charged against their hosts, who thus paid their portion of the achool

boarded (bor'ded), p. a. Specifically said of a eard that is played and cannot be taken

board-foot (bord'fut), n. The enbie contents of a board one foot square and one inch thick (144 cubic inches): used as a unit of measure in selling logs and lumber.

The unit of measure most commonly used in this country for selling logs and lumber is the board foot.

Woodsman's Handbook, I. 9.

blue-dicks (blö'diks), n. One of the wild hyacinths (brodiæas) of California, Hookera capitata. Its violet-colored clusters are much used for decoration.

are white, graduating into warm order and eagle and black.

blue-vat (blö'vat), n. An indigo-dyeing liquor.

blue-vat (blö'vat), n. An indigo-dyeing liquor.

blue-vat (blö'vat), n. An indigo-dyeing liquor.

blue-vat (blö'vat), n. In railroads, a ear fitted with bunks and a kitchen and dining-room, or designed either for lodgings or

for serving meals; used by the crew of a confor serving meals: used by the crew of a con-

struction-train or by a wrecking-erew.

boarding-gage (bor'ding-gāj), n. A simple device for keeping weather-boarding even in width: generally a board or strip with a notched. edge.

boardman (bord'man), n.; pl. (-men). A man who perambulates the streets carrying an advertising-board; a sandwieh-man.

board-measure (bord'mezh "ūr), n. In mensur., a cubic measure or measure of volume where in the unit is the board-foot.

The unit of board measure is the board foot, which is the contents of a board 1 foot square and 1 inch thick.

Woodsman's Handbook, L. 12.

board-room (bord'rom), n. 1. The room or office in which a board meets to transact business .- 2. In mining, the space excavated in mess.—2. In mining, the space excavated in driving a board. The term is used in connection with the "ridding" of the fallen stone in old boards when driving roads across them in pillar working. Also bord-room. Coul and Metal Miners' Pocket-book.

board-scale (bord'skal), n. Same as *hoard-

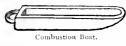
(bôr'di), a. Hard and non-flexible: **boardy** (bor'di), a. Hard and non-flexible: said of the wire teeth of eard-clothing when they become worn and stumpy.

bear-grunt (bōr'grunt), n. A food-fish, He-mulon sciurus, found in the West Indies. It is supposed by fishermen to be the male of the duller-colored species H. plumieri. [Key West.]

boarwood (bor'wid), n. The poison-sumac, Rhus Vernix. [Dismal Swamp region, Virginia.]

Boas-Oppler bacillus. See *bacillus. boat, n. 5. A narrow, shallow vessel of plati-

num or porcelain which serves to hold a substance that is to be subjected to ultimate



analysis, or to the action of gases, and which for that purpose is placed in a glass or porcelain tube.

Moissan illustrates the vaporization of carbon by heating the outside of a carbon tube containing a boat filled with silicon, with an are, and describes the formation of silicon carbide from the combination of the vapors of silicon and carbon.

Electrochem. Industry, August, 1904, p. 331.

6. A small device attached to each side of a loom for weaving a plain selvage in a fabric having a twill or figured weave.

By means of a contrivance known as a boat, a selvage approximating to plain cloth is readily obtained. Fox, Mechanism of Weaving, p. 482.

Automobile boat. See *autoboat. Boat log. See *log2.—Combustion boat. Same as *hoat, 5.—Folding boat, a collapsible boat used in the army for transporting men from one river-bank to another. These boats have a wooden keel and light wooden longitudinal ribs covered with water-tight canvas.—Loose boat, in whaling, a boat that has not succeeded in striking a

whale. The duty of a loose boat, if near by and not certain of a capture, is to keep within hailing distance of the fast boat.

Fisheries of the U. S., Ser. 5, II. 262.

Paddle-box boat, a boat of peculiar construction which when inverted, or turned upside down, forms the top section of a paddle-box on a paddle-wheel steamer.— Umbrella boat. See **umbrella-boat.*
boatbill, n. 2. One of the broadbills, Eury-

læmidæ, a group of perching birds characteristic of the Indo-Malayan region; in particular, Cymbirhynchus macrorhynchus. See eut under gaper.

boat-boom (bot'bom), n. A long boom projecting transversely from each side of a war-ship or a yacht at anchor in a harbor, with hanging pendants to which boats may be made fast. In the dants to which locate may be made last. In the days of sailing men-of-war the lower studdingsail-booms were used for this purpose; now special booms are fitted. Also called swinging-boom.

boat-car (bôt kir), n. A wheeled conveyance used in the life-saving service for facilitating

the lannching of boats.
boat-crane (bot krān), n. A rotary crane fitted on each side of a war-ship for lifting the heavier boats out of the water or lowering them into it, particularly the steam-launches and vedette-boats. Such cranes are usually supplied with steam or electric hoisting and turning apparatus. See cut under *battle-ship.

boat-nail (bôt'nāl), n. A form of nail, made of soft and duetile iron or steel and tinned, suitable for fastening the strakes or skin of a small boat to the ribs or along the seams. It must be capable of being effectively clinched in the wood of the strakes.

boat-pan (bot'pan), n. A pan of wrought- or cast-iron, shaped like a boat, used, in the Leblane process for making carbonate of soda, to boil down the crude tank-liquor.

boat-shell, n. 2. The common slipper-limpet or half-deck, Crepidula fornicata. [U. S.]

or nair-deek, Creputita formedia. [U.S.]

Boatswain's call, pipe, or whistle, a small whistle used
by a boatswain in giving signals.—Boatswain's chair
(nau'), a piece of board in the shape of a parallelogram,
or scup-seat, having a hole in each end through which a
short length of rope in the form of a bridle is passed, and
the ends knotted on the under side to prevent them from
pulling through. It is hoisted aloft by a whip, and is used

hoat-voke (bōt'vōk), n. A horizontal piece of wood or metal placed across the head of a boat's rudder. To each end of the yoke a line is secured, known as a *yoke-line*, by means of which the rudder is turned and the boat steered.

 \mathbf{bob}^1 , n. 14. A piece of clay placed beneath a vessel in a kiln. An old English name for bat1,

bob1, v. t .- 3. To transport (a load, as of logs) on a hob or sled

bobachi (bob'a-chi). u. [Hind. bāwarchī, popular bawarchī, illiterate bābarchī, prob. of Turkish origin.] A male cook. [Anglo-Indian.] bob-apple (bob'ap#1), u. The Hallowe'en pastime of 'ducking for apples' while they float in a tub of water, or trying to bite one as it swings from a string. See bob-cherry, bobbery-bob (bob'êr-i-bob"), interj. The An-

glo-ludian form of the Hindu exclamation of surprise, bapre bap ("O Father!"). See bobbery. bobbin-cradle (bob'in-krā'dl), n. A horizontal holder for a bobbin upon which is wound the yarn from the hank on a hank-winding machine. bobbin-lead (bob'in-led), n. In textile-manuf., the excess of the surface-speed of the bobbin over the speed of the spindle-flier on a roving-

bobbin-rail (bob'in-rāl), n. An iron bar or rail supporting the bobbins of a roving-machine.

bobbin-reel (bob'in-rel), n. In cotton-manuf., a machine for winding yarn from bobbins into hanks.

bobbin-wheel (bob'in-hwel), n. In textilemanuf., the principal gear in a series for driving the bobbin on a roving-frame.

bobble, v. i. 2. In golf, to run unevenly on a green: said of a ball. W. Park, Game of Golf, p. 202.

bobcat (bob'kat), n. A popular name for the bay lynx, Lynx rufus, and its various subspecies, all of which have short tails.

bobeche (bō-bāsh'), n. [F. bobèche, OF. bui-beche; origin unknown.] A glass disk or shal-low cup with a central perforation, made to surround the base of a candle or of a gas-light. In the latter case the glass is ground to diffuse the light.

To adapt this to microscopic work we add a 'bobeche' as used for Welsbach lights made of finely ground imported glass.

Science, April 3, 1903, p. 536.

bob-fly (bob'fli), n. In angling, an artificial fly attached to the leader above the stretcher-fly. Also called bobber, dropper, and drop-fly.

Bobierre metal. See *metal. bobierrite (bō-bi-ār'it), n. [Named after Bobicrre, who first described it.] A hydrated magnesinm phosphate from the guano of Mexillones, off the western coast of South America. bob-jerom (bob-jer'um), n. [Bob1, n., 10, + Jerome, a proper name.] A bob-wig.

What I say is, let everybody follow their nature; . . . and then if they pay every one his own, who 's a right to eall 'em to account, whether they wear a bob-jerom, or a pigtail down to the calves of their legs?

Miss Burney, Cecilia, ix. I.

bob-lever (bob'lev"er), n. A lever carrying a bob-weight. The bob-weight is used to balance one or more reciprocating parts on a machine.

bobo (bō'bō), n. [A W. Ind. use of Sp. bobo, a dolt, fool: see booby.] A species of mullet, Joturus pilchardi, found in the mountain torrents of the larger islands of the West Indies. It is characterized by the simple stomach and the coarse truncate incisors.

bobong (bō-bông'), n. [Bisaya bobong, Tagalog bobongan, the roof; bobong, cover, roof.] In the Philippine Islands, the roof of a building.

bob-runner (bob'run-èr), n. One of a pair of short runners placed on the arms of an axle instead of wheels, to enable a carriage or wagon to be used as a sleigh... [New Eng.]

bobtail, n. 5. In poker, a four-eard flush or straight

bobtailed, a. 2. In archery, gradually decreasing in diameter from the point to the nock: said of an arrow.

bocca2 (bok'ä), n. [Native name.] A name apof the dogbane family, Tabernanthe Bocca, which is planted about their villages for the sake of its medicinal roots. Compare *iboga.

by scamen to sit on while at work in the rigging where **bocon** (hō-kōn'), n. [Cuban use of Sp. bocón, a foothold is not obtainable, as when scraping down masts, wide mouthed power (hō-con mouth 1 A Civ. wide-mouthed person, \(\) boca, mouth. \(\] A Cuban name of a small anchovy, Anchoria cubana. \(\) bodenite (\) bô'den-it), \(n \). \(\) [Named from Boden, near Marienberg, Saxony. \] A silicate related to allanite, containing a relatively large amount of the yttrium and cerium metals. bodhi (bō'di), n. [Skt.: see Buddha.]

ledge; enlightenment: a term of Buddhism. bodhisattva, n. 2. Also, any religious teacher.

Bodianus (bō-di-a'nus), n. [NL., \Sp. bodian

= Pg. bodião, a sea-fish so called.] 1. A genus
of large labroid fishes of the West Indies, of numerous species, usually known by the later name of Harpe. B. rufus is the best-known species. -2. A genus of sea-bass, Serranidæ, of the warm seas, more properly called Cephalonholis.

Bodo (bō'dō), n. [NL. (Stein, 1878).] The typical genus of the family Bodonidæ: some-Bodo (bō'dō), n. times called the hooked or springing monad. bodock (bô'dok), n. Same as bodark.

Bodonidæ (bō-don'i-dē), n. pl. [NL. Bodo(n-) +-idæ.] A family of flagellate protozoans of the order Heteromastigidæ, consisting of small, naked forms in which there is little, if any, difference between the flagella. It contains the genera Bodo, Phyllomitus, Colponema, and Oxyrrhis.

body, n. 14. All the strapping of a harness back of the collar; specifically, that part of the breeching and other straps which bears against the horse.—15. In ceram., the substance or base of pottery and porcelain. See frit body, kaolinic *body.—16. An ore body, or pocket of mineral deposit.—17. The thickness of a lubricating oil or other liquid: also the measure of that thickness expressed in the number of seconds in which a given quantity of the oil at a given temperature flows through a given aperture. Coal and Metal Miners' Pocket-book.—Alloxur body. See *autoxur base.—Anti-immune body. See *autoxur base.—Anti-immune body. See *autoxur base.—Anti-immune.—Anti-intermediary body. See *autoxun base.—Anti-intermediary body. See *autoxun base.—Contral body, a term used to denote the aggregation of protoplasmic matter in the interior of many bacteris and blue-green algae. It is believed by some to represent a true nucleus.—Cornalian bodies. See *cornatian.—Directive body. See directive corpused and *polar body.—Fat body, in entom., a more or less lobulated or net-like mass of large cells filled with small drops of fat, covering parts of the viscera and liming the integument.—Guarnieri body, a protozoan parasite, Cytoryctes variotæ Guarnieri, thought to be the cause of smallpox and vaccinia.—Harting's bodies, granular concretions tity of the oil at a given temperature flows net-like mass of large cells filled with small drops of fat, covering parts of the viscers and lining the integument.—Guarnieri body, a protozoan parasite, Cyteryctes variotæ Cnarnieri, thought to be the cause of smallpox and vaccinia.—Harting's bodies, granular concretions of carbonate of lime obtained by allowing carbonic-acid sikalis to act upon albumin or other nitrogenous substances. This action has been said to explain the mode of formation of the shells of mollusks and protozoa.—Hassall's bodies, in histol., the remains of the epithchium which during embryologic development makes up the main portion of the thymus gland.—Hyaloid body. See *hyaloid.—Immune body. Same as *amboceptor. See **ammune.—Immunizing body. Same as *amboceptor.—Kaolinic body, a porcelain composition consisting largely of kaolin, as hard-paste porcelain.—Leishmann-Donovan body, asmall rounded or ovoid body, occurring singly or in groups of several, embedded in a matrix but not intracorpuscular, in tropical splenomegaly or kala-azar, and probably also in Oriental sore. Ross considers these bodies to belong to anew genus of Sporozoa and suggests for them the name Leishmannia donorani.—Lummer-Brodhun body, a device, used in certain photometers and spectrophotometers, for rectifying or rendering parallel the two beams of light to be compared. It consists of two rightangled prisms of glass cemented together so as to form a cube the diagonal section of which is partly cut away. See spectrophotometer.—Melon-seed bodies. Same as rice *bodies.—Mushroom body, in enton., one of two stalked and capped bodies arising from the procerebral lobe of an insect's brain, which resemble minute mushrooms. They are more highly developed in bees, ants, and wasps than in other insects, and it is therefore supposed that the intelligence of insects bears a direct relation to the size of these bodies.—Nissl or Nissl's bodies, in neurol., small bodies which are found in the cytoplasm of nerve-cells and which take on a deep stain with methylene blue.—Onion body, a

plied by the natives of French Congo to a shrub body-brace (bod'i-bras), n. 1. A brace which crosses a whole frame or one parallelogram of a frame diagonally from corner to opposite corner. See *brace1, 1 (b).—2. Specifically, from one end of the body center-plate of a long car to the middle of the car. Two braces, united to a compression-beam, form a truss built into the side of the car under the windows.

body-plasm (bod'i-plazm"), u. In biol., the substance of the body of an animal or plant, in contradistinction to the germ-plasm, or the ton Bay chestnut. Castanospermum australe. substance of the reproductive organs. Same

as soma¹, somatoplasm.

body-plate (bod'i-plāt), n. A shell-plate for a boiler located anywhere except in heads or a district in the Delta of the Nile, +-ic.] One

domes.

body-wood (bod'i-wnd), n. Cord-wood eut from those portions of the trunks which are clear of branches.

Boehmenism (bė'men-izm), n. The theosophical view of God and the world set forth by Jacob Boehme (1575-1624), a mystical German philosopher. He contemplated deity as "the eternal one, the silent nothing," from which nature proceeds as the expression of spiritual principles. He endeavored to show that material powers and moral forces are one, that evil is the manifestation of the wrath of God, and that good will finally be victorious. Also *Behmenism.

Boehmenist (bè'men-ist), n. One who follows the teachings of Beohmenism.

the teachings of Boehmenism. Also *Beh-

menist.

Boehmenite (be'men-it), n. A Boehmenist. Boethian (bō-ē'thi-an), a. Pertaining to or derived from Boethius, a distinguished Roman official, philosopher, and writer on music, who died about 524 A. D. Less correctly *Boctian.

Boetian (bō-ē'ti-an), a. Same as *Boethian.

Boettcher's crystals. See *erystal.

bog1, n.—Anchored bog, an originally floating bog which has become fixed by roots and rhizomes from its bottom or by growths from shore-plants into it, or by both, C. MacMillan.—Climbing bog, the rim of a normal bog, nourished at a higher level by the capillary elevation of water.—Emerged bog, a bog growing above water-level,—Floating bog, a natural floating island (see island1), named 'bog' from its morassic character.

In some of the lakes of Minnesota these floating bogs are very prominent features and constitute the so-called "floating islands."

C. MacMillan.

Immersed bog, a bog whose chief growth is below water-level.—Quaking bog, a bog whose matted, peaty growth has covered comparatively instable and treacherons ground that shakes under foot.—Sphagnous or sphagnum bog, a stagnant swamp with acid soil, characterized by the growth of sphagnum mosses; a muskeg. A deep swamp of this kind becomes at length a peat-bog.
boga² (bō'gà), n. [Sp.] A species of small fish of the genus Orestias, common in the waters of

Lake Titieaea in Bolivia and Peru. There are several species of *Orestias* In the lake, and they constitute the aquatic food of the inhabitants of those regions.

Bogardus mill. See ★mill1.

bogart (bog'art), n. See *boggard, 4. bog-birch (bog'berch), n. The Carolina buck-

thorn, Rhamnus Caroliniana. [Minnesota.] bog-burst (bog'berst), n. An outbreak or flow of peaty materials which are saturated with water, so that barriers no longer restrain them. Also bog-flow.

A discussion of bog-bursts, with special reference to the great outburst of a bog in the Killarney district in 1896, Geog. Jour. (R. G. S.), XI. 206.

bog-flow (bog'flō), n. See *bog-burst.
boggard¹, n. 4. The hellgrammite. [Loeal,
U. S.]
bogie², n. 4. Λ small wheelbarrow or box

upon wheels, made of light boiler-plate iron, used in the removal from the furnace of blackash in the manufacture of soda by the Leblanc process

Bogie, Colonel. See Colonel Bogic.

bogie-frame (bō'gi-frām), n. The pivoted or swinging frame under the front end of a locomotive; the truck-frame.

bogie-locomotive (bō'gi-lō-cō-mō"tiv), n. Same as bogie-engine.

bogie-spring (bō'gi-spring), n. One of the springs which are interposed between the truck of a locomotive and the parts supported by it, to take up the shocks and jars due to inequalities in the road.

Bognor beds. See *bed1.

bogong (bo'gong), u. [Native Australian.] An Australian noctuid moth, Agrotis spina, which occurs in enormous numbers in Vieton under pressure. toria, where the hibernating adults were eaten boiler-cement (bei'ler-se-ment"), n. by the aborigines.

bog-ore (bog'or), u. Same as bog-iron ore Bogoslovius (bog-ō-slō'vi-us), n. [NL., named from the volcanic island of St. John Bogoslof (Bogoslovň), near which the typical species was dredged.] A genus of macriroid fishes taken in deep water in Bering Sea. bog-slide (bog'slid), n. Same as *bog-burst.

in car-building, an inclined timber extending bog-torches (bog'tôr ches), n. The goldenclub. Orontium aquaticum: so called from the shape and color of its flower-stalk and flowers. See cut under Oronteum. Small, Flora Southeastern U. S.

ton Bay chestnut, Castanospermum australe. It yields a soft, fine-grained, beautifully figured, brown wood, which is not very durable. See black *bean (b).

of the main divisions of Coptic; the dialect of the coast district, spoken in the northwestern Delta of the Nile: formerly named Memphite (which see). Saludic and Bohairie are the most important dialects of Coptic. Since the fifteenth century the latter has been the language of the sacred books of Christianity throughout the country. Energe. Brit., XXVII.

boheic (bō-hō'ik), a. [Bohea + -ic.] Derived from Thea Bohea.—Boheic acid, a bibasic acid, C₇H₁₀O₆, obtained from black tea.

Bohemian, n. 6. As employed by the French geologists, the later deposits of Silurian time, from the fine development of these strata in the Bohemian basin: equivalent to Upper Silurian or to Silurian in its restricted sense.

bohio (bō-hē'ō), u. [Sp. bohio, bojio, from a native W. 1nd. name.] A West Indian hut; a thatched but of the kind used by the negroes

of the West Indies.

of the West Indies.

boil, ¹ n.—Aleppo, Delhi, oriental, tropical boil.

Same as Aleppo ulcer (which see, under ulcer).—Blind boil, a sluggish boil in which pus forms slowly and there is no slough or core.—Bulama boil [Ar. Bulama, island of W. Africal, a phlegmon caused by the presence of a worm or the larva of an insect beneath the skin.—Burmese boil, an endemic sore, probably of the same nature as the Delhi boil or Aleppo ulcer.

boil,2 n. 3. The period during which the carbon is being burned out of the iron in a puddling-furnace. During this period jets of burning carbonic oxid cover the surface of the bath. Lockwood,

Dict. Mech. Eng. Terms.

Diet. Mech. Eng. Terms.

boiler, n. 5. A small isolated reef or atoll below water. [West Indies and Bermuda.]

—Belleville boiler, a type of sectional boiler much used at one time in the British navy, in which the generating units are water-tubes of moderate diameter: named after its designer.—Double boiler, a cooking-utensil consisting of two metal or ghazed-wave vessels nesting one within the other. The larger vessel is partly filled with water, the smaller is put inside of it, and both are placed over the fire. The boiling of the water and the resulting partly inclosed steam cook the contents of the inside vessel without danger of burning from direct contact with the fire.—Drop-fine boiler, a boiler having flues coming in from the sides and joining a central flue which is open at the bottom. The hot gases come in the horizontal flues and descend the center, or drop, flue.—Elephant boiler, a horizontal cylindrical boiler having one or more shells below the main shell and connected to the latter by necks.—Elliptical boiler. (a) A roundended or oval-ended boiler. (b) A boiler whose cross-section is an oval or an ellipse.—Fleid boiler, a horizontal epiderical boiler these, the linner one for getting water to the lower end of the outer tube, in which the steam is generated. These tubes are either vertical or inclined. Hiscox, Horseless Vehicles, p. 47.—Flash boiler.

See *Alash-boiler.—Lancashire boiler, a horizontal eyiludrical boiler having two horizontal flues each containing a furnace. The combustion gases pass through the tlues and return to the front end along the outside of the shell, and then pass back underneath the shell.—

Multitubular boiler. (a) A boiler having a large number of small tubes for the hot gases to pass through. (b) A boiler made up of a number of tubes in which steam is generated; a water-tube boiler. Niclausse boiler, a type of sectional boiler which has been used in the British navy, in which the generating units are water-tubes of moderate diameter.—Oval boiler. Same as elliptical *b boiler, n. 5. A small isolated reef or atoll [West Indies and Bermuda.] steam-boiler, or a tension-rod running from end

ture of various substances, such as elay, magnesia, etc., which is used for covering boilers and steam-pipes to prevent or check the radiation of heat.

to end of the boiler to tie the flat surfaces together and prevent bulging or other deforma-

boiler-compound (boi'ler-kom/pound), n. Any substance used to prevent the formation of a hard scale in steam-boilers which use impure feed-water. As the impurities are of so many varieties, the boiler-compounds have to be adapted to each case. Some compound of soda is the most common ingredient of such mixtures.

boiler-felt (boi'ter-felt), n. A non-conducting covering for boilers, steam-pipes, etc., made of matted hair. In appearance it resembles

boiler-maker (boi'lèr-mā'kėr), n. 1. One who makes boilers; a boiler-smith. - 2. A petty officer in the United States navy.

boiler-palm (boi'ter-pam), n. 1. A pad or foot on a bracket which is used to fasten or support a boiler .- 2. The flattened end of a boilerstay, where it is enlarged to take the rivets; specifically, that part of the knee. bracket, or tension-stay which goes against the boiler and is fastened to it.

boiler-scale (boi'ler-skāl), n. A substance deposited on the surfaces of boilers which are in eontact with the water. This scale is due to impurities in the water precipitated as solids on heating, and is sometimes hard and difficult to remove.

boiler-smith (boi'ler-smith"), n A smith who

boiler-smith (boi'ler-smith"), n forges boiler-plates; a boiler-maker.

boiling-basket (boi'ling-bas "ket), n. primitive races, a water-tight basket in which liquids are boiled. Generally the contents are heated by means of red-hot stones which are thrown into the basket.

boiling-house (boi'ling-hous), n. A local West Indian term for the building, at a sugarmill, in which the cane-juice, expressed in the cane-mill, is boiled down to the syrup from which sugar is made.

Such of the negroes as are employed in the mill and boiling-houses often work very late.

Bryan Edwards, A Hist. of the Brit. W. Indies, 11, 160.

Boiling-point of the thermometer, (a) A small nick on the glass tube of the mercurial thermometer showing the observed height of the mercury when the instrument is wholly immersed in steam from boiling water. Formerly the bulb only was placed in boiling water, but now the whole instrument is immersed in the steam. (b) A scale-division near the above-mentioned nick, indicating the boiling-point under standard pressure of one atmosphere. (c) The thermometric temperature of standard boiling water or its steam, that is, 100°C., 80°R., or 212°F. (d) The correct reading of the thermometer immersed in steam from boiling water under some special low pressure, such as that on the summit of a mountain. This boiling-point depends directly on the atmospheric pressure and is utilized to ascertain the latter when the mercurial barometer is not available.

Boian graeiss. See *meries.

Bojan gneiss. See *gneiss.

boje (bo'hā), u. [Native name.] A name in Porto Rico of a rubiaceous tree, Antirhea coriacea, native to the West Indies. It furnishes a heavy, strong, durable yellow wood used for carpenter work, furniture, and the framework of houses. Also called quina.

B. O. L. An abbreviation of Bachelor of Ori-ental Literature.

bola (bō'lä), n. [Native name.] A name in Bengal of the mahoe or majagua, Pariti tilia-

belgat of the mattoe of majagua, I and t majagua, I, bolboporite (bol-bō-pō'rīt), n. [NL., \langle Gr. β 6 λ β 0 ζ , a bulb, + π 6 ρ 0 ζ , a pore, + -ite².] One of certain fossil bodies found in the Silurian rocks of Russia, Canada, and New York, inversely conical or clavate in form, and laving the narrower end smooth but the broader pitted. They have been regarded by some authors as corals, and probably some of the bodies to which this name has been applied are of this nature; but the affiliations of the typical bolboporites are still dubious, though their microscopic structure is very similar to that of the test of the Echinodermata.

Bolderian stage. See *stage. boldoin (bōl'dō-in), n. [boldo + -in².] Same as boldine.

bole2, n. 3. In medieval and early Renaissance art, an earthy paste added over gesso as a ground for tempera painting and gilding.

Directly on this, and without the usual preparation of bole, gold leaf was laid over the whole surface.

Burlington Magazine, VI. 89.

Boleichthys (bō-lệ-ik'this), n. [NL., \langle Gr. β o λ $\dot{\eta}$, a throw, $+i\chi\theta$ i \dot{r} \dot formis.

boleite (bō'lē-īt), n. [Bolco (see def.) + -itc².] An oxychlorid of lead, copper, and silver, oecurring in deep-blue cubic crystals and related

to percylite; found at Boleo, Lower California. **Bolelia** (bō-lē'ti-ā), n. [NL. (Ratinesque, 1832), an anagram of Lobelia.] A genus of dicotyledonous plants of the family Campanu-

Hereby Redonous phants of the family Campunalaceæ. See Downingia. **Boleosoma** ($b\delta^a | \bar{e} - \bar{\phi} - s\bar{b}' m \bar{a}$), n. [NL., irreg. $\langle Gr. \beta \delta \lambda n$, a throw, $+ \sigma \bar{\omega} \mu a$, body.] A genus of tessellated darters, small quick-moving fishes of the brooks of the eastern United States. B. olmstedi is the best-known species.

bolero, n. 3. A short jacket, ending about bolster-wagon (bōl'ster-wag"on), n. A form three inches above the waist-line: originally in imitation of the Spanish jacket, but now The body is hung on side-bars the ends of hung on side-bars the ends o made in many fashions, and trimmed either simply or with extremely elaborate ornament. boletoid (bộ-lẽ toid), a. [Boletus + Like or pertaining to the genus Boletus. [Boletus + -oid.]

Boliche furnace. Same as Spanish furnace. bolivar, n. 2. A large ginger-cake. [U. S.] Bollmannia (bol-man'i-à), n. [NL., from C. H. Bollman, an American scientist.] A genus of goboid fishes inhabiting the depths of the tropical Pacific, typified by the species B. chlamydes.

bollo ($b\bar{o}l'\bar{o}$), n. A brick of amalgamated silver ore, so shaped that six bricks form a circular cake with a hole in the center to allow the mercurial vapors to escape during the distillation process.

boll-weevil (bol'we-vl), n. See cotton-boll *weevil.—Mexican boll-weevil. Same as *cotton-boll weevil.

bolo (bō'lō), n. [Bisaya bolo.] 1. Along knife resembling a Cuban machete, used in the Philippine Islands, for domestic and agricultural purposes, and in war.



(From an original in the Amer. Museum of Nat. History, New York.)

bolochore (bō'lō-kōr), n. [Irreg. \langle Gr. β o2 $\hat{\eta}$, a throw, $+ \chi \omega \rho \epsilon i r$, spread abroad.] In phytogeog., a fruit with some adaptation for the mechanical propulsion of its seeds or spores, or a plant bearing such fruit; a sling-fruit; a ballistic or eatapult fruit. Bolochores are ballistic or eatapult fruit. Bolochores are divided by F. E. Clements, the author of the term, into *pladoboles, *edoboles, *erriboles, and *tonoboles. See these terms.

bolochorous (bō-lok'ō-rus), n. [bolochore +

Having the character of or pertaining to bolochores.

Bologna flask, hemp, vial. See *flask, *hemp, *vial.

bolograph (bō'lō-graf), n. [Gr. βολή, a throw, **bolograph** (bo'10-gra1), n. [Gr. $\beta o \lambda \eta$, a throw, $+ \gamma \rho \dot{\alpha} \phi \epsilon \nu \nu$, write.] An automatic record of the indications of a bolometer. Bolographs of the solar spectrum are made by passing the spectrum at a constant rate over the face of the bolometer and photographing upon a moving sheet the deflections of a sensitive galvanometer in circuit with the bolometer. The result is a curve giving in graphic form the distribution of energy in the sun's spectrum at the time when the bolograph is taken. Such records are termed spectrobolographs.

A study of the yearly variations of the selective absorption of the Earth's atmosphere by the aid of a long series of bolographs.

S. P. Langley, Astrophysical Jour., March, 1903, p. 93.

bolographic (bo/lo-graf'ik), a. Of, pertaining to, or effected by means of a bolograph.

The bolographic method can be employed, which, being The congraphic metriod can be employed, which being independent of circle readings, and involving instead a clock work of extreme accuracy, gives differences of deviation with extraordinary precision, reaching, as we said in last year's report, to within a second of arc.

Smithsonian Rep., 1898, p. 72.

boloman (bō'lō-man), n. A man armed with in 1860, a bolo. [Philippine Is.]

Bolometric curve, a curve indicating the distribution of bom, n. energy in the spectrum as determined by measurements with the bolometer.

closure

bolsa (bōl'sä), n. [Sp. bolsa, a purse.] An exchange where merchants and others meet to

The bolson plains may be considered as sections of an The coson parise may be considered as sections of an upraised peneplain surface in its earliest infancy, at a stage in which they are as yet untouched by stream-action. They could not exist under present hypsometric conditions except in an arid region, which snow-fed perennial rivers do not traverse. Amer. Geol., Sept., 1904, p. 164.

bolster, n., 2. (p) Same as bunk, 2. (q) In arch., a horizontal piece of wood set on the top of a post and projecting on one or both sides: intended to diminish the unsupported stretch of a girder or beam, or to act as a corbel, allowing a post to be set upright in false bearing beyond the axis of the lower post. (r) In paleobot., same as *leaf-cushion.

which rest on bolsters over the axles; no springs are used.

springs are used.

bolt1, n.—Cremorne bolt, a casement-fastening consisting of two long bolts, one engaging the top of the window-frame and the other the window-sill, both being inclosed in a casing and operated by a handle at the middle of the easement. It is sometimes provided with a third bolt which locks the casements together and is operated by the same handle.—Espagnolette bolt, a casement-fastening consisting of a long rod placed on the edge of the easement and fitted with catches at the top and bottom. By means of a handle the rod can be rotated to cause the catches to engage the opposite casements and lock them together at the top and bottom.—In-andout bolt, a bolt which extends through the pieces to be joined.

bolt¹, v. t. 9. In archery, to loose too soon after drawing the bow. See *hold.—10. In golf, to putt with so much force that the ball will go some distance past the hole if it fails

bolt-die (bölt'di), n. 1. A die or hob for cutting the thread on a bolt.—2. A die for shaping blanks for bolts.

bolt-dog (bolt'dog), n. An attachment to a lathe for driving bolts.

bolter¹, n. 2. A machine for sawing logs into size suitable for cutting into small strips. a size suitable for cutting into small star. The pieces cut by a bolter are called bolts, and into laths, piekets, etc., these bolts are sawed into laths, pickets, ctc., in a gang-saw .- 3. In archery, an archer who, after drawing the bow, looses too soon.

bolting-reel (bol'ting-rel), n. A reel, covered with bolting-cloth, used in separating flour, etc. bolting-saw (bōl'ting-sâ), n. See *bolter, 2. bolt-machine (bōlt'ma-shēn"), n. A machine used for forging the shanks of bolts from stock which has been rolled to the size of the head of the bolt. It consists of a series of forgingdies which vary in size and through which the body of the bolt is passed in a proper succession.

Boltonia (bōl-tō'ni-ā), n. [NL. (L'Héritier, 1788), named in honor of James Bolton (fl. 1775-95), an English botanist.] A genus of plants of the family Asteraecæ. There are 4 or 5 species, natives of the United States. They are sometimes known as false camomile. They are tall, leafy, aster-like, glabrous and often glaucous perennial plants, blooming profusely in late summer and antumn, and are excellent for the hardy border. B. asteroides and B. latisquama are sometimes planted in gardens for their shows bloom.

bolt-ring (bolt'ring), n. A small ring with a spring-and-bolt arrangement, much used in modern jewelry for holding small or large gems

or to secure necklaces.

bolt-saw (bolt'sâ), n. A saw for cutting off the bark-covered slabs from a log and forming them into squared bolts; a saw for the rough dressing of logs in the forest.

bolt-threader (bolt'thred"er), n. A machine or device used to cut the thread on bolts.

bolt-wire (bölt'wir), n. Wire which is to be eut into blanks for small bolts.

Bolyaian (bōl-yī'an), a. Of or pertaining to John Bolyai (in Hungarian, Bolyai János), a Hungarian geometer who was born at Kolozsvár in 1802, and who died at Maros-Vásárhely in 1860.—Bolyaian or Bolyaigeometry. See *geome-

A simplified spelling of bomb.

boma (bō'mä), n. [Central African.] An inclosure of bushes, thorn, or stakes formed as a protection for a camp or village.

I went out on a sandspit into the lake and camped, cutting down the bush and placing it across the shore end of the bank so as to form a boma. At one o'clock in the morning the Turkana attacked and succeeded in breaking through the boma, a few of them getting into camp.

Geog. Jour. (R. G. S.), XI. 389.

transact their business. [Span...]
and the Philippine Is.]
bolson (bōl-sōn'), n. [Sp., augm. of bolso, a purse, \(\cdot bolso \), a purse; see burse, purse.]
In phys. geog., a basin-shaped depression inclosed on nearly all sides by mountains.
[Southwestern U. S.]
bolson-plain (bōl-sōn'plān), n. [bolson + bolson-plain (bōl

foreigner.

The whole country spoke of this boat . . . with a crew that spoke like Bombardiers.

Geog. Jour. (R. G. S.), XI. 82.

bombardment, n.—Molecular bombardment, impact of the molecules of a vapor or gas against a submerged hody or against any wall which forms a boundary to the gaseous volume. The resultant effect is the presentant of the presentant to the gascons volume. The resultant effect is the pressure which the vapor exerts. Under high electrostatic strain, especially in a high vacuum, such bomhardment may exert considerable power on the bodies struck, causing them, for example, to give off X-rays or heat, and even fusing very refractory substances, as platinum. bax.—Bombax cotton, the seed-hair of the bombax, known in commerce as vegetable down, red-silk cotton, glossy, pliable, rectilinear, and from white to yellow-brown in color, but it is without spiral twist, and the cell-walls are thin and weak, making it unsuitable for spinning; hence it is chiefly used for such purposes as stufing mattersese, etc.

bombed (bomd), a. [bo bombé.] Rounded: as, a Keane, Ethnology, p. 185. $\lceil bomb + -ed^2 \rceil$ Rounded: as, a bombed frontal bone.

That bombéd brow, that eye a kindling chrysoprase.

Browning, Fifine, x. 22.

Bombinæ (bom'bi-nē), n. pl. [NL., < Bombus +-inæ.] The Bombidæ considered as a sub-+-inæ.] The Be family of Apidæ.

family of Apiae.

bombom (bom'bom), n. [Also bombon, bombong. Philippine Sp.] Same as *bongbong.

bombonne (bom-bon'), n. [F. bombonne, ⟨Pr. boumboune, ⟨boumbo, a bomb, a bottle, = F. bombe, a bomb: see bomb².] A hollow vessel, usually of salt-glazed stoneware, either eggahand or artifulation with three neither these shaped or cylindric, with three necks at the top and an exit-tap at one side near the bottom: used in the condensation of acids on a manufacturing seale: essentially a Woulfe's bottle. bomb-signals (bom'sig"nalz), n. pl. See *sig-

Bombyces (bom-bi'sēz), n. pl. [NL., pl. of Bombyx.] An old group of Lepidoptera, eor-

responding to the modern family Bombycidæ. Bombylioidea (bom-bil*i-ō-id'ē-ā), n. pl. [NL. (Coquillett, 1901), \(Bombylius + -oidea. \] A superfamily of dipterous insects comprising the so-called bee-flies of the family Bombyliidæ and their allies, including the Apiocerida and Mydaidæ.

Bombyx, n. 3. [l. c.] A wind-instrument of the

mouthpiece: so called from its shape.

bonanza, n. II. a. Very extensive and profitable. Compare bonanza, n. 2.—Bonanza farm, in the great wheat-producing regions of the United States, a farm of great extent, operated on a gigantic scale.—Bonanza farmer, one who owns and operates a bonanza farm.

bonasi (bo-nä-sē'), n. [Cuban bonasi, from a native name (Piebardo).] The Cuban name of a species of grouper, Mycteroperca bonaci, a food-fish of the West Indies.

bonaventia (bon-a-ven'sha), n. [Origin unknown.] A buggy with a wooden dash and a standing top. [Pennsylvania.]

Bonaventure formation. See *formation. Bonaveria (bō-na-vē'ri-a), n. [NL. (Scopoli, 1777), named in honor of J. B. Bonaveria, an Italian botanical artist of the 18th century.] A genus of dicotyledonous plants of the family Fabaceæ. See Securiyera.

Bonavist bean. See *bcan1.

bonbo (bon'bō), n. [Tibetan Bon (in Eastern Tibet $Bh\ddot{o}n$) the name of this religion, + Bod (Eastern $Bh\ddot{o}$), Tibet.] The form of shamanism which forms the indigenous religion of Tibet. It is rapidly waning in the presence of the Lamaistic form of Buddhism which is now the dominant cult.

bonbonnière (bon-bon-iar'), n. [F.] A box for holding bonbons or confections.

bond¹, n., 12. (c) Same as bond-limber.—14. In elect., the rod, heavy copper wire, or weld which is used to connect the abutting rails of which is used to connect the abutting rails of a railway-track to form an electric circuit.—

Bond and disposition in security, an expression equivalent to bond and mortgage on land.—Double bond. In certain cases the atoms in chemical compounds do not exhibit their full valency. This behavior can sometimes be expressed by the assumption of a double union or bond between two polyvalent atoms, as in ethylene, Il.gC:CH2. The double bond is not stronger than two single bonds, nor in any way equivalent to them, except arithmetically. Compounds assumed to possess them are usually most readily attacked at the position of the double bond, either by reagents or by decomposing agencies, such as heat. In general, organic compounds with a double bond, such as defined, are distinguished by their ability to form derivatives by addition, while those without double unions, as paraffins, form derivatives by substitution.—Joint bond, in law, an undertaking executed by two or more parties all of whom must be joined as defendants in an action upon the bond.—Resignation bond. (a) In secles, law, an instrument, usually attested by a notary, by which a beneficed clergyman voluntarily surrenders his benefice. (b) In Scots law, the surrender of a fee to a superior.—Tax bond. See *tax.—Three-quarter bond. Same as heart-bond.

bond1, v. t. 6. To unite the ends of (two adjacent rails,) either by eopper wires or cables. a railway-track to form an electric circuit.-

cent rails,) either by copper wires or cables, or by welding, in order to secure a low-resistance return-circuit for the electric current.

Briefly, my experience in bonding rails is that in the ast weld made since 1898 the hond at the beginning of

the pour is of lower resistance than a 90-pound rail of the same length as the weld.

Jour. Franklin Inst., April, 1904, p. 287.

Bondon cheese. See *cheese1.

bond-wire (bond wir), n. A wire used to make a good joint for the conduction of electricity from one railway rail to another.

bone1, n., 6. (e) In card-playing, a chip of the smallest

10. A piece of horn or wood-fiber inserted in the sole of a wooden golf-club to prevent injury to the face of the club at the bottom.—

11. The midrib of a leaf, especially that of a sugar-cane leaf or the large midrib of a palm-leaf. [Colloq., West Indies.]—Bone-wire. See *wirel.—Cavalry bone, 'a hone sometimes developed in the adductor muscle of the thigh in men who are constantly in the saddle.—Dissolved bone, bone which has been treated with sulphuric acid so as to produce the soluble monocalc's phosphate for use as a fertilizer. The term has often been nsed as a trade-name to include mineral phosphates similarly treated, these in some cases consisting of or containing the dehris of fossil bone.—Exercise bone. Same as cavalry *bone or *drill-bone.—Ground bone. Same as bone-dust and *bone-nead.—Inca bone. Same as interparietal bone (which see, under interparietal).—Ligament bone. Same as sesamoid bone.—Lingual bone, the hyoid hone.—Riolan's bones, small detached bones, like Wornian bones, occasionally present in the suture between the occipital bone and the petrons portion of the temporal bone.—Snspensory bones, in the fish skull, the chain of bones connecting the mandible to the cranium, consisting of the hyomandibular, the symplectic, and the quadrate.—Ungual bone. See *unqual.

bone!, r. t. 5. To 'hold up' with a demand or sugar-cane leaf or the large midrib of a palm-

bone1, r. t. 5. To 'hold up' with a demand or importunate request for something, as for a small loan: as, to bone one for a 'fiver.' [Colloq.] bone-body (bon'bod'i), n. In eeram., the composition of natural soft-paste porcelain, which contains a certain proportion of calcined bone.

His body was neither that of the French potters nor the true bone of the English, but partook of the characteristics of both, the proportion of phosphate of lime, as shown by analysis, heing about eight per cent., a very much smaller percentage than in the English boae-body.

E. A. Barber, Pottery and Porcelain of the U. S., p. 126.

bone-cell (bon'sel), n. In histol., one of the stellate cells which produce bone; an osteoblast.

bone-conduction (bon' kon - duk " shon), Transmission of sound-waves to the auditory apparatus through the bones of the face.

bone-corpuscle (bon'kôr'pus-l), n. Same as *bone-cell or osteoblast.

bone-dry (bon'dri), a. Very dry; as e bone. Modern Amer. Tanning, p. 189. Very dry; as dry as a

bone-fat (bon'fat), n. Fatty matter, of soft, semisolid consistence, extracted from bones by melting or by the use of solvents: used in making cheap soaps. Jour. Soc. Chem. Industry, VI. 825.

bone-flour (bon'flour), n. The most finely divided portion of ground bones, separated from the coarser parts by sifting: used as a fertilizer. Jour. Soc. Chem. Industry, VII. 821. bone-heap (bon'hop), n. 1. A heap of bones.

-2. In archæol., a refuse-pile containing bones and other remnants of food of a prehistoric village. Bone-heaps are also found near villages of modern primitive tribes.

bonellein (bō-nel'ē-in), n. [Bonell-ia + -e- +

-in².] A green pigment obtained from Bonclia viridis.

bone-meal (bon'mel), n. Bones reduced to a rather coarse powder by grinding: used in agriculture as a fertilizer. Jour. Soc. Chem.

Industry, X. 151.

bone-oil, n. 2. Fatty matter, of liquid consisbonnet-press (bon'et-pres), n. An apparatus
bonnet-press (bon'et-pres), and is a liquid consisbonnet-press (bon'et-press), n. An apparatus tence at common atmospheric temperature, extracted from bones by heating them with water or by the use of solvents: used in soapmaking.

bone-painting (bon'pan"ting), n. The custom of painting the bones of skeletons, particu-larly those of friends and relations. This cuslarly those of friends and relations. tom seems to have prevailed in many parts of prehistoric America and also in other continents.

bone-powder (bon'pou'der), n. Bones reduced to powder by grinding : used in agriculture as a fertilizer, and in the manufacture of mixed fertilizers. Jour. Soc. Chem. Industry, VII. 133. bonery (bō'ne-ri), n. [bone¹ + -ery.] A place where bones are deposited.

boneset, n .- Bastard boneset. Same as upland *boneset.—Blue boneset, the mistflower Eupatorium codes-tinum.—Climbing boneset, the climbing hempweed, Willughbea scandeas.—False boneset, any plant of the genns Kuhnia.—Purple boneset, the joepye-weed, Eupatorium purpureum.—Upland boneset, Eupa-forium sessilijolium, a species with sessile but not con-nate leaves.

bone-shaker (bon'sha-ker), n. A humorous

name applied to the bieyele before the introduction of rubber or pneumatic tires and other improvements.

bon voyage (bon vwo-yäzh'). [F.] A parting salutation meaning, I wish you 'a pleasant journey' (or 'voyage' if by water).

He propelled and steered and steered shaker, by the front wheel [in 1866].

Eneyc. Brit., XXVII. 324. He propelled and steered the cycle, known as a bone-

bone-tankage (bon'tangk" \bar{a} j), n. Meat offal containing more or less bone in fragments: used in the manufacture of fertilizers

bonga (bông'gä), n. [Tagalog and Bisaya bongu (bongga).] The betel-nut palm (Areca Cathecu), the nuts of which, together with the leaves of the betel-pepper and a little lime, form a masticatory called buyo. See areca-nut.

[Philippine Is.]
bongbong (bong'bông), n. [Bisaya and Tagalog bongbong.] A vessel or pipe for water, made from a joint of bamboo. [Philippine Is.]
bonifacial (bon'i-fā'shal), a. [boniface+-ial.]

Of or pertaining to a boniface or the landlord of an inn. G. A. Sala. boning² ($b\bar{o}'$ ning), n. A form of machine-sew-

ing in which two or more parallel lines of stitches are made in the fabric: used especially in corset-making as a means of holding the bones in place. See two-needle machine, under *sewing-machine.

boning-knife (bō'ning-nīf), n. A kitchen-knife with a short, wide, and pointed blade, used in boojery, n. See *budgeree.

boning-stick (bō'ning-stik), n. Same as hon-

boninite (bō-nin'-īt), n. [Bonin (Islands of Japan)+-ite2.] A term proposed by Petersen (1891) for a glassy andesite containing bronzite, diallage, and olivine, occurring in the Bonin Islands, Japan.

bonism (bō'nizm), n. [L. bon(us), good, +-ism.]
The doetrine that the world is good, but not the best possible. See optimism.

bonist ($b\bar{o}'$ nist), n. [bon(ism) + -ist.] One who believes that the world is good, but not the best possible.

bonito 1, n. (g) In Australia, the oceanic bonito, Gymnosarda pelamis.

bonito² (bộ-nē'tō), a. [Sp., dim. of bueno, < L. bonus, good: see boon².] Pretty; niee; fine; graceful: an epithet in use in Spanish-speaking countries or regions originally settled by Spaniards.

bonnet, n., 8. (b) A portion of a coal-seam left for a roof. (c) A flat piece of wood on the top of a prop. (d) pl. Gas-coal or shale overlying a coal-seam or worked with it. [Seoteh in senses b, e, and d.]—15. The lid or cover of a hole by which access may be had to valves or other apparatus in a closed chamber.—16. The protecting hood over the machinery or motor of a motor-vehicle, in front of the dashboard .- 17. The plate on the motor-crank ease, or on the transmission gear, normally closed, through which the cranks and gears of a motor-ear can be inspected and cleaned and oiled. -18. pl. The spatter-dock, Nymphæa adrena and the other species. See Nymphæat, 1.

bonnet, v. t. 2. To provide with an iron shield or bonnet: as, to bonnet a safety-lamp. Jour.

Inst. Elect. Eng. (Lond.), 1900-1901, p. 834.

bonnethead (bon'et-hed), n. A species of hammerhead, Sphyrna tiburo, abundant on the Atlantic coact of the United States. Atlantic coast of the United States. The head is kidney-shaped, rather than hammer-shaped

for shaping a bonnet by pressing and ironing it. bonnet-skate (bon'et-skāt), n. In iehth., the common skate.

bonnet-stack (bon'ct-stak), n. A metal chimney-stack having a cover or lid over its top, at a slight distance above the opening, to prevent snow and rain from falling into it. Sometimes the bonnet is made part of a spark-arrester netting over the top.

bonnet-wire (bon'et-wir), n. A wire for stiff-

ening hats and bonnets.

Bononian beds. See *bed¹.

Bonsor's black. See *black.

Bonsor's black. See *black.
bont-tick (bout'tik), n. [D. bont. variegated, +
E. tick.] A South African isodid, Amblyomma hebræum, parasitic on live stock: so called be-cause of the variegated color of the dorsum of the adult male. See bont-leg *tick.

The tick of greatest importance, because of its injuries to stock, is Amblyomma hebreum Koch, commonly known as the bont tick. "Bont" is a Dutch word, equivalent to "variegated," and its application in this case has reference to the mixed coloring on the back of the male. C. P. Louasbury, in Proc. Assoc. Econ. Ent., 1900, p. 41.

bony-fish, n. 2. A common name of the tenpounder, Elops saurus, of the family Elopidæ, an abundant and widely distributed fish in tropical seas.

bony-tail (bō'ni-tāl), n. A fish of the Gila river, Gila elegans. Also called Gila trout.

boobook (bö-bök'), n. [In allusion to the cry of the bird.] A small owl, Athene boobook, of a rusty red color, found in Australia and Tasmania: so named on account of its peculiar call or hoot.

Booby prize. See *prize1.
boobyalla (bö-bi-ä'lä), n. [Aboriginal name.]
A tree of southeastern Australia and of Tasmania, Acacia longifolia, a shrubby form of which is common in the coast regions and is of service in binding the sands. Also called native willow.

boodle1, n. 4. Same as new murket, 1. boodlerism (böd'lerizm), n. The practice, by persons in public office, of asking or accepting bribes, or of making corrupt bargains for their own profit, as in selling votes for money, office, or influence. [Slang, U. S.]

Boohoo fever. See *fever.

boojum (bō'jum), n. [A made word based unconsciously on boo, with a Latin-looking termination, -jnm, -ium.] An imaginary animal introduced by C. L. Dodgson ("Lewis Carroll") as a particularly dangerous variety of 'snark,' into bis "Hunting of the Snark.

'snark,' into his "Hunting of the Snark."

Book of responses, in Scots law, the account, kept by the directors of the chancery, for entering all non-entry and relief duties payable by heirs taking precepts from chancery.—Book of the Covenant, a code of laws which, according to Exodns xxiv., is ascribed to Moses. Recent writers consider the substance of the code to be found in Exodus xx. 24-xxiii. 19. Also called Greater Book of the Covenant.—Book of the Dead, a papyrus which the Egyptians placed with the munning in the coffin, to furnish the deceased with needful directions for the journey to the life beyond.—Book value, in bookkeeping, the value of any commodity as shown by the books of a firm or commercial concern, as distinguished from its market value (which see, under market).—Caro books of a firm or commercial concern, as distinguished from its market value (which see, under market).—Caroline Books, four books written under the direction of Charlemagne, during the controversy of the eighth century concerning image-worship. The books contain a censure of the decrees of the council of Nices on the adoration of images, and established the principle of the freedom of Christian art in representing Christian ideas.—Golden book. See *golden.—Little Book of the Covenant, the name given by critics to the brief legislative section in Exodus xxxiv. 12-26, the contents of which are similar to parts of the Book of the Covenant.—Red book. See *red1.

Bookbinders' varnish, wire. See *varnish,

book-buyer (buk'bi-er), n. One who buys

book-crab (buk'krab), n. Same as book-scor-

booker (buk'er), n. 1. A writer of books; a scribe.—2. A 'spotter.' All the Year Round, July 11, 1863.—3. An entry-elerk or bookkeeper. -4. One who makes up finished goods into 'books.'

book-gill (buk'gil), n. The respiratory organ of *Limulus*, which is regarded as comparable to the lung-book of a scorpion everted and adapted for aquatic respiration.

booking (buk'ing), n. The act of engaging or securing beforehand (by registry or payment) a box or seat at the opera, a passage on a steamer or train, etc.

book-lung (bûk'lung), n. The lung-book of a scorpion. See *lung-book. Parker and Haswell, Zoölogy, I. 605.

book-marker (buk'mark-er), n. Same as book-

book-number (bûk'num-bêr), n. In libraryeataloguing, a particular number (or a number and a letter) designating the book in its proper sequence in the smallest division to which it belongs. It is the number that is individual to the book belongs. It is the number that is individual to the book itself or any copy of it, and with the class-number (which may be borne by a thousand books) makes up its identification-number not only in the given library, but in every library using the same system. The accession-number, which marks the order of receipt, belongs only to the particular copy which bears it. In the Cutter and bewey systems the book-number consists of the initial letter or letters of the author's name, followed by a number which indicates in a printed list the rest of the name.

book-sewer (buk'so"er), n. One whose occupation is to fasten together with thread the different sections or foldings of a book.

book-stamp (bùk'stamp), n. The plate of hard metal (usually of brass) which contains

the decoration or letters selected for stamping the covers of a book.

booky¹ (buk'i), a. [book + -y¹.] 1. Bookish; given to reading: as, a booky person.—2. Derived from books: as, booky tessons. Mark Twain. [Colloq.]

booky (būk'i), n. [book + -y².] Same as bookmaker, 3. [Slang.]
bool³ (būl), n. [Australian.] Same as *beal³,
boom², n. 6. A pole fastened lengthwise of a load of hay to bind the load. Stand. Diet. — Down booms! (naut.), an order to send on deck the studdingsail-booms from the yard-arms.—Sheer boom, a boom so secured that it guides floating logs in the desired direction. Also called fender boom and glancing boom.

The formation of the gorge is supposed to have been caused by the driving of piles in the Mississippi River at a point a few miles above Alma, Wis., to hold a sheer boom for the purpose of running the logs which had been loosened from the sandbars and shores of the Chippewa and Mississippi rivers by the recent heavy rains into the Zumbra River for safe harbor.

U. S. Monthly Weather Rev., Nov., 1896, p. 407.

boomah (bö'mä), n. A false spelling of boomer1 1 (a kangaroo), used on the supposition that the name was native Australian.

boom-band (böm'band), u. A band for the boom of a sail-boat. It is made in two parts held together on the boom by holts and nuts, and fitted with an extra half-hand for holding the hook of a block.

boom-buoy (böm'boi), n. Same as *boom-stay. boom-chain (böm'chān), n. A short chain which fastens boom-sticks end to end.

boom-company (böm'kum-pa-ni), n. A corporation engaged in handling floating logs, and owning booms and booming privileges. TU. S.1

boom-crane (böm'krāu), n. A crane having a vertical mast, steadied at the head and foot by proper pivots, and a horizontal boom projecting at right angles from the mast, and braced to it by an inclined strut; a *jib-crane (which see)

booming³ (böm'ing), n. In mining, ground-sluicing on a large scale by emptying the contents of a reservoir at once on material collected below, thus removing boulders. Coal and Metal Miners' Pocketbook.

boom-rat (böm'rat), n. In lumbering, one who works on a boom. [Slang.]

boom-stay (bom'stā), n. A heavy weight used to anchor booms in deep water, its position being indicated by a pole or float attached to

it. Also called a boom-buoy. poom-stick (böm'stik), n. In lumbering, a timber which forms part of a boom. [U. S.] boom-stick (böm'stik), n.

boom-town (bom'toun), n. A town or community which has acquired sudden wealth and notoriety through land speculation, etc.; also, a town which originated in a real estate 'boom.' [Western U. S.] boomy (bō'mi), a. [boom1 + -y1]. Hollow;

deeply resonant: as, the boomy tone of surf, or

of a bell. [Colloq.]

Boone formation. See *formation.

boorga (bör'gä), n. See *burga.

booster (bö'ster), n. [boost1 + -er1.] 1. One
who boosts.—2. In elect., a device by which the electromotive force in an electric circuit is regulated.

boot², n. 11. In agri., the uppermost leaf-sheath, just below the brush or head, of a broom-corn plant; also the lowest leaf-bearing internode on a stalk of wheat.—Junod's boot, a surgical appliance for exhausting the air surrounding a limb in order to draw blood to it.

On telling him my adventures, how Bob in my misery had "poked borake" at me.

Australasian Printers' Keepsake, p. 75.

borak² (bō'rak), n. Spirit distilled from rice.

When quiet had been restored we all sat down, and borak (rice spirit) was produced, healths drunk, and speeches made.

Geog. Jour. (R. G. S.), XVI. 49.

Tanning, p. 114.

boothite (böth'īt), n. [Named after Prof. Edward Booth of California.] A hydrated copper sulphate (CuSO₄+7H₂O), similar in form to melanterite and pisanite: found in California.

boot-leg, n. 2. One of the levers connected with the winding mechanism of a spinning-mule: so named from its shape. Nasmith,

cotton Spinning, p. 269.

boot-lick (böt'lik), n. A mean, eringing person; a toady. [U. S.]

booz, r. i. and n. A simplified spelling of booze,

boquin (bō-kēn'), n. [Sp.] A baize of coarse

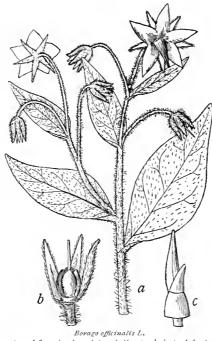
bora² (bō'rä), n. [Native Australian.] A ceremony of the natives of eastern Australia by which a boy is admitted to the rights of manheed.

boracha (bo-rä'tshä), n. [Braz. Pg., a particular use of Pg. borracha, a leather bottle, a rubber bag, etc. : see borachio.] A conventional weight of crude india-rubber, used to designate, in the Amazonian rubber districts, the bundle in which india-rubber is shipped.

In Which india-ruoder is snipped.

borage, n.—Ceylon borage, a coarse, hardy annual plant, Boraginoides Zeplanicum (Borago Zeplanica of Burman), a native of southern India and Ceylon, and naturalized in Australia and Tasmania.—Native borage, a name in Australia of the Ceylon borage.

Borago (bō-rā'zō), n. [Nl. (Linnæus, 1753, adopted from Tournefort, 1700): see borage.]



a, top of flowering branch (one-half natural slze); b, fruit (enlarged); c, a stamen (enlarged). (From Britton and Brown's "Ill. Flora of the Northern States and Canada.")

A genus of dicotyledonous plants, type of the family Boraginaceæ, including 3 species all natives of the Mediterranean region. They are annual or biennial herbs, with hirsute or hispid foliage and showy blue flowers in terminal racemes. In some parts of Europe, B. officinatis is used as a pot-herb and sometimes with salads. Only the young leaves are palatable. See bee-bread, 2.

boragoid (bō'ra-goid), a. [Borago, type-genus of the Boraginaceee, +-oid.] Resembling Borago: applied specially to the extreme extraaxillary inflorescence of certain boraginace-

axillary inflorescence of certain boraginace-

ous plants, as Anchusa. Schumann. borak¹ (bor'ak), n. [See *barrack².] An aboriginal Australian term for banter; chaff; fun, especially at the expense of another: as, to poke borak at one, that is, to make game of him. [Colloq., Australia.]

On telling him my adventures, how Bob in my misery had "poked borack" at me.

Australasian Printers' Keepsake, p. 75.

boot-grain (böt'gran), n. A leather made from cowhide: used for heavy boots. Modern Amer. Tanning, p. 114.

boothite (böth'it), n. [Named after Prof. Edward Booth of California.] A hydrated copper sulphate (CuSO₄+7H₂O), similar in form to melanterite and pisanite: found in

borated (bō'rā-ted), a. Mixed or treated with boracie acid or borax or with both.—Borated gauze, gauze prepared with boracie acid for surgical use in dressing wounds.—Borated milk, milk to which boracie acid or borax, or both, have been added as preservatives. Careful experiments, made by the United States Department of Agriculture, have shown that such additions to food, although not in the ordinary sense of the term poisonous, are unwholesome and, in time, injurious.—Borated talcum, finely pulverized tale to which boracie acid has been added.

borax, n.—Burned borax, borax which has been deprived of its water of crystallization by heing heated.—Octahedral borax, in chem., sodium pyroborate when crystallized under special conditions with 5 molecules of water of crystallization (Na₂B₄O₇.5H₂O); it then assumes the form of the regular octahedron. The common or prismatic borax contains 10 molecules of water and crystallizes in monoclinic forms. borated (bō'rā-ted), a. Mixed or treated with

The great mystery of the Blacks is the Bora—a ceremony at which the young men found worthy receive the rank of warriors.

R. M. Praced, Australian Life, p. 24. comprising small, stout species, usually of dark color and with clear wings. They occur in large numbers on the dung of animals and breed exclusively in this substance

Borborus (bôr' bō-rus), n. [NL. (Meigen, 1830). (Gr. 360,3600c, mud, mire.] A genus of smatl acalyptrate flies typical of the family Borboridæ, containing black or blackish-brown species, some of which have rudimentary wings.

Borboridæ, containing black or blackish-brown species, some of which have rudimentary wings.

Bordeaux, n.—Alizarin Bordeaux, a mordant dyestuff derived from anthracene. It is similar in properties to alizarin, but produces colors of a much bluer character.—Bordeaux B, BL, and R, synonymous names for an acid eoal-tar color of the monoazo type, prepared by combining diazotized a-naphthylamine with \$\textit{B}\$-naphthol-disulphonie acid. It dyes wool a vinous red in an acid bath.—Bordeaux BX, a name applied to two acid coal-tar colors of the diazo type which differ but slightly in composition. They both dye wool a vinous red in an acid bath.—Bordeaux DA and S, synonymous names for an acid coal-tar color, the same as fast *red D.—Bordeaux*extra* and COV, synonymous names for a direct cotton coal-tar color, the same as \$konyo *violet.—Bordeaux* BX.

An acid coal-tar color similar to *Bordeaux* BX. (b) Same as *kordeaux* B.—Bordeaux* hammer. See *hammer!.—Bordeaux* mixture. See *mixture.—Bordeaux* pottery.—Brilliant Bordeaux*, an acid coal-tar color which dyes wool a vinous red in an acid bath.—Cotton Bordeaux*, a direct coal-tar color of the diazo type, derived from diamido-diphenyl-ketoxim. It dyes unmordanted cotton a bluish red in a sait bath.—Diamine Bordeaux*, a direct coal-tar color of the diazo type, derived from benzidine. They dye unmordanted cotton a claret red in an alkaline salt bath.—Diamine Bordeaux*, a direct coal-tar color of the diazo type, derived from benzidine. They dye unmordanted cotton, same as *cloth *red B.—Hessian Bordeaux*, a direct coal-tar color of the diazo type, derived from diamido-stilbene. It dyes unmordanted cotton a claret red in an alkaline salt bath.—Naphthylamine Bordeaux*, a direct coal-tar color of the diazo type, derived from diamido-stilbene. It dyes unmordanted cotton a claret red in an alkaline salt bath.—Naphthylamine Bordeaux* (-droz', -dro''), [F., OF. borderel.

bordereau (bôr-drō'), n.; pl. bordereaus or bordereaux (-drōz', -drō'). [F., OF. borderel, bordrel, < bord, edge, strip of paper, etc.: see board². border.] A memorandum or note, especially one containing a more or less detailed list of documents.

bordered, p. a. 2. In bot., having the margin distinct from the rest of the organ either in distinct from the rest of the organ either in conferous and other kinds of wood which are surrounded by a thickened border. They consist of thin spots, pervious to water, and regulate the passage of the sap from one cell to another. They are best seen in radial section. See cuts under *Araucarioxylon and *Cupressinoxylon.—
Bordered pore. Same as *bordered pit.

borderism (bôr'der-izm), n. A word, an expression, or conduct characteristic of the borders, especially the English and Scottish Border.

border.

border-pen (bôr'der-pen), n. A drawing-pen having several points, used in making broad decorative edges or borders.

border-shears (bôr'der-shērz), n. Long-handled clipping-shears for trimming the edges of lawns: often fitted with a small wheel to support their weight.

borealize (bō'rē-al-īz), v. i.; pret. and pp. bore-alized; ppr. borealizing. To adopt northern manners or ways of thinking and speaking.

Gill gives a Northern origin to geaun for gown and Spenser borealized in his pastorals.

Lowell, Introduction to Biglow Papers, 2nd ser., p. 174.

bore-bit (bor'bit), n. A piece of steel which forms the cutting-edge of a rock-boring drill. boree² (bō-rē), n. [Prob. from aboriginal Australian (in Queensland) boorcah, fire. It is Anstranan in Queensiand) boorcan, ire. It is especially preferred by the natives for firewood.] The weeping myall, Acacia pendula, which yields a hard, close-grained, violet-scented wood used by turners and cabinet-makers. [Eastern Australia.]

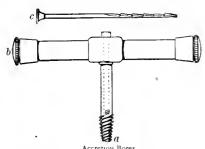
borele (bor'e-le), n. [Bechuana,] The native (Bechuana) name of the black rhinoceros, Rhinoceros bicornis, used frequently as a book-

bore-meal (bor'mol), n. The fine material taken from a hole which is being bored through rock which is comminuted by the action of the drill.

Boreogadus (bō-rē-og'a-dus), n. [NL.. \langle Gr. β opéac, the north (β ópeac, of the north). + γ áðoc, a fish (see Gadus).] A genus of small codfishes of the arctic seas, typified by the species B. saida.

borer, n. 8. A marine snail, as Urosalpinx cinerca: so named because of its habit of boring through the shells of oysters and other mollusks.—Accretion borer, an instrument for determining the growth in diameter of standing trees. It consists of a hollow auger, which, when bored into a tree, extracts a section showing the annual rings.—

Apple-tree borer (a) The larva of the American cerambycid beetle, Saperda candida (which see, with cut); the round-headed apple-tree borer. (b) The larva of the American buprestid beetle, Chrysobothris femorata



Accretion Borer.

a, hollow auger; b, hollow handle in which other parts are carried; c, rod for extracting wood section.

a, hollow suger; b, hollow handle in which other parts are carned; c, rod for extracting wood section.

(which see, with cut); the flat-headed apple-tree borer.—Blackberry saw-fly borer, the larva of an American insect, Janus funipennis.—Clear-wing borer, any one of several species of moths of the lepidopterous family Sestidae, whose larvae bore into trees, as Sevia acerni, the clear-wing borer of the maple.—Cucumber caterpillar borer, a pyralid moth, Diaphania nitridalis, found in North and South America and the West Indies, whose larvae bore into the fruit of eucumbers and melons. The clear-wing borer of the maple.—Flathead borer, the larva of any one of many species of beetles of the family Buprestidae which bore into the branches and trunks of trees and which have an enlarged and flattened thorax and head: as, the flat-headed apple-tree *horer, larva of Chrysbothris fenoralta.—Hammer-head borer. Same as flathead *borer (which see).—Increment borer. Same as flathead *borer (which see).—Increment borer, accretion *borer.—Larger corn-stalk borer. Same as sugar-cane borer (which see).—Long-horned borer, a name of any wood-boring beetle of the family Cerambycidae.—Pacific peach-tree borer, the larva of a sestid moth, Sanniaoidea opalescens, which bores into the trunks and larger branches of the peach on the Pacific coast of the United States.—Peach-tree borer, the larva of a sestid moth, Sesia pyri, which feeds on the inner layer of the bark of the pear tree in the eastern tinted States.—Red borer, the larva of an oriental cossid moth, Zeuzera confeer, which bores into the stems of the colcopterous family Buprestider; specifically, the round-headed borer of the papele, Saperda candida.—Sequoia-borer, the larva of any one of many species of beetles of the family Cerambycidae, which bore into the trunks and branches of trees: in contradistinction to the flat-headed borer, an American phycitid moth, Laodannia Ignoscillus, occurring in the eastern United States and South America, whose larva bores into the west larg

bore-rod (bor'rod), n. A long rod, usually made up in sections, which is used for drilling deep wells, the drill being earried at the lower end of the rod.

Boreus (bō-rē'us), n. [NL. (Latreille, 1825), ζ Gr. βόρειος, boreal.] A genus of enrious mecopterous insects of the family Panorpidæ, composed of wingless species which look like small wingless grasshoppers. They are often

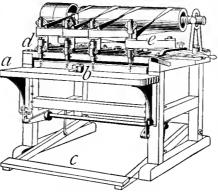
found on snow in the winter.

Borhyænidæ (bō-ri-ē'ni-dē), n. pl. [NL. Borhyæna, the type-genus, + -idæ, family ending.]

A family of extinct ereodont mammals whose members have some points of resemblance to the living marsupial *Thylacims*. The angle of the faw is somewhat inflected, and very few of the teeth are known to have had milk predecessors. The known species are from the Santa Cruz formation (Miocene?) of Patagonia. *Ameghino*, 1894.

borickite (bō'rik-īt), n. [Named after Prof. E. Boricky of Prague.] A hydrated phosphate of ferric iron and calcium, occurring in reddishbrown reniform masses.

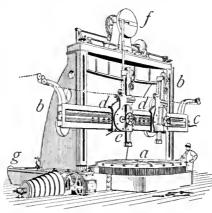
boring-machine, n. This term includes a great variety of wood-boring machines used in the building of cars and wagons, in making furniture and agricultural machinery, etc. They are named from the work they do, or from the number and arrangement of the angers. They are often combined with other machines. Many are automatic in action and adjustable for spacing the distances between the holes or for boring holes at different angles, and they range in size from a single-auger bench-machine up to very large multiple horers having ten or more angers making holes at different angles and of different sizes.—



Multiple Wood-boring Machine.

a, table with vertical traverse; b, adjustable stop for holding work on table; c, treadle operating table to bring work up to augers; d, spindles carrying augers, adjustable to any position; c, belt operating all spindles.

Boring-and-drilling machine, a boring-machine that can also be used for drilling, tapping, and screw-cutting. Both horizontal and vertical forms are in use. One type has a vertical spindle supported by a saddle which has a traverse on a cross-rail supported between two columns. The saddle and the cross-rail are swiveled, enabling the operator to present the boring-tool to the work in any direction. The cross-rail has a traverse up and down the whole height of the columns to admit large work under the point of the boring-tool. Other types have horizontal spindles, with a fixed or a movable table. When the table is given a feed-motion, the machine can also be used in milling. — Boring-and-facing machine, a boring-machine having an attachment called a facing-head on the boring-bar for facing or finishing the outside surfaces of the work, the ends of cylinders, ctc.—Boring-and-turning machine, a boring-machine having a horizontal revolving



Boring-and-turning Machine

a, revolving table; b, b, housing; c, cross-rail; d, d, saddles traversing cross-rail, one in inclined position; e, tool-bar; f, slotting attachment; g, bed on which housing travels forward and back; housing shown in forward position. Boring-bar carried on extra

table and vertical boring and entting-tools, upheld by a tool-bar or boring-bar supported from saddles that traverse a cross-rail supported by housings. In essential features it is a modification of a lathe, set on end, the rotary table taking the place of the vertical face-plate of the lathe. The cross-rail carrying cutting-tools is also an adaptation from the planer, the only difference being that in this machine the traversing table has a rotary motion, the entting being done in circles: hence the name turning-machine. In small machines only one tool-bar is used; in the turret boring-and-turning machine the tools are carried in a turret over the table. In large machines a boring-bar is placed on the cross-rail between the cutter-bars, boring and cutting being done at the same time. Supplementary horizontal tool-bars at the side of the table and slotting attachments are also used. In large machines the housing has a traverse, forward and back, to bring the boring-bar to the center of the work. See *milling-machine* and *drilling-machine*.—Boring-, drilling-, and milling-machine, a machine of which the spindle is supported by a saddle that can traverse up and down a column. In one type the work is pluced on a fixed table or on the floor, and the column also has a traverse. This makes it possible to use the machine in milling. In another type the column is fixed and the table has a traverse to right and left and, by the addition of a supplementary table, a rotary motion. Sometimes called foor drilling-machine.—Crank boring-machine, a machine with a single vertical spindle supporting a cutter-head having three cutters working in a circle and cutting a very large hole.—Cylinder-boring machine, a machine for boring ont and finishing engine-cylinders. The boring-bar may be horizontal or vertical and may have a fixed cutter-head having its own feed. In some machines one of the heads supporting the boring-bar may travel upon the hed of the machine for convenience in adapting the nachine to the cylinder; in others two table and vertical boring and cutting-tools, upheld by a

machine supported by a horizontal jointed arm to enable the workmen to bore holes at irregular distances over a wide surface.—Hub-boring machine, a large machine for horing holes in blocks of wood preparatory to turning down the blocks in a lathe in making wagon-hubs. In some forms the augers are automatically fed to the work; in others the work is fed to the augers.—Locomotive-rod boring-machine, a horing-machine having two vertical spindles mounted upon a rail that is supported by massive columns. The spindles travel upon the rail in either direction to bring them to the work laid upon the table.—Post boring-machine, a boring-machine adhistable table to bring the work to the auger at any angle.—Universal boring-machine, a boring-machine in which the auger may be used to bore a hole in any direction. In one type the auger is supported on a bracketed arm that swings in any direction over a table on which the work is laid; in another the auger is fixed and the table can be so adjusted as to present the work to the auger at any angle; and in still another the auger can be moved up and down on an upright column which is free to turn on its axis.—Vertical chord-boring machine, a very large machine used for boring holes in bridge-work. It has two spindles carried by vertical heads, one of which travels upon the bed of the machine for convenience of adjustment.

boring-ram (bor'ing-ram), n. In mining, a machine-drill provided with a hammer-head

that can be used for driving wedges. **borize** ($b\bar{o}'r\bar{i}z$), $v.\ t.$, pret. and pp. borized, ppr. borizing. [bor(ox) + -ize.] To heat with boracic acid; specifically, to inject a solution of boracic acid into the circulatory apparatus of a slaughtered animal with the object of preserving the meat.

Borkholm beds. See *bcd1.

borlase (ber'läs), n. [Origin not ascertained.]
The blackfish or black ruff, Centrolophus niger, of the coasts of southern Europe.

Borneo camphene, tallow. See *camphene,

bornesite (bôr'nĕ-sit), n. [*Bornese (< Borneo + -ese) + -ite².] The monomethyl ether of inosite, C₆lI₁₁O₆CH₃. It is found in the caoutchoue of Borneo. It is crystalline, easily soluble in water, and melts at 175° C.

Bornhardt's machine. See *machine.

borofluoric (bô "rō-flö-or'ik), a. Same as fluo-

borofluoride (bō-rō-flō'ō-rid or -rīd), n. Same as fluoboride.

boroglycerate (bō-rō-glis'e-rāt), n. A tradename for each of two antiseptic preparations made by heating sodium borate (borax) or calcium borate with glyceriu.

boroglyceric (bō"rō-gli-ser'ik), a. [bor(ax) + glycer(at) + -ic.] Derived from boracie acid and glycerol.—Boroglyceric acid (H₃Bo₃), a compound of boracie acid with glycerol, supposed to exist in solutions containing both substances. It reacts as a monobasic acid, requiring for neutralization one motecule of sodium hydroxid for each molecule of boracic acid.

boroglycerin (hō-rō-glis'e-rin), n. [bor(ax) + glycer(ol) + $-in^2$.] An antiseptic patented by Barff and used for fruits and wines. It is prepared by heating 92 parts of glycerol and 62 parts of boracic acid to 200° C.

borol (bō'rel), n. [bor(ax) + -ol.] A material, patented under this name in Germany, which is made by melting boracic acid with alkaline bisulphates. It is soluble in water, and is proposed for use in the bating or removal of lime from hides in preparing them for tanning.

paring them for tanning.

Boron nitride, in chem., a curious white solid substance, insoluble in water and in most acids, obtainable by the direct action of the two elements, boron and nitrogen, upon each other at a high temperature, or more conveniently by heating to redness a mixture of borax and sa ammoniac and washing out all matter soluble in water and hydrochloric acid. Its composition is represented by the formula BN.—Boron trioxid, in chem., the anhydrid of boracic acid, obtained by heating this acid as long as vapor of water is given eff. The formula for the oxid is B₂O₃.—Diamond boron, an extremely hard crystallized form of boron. tallized form of bor

boron-bronze (bō'ron-bronz"), n. An alloy of aluminium and copper containing some boron, which last makes the alloy more dense and tough than aluminium bronze.

Boronia (bộ-rō'ni-ā), n. [NL. (J. E. Smith, 1798), named in honor of Francesco Borone 1798), named in honor of Francesco Borone (1769-94), an Italian botanist.] A genus of Australian shrubs of the family Rutaceæ. They have opposite leaves, odd-pinnate, trifoliate, or simple, pink-purplish, red, or white 4-merons flowers with a rue-like fragrance. There are about 60 species. The horticultural value of these plants is in their fragrance; a small specimen will perfume a whole house for two or three weeks. B. pinnatu, B. megastigma, B. denticulata, B. elatior, B. heterophylla, B. crenulata, are some of the species grown.

borophenate (bō-rō-fō'nāt), n. [bor(ax) + phen(al) + -ate |.] A mixture of salts of boracic acid and of phenol: as, bismuth borophenate, an antiseptic dusting-powder.

Borough council. See *council.-County borboroughmongery (bur'ō-mung ger-i), n. The buying and selling of parliamentary represen-

tation: boroughmongeriug. H. Martineau, borracha (bō-rā'chā), n. [Braz., < Pg. borracha. a leather bottle. This is the usual form in which the substance is prepared for market.] Caoutehouc or crude rubber when in the form layers of the dried and smoked rubber-milk which have been built up on a central stick or paddle during the smoking process. These layers are easily separated, and when stretched are very transparent. The rubber smells not unlike smoked bacon. See acoutchoue, india-rubber, and *rubber. [Brazil.]

borroto (bor-ō'tō), n. See *baroto.

borroto (bor-o to), n. See -ouroto.
borrow¹, n. 5. Same as borrow-pit.
borrow¹, r. I. trans. 5. A term used specifically in organ-building: (a) of a pipe which improperly takes the wind from another and sounds at the latter's expense; (b) of a stop or set of pipes which is incomplete in itself, but which is filled out by using some of the pipes of another stop or set: within certain limits the latter arrangement is entirely legitimate, since it renders possible the use of the same pipes in two distinct connections.—To borrow trouble, to be needlessly or unduly auxious, especially over misfortunes that are still contingent.

II. intrans. 2. In golf, when putting across sloping ground, to play the ball a little up the

slope to counteract its effect.

borrowed, p. a.

3. In organ-building, said of pipes or a stop. See *borrow, v. t., 5 (b). Borrowed days, in Cheshire, the first eleven days of May, regarded as taken, in the change from old style, from April.—Borrowed light, reflected light, as the light of the moon, which is merely borrowed from the sun.

bort, n.—Dutch bort, a local name given at the Kimberley diamond mines to zircon.

Borzor dog. See *dog.
boschveldt (bosh'velt), n. [D., 'bush land.']

A South African name for an open plain covered with bush.

Boscovichian (bos-kō-vieh'i-an), a. Pertaining to Ruggiero Giuseppe Boseovieh (1711-87), an Italian Jesuit philosopher, physicist, and mathematician, and particularly to his "Theory of Natural Philosophy," published in 1758. Discarding the unveritable metaphysical hypothesis that within a certain spherical surface about the center of each atom its inertia and attractive and repulsive force is distributed through space, so that at that surface there is a discontinuity and an infinite force, he supposed that the matter within that surface was, like the matter we see, to be explained atomically. He therefore made each atom to be confined to an absolute point where its inertia was concentrated, while in its attractive-repulsive force it was diffused throughout space, thus allowing this force to be infinite and repulsive at a spherical surface, should experiment require that hypothesis, although he held that in the existing state of knowledge the force seemed to vary so as to be attractive at some distances and repulsive at others.—Boscovichian point or atom, an atom, as above described, whose inertia is confined to a point.

hosh-water (bosh'wâ/tèr), n. Water which is Boscovichian (bos-kō-vieh'i-an), a.

bosh-water (bosh'wâ"ter), n. Water which is circulated around the outside of the boshes of a blast-furnace to prevent them from getting too hot.

Most of the power honses for these plants have their Most of the power houses for these plants have their steam boilers supplied by the waste blast gases, no additional finel being required; the bosh water which is circulated around the tuyeres and cooling plates of the furnaces can be used as condensing water, so that power can be generated very economically, as the power plants for this purpose generally use compound condensing engines of good steam economy.

Sci. Amer. Sup., March 7, 1903, p. 22727.

Bosnian group. See *group1. bosom-knee (buz'um-ne), n. A knee secured to a vessel's side and the after side of a deckbeam. Also called lap-knee.

boss¹, n. 10. In gcol., an irregular knob-like outerop of eruptive rock, especially of granite. outerop of eruptive rock, especially of grainte.

Geikie, Text-book of Geol., p. 722.— Boss of the
stern-post, in ship-building, that part of the stern-post
of a screw-steamship where it is swelled out to permit
the propeller-shaft to pass through it.

boss¹, v. II. intrans.—To boss up, to form a boss
or projection on the face of a forging, either by upsetting the metal of the forging or by welding on a piece.
Sometimes machining the edges of such bosses is also

called bossing up.

boss⁸ (bos), n. The worked-out portion of a mine; the goaf. Barrowman, Glossary. [Scotch.]

boss⁸ (bos), v. t. In mining, to hole or undercut.

Barrowman, Glossary. [Scotch.]

Bossardville limestone. See *limestone. boss-cockie (bos'kok"i), n. A slang name in the Australian bush for a farmer whose holding is large enough to require the employment of laborers to assist him in working it. E. E. Morris, Austral English. bossed (bost), a. [boss¹ + -cd².] Having a boss

ont or enlarged to form a boss or rounded pro-

steam-hammer used for welding the bosses on bothriocephaline (both ri-ō-sef'a-lin),

built-up car-wheels.

boss-plate (bos'plāt), n. In ship-building, one of the sharply curved plates of the outside shell of a serew-steamship, fitted around the sharply curved plates of the order of the sterm-frame and forming an energy of th

to receive the propeller-shaft.

boss-roll (bos'rol), n. An iron roll (formed with collars) over which a cylindrical boss, or shell, turns loosely: used in cotton-manufacturing as one of the draft-rolls of a drawing-

Also called shell-roll. frame.

boss-tool (bos'töl), n. A tool called a sleeker. used by molders for smoothing the sides and faces of boss-molds. The body of the tool is a cres-cent in cross-section and a flat foot turns off at right angles at one end; at the other end is a long handle or

Boston de Fontainebleau. See boston, 1.—French boston, the French method of declaring and paying in the game of boston. -French

Boston chaise, fern. See *chaise, *fern. bostonite (bôs'ton-īt), n. [Boston + -ite².] 1. A trade-name for Canadian asbestos, a variety of chrysotile or fibrous serpentine.—2. In petrog., a term proposed by Rosenbusch (1882) for certain fine-grained igneous rocks of the for certain fine-grained igneous rocks of the syenite family, consisting chiefly of alkali feld-spars (microcline, microcline-microperthite, anorthoclase or orthoclase). The texture is panautomorphic granular, with common tabular form and fluidal arrangement of the feldspars. Rosenbuseh regards bostonite as a lencocratic differentiation-product of syenitic magmas and as a typical 'dike-rock.' It is nearly the same as keratophure. First described from Marblehead Neck, not fur from Boston, whence the name.

bostrychid (bos'tri-kid), a. and n. I. a. Of or belonging to the collegenterons family Roston.

belonging to the coleepterous family Bostry-

II. n. A member of the Bostrychidæ.

Bostrychotd cyme. Same as bostryc.—Bostrychotd dichotomy. Same as hostryz.—Bostrychotd dichotomy (which see, under helicoid).

hosua (bō-sō'š), n. [Native name.] A tree of the rue family, Fagara monophylla, which yields a yellow wood. Its bark contains berberine and is used as a yellow dye. [Venezuela.] boswellic (boz-wel'ik), a. [Boswellia + -ie.]
Derived from plants of the genns Boswellia

—Boswellie acid, sn acid of unknown composition
found in olibanum. Also called boswellinic acid.

bot¹, n.—Emasculating bot, the larvs of a fly of the family Estridæ, Cuterebra emasculator, which lives in the genital and axillary regions of gophers and squirrels, bot⁵ (bot), n. [From the initials of "Board of Trade".] The English Board of Trade unit of electrical supply

electrical supply. **bot**⁶ (bot), n. 1. A dialectal form of bat^1 in various senses. Also spelled bott.—2. In founding, a clay plug used to close a hole against

molten iron.

B. O. T. An abbreviation of Board of Trade. botallackite (bo-tal'ak-īt), n. [Botallack+-ite².] A mineral containing copper as hydroxy-chlorid, found at the Bottallack mines, Cornwall, closely related to if not identical with atacamite.

Botal's duct. Same as ductus Botalli.

Botanic physician, a physician who uses no drugs except those of vegetable origin.

botanty, n.—Agricultural botany, that branch of the science of plants which relates to their utility in agriculture.—Commercial botany, that branch of botany which relates to plants or plant products which enter into trade.—Cryptogamic botany, that branch of botany which relates to the Cryptogamia, or flowerless plants.—Domestic botany, a body of simplified botanical information suited to home use.—Economic botany, the science of plants with reference to their uses, including, therefore, agricultural, commercial, medical, etc., botany, —Medical botany, the science of plants with reference to their uselical uses.—Ecological botany, that division of botany which relates to the correlation of plants with their environment; plant œcology. See *phytogeography.—Phanerogamic; botany, the botany of the Phanerogamia or flowering plants.—Tropical botany, that branch of botany which deals with the plants of the tropics.

bote⁴ (bō'tā), n. [Jap.] The Japanese name of a deep-bodied shiner of the family Cyprinida, Acheilognathus rhombeus, found in the waters

the formation of small fibrous tumors in the bottete (bō-tā'tā), n. [Mex. Sp.?] One of the swell-fishes, Spheroides lobatus, found from the Gulf of California to the Galapagos.

The formation of small fibrous tumors in the horse.

botryomycosis (bot"ri-ō-mī-kō'sis), n. [NL.,

botryomyc(es) + -osis.] A morbid condition

or bosses; specifically, in ship-building, swelled bothragonus (bo - thrag' o - nus), n. [NL., <

 $\beta\delta\theta\rho\rho\varsigma$, a pit, + NL. Agonus.] A genus of seapoachers typified by the species **B.** swanii of Puget Sound.

boss-frame (bos'frām), n. See *frame, 5, (b). Puget Sound.
bossing² (bos'ing), n. In mining, the holing or undercutting of a thick seam, as of limestone, the height of the undercut being sufficient for the height of the undercut being sufficient for 1. Same as bothrium. Van Beneden.—2. In Cestoidea, the cup or sucker carried by the -building Benham.

senting the extinct echinoids or sea-urchins of the order Bothrioeidaroida. They are nearly spherical bodies, the ambulacra earrying 2 vertical rows of plates in 5 series, and the interambulaera but a single row. The genus occurs in the Lower Silurian of Esthonia.

Bothriolepis (both-ri-ol'e-pis), n. [NL., \langle Gr. β oθρίον, dim. of β όθρος, a pit, $+\lambda \epsilon \pi' \epsilon$, a scale.] A genus of fossil fishes belonging to the Tamily Asterolepidæ, of the order Antiarcha. They are allied to Pterichthys, but have the remarkable pectoral appendages much longer. Like the other members of this family, it is found in the Old Red Sandstone deposits of Europe and America. See *Antiarcha, *Asterolepidæ, and Pterichthys.

Bothriothorax (both "ri-ō-thō'raks), n. (Ratzeburg, 1844), $\langle Gr. \beta \theta \rho i \sigma \rho, \dim \sigma \beta \theta \rho \sigma \rho,$ a pit, $+\theta \delta \rho a \xi$, breastplate.] A notable genus of chalcidoid hymenopterous parasites of the family Encyrtidæ. They have very coarse and thick punctures on the head and scutchlum and a long mesoscutum. The species whose habits are known are parasitic on dipterous larvæ, inflating the skin of the host in pupating.

of Bering Sea.

bothrocraspedote (both "ro-kras'pe-dot), a. [Gr. $\beta \delta \theta \rho \rho \sigma_0^2$, a hollow, $+ \kappa \rho \dot{\alpha} \sigma \pi \sigma \delta \sigma v$, edge.] In anthrop., having a hollow margin: said of the nasal skeleton. Jour. Anthrop. Inst., 1900,

bothropic (bo-throp'ik), a. [NL. *bothrops, a generic name ($\langle \text{Gr. } \beta \delta \theta \rho o c, \text{a pit, } + \omega \psi, \text{ eye, } \text{face} \rangle$, + -ic.] Noting a form of snake poison derived from the genus *Lachesis*.

Dr. Vital, . . . on further experiment, made the important discovery that there are two classes of snake poison, the bothropic and the crotalic, the first belonging to the genus Lachesis and the second to the genus Crotalus.

Sci. Amer., Aug. 13, 1904, p. 110.

Bothus (bō'thus), n. [NL., origin not ascertained.] A genus of flatfishes typified by the European brill, B. rhombus: distinguished from the turbot, Scophthalmus lævis, by the presence of true scales.

boton (bō-tōn'), n.; pl. botones (tō'nēz.) [Sp.] A button; specifically, the knot at the end of a rope used as a lariat. [Mex. and southwestern U. S.1

botong (bō-tong'), n. [Philippine Sp.; also bitung, biton, bitog, \(\text{Tagalog botong-botong} \) (Blumentritt), Bisaya bitoón. Not the same as Bisaya botong, the name of a large reed and of a liana.] A handsome littoral tree, Barringtonia speciosa, belonging to the Lecythidaeeæ, having large, glossy leaves and

333 Pal

having large, glossy leaves and white flowers with erimson Fruit of Botong (Barringtonia speciesa), stamens. The four-angled pyramidal about one fifth naturitii is widely used in the East Indies rai size. and on the tropical islands of the Pacific as a fish-intoxicant. In Guam it is called putting and in Samoa futu. See *Barringtonia. [Philippine Is.]

botoque (bō-tō'ke), n. [Pg. botoque, a stoneworn by the Indians (Lacerda), appar. connected with botoque, a hole in a cask or pipe; a bunghole.] An ornament worn in a perfora bunghole.] An ornament worn in a perforation of the lower lip; a labret. [Brazil.]

botrycymose (bot-ri-s'mōs), a. [Gr. βότρυς, a cluster of grapes, + E. cymose. Consisting of racemes or any botryose clusters cymosely aggregated. A. Gray.

Botryoidal tissue, in certain leeches, a peculiar growth surrounding the enteric canal, blood-vessels, and main lacunæ of the celoma, and consisting of branched rows of swollen cells containing dark pigment.

botryomyces (bot"ri-om'i-sēz), n. βότρυς, a cluster, + μύκης, a fungus.] A micrococeus, Staphylococcus botryomyces, which causes

caused by the presence of Botryomyees.

botryotherapy (bot ri-ō-ther a-pi), n. [Gr. βότρις, a cluster of grapes, + θεραπεια, cure.] Same as grape-cure.

Same as grape-cure.

Böttger's test. See *test1.

Bottini's operation. See *operation.

bottle?, n.—Cubic-foot bottle, an egg-shaped metallic vessel having glass tubes at the top and bottom and of a capacity of exactly one cubic foot between the water-lines of the two thoes: used in testing the correctness of gas-meters. W. L. Dibdin, Public Lighting, p. 83.

Hicks's bottles, certain long, delicate tubes, each with a bottle like inner extremity, found in the antennæ of bees and ants, 12 in the terminal segment and one or two in each of the others. Lubbock suggests that they may be microscopic setchoscopes, and Leydig thinks that they are chordotomic suggests that they may be microscopic stethoscopes, and Leydig thinks that they are chordotomic suggests that they are chordotomic suggests that they may be microscopic stethoscopes, and Leydig thinks that they are chordotomic suggests sugge



p. 292. — Jenny Lind bottle, a bottle with a glob-nlar body and long, slenderneck,

Mariotte's Bottle

long, slenderneck, Mariotte's Bottle. extensively made by American glass-manufacturers. This type was originated in the year 1850, when the famous singer came to America. See cut under *blowing-mold.—Mariotte's bottle, an apparatus for securing a uniform flow of a liquid, such as water. The liquid is placed in a two-necked bottle(with both necks on the ton, or one on the to) liquid is placed in a twonecked bottie (with both necks
on the top, or one on the top
and the other at the side)
fitted with air-tight stoppers,
an inlet-tube for air, and a
siphon or a stop-cock for
outlet. The outflow will be
greatly bettle, a special gravity as the difference of pressure
within and without the bottle is always equal
to a column of the liquid used whose height
equals the difference between the level between b and a.— Reischaner's bottle, a
special form of pyenometer in use by brewers.
—Soxhlet bottle, a special apparatus used
for the extraction of fat in milk or other substances.—Specific-gravity bottle, a flask
for the determination of the specific gravity
of gases, liquids, or solids.—Squibb's specific-gravity bottle, a special form of pyenometer which permits the liquid to expand without loss
of vapor during the process of weighing.

bottle-atom (bot'l-at*um), n. Same as bottle-



bottle-atom (bot'l-at "um), n. Same as bottle-

bottle-butted (bot'l-but"ed), p. a. See *swellbottle-coal (bot'l-kol), n. Gas-coal. Barrow-

man. Glossary. [Scotch.] bottle-kiln (bot'l-kil), n. A pottery kiln

shaped like a bottle.

Bottlenose oil. See *oil. bottle-pool (bot'l-pöl), n. An American game of pool played under various and conflicting rules. Its chief feature is that a leather bottle is placed, bottom upward, in the center of the table. To knock this over, under certain conditions, with the cue-ball increases the score. Two red balls and one cue-ball are used, and pockets and carons count.

bottle-stone (bot'l-ston), n. [Tr. G. Bouteillenstein.] A green and very pure glass, or glassy rock, which is found as rolled pebbles in the Motdau river, Bohemia: otherwise called

moldauite and pseudochrysolite. Smithsonian Rep. (Nat. Mns.). 1900, p. 516.

bottle-swallow (bot'l-swol"ō), n. A local name for the fairy-martin, Hirundo (Lagenoplastes) ariel, referring to the shape of its nest, which is built under eaves or overhanging rocks like the nests of the American cliff-swallow. The bird is widely distributed through

Australia and has been found in Tasmania.

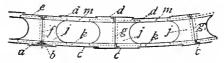
bottle-tight (bot'l-tit), a. So tight as to admit
of no leakage: used to signify that a boiler is without a leak at any rivet, seam, or joint when tested under steam pressuro.

bottle-tree, n. 2. Any tree with a swollen trunk. In examples of the dry, thorny bush of central Brazil (Cavanillesia arborea and other Bombacaceæ) the trunks are expanded like a cask up to a thickness of five meters. These trunks serve as water-reservoirs to carry

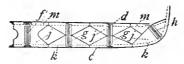
meters. These trunks serve as water-reservoirs to carry the tree through the dry season.

bottom, n., 4. (b) The lowest landing in a shaft or incline; the lowest working in a mine. (c) The lower portion of a seam or bed, as of eoal. Barrowman, Glossary. [Scotch.] (d)
In gold-mining, the old river-bed upon which the wash-dirt rests, and upon which the richest alluvial gold is found. Sometimes called the gutter. Austral English.—18. In golf, a backward rotation of the ball which tends to boucanelle (bō-ka-nel'), n. [Martinique F., aback its motion after it touches the (NL. buccanella, (?) L. bucca, mouth.] A

ground.—19. In saddlery, the portion of a martingale which passes between the horse's belly and the belly-band.—American bottom an alluvial plain bordering the east side of the Mississippi river in southern Illinois. Science, Mar. 18, 1904, p. 450-tom. Same as *crotalism.—Cellular bottom. Same as *crotalism.—Cellular bottom. Same as double *bottom.—Double bottom, in hipbuilding, the space between the outside and the inner bottom plating of an iron or steel ship. The inner and outer plating are separated by the frames and longitudinals, or framing of the double bottom. A certain number of these frames and longitudinals are made water-tight, proper name. 1 A genus of brachierods.



Cellular Double Bottom on the Bracket System of a War-ship.



Cellular Double Bottom on the Bracket System of a Merchant Vessel,

a, inner keel-plate; δ , outer keel-plate; ϵ , outside plating; d, inner hottom-plating; ϵ , inner keel- or keelson-plate; f, vertical keel; g, g, longitudnals; h, margin-plate; f, f, f, bracket-floors; k, frame-bar; m, reverse frame-bar.

thus dividing the double bottom into a number of cells, and the whole is sometimes called a cellular bottom. The cells are usually arranged to contain water ballast in merchant ships, and are then called ballast-tanks. Some of them are litted for the storage of feed-water for the boilers or drinking-water for the crew. Hence the double-bottom is sometimes called the vater-bottom.—Water-bottom. Same as double *hottom.

bottom, v. i. 3. In bot., to form a bull or other underground expansion, as an onion.—
4. In authorizing to get to the hed-rock or

4. In gold-mining, to get to the bed-rock, or clay, below which it is uscless to sink. E. E. Morris, Austral English.

bottom-blow (bot'um-blo), n. Same as *mud-

bottom-broth (bot'um-brôth), n. A fanciful name applied to the coze or slime found covering the floor of the sea, and formerly supposed to be living matter (called bathybius by Huxley).

Bathyblus, then, is now no longer known as Bathybius, but as 'bottom broth,' an exceedingly suggestive term, and it is supposed to be the inexhaustible supply of nourishment, the basal food store-house of the innumerable creatures that live and move, or simply live without movement, at or near the bottom of the sea.

Science, May 31, 1901, p. 847.

bottomer (bot'um-er), n. In mining, the person who loads the eages at the pit-bottom and gives the signal to bank. Coal and Metal Miners' Pocketbook.

bottoming (bot'um-ing), n. The act of forming a bottom or of placing on a bottom or foundation, as the fitting of a structure with a bottom, the placing of the ballast for a roadbed, or the Telford foundation for a pavement. bottoming-piston (bot'um-ing-pis"ton), n. A piston that touches the end of the cylinder and hence has no clearance.

bottom-line (bot'um-lin), n. A fishing-line stretched on the bottom and having attached to it short lines with hooks.

bottom-moraine (bot'um-mō-rān"), n. A ground-moraine. J. Geikie, The Great Ice Age, p. 39.

bottom-rot (bot'um-rot), n. A decay of the Bougainvillidæ (bö-gān-vil'i-dē), n. pl. [NL., base of trees, especially firs and spruces, caused by fungi, particularly Polyporus Hydromedusæ, with a conical hypostoma hav-Schreinitzii.

bottom-set (bot'um-set), p. a. Deposited conformably upon the sea floor, as in delta-building. See bottom-set *bed. Chamberlin und Salisbury, Geol., I. 191. ing. See bottom-set *bed. Chamberlin and bough¹+, v. I. trans. 2. To strip of boughs. Salisbury, Geol., I. 191.

botulism (bot'ū-lizm), n. [NL. botulismus, < I. botulus, sausage, + -ism.] Poisoning with bougie, n. 3. A pencil of paraffin or other

ptomaines of decomposing meat, especially potted meat or sausage, referable to a toxin produced by the *Bacillus botulinus*. Also botuismus.

The varieties of meat which have most frequently given rise to poisoning (Botulismus) are pork, ham, veal, sursages, brawn, various kinds of meat pies, and potted meats.

Eucyc. Brit., XXX. 600.

Bouchardia (bö-shar'dı-ā), n. [NL., Konenara, proper name.] A genus of brachiopods. They have elongate, smooth, radially colored shells, with elevated beak on the larger valve, the smaller or dorsal valve having a large-lobed cardinal process. The brachidlum consists of curved triangular processes uniting with a median septum. They live in the Caribbean Sea. boucherism (bö'shèr-izm), n. The practice or

process of impregnating timber with sulphate

process of impregnating timber with sulphate of copper, in order to preserve it. Notes and Queries, Sept. 10, 1892.

boucherize, v. t. 2. To impregnate (timber) with any preservative liquid by means of capillary absorption in a still living tree. The liquid is applied at the base of the trunk, beneath the bark, either with or without hydrostatic pressure.

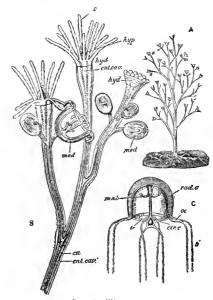
bouclée (bö-klā'), n. [F.. \langle boucler, buckle: see buckle, v.] The French name for what in billiards elsewhere is known as the hook-bridge, the forefinger of the bridge-hand infolding the

the forefinger of the bridge-hand intolding the

cue in its narrowest part. Broudfoot, Billiards, p. 109. See cut at *bridge.

bouderie (bö'dė-rē), n. [F., \langle bouder, pout: see boudoir.] Pouting; snlks. Thackeray, Newcomes, II. 239.

Bougainvillia (bö-gān-vil'i-ā), n. [NL., \(Bougainville \) (1729-1814), a French navigator.] The typical genus of the family Bougainvillidæ. Lesson, 1843. Same as Hippocrene, 2 (b). Mertens, 1829.



Bougainvillia ramosa

A, entire colony, about two thirds natural size; B, pertien of the same magnified; C, immature medusa; ctr. c, circular canal; cu, cuticle or perisare; cut. cav., enteric cavily; hyd., polyp or hydrauth; hyp., hypostoma or manubrium; med., medusa; muh., manubrium; rad. c, radial canal; t, tentacle; v, velum. (From Parker and Haswell's "Zoology," after Allman.)

ing a single row of filiform tentacles around its base. It contains Bougainvillia, Dicoryne, Peri-yonimus, and several other genera.

material which melts at the temperature of the body, with which some medicinal substance has been incorporated: employed for local medication of the urethra, uterus, or other canal into which it is introduced, the other canal into which it is introduced, the melting of the bougie liberating the drug.—
Bougie à boule ('ball bougie'), a bougie having a hulbous expansion at its extremity, employed to locate a constriction in a canal.—Bougie décimale, in photom, a standard of light defined as one twentieth of the Violle platinum standard and represented in practice by the light from a Hefner standard lamp. See light *standard.—Bougie de l'étoile, a French standard candle formerly used in photometry. See standard at acandle.—Filiform bougie, a very slender bougie of whalebone or other clastic material. bougie-meter (bö'ji-me'tèr) n. A unit of illubourbe, burbe (börb), n. [F. bourbe (Lamination used in photometry; the illumination produced by the flame of the standard Hefner money of account in Tunis, of the value of lamp at a distance of one meter. Same as

bougong, n. See *hogong.
bouillon, n. 3. A puff on a lady's dress; a puffed fold of the same material.

bouillotte (bö-lyot'), n. [F., a little boiler, \(\) bouillotte (bö-lyot'), n. [F., a little boiler, \(\) bouiltr, boil.] A device for heating and moistening the compressed air on a compressed-air locomotive by passing it through a tank of hot water on its way from the storage-

reservoir to the motor-cylinder. Sci. Amer. Sup., Oct. 17, 1903, p. 23236.

bouked (bökt), a. In mining, increased in size: for example, when a winding-drum is increased in diameter by lagging-strips, or the cylinder of a pump is enlarged by wear. Also

bouking (bö'king), n. In mining, segments of wood or other material used for increasing the diameter of a winding-drum (see layging, 3); hence, winding. When a rope is not coiling evenly on a drum it is said not to be bouking well. Barrowman, Glossary. [Scotch.]

Boulangism (bö-lon'jizm), n. The political policy and methods represented in France by

General Georges Ernest Jean Marie Boulanger (1837-91) from about 1886 to 1889. Its chief features were militarism and revenge upon Germany.

Boulangist (bö-lon'jist), n. A political follower of General Boulanger.

boulder-bed (bōl'der-bed), n. See *bed¹.

boulder-belt (bol'der-belt), u. A train of boulders deposited by a glaeier on melting. J. Geikie. The Great Ice Age, p. 742.

boulder-clay, n.—Great chalky boulder-clay, an unstratified mass of pale, dirty gray clay, more or less abundantly crammed with fragments of chalk and flint. This deposit is one of the lowest members of the glacial series of southern England. J. Geikie, The Great Ice Age,

boulder-cracker (bōl'der-krak"er). n. A heavy iron rod to be dropped upon a rock encountered by the drill in a deep well-boring. Stand. boutellt, n. Same as bottet.

boulderet (bôl-dér-et'), n. A small boulder. R. D. Satisbury, Geol. Surv. of New Jersey, 1893, p. 291.

boulder-fern (bol'der-fern), n. See *fern1. boulder-pavement (bol'der-pav/ment), n. An exposed bed of boulders such as might result from the removal of sand or clay, by waves or currents, from unsorted glacial deposits.

J. Geikie, The Great Ice Age. p. 523.

boulder-train (bōl'der-train), n. A train of frensis, of the Amazonriver. It is of variable color,

boulders, once a lateral moraine upon a glacier, now left stranded in lineal arrangement by the

melting of the ice-sheet.
boulder-wall (bol'der-wal), n.

boulder wall (bol'der-wal), n. A frontal moraine composed almost entirely of boulders. J. Geikie, The Great Ice Age, p. 467. bouleutai (bö-lū'ti), n. pl. [Gr. βουλευταί, pl. of βουλευτης, ζ βουλείευ, take counsel, ζ βουλή, counsel: see boule.] In Gr. autiq., members of the council or boule of a Greek city. See $boute^2$

bouleutic (bö-lū'tik), α. [Gr. βουλευτικός, βουλευτής, member of a council: see *boulcutai.] In Gr. autiq., pertaining to the boule or council of a Greek city: as, the bouleutic oath. boulevardist (bö'le-vär-dist), n. [boulevard]

+ ist.] Same as boulevardier.

bound³, p. a.—Bound energy. See ★energy.

boundary-rider (boun'da-ri-ri"der), n. A man employed on an Australian farm or 'station' to ride over the estate, inspecting the fences and gates.

The manager's lieutenants are the 'boundary-riders,' whose duty it is to patrol the estate and keep him informed upon every portion of it.

Scribner's Mag., Feb., 1902, p. 147.

bounder, n. 4. A dos-à-dos dog-eart brought out in Eugland in 1843.—5. A four-wheeled cab.-6. A vulgar, ill-mannered swell; a loud, boisterous person. [Eng. slang.]

The beautiful art [of dancing] . . . has fallen largely into the hands—or perhaps we should say feet—of hoydens, bounders, and acrobats.

World (London).

bouquet, n. 3. See the extract. Also called bouquet of herbs and fugot of herbs.

Parsley wrapped around peppercorns, cloves, bay-leaves, and other herbs excepting sage, and tied, makes what is called a bouquet. In this shape the herbs are more easily removed.

Century Cook Book.

bouqueted (bö-kād'), a. Furnished with a bouquet or with bouquets.

half an asper.

Bourbon metal. See *metal. bourdon², n. (e) In the hurdy-gurdy, the lowest open string, usually tuned to the C below middle Cor to the G below that. - Bourdon lace, tube.

Bourg la Reine porcelain. See *porcelain¹. Bourgueticrinus (bör-get-ik'ri-nus), n. [NL., Bourgueticrinus (bör-get-ik'ri-nus), n. [NL., ⟨F. Bourguet, a proper name, + Gr. κρίνον, a lily (see vrinoid).] A genus of Crinoidea, or en-erinites, typical of a family Bourgueticrinidæ. They have a small pyriform calyx with remarkably large centrodorsal plate, 5 basal plates, and 5 radials. This member of the family has been found in Jurassic, Creta-ceous, and Tertiary rocks, but Rhizocrinus, another rep-resentative, is found living to-day in the greater depths of the ocean. See Rhizocrinus.

bourneene (bör'nē-ēn), n. A liquid hydrocarbon from *Dryobalanops camphora*: now considered to be a mixture of the decompositionproducts of camphene.

bourrelet, n.—Buccal bourrelets, in certain echinoids or sea-urchins, fossil and recent, especially those belonging to the family Cassidulide, lip-shaped ridges formed when the ambulaeral areas about the peristome are sunken and the interambulaera are swollen. The entire combination forms a floscelle about the mouth.

bourrette (bö-ret'), n. [F. bourrette. coarse silk, $\langle bourre$, refuse silk, etc.: see bur¹, n., 7.] An inferior grade of spun silk, made from the waste in the manufacture of schappe silk. It is often used as wett for dress-goods, knit goods, fancy fabries, insulating lagging for steam-pipes, etc.

Boussingaultia (bös-in-gâl/ti-ä), n. [NL.

(Humboldt, Bonpland, and Kunth, 1825), named in honor of Jean Baptiste Joseph Dieu-donné *Boussingault* (1802–87), a Freuch chemdonne Boussinganti (1802-07), a factorial ist, who traveled in South America. A genus of plants of the family Basellaceæ. It contains about 10 species, all climbing herbs of tropical America.

B. baselloides, commonly known as Madeira-vine or mignonette-vine, a native of Ecuador, is a popular perennial-rooted but tender twiner, used for porches, in greenhouses, and in window-gardens. It produces a profusion of small white fragrant flowers in racemes. See also Madeira-vine.

boutgate (bout'gat), n. In mining, a road by which the miners can reach the surface; a traveling-way around a shaft at a landing; a traveling-road from one seam to another. Bar-

frensis, of the Amazon river. It is of variable color, often pink or pink and black, attains a length of 8 feet, and is regarded with superstitious reverence by the Indians.

A frontal **bouton**, n. 2. In entom., the spoon-like or boulders, button-like extremity of the tongue of the honey-bee. A. S. Packard, Text-book of Entom., p. 80.

boutonnière (bö-ton-iār'), n. [F.] 1. A buttonhole bouquet.—2. In surg., an incision into the urethra for the removal of an impacted calculus.

pacted calculus.

Bovey-Tracey lignites. See *lignite.

bovicide (bō'vi-sid), n. [L. bos (bov-), ox, + c-cida, < cæderc, kill.] A slayer of oxen; a butcher. E. Phillips.

bow2, n., 4. (j) A curved piece of metal used to make contact with an electric wire to get current for operating a car. This how is nsed in place of a trolley.—Composite bow, in archery, a bow made of two or more pieces of wood, bone, sinew, or other material joined together longitudinally. See bow2, 2.—Reflex bow, in archery, a bow, concave on the back when unstrung, the curve of which is reversed in stringing it.—Springing bow, in violin-playing, same as saltato.—Twilight bow or twillight arch. Same as treitight curve. It is most distinct when the snn is only a few degrees below the horizon, and is then reddish at the upper edge. As it rises (after sunset) it becomes more indistinct, and practically disappears before reaching the zenith.

bow3, n.—In bow! an order given to the bow-oarsman

bow³, n.—In bow! an order given to the bow-oarsman 90W³, n.—In Dow! an order given to the bow-oursman of a single-hanked hoat, signifying that he is to cease rowing, ship or boat his on, and stand up with his boat-hook to catch hold of the dock, float-stage, or vessel's side to hold the boat steady after the landing has been made. The plural form, in boves, is used in the case of a double-banked boat, where there are two bow-oarsmen.

bowback (bō'bak), n. The whitefish, Coregonus clunciformis.

bow-chock (bou'chok), n. In marine hardware, a chock with two arms which are bent over and nearly touch in the middle: used on yachts

bow-cithern (bō'sith"ern), n. See *cithern, 2. boweled, bowelled (bou'eld), p. a. 1†. Disemboweled: as, "a hare already bowelled."—

2. Having recesses or hollow places: as, "the bowelled cavern," Thomson, Summer, p. 133.

Bower-Barff process. See *process.
bowl², n. 7. The main cylinder or drum of a

calico-printing machine, against which are pressed the engraved copper rollers; a calender-roller.—8. An antiriction roller in the pedal-motion of the feeding-device of a cottonpedal-motion of the feeding-device of a cotton-scutcher or picking-machine.—Stocks and bowls, a set of loon-levers, either circular or oblong, connected with the harnesses for operating them when the same number is required to be litted at each pick of the weft. bowl², v. t.—To bowl off one's pads, in cricket, to bowl (a batsman) by a ball which strikes him on the leg-guards. Hutchinson, Cricket, p. 312. bowl-ball (bôl'bāl), v. A game of the natives of North Australia, consisting in welling a ball

of North Australia, consisting in rolling a ball or disk along a sloping place and discharging small spears at it as it rolls.

bowl-disk (bol'disk), n. Same as *bowl-ball. bow-light (bou'lit), n. A large lantern, usually with a Fresnel globe, placed at a ship's bow. bowlin, n. A simplified spelling of bowline. Bowline lizard. See *lizard.

bowling?, n.—Break bowling, in cricket, bowling in which the ball, after pitching on the ground, changes its course. Hutchinson, Cricket, p. 33.—Length bowling, in cricket, bowling which has the proper length or pitch. See length *ball.

bowly (bō'li), n.; pl. bowlies (-liz). [Also bowlee, bowry. Hindi baoli, bāorī, Marathi bāvadī, Telugu bāvidī.] A large rectangular well, provided with steps leading down to the water, and with recesses for travelers to rest The providing and maintenance of such tanks is a favorite object of native benevo-

lence. [Anglo-Indian.]

bowmanite (bō'man-it), n.

man of Oxford, England.]

A rare phosphate of aluminium and calcium, related to hamlinite. It occurs in rosettes of thin rhombohedral crystals of honey-yellow color, and is found in the dolomite of the Binnenthal, Switzerland.

bow-mark (bố/märk), n. In archery, a target or mark to be shot at.

bow-pencil (bō'pen"sil), n. See bow-pen. bow-plating (bou'pla-ting), n. In ship-build-ing, the outside shell-plates of a steel or iron vessel, covering the bows and extending to the

A portion of the heavy iron stem of the former was nearly wrenched out of place, and the armour and box-plating, etc., abitting on the stem were considerably disturbed.

White, Manual of Naval Arch., p. 339.

traveing-road from the first see bodega, apothee.] A shop or place where goods are sold at retail.

De houte hote, bode, from White, Manual of Naval Alem, properties bow-rest (bō'rest), n. An iron projection placed at the rear corner of a carriage-seat as a support for the lower end of the top-joint, and also for the bows when the top is lowered. bow-rudder (bou'rud"er), n. A rudder sometimes fitted at the bows or under the fore part of the keel of vessels intended for special purposes, as torpedo-boats, to give great turning power, or to permit the vessel to steer more easily when going astern.

of the anxiliary appliances fitted to increase the steering power of ships, the most important are bow rudders. These rudders are rarely fitted except in vessels which are required to steam with either end foremost; to avoid the necessity for turning, or to be capable of service in rivers or narrow waters where there is little room for turning, or to meet some other special requirement.

White, Mannal of Naval Arch., p. 699.

bowstring-truss (bō'string-trus"), n. A form of truss in which the upper chord or compression flange is made in the form of a 'bow' or curve, preferably a parabola, and the lower chord or tension-member is a straight line. The truss resembles a bow and string, whence its name.

bow-wave (bou'wav), n. The wave set up at the bows of a vessel under way. The crest of the wave is inclined diagonally outward and aft on each side from the bow.

During each interval occupied by a ship in advancing through a distance equal to the length of her entrance the sets of particles then contiguous thereto undergo accelerations which lead to the production of the box-vacer, and this interval of time depends upon the ratio of the length of entrance to the speed of the ship.

White, Mannal of Naval Arch., p. 457.

bowyer¹, n — Master bowyer, the chief bowyer. box¹, n. 2. A name in Australia (usually with a distinctive epithet, as bastard, black, white, etc.) of many eucalypts, and of a few trees of the genus *Tristania*, belonging to the same family: applied ehiefly because of the qualities of ily: applied ehiefly because of the qualities of their timber, which more or less resembles true boxwood. See the phrases below. In Australia the name is also applied to several shrubs or trees on account of their odor, which resembles that of the true box (see China *box), or of their dwarf habit with leaves like the true box (see heath *box and native *hox).— Baskard box, Eucalyptus goniovalyx, E. bicolor (also called cooburn). E. longiolia, E. microtheca, E. polyanthemos, E. populnea (also called bembil or red box). Tristania conferta, and T. laurina.—Black box, Eucalyptus obliqua, E. bicolor, and E. microtheca.—Box family, the plant family *Buxacex* (which see), including the genus Buxus, which contains the common box.—Box reaction.—Brisbanebox, Tristania conferta.—Broad-leafed box, Eucalyptus acmenioides.—Brown box, Eucalyptus polyanthemos.—Brush box, Tristania conferta.—Cape box, a grayish spiny shrub, Celastrus buxifolia, common in Sonth Africa; it resembles the ordinary box in growth.—China box, Chalcas Camuneng, of the rue family, a perfume plant: found also in India and China.—Dwarf or flooded box, Eucalyptus microtheca. Also called goborro and swamp-gun, from its habit of growing on land inundsted at flood time.—Gray box, Eucalyptus obliqua.—Box of land and land.—Rative box, Buxaria spinosa, a forage-plant belonging to the Pittosporacex. Also called box-thorn and native olive.—Poplar box, Eucalyptus populnea.—Red box, Eucalyptus populnea.—Red box, Eucalyptus populnea, Red box, Eucalyptus populnea, and Tristania conferta.—See bastard *box and *benbil.—Tasmanian box. Same as native *box. See *box-thorn, 2.—Thozet'a box, Eucalyptus Raveretiana.—White, box, Eucalyptus hemi-pholoa, E. odorata, E. populnea, and Tristania conferta.—Yellow box, (b) Eucalyptus hemi-pholoa, E. odorata, E. populnea, and Tristania conferta.—Yellow box, (b) Eucalyptus hemi-pholoa et colore.—Heath or colore.—Heath or colore.—Heath or colore.—Heath or colore.—Heath or colored. their timber, which more or less resembles been boxed. See *drift. true boxwood. See the phrases below. In Australia box-edged (boks'ejd), a.

box2, n., 9. In mach .: (g) A die for cutting the thread on a wooden screw .- 16. In irrigation a device for measuring water through a small flume of reetangular section .- 17. In turpentine-making, the cavity cut in a pine-tree to reeeive the resin which flows from the scarified surface above.-18. In mining, a small mineear; a hutch; a tub.-19. A mix-up of things that should be kept apart, as different flocks or mobs of sheep. [Australia.]

Great care must of course be taken that no two flocks come into collision, for a box, as it is technically called, causes an infinity of trouble, which is the reason that the stations are so for any stations are so far apart.

C. H. Eden, My Wife and 1 in Queensland, p. 67.

C. H. Eden, My Wife and 1 in Queensland, p. 67.

Batsman'a box. See *batsman.—Box of tricks. Same as *building.motion.—Circular box., a cylinder with chambers for shuttles, attached to the lathe of a loom and moved forward and backward as may be necessary to bring the desired shuttle and yarn within striking range of the picker. Also called recotrage box. [Eng.]—Clifford's box, in math., a hollow purface with tubes running through it, into the form of which a Riemann's surface may be distorted.—Three-part box, a molding-box or-flask consisting of three part, and used for molding those patterns in which the middle section must be distinct from the top and bottom, as in the case of a grooved pulley. Lockwood, Dict. Mech. Eng. Terms.

box², v. t. 6. To mix up or allow to be mixed up (things, such as different flocks of sheep, which should be kept apart). [Australia.]

which should be kept apart). [Australia.]

All the mobs of different-aged lambs which had been hitherto kept apart were boxed up together.

A. C. Grant, Bush Life in Queensland, p. 253.

7. To grain or board on the grain side with a graining-board, to give skin a rough or pebbled effect. Modern Amer. Tanning, p. 83.

box⁴ (boks), n. [L. box, $\langle \text{Gr. } \beta \tilde{\omega} \xi, \beta \delta a \xi, \text{ a certain fish, prob. an imitative name. See boguc².]$ A sparoid fish, Box boops, known from the Mediterranean to the southern coast of England.

box-bill (boks'bil), n. A tool for recovering boring-rods.

box-cage (boks'kāj), n. A bird-cage opening

box-calf (boks'käf), n. Originally, ealf leather of a rough or thick variety, as used in box-toes now, a chrome-tanned calfskin, either in black

how, a curome-named canskin, either in black or colors and usually grained or boarded.

box-cañon (boks'kan*yon), n. In phys. geog., a narrow, flat-floored valley inclosed by nearly vertical walls or cliffs. [Western U. S.]
box-chisel (boks'chiz*el), n. See *chisel2.

box-chronometer (boks'kro-nom'e-ter), n. A marine clock of great accuracy, set to the time of a certain prime meridian, and employed in the calculation of the longitude at sea. It derives its name from the box inside which it is hung in gimbals, so that it may always maintain a horizontal position irrespective of the rolling and pitching of the ship.

box-colored (boks' kul' ord), a. In leather-

manuf., colored in a box or tray of dye. Flemming, Practical Tanning, p. 80.

box-coupling (boks'kup"ling), n. A coupling for coupling two shofts.

for connecting two shafts. A collar is fastened on

the end of each of the shafts to be joined, the two are brought together, and a box or rim is slipped over them and keyed to both.

Box-dressing machine. See *dressing-ma-

box-drift (boks'drift), n. A drift which has

With a border of box, as a parterre or path in a garden. box-elder (boks-el'der), n. See clder² and Ne-

gundo.—Box-elder leaf-roller, plant-bug. See **leaf-roller, **plant-bug.** boxer2, n. 2. [cap.] A member of a Chinese

association known as Yi Ho Ch'uan Huuy, "The Righteousness, Harmony, and Fists Society," organized in China in 1900 or earlier, ostensibly for the practice of athletics, but really as a league for the expulsion of foreignreally as a league for the expulsion of foreigners and the uprooting of Christianity. Aided by the regular army, and egged on and led by officials and persons of the highest standing, the Boxers murdered large numbers of native Christians, missionaries, and other foreigners, destroyed much property, attacked the foreign legations in Peking, and besieged the British legation there for over two months, until the rising was suppressed by the military forces of the principal treaty powers.

boxer3 (bok'sėr), n. A bowler or low-erowned stiff felt hat; a billycock hat. [Australia.] box-gear (boks'ger), n. A differential gear used on bending-rolls and motor-vehicles. In discipling diameter.

In the former case it prevents a calendering action on the plate by either roll; in the latter it enables the driving-wheels to move over different distances when turning corners or curves, or when for any reason the two wheels are of differing diameter.

box-groove (boks'gröv), n. A close groove between two rolls, formed by a collar on one roll fitting between collars on another roll.

boxhead (boks'hed). n. The squaw-fish, Pty-ehocheilus oregonensis, one of the largest of the minnows, ranging from British Columbia southward to Oregon.

box-honey (boks'hun"i), n. Honey stored by box-tubular (boks'tū"bū-lär), a. A name ap-

the bees in specially prepared boxes.

boxing¹, n. 7. In mining, a method of securing shafts solely by slabs and wooden pegs.

Coal and Metal Miners' Pocketbook.

boxing-up (bok-sing-up'), n. Specifically, the process of constructing large patterns by making them hollow instead of by using solid planks

box-keel (boks'kēl), n. In iron shipbuilding, a keel built of plates and angles in box form. Not now used.

box-keelson (boks'kēl"son), n. A heavy keelson eonsisting of plates and angles arranged to give a closed, rectangular section.

box-kid (boks'kid), n. See *box-ealf.
box-level (boks'ley"el), n. A meta A metallie box (generally circular) with a glass cover used as a spirit-level. The bubble of inclosed air is brought into coincidence with a circle engraved at the center of the cover.

box-link (boks'lingk), n. A slotted link each side of which is of U-section, so as partly to embrace the sliding-block and prevent it from dropping out.

box-loom (boks'lom), n. A loom with two or more shuttle-boxes at either end of the lathe.

T.W. Fox, Mechanism of Weaving, p. 388.

box-loop (boks'löp), n. A long leather loop pressed or worked up square, creased and ornamented, used in a harness in place of a number of short loops.

box-mangle (boks'mang'gl), n. A mangling apparatus, consisting of a reetaugular wooden box weighted with stone or iron and run to and fro over rollers upon which the fabrics to be mangled are wound. Also called chestmangle. See mangle². box-mill (boks'mil), n.

See *box-tool.

box-motion (boks'mo"shon), n. The mechanism for operating the shuttle-boxes of a loom. For, Mechanism of Weaving, p. 352.—Eccentric box-motion, a mechanism for operating the drop-boxes for shuttles in a loom by means of two or more eccentrics capable of being moved either independently or conjointly.

Box-nailing machine. See *nailing-machine. box-nut (boks'nut), n. A nut which is closed on one end; one which does not have a hole elear through; a eup-nut. Such ants are commonly used on the axles of wagons to hold the wheels on.

box-package (boks pak a), n. A package in the package of the package o

the form of a box: used on the Pacific coast for packing fruit for shipment.

The box-package is preferable to the barrel.
Yearbook, U. S. Dept. Agr., 1901, p. 606.
box-piston (boks pis*ton), n. A hollow piston made by coring out the interior of the piston when easting it.

box-spanner (boks'span'(r), n. A spanner for turning or holding bolts whose heads are in recesses and so caunot be caught by au ordinary wrench.

box-standard (boks'stan"dard), n. The column or standard which forms the main frame of a machine and is hollow, thus obtaining strength and rigidity with little material.

box-staple (boks'sta"pl), n. The staple or keeper into which the bolt of a lock is shot, when the staple is so made as to box in, or cover, the end of the bolt.

box-step (boks'step), n. In car-building, a step or a short flight of steps inclosed at the sides

by a stringer or guard; a platform-step in a passenger-ear.

boxstones (boks'stonz), n. pl. See nodule

box-stoop (boks'stop), n. A stoop of which the steps are divided into two or more flights, which therefore has a platform and projects into the street as a mass of some height.

box-tappet (boks'tap"et), n. A cam on a loom for working the shuttle-boxes. T. W. Fox, Mechanism of Weaving, p. 305.

box-thaler (boks'tä*ler), n. A coin made to open like a box and contain objects: confined to certain German states and Savoy.

box-thorn, n. 2. A spiny, bushy tree of Tasmania, Bursaria spinosa, yielding a hard white wood resembling boxwood and used in turnery

box-tool (boks'tol), n. An attachment to a lathe for holding cutting-tools used in cutting the exterior surfaces of objects turned in the the exterior surfaces of objects turned in the lathe; a turner. It is named from the shape of the tool-holder. A box-tool used, with special cutter, for finishing the ends of rods is called a pointing-box. A modified form earrying several cutters is called a box-mill. Another form of box-tool is used on screw-machines.

plied to tubular boilers in which the envelop-ing shell was made up of flat surfaces, care-fully stayed against bulging, with the hot gases passing through tubes between the par-

allel surfaces. The shape suggested a box.

box-wallah (boks'wol"ä), n. [Hind. bakas-wālā, < bakas, < E. box, + wālā, a man, agent.] A native peddler or itinerant merchant. [Anglo-Indian.

Indian.]

boxwood, n.—Cape boxwood, the wood of Buxus Macowani, a medium-sized tree of Cape Colony. It is nearly identical with the common boxwood and can be split easily into thin plates. The kamassi is also known commercially by this name and as kuysna boxwood. See kamassi.—Knysna boxwood. See cape *boxwood.—New Zealand boxwood (Maori maire), a species of olive, often lanceotata, used locally for making woodcuts, and said to be superior to the true boxwood for that purpose.—Rule boxwood, the hard golden-yellow wood of Macaglia Vargasii, a tree of the dog's-bane family native to Veneznela. It is used for measuring-rules, loom-shuttles, etc., and in turning and pyrography. Also called zapatera and amarillo.—West Indian boxwood. Same as rule *boxwood. The wood usually reaches the markets by way of the West Indies.

by way of the West Indies.

boy¹, n.—Bowery boy. A young rowdy of a type once common in the Bowery, in New York city, the analogue of the London *Arry (which see). See Bowery in the Century Cyclopedia of Names.—Cappe boy. A South African half-breed resulting from the union of a native hlack and a settler of another race.

boyla (boi 'lä), n. An aboriginal Australian

soreerer. [Australia.]

B. P. An abbreviation of (a) Bachelor of Painting; (b) Bachelor of Philosophy; (c) British Pharmacopæia; (d) British public.

B. P. B. An abbreviation of Bank post-bill. B. Ph. An abbreviation (a) of Bachelor of Philosophy; (b) of British Pharmacopæia. Br. An abbreviation of British.

brab (brab), n. [Anglo-Indian form of Pg. *braba, brava, wild (se. palmeira, palm-tree).] The palmyra-palm, Borassus flabellifer. See palmyra, 1.

brabant (bra-bant'), n. A foreign base coin eurrent in England in the time of Edward I.

Brabant crown, sovereign. See *erown.

brab-tree (brab'trē), n. Same as *brab. braça (bra'sā), n. See brass², 2. brace¹, n., 1. (b) In any frame, a stiff piece,

as a bar or strip, put in to prevent a parallel-ogram or the like from changing its shape under pressure or strain. It acts usually by dividing the parallelogram into triangles or by forming a smaller triangle at one corner of the parallelogram, thus stiffening that part of the frame.

14. (b) Same as brace-head.-17. A short, thick bar lying above the suture between two pyramids in the dental apparatus of Echinus. -18. In saddlerg, the short strap which connects the hip-strap and the breeching-body .-

19. An old measure of weight. A Hurley brace was equal to 4 cwt. [Scotch.]—20. In mining, a platform at the top of a shaft on which miners stand to work the tackle. Coal and Metal Miners' Pocketbook.—Brace-game.

brace-box (brās'boks), n. A box from which the eards can be taken two at a time at the pleasure of the dealer; used in dealing taro.

Braced arch. See *arch!.

bracelet-wood (bras'let-wid), n. A name in

racelet-wood (bras'let-wad), n. A name in the West Indies of a small tree of the family Myrsinaceae, Jacquinia armillaris, so called on account of its hard seeds, which are made into bracelets. Also called currant-tree, barbasco, and joe-rood.

brace-wrench (bras'rench), n. A tool with a square head boxed out to receive a threaded nut. The head is attached to a branch shank, which is joined at the top and is fitted with a square head tapered to enter the brace-stock: used for turning nuts on bolts.

to enter the brace-stock: used for turning nuts on boits.

brachial. I. a.—Brachial cavity, in a brachiopod, the anterior part of the shell-cavity, in which lie the arms or brachia.—Brachial disk, a horizontal structure which occupies the center of the subumbrellar surface of Rhizostomæ and which is formed by the fusion of the proximal ends of the arms. The mouth is thus completely closed, and food is ingested through the numerous small suctorial mouths leading into the network of canals in the arms and thence into the stomach.—Brachial ossicles. Same as actinosts.—Brachial sinuses. In certain Paleozoic nautiloid cephalopods, the aperture of the shell is greatly contracted about the base of the tentacles and hyponome, giving the opening a T- or Y-shaped figure. The shorter arms of this opening, which may be variously lobed, are termed brachial sinuses, the longer arm the hyponomic sinus.—Brachial thecæ. See *theca.

II. n. 4. In the morphology of the Crinoidea, one of the calcareous plates which compose

one of the calcareous plates which compose one of the calcareous plates which compose the arms. The application of the term has varied with different writers, some restricting it to the plates of the free arms, others applying it to all plates in the radial series lying above the lowermost circlet or true radials. In the latter case the radials include some of the body-plates, and these have been subdivided into costals, distichals, and palmars, whether free or fixed.

brachiation (brak-i-ā'shon), n. [NL. *brachiatio(n-), \ *brachiare, swing by the arms, \ L. brachium, arm.] The act of swinging by the arms from tree to tree, a method of locomotion employed by the yilbons. [Rare.]

tion employed by the gibbons. [Rare.]

The hand of the chimpanzee is adapted for brachiation, Proc. Zool. Soc. London, 1899, p. 306,

brachiator (brak'i-ā-tor), n. An animal that swings by its arms from tree to tree. [Rare.]

The arm of the chimpauzee is that of the brachiators, anthropoids like the orang and gibbon which use the arms as one of the main organs of locomotion.

Proc. Zool. Soc. London, 1899, p. 355.

brachidium (bra-kid'i-um), n.: pl. brachidia (-ä). [NL., $\langle Gr, \beta \rho \alpha \chi(i\omega v) \rangle$ (L. brachium), arm, + Gr. -i $\delta i\omega v$.] The shelly calcareous spiral or loop-shaped supports of the fleshy arms or brachia in the Brachiopoda; used collectively of the entire apparatus irrespective of division into symmetrical parts.

into symmetrical parts. brachigerous (bra-kij'e-rus), a. [L. brachium, arnı, + gerere, bear.] Same as brachiferous. brachiocœle (brak'i- $\bar{\phi}$ -sēl), n. [NL., \langle Gr. $\beta \rho a \chi (\omega v)$, an arm, + $\kappa \sigma i \lambda \sigma c$, a hollow.] In the Brachiopoda, the anterior portion of the cavity of the valves, wherein lie the brachia. Brachionocephala (bra- $k\bar{\nu}$ - $\bar{\phi}$ - $n\bar{\sigma}$ -sef'a- $l\bar{a}$), n. pl. [NL., \langle Gr. $\beta \rho a \chi (\omega v)$, an arm, + $\kappa \epsilon \phi a \lambda \bar{\eta}$, a head.] A name proposed in 1862 by Bronn as a substitute for Brachimoda (Dumeri) 1806).

stitute for Brachiopoda (Dumeril, 1806).

A name proposed in 1862 by Bronn as a substitute for Brachiopoda (Dumeril, 1806).

Brachiopoda, n. pl. In recent years extensive studies of the Brachiopoda have been made: by Joubin on the anatomy of recent species, by Hall and Clarke on the anatomy of recent species, by Hall and Clarke on the anatomy and taxonomy of fossil forms, and hy Beecher on ontogeny and phylogeny. It is now generally conceded that a classification based on the absence or presence of hinge-teeth, which is the foundation of that introduced by Deshayes, Owen, Bronn, and Huxley, or on the perforation or closing of the anns, as in King's scheme, has a value restricted to fully accomplished phylogenetic phases or ontogenetic conditions. In Beecher's classification, variation in the nature of the pedicle-opening is assumed as the basis of ordinal divisions, and the stages of shell-growth and its accessory developments of those of minor value. This classification establishes the following orders: (1) Atremata, in which the valves are unbinged and the pedicle emerges freely between them. These are subcircular or elongate shells in which growth takes place freely in all directions except posteriorly. Obolus and Lingula are typical genera. (2) Neotremata, in which the valves are also hingeless, cone-shaped, with the pedicle restricted to the ventral valve and the pedicle aperture modified by a deltidium or listrium. These are circular, often largely calcareous shells (Aerotreta, Orbiculoidea, Discina). Crania ano its allies have lost the pedicle by atrophy and are either attached by cementation of their valves or are wholly free. (3) Protremata, in which an articulate hinge is developed in progressed forms, the pedicle is restricted to the ventral valve, the deltidium originates on the dorsal side of the larval body but becomes ankylosed to the brachia are unsupported by calcareous processes. (Strophomena, Thecidium, Pro-

ductus, Orthis, Pentamerus.) (4) Telotremata, in which the pedicle-passage is shared by both valves in early growth, but is conflued to the ventral valve at maturity and modified by deltidial plates which are morphologically distinct from the deltidium and have a later origin in ontogeny. The valves are hinged, the brachia supported by calcarcous crura, loops, and spirals. (Rhymchonella, Terebrotula, Spirifer, Atrypa.) With the increased knowledge of the structure, distribution, and vertical range of the extinct brachiopods, the number of genera has been augmented to about 400, living and extinct, represented by some thousands of species, 2000 species being recognized in the Paleozoic rocks of North America alone, while about 150 species are now living.

brachiopodist (brak-i-op'ō-dist), n. One who is proficient in knowledge of the Brachiopoda. brachioradialis (brak i-ō-rā-di-ā'lis), n.; pl. brachioradiales (-lēz). One of the muscles of the arm, the long supinator of the radius.

Brachiospongia (brak'i-ō-spon'ji-ä), n. [NL., ζ (ir., βραχιων, an arm, + σπόγγος), a sponge.] A genus of hexactinellid sponges having the form of a broad-mouthed, shallow vase with a single series of broad pouch-like hollow extensions about the base. It occurs in the Silurian rocks of the Mississippi valley.

brachisthode (brak'is-thod), n. [Gr. βράχιστος, shortest, $+ \dot{\phi}\dot{\phi}\dot{\phi}_c$ way.] The shortest line between two points on the earth's surface; the geodetic line. Rep. U. S. Coast and Geodetic Surv., 1896, p. 293.

brachistocephalous (bra-kis-to-sef'a-lus), a. Same as brachistocephalic. brachistocephaly (bra-kis-tō-sef'a-li), n. In

anthrop., the character, state, or condition of being brachistocephalic.

brachistochronic (bra-kis-tō-kron'ik), a. [Gr. βράχιστος, shortest, + χρόνος, time.] That can be traversed, accomplished, etc., in the shortest processible in the shortest process est possible time under the conditions then prevailing; of or pertaining to the brachisto-chrone: as, a ball may roll from A down to B, or an earthquake wave may pass from a to b, by the brachistochronic path. Rep. Brit. Ass'n Advancement of Sci., 1990, p. 76.—Brachisto-chronic curve, a curve representing the path which a body moving freely in a field of force must follow in order to reach a given point in the least time. See brachisto-chrone.

Brachium inferius cerebelli, the inferior peduncle of the cerebellum.—Brachium opticum, one of the processes which extend from the corpora quadrigenina to the optic thalanus.—Brachium quadrigeminum. Same as *brachium opticum.—Brachium superius cerebelli, the superior peduncle of the cerebellum.

brachyaxis (brak-i-ak'sis), n. [Gr. βραχίς, short, + L. axis, axis: see axis.] The brachydiagonal axis, that is, the shorter lateral axis

diagonal axis, that is, the shorter lateral axis of an orthorhombic (or triclinic) crystal. brachybiostigmatic (brak'i-bi'\bar{0}-stig-mat'ik), a. [Gr. $\beta \rho a \chi' i \beta o c$, short-lived, $+ \sigma \tau i \gamma \mu a$ for 'stigma.'] In plant αcol , having the stigma short-lived: said of proterogynous flowers in which the stigma quickly withers. Opposed to $\star macrobiostigmatic$. F. Delpino. brachybiostigmatous (brak''i-bi''\bar{0}-stig'matus), a. Same as $\star h pachybiostigmatic$.

tus), a. Same as *brachybiostigmatic. brachybioty (brak-i-bī'ō-ti), n. [Gr. $\beta \rho \alpha \chi^i \gamma$, short, + $\beta i \sigma \tau \phi$, life.] Brevity of life as contrasted with longevity and considered in relation to inheritance. [Rare.]

Miss Beeton working solely at the material thus provided was enabled to form fairly extensive tables for the inheritance of longerity in the female line, and also with somewhat less extensive data for the deaths of infants to form some appreciation of what we have elsewhere termed the inheritance of brachybioty.

Biometrika, Oct., 1901, p. 51.

brachycardia (brak-i-kär'di-ä), n. [NL., ζ Gr. βραχύς, short, + καρδία, heart.] Same as *bradycardia.

brachycephal (brak-i-sef'al), n. One of the brachycephali; a brachycephalic person.

The brachycephals had also larger heads than the doli-locephals. Geog. Jour. (R. G. S.), XVI. 290.

brachyceral (bra-kis'e-ral), a. [Gr. $\beta \rho a \chi \dot{\nu} \zeta$, short, $+ \kappa \dot{\epsilon} \rho a \zeta$, horn, $+ \ddot{-} \ddot{a} l$. Same as brachy-

brachycercic¹ (brak-i-ser'sik), a. [Gr. βραχίς, short, + κέρκος, tail.] Having a short tail. Philos. Trans. Roy. Soc. (London), ser. B, 189, 173,

brachycercic² (brak-i-sėr'sik), a. [Gr. βραχύς, short, $+ \kappa \epsilon \rho \kappa i \epsilon$, the radius, the tibia, a rod or Brachyopsinæ (brak"i-op-si'nē), n. pl. comb of a loom, $\langle \kappa \epsilon \rho \kappa o \epsilon$, tail, handle.] Having $\langle Brachyopsis + -inæ$.] A subfamily

anthrop., characterized by or exhibiting a skull of less than middle length.

In both races platycephaly is associated with brachy-cranial characters—the association vanishing, however, for the Naqada males, and being more marked for the French. Biometrika, Aug., 1902, p. 462.

brachydactylism (brak-i-dak'ti-lizm), [brachydaetyly + -ism.] A condition in which the fingers or toes are abnormally short. Buck, Med. Handbook, IV. 493.

brachydactylous (brak-i-dak'ti-lus), a. [Gr. βραχίς, short, + δάκτυλος, finger.] Having abnormally short fingers.

brachydactyly (brak-i-dak'ti-li), n. [Gr. βραχίς, short, + δάκτυλος, finger.] Same as *brachydactylism. Buck, Med. Handbook, IV. 494.

Brachydeuterus (brak-i-dū'te-rus), n. \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]
 genus of grunts of the family Hæmulidæ. B.
 \[
 uaritus is found in western Africa. The other species are
 \]
 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχύς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχίς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχίς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(Gr. βραχίς, Short, + δευτερός second.\right] A
 \]

 \[
 \left(

brachydomal (brak-i-do'mal), a. Same as brachydomatic.

brachydont (brak'i-dont), a. Same as brachyodont. Philos. Trans. Roy. Soc. (London), March, 1903, p. 110.

brachydontism (brak'i-don-tizm), n. Same as *brachyodontisn

brachyellipsoid (brak-i-e-lip'soid), n. [Gr. **Brachyellipsoid** (brak-1-e-lip' soid), n. [Gr. βραχiς, short, + cllipsoid.] In anthrop., a short eranium of ellipsoid form. G. Sergi, Var. of the Human Species, p. 49. brachyfacial (brak-i-fā'shal), a. and n. [Gr. βραχiς, short, + L. facies, face, + -al.] **I.** a. Having a short face. Buck, Med. Handbook, VII 921

VII. 231.

II. n. Same as *chamæprosope. Deniker,

Races of Man, p. 60.

Brachygenys (bra-kij'e-nis), n. βραχές, short, + γένυς, ehin.] A genus of grunts of the family Hæmulidæ, characterized by the small mouth. The one species known, B. chrystargyreus, 6 inches in length, is abundant about Key West and Havana. [NL., < Gr.

brachygnathism (bra-kig'na-thizm), n. [Gr. $\beta \rho \alpha \chi^{i} \varsigma$, short, $+ \gamma \nu \hat{a} \theta \circ \varsigma$, jaw, + -i s m.] The condition of having an abnormally short lower jaw. brachygraphic (brak-i-graf'ik), a. Of or pertaining to brachygraphy, or shorthand: as, brachygraphic characters.

brachygraphical (brak-i-graf'i-kal), a. Samo as *brachygraphic.

short, + leρόν (ὀστέον), sacrum, + -ic.] Having a short sacrum. See *platyhieric. Amer. Anthropologist, Jan. - March, 1901. p. 34.

brachyhypsicephalic (brak-i-hip"si-se-fal'ik), a [Gr. βρομα short sacrum. See *platyhieric. Amer. Anthropologist, Jan. - March, 1901. p. 34.

oracnynypsicepnanic (prike-i-nip si-se-iai ia), a. [Gr. $\beta \rho a \chi^i c$, short, $+ i \psi c$, on high, $+ \kappa \epsilon \rho a \lambda h$, head, + -i c.] In anthrop.. having a short and high head or skull. Man, 1901, p. 190. Brachyistius (brak-i-is'ti-us), n. [NL., $\langle Gr. \rangle$] Brachyistius (brak-i-is'ti-us), n. [NL., \langle Gr. $\beta \rho a \chi i \gamma$, short, $+ i \sigma \tau i o \nu$, sail (alluding to the dorsal fin).] A genus of surf-fishes of the family Embiotocidæ. It comprises a single species, B. frenatus, a small carnivorous fish, living on sandy shores from Vancouver Island to Guadaloupe.

brachykerkic, a. Same as *brachycercic.

Brachymetopus (brak'i-me-to'pus), n. [NL., \langle Gr. $\beta \rho a \chi i c$, short, $+ \mu \epsilon \tau \omega \pi o v$, front, face.] A genus of trilobites, belonging to the family Proëtidæ, having a semioval head and tail-shield (the latter being large), the glabellum small, and the entire surface covered with bead-like ornament. It is found in Carboniferous rocks and is one of the last representatives of these an-

brachyodontism (brak'i-ō-dont"izm), n. state or condition of being brachyodont or having short-crowned molars: used in describing

ing short-crowned molars: used in describing teeth of mammals. Also brachydontism. Proc. Zool. Soc. London, 1893, p. 180.
brachyodonty (brak'i-ō-don*ti), n. Same as *brachyodontism. Trans. Linnean Soc. London, Zoöl., Nov., 1899, p. 446.
brachyome (brak'i-ōn), n. [NL., < Gr. βραχές, short, + ωμος, shoulder (see humcrus).] In the nomenclature of the spicular parts in the sponge, the abbreviated arm of a *trider (which see). (which see).

 \[
 \begin{align*}
 & Brachyopsis + -in\(\overline{x}\). A subfamily of seapoachers of the family \(Agonid\(\overline{x}\), containing 3. a short forearm; in anthrop., having a radio-humeral index less than 75. Turner.

brachycnemic (brak-ik-nē'mik), a. [Gr. $\beta\rho\alpha\chi\nu_{\xi}$, short, $+\kappa\nu\mu\eta$, tibia.] In anthrop., having a tibiofemoral index less than 83. Turner.

brachycranial (brak-i-krā'ni-al), a. [Gr. $\beta\rho\alpha\chi\nu_{\xi}$, short, $+\kappa\nu\mu\eta$, tibia.] In β the family β the family β and β and β are found in the North Paeiffe, brachycranial (brak-i-krā'ni-al), a. [Gr. $\beta\rho\alpha\chi\nu_{\xi}$, short, $+\kappa\rho\alpha\nu$ and β are family β dez), n. [Gr. βραχίς, short, + πεντάρωνος, five-cornered, + είδος, form.] In anthrop... κ cranium the norma verticalis of which has the form of a pentagon with rounded corners, and with short distances between the parietal and fron-tal protuberances. Sergi, Var. of the Human

Species, p. 30.

Brachyphyllum (brak-i-fil'um), n. (Brongniart, 1828), ζ Gr. βραχίς, short, + φίλλον, leaf.] A genus of fossil coniferous plants characterized by short and thick scale-like leaves tightly appressed to the stems, for the most part rhombic in shape and regularly arranged so as to form a graceful pattern. It is most abundant in the Rhætic, but ranges from the Trias to the Lower Cretaceous, being found in both Europe

Brachyptera (bra-kip'te-rä), n. pl. [NL., ζ Gr. βραχύς, short, + ππιρού, wing.] An old name for the rove-beetles of the coleopterous family Staphylinidæ.

brachyrhomboides (brak"i-rom"bō-i'dēz), n. [Gr. βραχές, short, + NL. rhomboides, rhomboid.] In anthrop., a cranium the norma verticalis of which has a rhomboid form, the rhomboid being wide in transversal direction.

Sergi, Var. of the Human Species, p. 31.

brachysclereid (brak-i-sklō'rē-id), n. [Gr. βραχν, short, + E. sclereid.] In bot., one of the sclereids or stone cells that occur in bark and in fruits.

Brachyscome (hra-kis'k $\bar{\phi}$ -m \bar{e}), n. [NL. (Cassini, 1816), \langle Gr. $\beta \rho \alpha \chi i \varepsilon$, short, $+ \kappa \dot{\phi} i \eta$, hair; in allusion to the short pappus.] A genus of herbaceous plants of the family Asteraceæ. There are about 50 species, chiefly Australian. The only species under cultivation, B. iberidifotia, is commonly known as the Swan River daiay, a very graceful asterlike annual of easiest cultivation. It has blue or white delay like flowers: dalay-like flowers

brachystaphyline (brak-i-staf'i-liu), a. [Gr. βραχίς, short, + σταφυλή, the (swellen) uvula, + -ine¹.] In anthrop., having a short palate, especially having a palate with an index more than 85. Virchow.

In both sexes there is sensible correlation between the palate and orbital indices, hypsiconchy being associated with brachystaphyline characters.

Biometrika, Aug., 1902, p. 460.

Biometrika, Aug., 1902, p. 460.

brachystaphyly (brak-i-staf'i-li), n. [brachystaphyly (brak-i-s

tham, 1866-67), $\langle \text{Gr. } \beta \rho \alpha \chi i \varsigma, \text{ short, } + \sigma \tau \epsilon \gamma \eta,$ covering. The name refers to the scantiness of the floral protective organs.] A genus of trees of the family Cæsalpiniaccæ, with even-pinuate leaves and terminal racemes, or rapinnate leaves and terminal facemes, or ra-ceme-like panicles of small flowers. These have no ealyx and only rudimentary petals. The stamens and pistil are covered in the hud by a pair of bracts. There are about 12 specles, natives of tropical Africa. Several of them have tough fibrous inner bark, which is used by the natives for making bark-cloth. The most important are Brachystegia spicæformis of the Zanzibar coast and B. appendiculata of southeast Africa.

brachytmema (brak-it-me'mä), n. [NL., \langle Gr. $\beta \rho a \chi i \varsigma$, short, $+ \tau \mu \bar{\eta} \mu a$, section.] In bryot., a disk-shaped cell which on rupturing sets free a gemma. Correns.

brachyuranic (brak-i-d-ran'ik), a. [Gr. βραχύς, short, + ουρανός, palate, + -ic.] Having a short palate; specifically, in craniom., having a palatomaxillary index of more than 115. Amer. Anthropologist, Jan.-March, 1901, p. 42.

bracingness (bras'ing-nes), n. Bracing quality

or effect.

brack²t, n. II. a. Brackish; salt; briny: as,

"living upon heef and brack water." Southey,

Quarterly Rev., XXXV. 117.

brack⁴ (brak), v. t. [G. bracken, inspect and

assort (goods), < brack, inferior goods, refuse:

see brack², n. Cf. cull³, v. and n.] To inspect

and essert (graduet etc.) at the Baltic certs. and assert (produce, etc.) at the Baltic ports by sworn selectors.

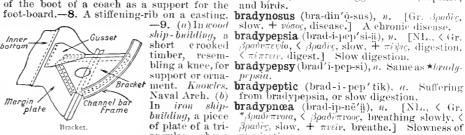
All flax and hemp shipped from Memel must be bracked assorted. Homans, Cyclo. of Commerce, p. 1343. brack4 (brak), n. [brack4, v.] A long-estab-

lished system of official inspection and assorting of produce and other goods at the Baltic seaports.

brackebuschite (brak'e-bush-it), n. [Named after D. Luis Brackebusch of Buenes Aires.] A vanadate of lead, iron, and manganese, found in Argentina.

bracker (hrak er), n. [G. bracker, \langle bracken, inspect and assort (goods): see brack4, v.] An official inspector and assorter of goods in ports on the Baltic. See *brack4, v. t.

brachypentagonoides (brak"i-pen"ta-gō"nō-i' bracket¹, n. 1. (e) In carriages, a heavy dēz), n. [Gr. $\beta \rho \sigma \chi i c$, short, $+ \pi \epsilon \nu \tau \dot{\sigma} \mu \nu c c$, five-standard placed at an incline at the front end of the boot of a ceach as a support for the



support or orna-In building, a piece of plate of a trishape angular

uniting, at their junction, two parts which meet at an angle to strengthen the joint against at an angle to strengthen the joint against flexure. A bracket differs from a guiset in that it meets at least one of the surfaces to which it is attached angularly, being secured thereto by a riveted flange or a piece of angle-bar. The two terms are loosely used interchangeably. See **emport the joint of a shaft. — Pendulum bracket, a shaft-hanger; a fixture projecting below a ceiling to support the joint of a shaft. — Pendulum bracket, a spinning-mule.

The two terms are loosely sections, the slow and gentle movements of elevation or depression in the Earth's crust.

Geog. Jour. (R. G. S.), XIII. 544 bracket on rectal with the winding-motion of a spinning-mule.

Bracket 1. v. t. 3. In ship-building, to unite by

bracket¹, v. t. 3. In ship-building, to unite by
a bracket.

[Gr. bracket-floor (brak'et-flor), n. In iron shipbuilding, a floor-plate of bracket form uniting the frame, reverse frame, and longitudinal in the framing of a double bottom. See cut un-

werse irame-bar, and bracket-floors.

bracket-fungus (brak'et-fung''gus), n. A fungus growing on a tree-trunk and forming a bracket or shelf-like projection, as many of the polyporoid fungi. See Polyporus (cut a).

bracket-plate (brak'et-plāt), n. In ship-building, same as *bracket¹, 9 (b).

slow, + -τροφος, < τρέφειν, nonrish.] Marked by slowly acting nutritive processes.

bradyuria (brad-i-u'ri-ä), n. [NL., ⟨Gr. βραδί'ς, slow, + οὐρον, urine.] Slow and difficult urination.

bracket-plate (brak'et-plāt), n. In ship-building, same as *bracket¹, 9 (b).

bract, n., 2. (b) The oval distal exite on the appendages of certain segments of phyllopod crustaceans, as Apus, probably serving a respiratory function.

bractea (brak'të-ë), n.; pl. bracteæ (-ē). [NL.: see bract.] One of the scale-like protective structures found on certain Siphonophora and considered to be greatly modified medusoids. Same as bract. 2.

riety of fergusonite from Norway.

braquero (brä-gå'rō), n. [Sp., a truss, band, c braque, a cord (pl. braqu

bracteated (brak'tē-ā-ted), a. Same as brac-

bracteose (brak'tē-ōs"), a. [Nl. *bractcosus, bractea, a bract.] Furnished with numerous or large bracts; conspicuously bracteate. bractiferous (brak-tif'er-us), a. In bot., bract-

bearing.

bract-scale (brakt'skal), n. In bot., a braet constituting a proper scale of the cone in con-ifers, and bearing or subtending the seedbearing scale when this is present. It may surpass or be surpassed by the latter. Bradford clay. See clay.

Bradford clay. See clay. Bradleyanism (brad'lē-an-izm), n. The doctrine of F. II. Bradley, an English metaphysician, a mixture of intellectualism, absolute idealism, and skepticism.

in metaphysics.

Bradley's process. See aluminium *processes, brad-punch (brad'punch), n. A small nail-set; a steel red about 3 inches long, tapered to set; a steet rod about 3 inches long, tapered to a blunt point at one end and used for driving brads, or small nails, so deeply into the wood that the heads will be below the surface. bradycardia (brad-i-kär'di-ä), n. [NL., \langle Gr. $\beta \rho a \delta i \gamma$, slow, $+ \kappa a \rho \delta i \alpha$, heart.] Abnormally slow pulsation of the heart.

The opposite condition to tachycardia, namely, brady-cardia, is frequently met with in applicants for life insurance.

Med. Record, Feb. 7, 1903, p. 206.

bradylecithal (brad-i-les'i-thal), a. [Gr. βρα-δίς, slow, + λέκιθος, the yolk of an egg.] In

embryol, applied to certain eggs which have much yolk, such as the eggs of sharks, reptiles. and birds.

ment. Knowles. bradypeptic (brad-i-pep'tik), a. Suffering Naval Arch. (b) from bradypepsia, or slow digestion.

from ship- bradypnea (brad-ip-ne'i), u. [N1u. < Gr. ding, a piece * $\beta \rho a \delta v \pi v o a$, < $\beta \rho a \delta v \pi v o a$, < $\beta \rho a \delta v \pi v o a$, < $\beta v e i v$. breathing slowly, < date of a tri- $\beta \rho a \delta v \pi$, slow, $+ \pi v e i v$. breathe.] Slowness of respiration.

bradyseism (brad'i-sīzm), n. oradyseism (brad'i-sīzm), n. [Gr. βραδίς, slow, + σεισμός, an earthquake.] In geol., a single slow rise or fall of the land. See the

and fall of the land with regard to the sea.

The fact that round the borders and upon the summit of hidden domea and tablelanda there are at present displays of seismic and volcanic activity, leads to the belief that sub-oceanic bradyseismic action is yet in progress.

[Geog. Jour. (R. G. S.), X. 131.

bradyseismical (brad-i-sīs'mi-kal), a. Same as *bradyseismic.

bradytrophic (brad-i-trof'ik), a. [Gr. βραδίς, slow, + -τροφος, < τρέφειν, nonrish.] Marked

ing, same as *bracket1, 9 (b).

At the turn of the bilge there is a continuous water-tight longitudinal frame, and upon this the vertical frames are stopped short, their heels being connected to the longitudinal by bracket-plates.

Bracktwise (brak'et-wiz), adv. In the manner of a bracket; so as to resemble a bracket.

Bracklasham beds See *bed1.

eommoniy used in compounds: as, cuaay-orae.

Barrownan, Glossary.

brag, n. 3. It is played with 3 cards in the hand of each player, something like poker, but the ace and nine of diamonds and the jack of elubs are braggers, and may be called anything the holder pleases, 2 kings and a bragger being equal to 3 kings.

bragger, n. 2. In the game of brag, the ace, the nine of diamonds, the jack of clubs. The bolder of any of these cards can call it any-

riety of fergusonite from Norway.

Brahmani, Brahmini, n. See Brahmanec. Brahmanian stage. See *stage.

Brahmanization (brä - man - iz - a 'shon), Conversion to Brahmanism. Also Brahminization.

Caste is in a state of transition owing to the rapid Brahmanization of the Dravidian races of the mountain region.

Geog. Jour. (R. G. S.), X. 120.

Brahmaputra (brä-ma-pö'tra), n. [Named from the Brahmaputra, river of northeastern

India.] A variety of the domestic hen better known as brahma. See brahma³.

Brahminization. Same as *Brahmanization.
Brahmism (brä'mism), n. Samo as Brahmanism.

braid¹, n.—Honiton braid, narrow machine-made braid of ornamental oval figures connected by narrow

This is Aristotelianism in contrast with Bradleianism braided (brā'ded), p. a. Specifically, anastometaphysics.

Bradled (brā'ded), p. a. Specifically, anastomosed or interlaced: said of a stream.

This extensive deposit, in some places 500 feet thick, is the product of aggradation by braided or laced atreams, whose load of material from the mountains could not all be carried across the gentle slope of the plains.

Science, Nov. 15, 1901, p. 778.

braid-fern (brād'fern), n. See *fern. braid-stitch (brād'stich), n. In sewing-machine work, a method of stitching with a coarse thread designed to give to the fabric an orna-

mental finish resembling braid.

brail, n. 3. A section of a log-raft, six of which make an average tow. [U. S.]—Foot-

bradycrotic (brad-i-krot'ik), a. [Gr. βραδίς, slow, + κρότος, rattle (pulse).] Marked by a slow pulse.

Mea. Record, Feb. 7, 1903, p. 206. brails, the lowest brails on a sall. braille (brâl, F. brā'y), n. [Named from the slow pulse.] A method of writing or printing for the blind.] combinations of tangible dots or points are used to represent alphabetical letters. There

are several systems, which differ considerably in details and have undergone various modifications. Thus in the and have undergone various modifications. Thus in the British system the base is a group of six dots in two celumns of three dots each ! ; from which the letters are made as follows: A ! ; B ! ; C ! ! ; etc. In are made as follows: A : [, B : [, C :] , etc. In the New York point system, which is extensively used in the United States, : is the first base, : : the second, : : : the third, and : : : : the fourth; and the letters are: A : : : , B : : : , C : : : : , ct. This notation is adapted to indicate capital and lower-case letters, numerals, punctuation, abbreviations, syllables, and musical notes and signs.

and musical notes and signs.

brain, N.-Abdominal brain. See solar plexus, under plexus.—Brain center. See *renter.—Calyx of the brain. See *calpx.—Central ganglia of the brain. See *calpx.—Central ganglia of the brain. See *canglion.—Dropsy of the brain, hydrocephalus.—Great brain, the cerebrum.—Little brain, the cerebrial bellum.—Silent regions of the brain. Same a sesseication *careas.—Viallanes's tritocerebral lobes of the brain, in enton... division of the embryonic brain intercalated between the antennal and mandibular segments.

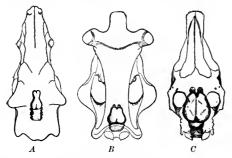
A. S. Packard, Text-book of Enton., p. 51.

brainal. (brain) (a. [Brain + ad.]). Of or

brainal (bran'al), a. [brain + -al.] relating to the brain: as, brainal normality. Science, May 2, 1902. [Rare.] brain-cap (brān'kap), u. Same as brain-box.

The brain-cap of many savages has been found to be larger and heavier than that of some higher races. Keane, Ethnology, p. 46.

brain-cast (brān'kāst), n. A cast or filling, natural or artificial, of the cranial cavity.



Restorations of the Brain in Successive Genera of Ungulates,
Dinoceras (Eocene); E, Brontotherium (Miocene);

C, Modern Horse. (From Marsh.)

Brain-easts are approximate restorations of the brain surface and the principal nerve-trunks departing therefrom. brain-eye (brān'ī), n. In polyclads, one of a group of eyes lying above the brain: distinguished from tentacular *eyes and marginal

The eve-spots have an arrangement very similar to that found in the latter species. There is a dense cluster at the base of each tentacle; the paired group of brain-eyes lying in front of the brain is more extensive than that behind it.

Proc. Zool. Soc. London, 1903, 11. 100.

brain-stem (bran'stem), n. The crura cerebri, pons Varolii, and medulla oblongata.

braird, r. II. trans. In coal-mining, to widen the undercut or holing in a coal-seam. Barrowman, Glossary. [Scotch.]

brairding (brar'ding), n. In coal-mining, the height of undercut or holing in front. Barrow-

man, Glossary. [Scotch.] brake³, n. 13. In eracker-baking, a machine for rolling dough, to be used in making gingersnaps and other thin cakes, into sheets gersnaps and other till cakes, into sheets ready for the panning-machine. It consists essentially of rolls between which the dough is passed to pressit into a sheet. A reversible brake is one having aprons on each side of the rolls to enable the operator to pass the sheet through in opposite directions by reversing the rolls. See panning-machine.

14. In sheet-metal work, a machine for bending and forming sheet metal used in making

ing and forming sheet-metal, used in making ing and forming sheet-metal, used in making larger forms such as metal cornices; a cornice-brake.—Alden brake, a device for absorbing and measuring the power developed by an engine. The power is absorbed by overcoming the friction developed by one disk pressing on another against which it is forced by water-pressure which can be varied to suit the power to be absorbed.—Atmospheric brake. Same as vacuumbrake.—Brake horse-power. See *horse-power.—Counter-pressure brake, an air-brake so constructed that a certain pressure must be overcome to release the brake. This makes a very sensitive brake, particularly snitable for controlling the speed of a train on down grades.—Differential brake, a brake which is applied by a differential motion.—Electric brake, any brake worked by electricity, either by a magnet or by a solenoid, or otherwise. See magnetic *horake.—Emergency brake, a brake for use in case it is desired to stop a train or car as quickly as possible, without regard to the inconvenience caused by the shock due to the quick arrest of motion.—Expanding brake, a brake, applied to the inner side of a wheeling, usually made of two or more parts which are pushed apart or expanded from within, instead of clasping the rim from without.—Hand-brake, in car-building, a brake operated by hand; the most simple form of brake; a mechanical brake as distinguished from an air-brake.—High-speed brake, a form of Westinghouse sir-brake designed to secure greater safety for high-speed railway-trains from a quick and powerful application of the brakes, if desired. larger forms such as metal cornices: a cornice-

inch, instead of 70 pounds, in train-pipe and reservoirs. The brake-cylinder under each ear has a special reducing-valve, the function of which is to allow high-pressure air from the train-pipe to vent into the brake-cylinder, causing a momentary pressure there in excess of that permissible at the time of the stop. This type, in experiments at 80 miles per hour, reduced the distance required for the stopping of a train by 20 per cent, as compared with the length passed over when the same train was equipped with the quick-action brake only.—Hydraulic brake, a form of power train-brake in which the orake-heams that force the brake-shoes against the wheels of the car are actuated by pistons in hydraulic eylinders. When the brakes are to be applied, water or other liquid under pressure is admitted by pipes and valves to the cylinders, and the brakes are applied with the necessary power. The difficulty in getting and keeping the water-pressure and that from freezing in cold weather-prevent extensive or satisfactory use of this system.—Hydropneumatic brake, a brake which is operated by compressed air and the resistance offered by a liquid flowing through a confined channel. Such brakes are often used to take up the recoil of guns. The first shock is taken up by the compressed air and the rest of the recoil by forcing a liquid through a passage that is smaller at the back end than at the front, thus making an angmented resistance.—Instep brake, a crimping-brake which uses a special form of forming-die to shape the shoe to the instep.—Magnetic brake, any brake which is actuated by a magnet. Sonetimes it is applied by the magnet, and sometimes the magnet is used to release the brake which is applied by the action of levers, rods, cranks, etc., and not by an electric current or air-pressure.—Pneumatic brake, an air-brake.—Prony's brake. Same as Prony's dynamometer (which see).—Reversible brake, an apparatus used in cracker-bakeries to prepare cakedough in sheets for the panning-machine. It consists of rollers with a plat inch, instead of 70 pounds, in train-pipe and reservoirs.

brake⁴, n.—Cedar brakes. See *cedar.
brake⁵, n.—Chinese brake, Pteris serrulata, a Chinese species established in the southeastern United States.—Winter brake, Pelleva atropurpurae: so called because it remains green throughout the winter.

brakeage (brāk'āj), n. [brake + -agc.] Braking power or action. See brake³, n., 9, and brake³, v. t., 2.

brake-band (brāk'band), n. Same as brake-

brake-dog (brak'dog), n. The pawl of a brake-

brake-finger (brak 'fing "ger), n. Same as *brake-dog.

brake-gear (brāk'gēr), n. In car-building, the brake-system of a railroad-car, including all its component parts. It includes all the pipes, hose, air-cylinders, chains, rods, brake-shoes, etc.

brake-handle (brāk'han"dl), n. In car-build-ing, a hand-lever for controlling a brake, used only in a special type of brake-gear. It takes the place of the ordinary brake-wheel.

brake-hose (brāk'hōz), n. A superior grade of air-hose, composed of rubber and cotton fabric, used in short lengths to connect the brake-pipes under a railroad-car and to convey compressed air to the brake-gear .- Armored brake-hose, brake-hose protected by wire wound tightly round the outside to prevent injury by abrasion. Any lose protected by wire may be termed an armored hose.—Brake-hose conpling, a self-locking coupler for connecting the ends of brake-hose between railway cars and forming an air-tight connection between them.

brake-pipe (brāk'pīp), n. A pipe for carrying compressed air to an air-brake cylinder. Encyc. Brit., XXVI. 342.

brake-power (brak-pou"er), n. Same as brake *horse-power.

brake-rod (brak'rod), n. The rod by which a brake is operated; the rod connecting the operating lever to the brake.

brake-rubber (brāk'rub"er), n. A brake-shoe.

brake-steve (brak'siv), n. A jigger operated by a hand-lever. See jigger1, 2 (a). brake-signal (brak'sig"nal), n. In car-building and railroading, any signal that the brakes are to be put on; a *train-signal (which see). brake-sled (brāk'sled), n. A logging-sled so constructed that, when the pole-team holds back, a heavy iron is forced into the road-bed on the side of each runner of the forward sled.

braking-machine (brā'king-ma-shēn"), n. machine used to soften skins. It consists of a

large wheel with several dull blades projecting from the rim which come in contact with the skin. bramathere (bria'ma-thēr), n. An animal of the genus Bramatherium.

bramble-shark (bram 'bl - shärk), n. $\star shark1$.

branch, n. 2. (m) In math., some one determination of a many-valued function selected for consideration. Thus the values $\log x$, $\log x + 2\pi i$, $\log x + 4\pi i$, . . . , may be said to belong to different branches of the function $\log x$. (n) In coal-mining, a

road in long-wall working leading off a level, heading, or other main road.

branchage (branch'āj), n. [branch, n., + -age. Cf. leafage.] Branches collectively or in the mass.

Leafage and branchage, vulgar eyes admire. Browning, Ring and Book, x. 275.

branch-climber (branch'kli "mér), n. A liana supported by irritable curling branches, not otherwise different from the ordinary climber, that is, from one bearing leaves and lateral shoots. It is exclusively tropical and subtropical. See *tendril-climber.

branch-cut (branch kut), n. In math., a line, quite arbitrary (except that it cannot intersect itself), which either passes trom a branch-point to infinity or joins two branchpoints.

brancher, n. 3. In flower-making, one who attaches the branches to the main stems.

branch-grass (branch'gras), n. The creek-sedge, Spartina stricta maritima. It grows along channels in salt-marshes. See Spartina.

branchiæ, n. pl.—Dermal branchiæ, prolongations (like glove-fingers) of the interior membrane of echinoderms, as the starfishes, which protrude through the dermal pores and serve as respiratory organs. They are retractile and are covered with ciliated epithelium.—Secondary branchiæ, structures of various form which, as in mollusks, perform the respiratory tunction in case of the absence or atrophy of the true ctenidia.

of the absence of atrophy of the true etenidia.

Branchial Cartilage, one of the eartilaginous rods or bars in the branchial arches of sharks or of the embryos of higher animals. —Branchial filament. —Same as gill-pianent. — Branchial fistula. See *pstula.—Branchial formula, a table showing the number and arrangement of the gills, as in crustaceans.—Branchial junction, a transverse band uniting the first-formed or primary septa of the branchial apparatus of the lancelet, Branchiostoma. —Branchial pocket, in zool., a pouchlike dilatation of the branchial slits in the cyclostomes, larval Balanoglossus, etc. —Branchial rod, a chitinous rod forming the support of the lamella, or septum, between each pair of branchial openings in the lancelet.

Dranchicolous (hrang - kik 'o - lus). a. [L.

branchicolous (brang-kik'ō-lus), a. [L. branchia, gill, + colere, till, dwell.] Living in or on the gills of fishes or other aquatic animals: said of certain parasites, as Distriction. toma, etc.

branchihyal, n.—Axial branchihyals, the basi-branchials; the lower median unpaired bones in the branchial arches or gill-arches of fishes.—Lateral branchihyals, the ceratobranchials; bones of the gill-arches of fishes between the hypobranchials and the epi-branchials.

branchiogasteropod (brang "ki - ō - gas ' te- ro-pod), n. One of the Branchiogasteropoda.

branchiomere (brang'ki-ō-mer), n. [NL., \langle Gr. $\beta \rho \dot{\alpha} \gamma \chi \iota a$, gills, $+ \mu \dot{\epsilon} \rho o c$, part, segment.] In embryol., one of the segments of the vertebrate embryo as indicated by the presence of a visceral arch and cleft; a branchial segment or metamere.

branchiomeric (brang-ki-ō-mer'ik), a. Relating to the division of the cranial region into segments, each furnished with a gill-arch or respiratory pouch.

branchiomerism (brang-ki-om'èr-izm), n. In embryol., the development of branchial seg-ments as indicated by the so-called visceral skeleton and the metameric diverticularization of the fore-gut in the vertebrate embryo.

branchiopalatal (brang"ki-ō-pal'a-tal), a. Of or pertaining to the chain of palatine bones in the roof of the mouth of bony fishes. Nature,

Nov. 19, 1903, p. 64.

branchioparietal (brang "ki-ō-pā-ri'e-tal), a. [Gr. βράγχω, gills, + L. paries, wall: see parietal.] Relating to the gills and the wall of the atrium in mollusks.

Branchiopoda, n. 3. An order of entomostracous crustaceans containing the Phyllocarida, Phyllopoda, Cladocera, and Branchiura. branchiosaurian (brang"ki-ō-sâ'ri-an), n. and I. n. A fossil amphibian of the genus Branchiosaurus.

II. a. Pertaining to or having the characters of Branchiosaurus.

Branchiosaurus (brang'ki-ō-sâ'rus), n. [NL., ⟨ Gr. βράγχια, gills, + σανρυς, a lizard.] A genns of small extinct amphibians of lizard. like form, with broad, obtusely rounded heads and large orbits. The ventral surface of the body was covered with overlapping cycloidal scales arranged in several different series; the tail was long and partly unossified. The genus occurs abundantly in the Permian

branchiostegal, a. II. n. One of the bony rays under the head of a fish below the operand behind the lower jaw. They are connected by a membrane called the branchiostegal or gill-membrane. Branchiostomatidæ (brang"ki-ō-stō-mat'idē), n. pl. [NL., \(Branchiostoma(t-) + -idæ.]
The family of lancelets, the lowest of known fishes, comprising 2 or 3 genera and 8 or 10 species. They are small translucent creatures found embedded in the sand on warm coasts throughout the world. The recognized genera are Branchiostoma, Epigonichthys, and Amphioxides.

branchiotreme (brang'ki-ō-trēm), n. [Gr. $\beta \rho \dot{a} \gamma \chi \imath a$, gills, $+ \tau \rho \ddot{\eta} \mu a$, a hole.] Same as gill-

branch-island (branch'i-land), n. The island formed by an *anabranch (which see). [Aus-

branch-lacquer (branch'lak"er), n. The juice obtained from the branches of the lacquer-tree. See seshime lacquer (under lacquer).

branch-line (brauch'lin), n. Same as *branch-

branch-section (branch'sek"shon), n. Same as *branch-cut.

brand, n.—Sugar-cane brand, a disease of the leaves of sugar-cane eaused by the smut, Ustilago Sacchari. brand-book (brand'buk), n. In stock-raising, a record-book showing the various cattle-

brands and their owners.

brands and their owners.

brander², n. 3. pl. Furnace-bars; the gratebars of a ventilating-furnace. Barrowman, Glossary. [Scotch.]

brander², v. t. 2. To nail furring-strips or the like to a girder or other timber as a preparation for lathing and plastering.

brasero aration for lathing and plastering.

Brandes's test for quinine. See *tcst1.

branding-chute (bran'ding-shöt), n. A narrow lane or guideway through which cattle are driven one at a time to be branded.

branding-helmet (bran'ding-helmet). n. helmet-like cage placed over the head and face in branding the cheek of a criminal who had pleaded benefit of clergy: in use in the sixteenth century.

brandise (brau'dis), n. [Ult. < AS. brandisen: see brand-iron and brander2.] A trivet on

which to set a pot or kettle.

And there was a great black crock upon the brandise, with his legs sticking out.

T. Hardy, Madding Crowd, p. 178.

FSaid to be

Frament
frament
framentbrandisite (bran'dis-it), n. [Said to be named after W. T. Brande, an English chemist; if so, with dubious ending, -is-(?) + -ite².] A micaceous mineral closely related to seybertite.

bran-drench (bran'drench), v. t. In leathermanuf., to wash in sour bran to remove the lime. Modern Amer. Tanning, p. 161.

Brand's method. See *method.

brandtite (brand 'tit), n. [Named after Georg

Brandt, master of the Swedish mint.] A hydrated arseniate of calcium and manganese occurring in from colorless to white triclinic

crystals: found at Pajsberg, Sweden. brandy¹, n.—White brandy, brandy as it comes, color-less, from the still, not having taken up coloring matter from the casks in which it is commonly stored, nor hav-ing been artificially colored.

brandy-cowe (bran'di-kou), n. In wine-mak-

ing, the washings of a brandy-cask, used to adulterate port-wine. Eneyc. Brit., I. 173. brandy-faced (bran'di-fāst), a. Having a face which shows the effects of brandy-drink-

Where you have to elbow and jostle your way . . . by hulking labourers and brandy-faced viragos, squabbling at tavern doors.

G. A. Sala, Twice round the Clock, p. 266.

brandy-oil (bran'di-oil), n.- Marc brandy-oil.

brandy-smash (bran'di-smash), n. A drink made by mixing brandy with crushed ice and putting a few sprigs of mint in the glass. See smash, 3.

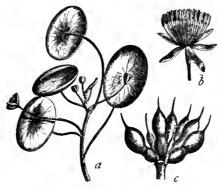
branner (bran'êr), n. [$bran^1$, v., + $-er^1$.] A machine for applying bran for cleansing purposes. It consists of a box filled with bran and slaked lime, and an endless belt on which tin plates, coated with oil as they come from the tin-pot, are carried through the bran and lime. Sci. Amer., Nov. 1, 1902, p. 290.

branning, n. 2. The process of removing the oil from tin plates during their manufacture, by pessing them through a mixture of bran and

by passing them through a mixture of bran and slaked lime.

brant², n.—China brant, a Californian name for Hutchins's goose, Branta canadensis hutchinsi, a subspecies of the Canada goose.—Hutchins's brant. Same as Hutchins's goose.—Mexican brant. Same as China abrant.

Brasenia (bra-sē'ni-ā), n. [NL. (Schreber, 1789): formation not indicated by the namer.] A genus of dicotyledonous aquatic plants belonging to the family Nymphæaceæ. The only spe-8. - 11



Brasenia Schreberi.

a, a flowering branch with peltate leaves; b, flower, three fourths natural size; c, ripe fruit showing the separate carpels, enlarged twice. (From Engler and Prantl's "Pflanzenfamilien.")

cies, B. Schreberi, has alternate, peltate, oval, entire, floating leaves and axillary purple flowers. It is widely distributed in North America, eastern and tropical Asia, western tropical Africa, and Australia. It is sometimes cultivated in ponds, along with

water-lilies, chiefly for its floating foli-age; the flowers are inconspicuous.

(bräsā'rō), n. [Sp.: see brazier².] 1. A brazier for holding buruing charcoal for heating purposes.—2. In Mexico, hearth or fireplace.

 $brash^2, n$ -Spaning brash. Same as weaning brash (which sec, under brash?).

bly; fragment-ary: as, brashy sandstone.—3. Showery: as,



Brasero, with paddle for stirring fire

brashy weather; a brashy, cold spring.-4. Subject to slight attacks of sickness or indisposition, especially when connected with acidity of the stomach. Hence—5. Acid or bitter: as, a brashy taste.

 ${f brass}^{I}, n.$ 1. The following are varieties of brass, with the parts, by weight, of their components:

Name.	Сиррег.	Zinc.	Tin.	Lead.	Iron.
Admiralty metal	87	5	- 8		
Bell-metal	16		4		
Brazing-metal	16	3			Ì
Brazing-solder	50	50			
Bushing-metal	64	8	4		
Common brass	64	36			
Composition, United					
States Navy	88	2	10		
Copper-red brass	99.9				0.1
Gun-metal	92,5	2,5	5	1	
Gun-metal	83	15	2		
Muntz's metal	60	40			
Naval brass	62	37	1	1	
Red brass	87	4.4	4.3	4.3	
United States Navy jour-					
nal-boxes	82.8	3.4	13.8		
White brass	34	66			

Aluminium brass. See*aluminium.—Brass sleeker, wire. See *sleeker, *wirel.—Brass solder. See *solder. See *so

brass¹, v. t.—To brass it, to brazen it out; behave brazen-facedly or with effrontery. [Colloq.]
brassart, n. 2. A band of any material worn

about the arm above the elbow. Hospital-corps meu on the battle-field wear a white cloth brassart marked with a red cross.

The private wears on the left arm above the elbow a brassart of white cloth, three inches wide, with a cross of red cloth in the centre.

Buck, Med. Handbook, 1, 485.

Brass-founders' ague. See *ague. brassic (bras'ik), a. [L. brass(ica), cabbage, _+ -ic.] Same as *brassidic.

Brassicaceæ (bras-i-kā'sē-ē), n. pl. [NL. (Lindley, 1836), $\langle Brassica + -aceæ.$] A family of dicotyledonous choripetalous plants of the order *Papaverales*, the mustard family, typified by the genus *Brassica*. It is the same as the *Cruciferæ* (which see), and is the name adopted by botanists who require that family names be derived from those of the type general. the type genera.

brassicaceous (bras-i-kā'shius), a. Belonging

to the Brassicacew, or mustard family.

brassidic (bra-sid'ik), a. [brassice) + -id + -ie.]

Noting an acid, C₈H₁₇CH:CHC₁₁H₂₂CO₂H,

formed by the action of nitrous acid on crucic acid and probably stereomeric with the latter. It is monobasic and melts at 66° C. This acid is also called brassic acid.

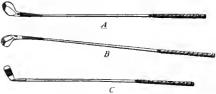
brass-molder (bras'mol der), n. One who makes brass castings. As brass requires quite dif-ferent treatment from irou, special men do the brassmolding.

brass-shirted (bras'sher"ted), a. Covered or ineased with brass: as, a brass-shirted roller. Fox, Mechanism of Weaving, p. 465. brassware (bras'war), n. Things made of

brassware (bras'wār), n. brass; brazen utensils.

brass-work (bras'werk), n. Articles or finishings of brass, as the small mountings or trimmings about a boiler or machine.

brassy¹, a. II. n. A wooden golf-club shod with brass on the sole.



A, brassy-niblick; B, brassy-spoon; C, brassy-cleik.

brassy-cleik (bras'i-klēk), n. An iron golfclub with a wooden or hard-rubber inset, sometimes used in place of a brassy.

brassy-niblick (bras"i-nib'lik), n. A wooden golf-club with a small head and a brass solo, used for playing out of bad lies.

brassy-spoon (bras'i-spön), n. A wooden golf-club with a long face, lofted, and a brass sole. Brathay flags. See $\star flag4$. bratling (brat'ling), n. [brat2 + -ling1.] A little brat; an infant. [Jocose.]

We are all—wife, bratting, and self—remarkably well.

Cottle, Reminiscences of Coleridge, p. 75.

bratty² (brat'i), n.; pl. bratties (-iz). raratti or virātti, dried dung.] A cake of dried cows dung, used as fuel. [Southern India.]

Brauneria (brou-nē'ri-ā), n. [NL. (proposed by Necker, 1790), named in honor of J. J.

Bräuner, author of a German herbal published in 1713.] A genus of dicotyledonous plants belonging to the family Asteraccæ. See Echinacea.

Braun's solution. See *solution.
Braun tube. See *tube.
Brauronia (brā-rō'ni-ā), n. pl. [Gr. Βραυρώνια, neut. pl. of Bparpárnoz, adj., \(\) Bparpáro, a village of Attica.] In Gr. antiq., a festival in honor of Artemis Brauronia. It was celebrated every fifth year at Brauron, a village of Attica; its chief features were a procession of ten virgins to the temple of the goddess, their consecration to her service, and the sacrifice of good the service of the goddess. a goat. See Brauronian. Bravais's method. See *method.

bravura, n. 2. In painting, vigorous, brilliant treatment in both color and technique.

Here, instead of bravura, we have a careful, almost painstaking, reproduction of the unodel.

Portfolio, XXII. 175.

brawl3, n. See braul2. bray¹, v. t. 2. In cloth-finishing, to pound (woolen cloth) in a soapy scouring-liquor: same as full. See full² and fulling². braza (brā'thā), n. [Sp.: see bracc1, n.] The Spanish fathom (see brass2, 2); in the Philippines, a measure of length somewhat less than 6 feet.

Coming from Lord Lucan, this language was no vulgar brazenry; it represented the irrepressible strength of his real though mistaken conviction. Kinglake, Crimea, IV. 57.

braziery (brā'zier-i), n. Braziers' work; brass-

ware.
brazilein (bra-zil'ē-in), n. [Appar. < brazil, +
-e-in².] Same as braziliu.
Brazilian anime. Same as anime, 3.—Brazilian bug
or beetle. See *hug².—Brazilian cedar. See *ccdar.
Brazilian cherry. Same as Surinam *cherry (b).—
Brazilian emerald, ruby, etc. See *emerald, *ruby,

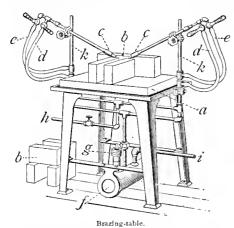
brazilite (bra-zil'īt), n. [Brazil + -ite2.] See

brazing-clamp (brā'zing-klamp), n. A elamp used in repairing saws and in brazing together the ends of band-saws. It consists of a strong frame with two or more set-screws for holding the saw-web in position, and is fitted with a screw-press. The ends of the band-saw are beveled to match, placed in the clamp with the ends joined, and supplied with solder under the press. Red-hot irons are then placed above and below the joint and tirmly held together by the press. The hot irons cause the solder to thow and make a brazed joint. A pair of brazing-tongs (which see) can be used instead of the press.

brazing-machine (brā'zing-ma-shēn"), n. heating-machine fitted with a conveyer by which small articles to be brazed are carried under the gas-flames in the furnace.

brazing-metal (brā'zing-met"al), n. Any metal suitable for brazing; specifically, an alloy used for making flanges for copper steampipes and facings for valves. This alloy is usually 98 parts copper and 2 parts tin, the proportion of copper being high, so that the flange will not melt when it is brazed to the pipe.

brazing-table (brā zing-tā b), n. An iron table supporting a flat slab of fire-elay and fitted with gas-burners for using producer-gas under an air-blast and giving blowpipe flames that may be concentrated upon any point on that may be concentrated upon any point on the table. The table is ulso provided with a number of loose fire-bricks that may be used to guide and concen-trate the heat upon the metals to be brazed. The illus-tration shows a simple form of brazing-table. Other and larger tables have several burners and fixed fire-clay bricks arranged in convenient positions for the work. See *heating-machine.



a, fire-brick slab on iron table; b, loose fire-brick to concentrate heat; c, blowpipes; d, gas-pipes; c, air-pipes; f, compressed-air reservoir; g, pressure control; h, gas supply; i, air supply; k, standard, with set-screw, supporting pipes.

brazing-wire (brā'zing-wīr), n. Soft brass wire of small diameter bound around a joint to be brazed. The joint is then heated, and the flux, usually horax, is sprinkled on the joint, which is then filled by the molten metal from the wire.

brea (brā'ā), n. [Sp. tar, resin: ef. F. brai, break, v. I. trans. 14. In ericket, to cause (the resin, etc.] 1. A small thorny tree, Cæsalball) to change its course after the pitch, by pinia præcox, with light-green bark, found in imparting to it a twist or spin at the moment northern Argentina. It yields a pale-brown gum resembling gum arabic and known commercially as goma brea.—2. A variety of asphaltum which is fluid at ordinary temperatures; maltha.

In regard to brea and chapapote, usage seems to make them synonymous, unless it be that the solidity of chapapote is a degree greater than that of brea, by no neans an assured distinction. $U.S.\ Geol.\ Surv.,\ 1902,\ p.\ 299.$

brea-blanca (brā"ä-bläng'kä), n. [Sp. brea, pitch, + blanca, white.] A soft resin obtained from the pilaui-tree (Canarium Luzonicum),

used in the arts to toughen varnish and prevent it from eracking, but not suitable for varnish alone. Also called *Manila elemi*. See *elemi* and *pilaai. [Philippine Is.]

brazenry (brā 'zen-ri), n. [brazen + -ry.]
Brazen assertion; effrontery.

Coming from Lord Lucan, this language was no vulgar brazenry; it represented the irrepressible strength of his (naut.), a sea that sweeps across the deek without breaking.—To mount a breach, to assault a breach in a fortification.

bread, n.—Black bread, bread made of rye flour, often with the addition of caraway seeds. See ryel.—
Bread oil, See *oil.—Feast of unleavened bread. See *Levish * festivels.—Indian bread. See *Levish of the Cumbo of fresh bread or biscuit dried in a slow oven until slightly colored: served with chocolate, coffee, or bouillon.

bread¹, v. t. 2. To clean by rubbing with dry bread or with a bread-crust, as a drawing.— 3. To provide with daily bread.

They had enough to bread themselves.

Tourgée, Fool's Errand, p. 91.

bread-board (bred'bord), n. 1. A board upon which to knead, roll, or mold flour-mixtures; a kneading-board; a molding-board; a rollingboard.—2. A board upon which bread is cut on the table during the serving of a meal.

bread-crust (bred'krust), n. A crust of bread.

—Bread-crust bomb. See *bomb.—Bread-crust structure or texture, in geol., the vesicular structure exhibited by the outer portions of many volcanic bombs, resembling the crust of a loaf of bread. Geikke, Textbook of Geol., p. 274.

breadfruit, n.—African breadfruit, a tree of the mulberry family, Treculia Africana. The large round fruits contain numerous starchy seeds, buried in a spongy substance, which are ground into meal and eaten by the natives.

bread-maker (bred'mā/ker), u. A honsehold machine for mixing and kneading dough. It consists of a tin vessel containing a curved blade suspended from a vertical rod passing through the cover of the vessel. By means of a horizontal handle fixed to the rod the blade can be made to turn in the vessel. The materials are placed in the vessel, the cover is placed over it and fastened, and the handle is turned rapidly for a few minutes, when the dough is found to be well kneaded and ready to be left to rise.

bread-nut, n. 2. The seeds of the fertile breadfruit, Artocarnus communis. which form a food

fruit, Artocarpus communis, which form a food staple on many Pacific islands and in the East Indies. They are somewhat like European chestnuts in flavor. See Artocarpus, breadfruit, *antipolo, and *dugdug.

bread-sticks (bred'stiks), n. pl. rolled into sticks and baked: served with

bouillon, sonp, or tea.

bouillon, sonp, or tea.

Breadth extreme, in ship-building, an expression used to designate the greatest breadth of the ship to the outside of planking or plating, whether above or below water.—
Breadth for tonnage, in ship-building, the breadth of a vessel used in calculating the tonnage by an obsolete rule called "builders" old measurement." It differs from breadth extreme in the exclusion of extra thickness of outside plank worked in certain places over the average thickness.—Breadth index. Same as cephalic index (which see, under cephalic).—Internal biorbital breadth, in anthrop, the distance between the inner sides of the two orbits.—Interpterion breadth, the distance between the pteria.—Minimum frontal breadth, in anthrop, the minimum distance between the temporal ridges.—Minimum ramus breadth, in anthrop, and minimum breadth between the ascending branches of the lower jaw.—Nasal breadth, the greatest breadth of the nose.—Orbital breadth, in anthrop, the prediction of the correction of the correctio

The "middle body" or "straight of breadth," is that part of a ship amidships where the cross-sections maintain the form of the midship section.

White, Manual of Naval Arch., p. 457.

breadwinning (bred'win"ing), n. The earning

breadwinning (bred'win"ing), a. Serving to earn a livelihood: as, breadwinning pursuits or labors.

of leaving the hand. Also used intransitively.

To break a landing. See *landing.—To break a will, to secure a judicial determination that an instrument purporting to be a will is not a legal will by reason of defects, either in the forms required for its proper execution or in the substance of the instrument.—To break cution or in the substance of the instrument.—To break broadcast, to plow throughout: in cotton-growing, contrasted with merely forming the beds. (Southern U. S.]—To break (one) all up, to unsettle or disturb greatly. [Collou-]—To break the balls, to open the game at English billiards or ball-pool.—To break up. (f) To confuse; disconcert, as a public speaker. [Slang.]—To break up a fox, in hunting, after the fox is killed, to take him away:from the dogs, take off the mask, brush, and pads, and then throw the remains to them to worry.

— To break water. (b) To soften water for washing, in case it contains much lime or magnesia, by the addition of carbonate of soda or borax.

case it contains much time or magnesia, by the addition of carbonate of sods or borax.

II. intrans. 15. In tennis and other games, to bound: as, the ball breaks in a contrary direction.—16. In trap-shooting, to hit the target. Forest and Stream, Jan. 24, 1903, p. 80. 17. In cricket. See I. *14.—To break back, in cricket, said of a ball when it breaks from the off, that is, as the bowler views it, from left to right. See *tof-break. Hutchinson, Cricket, p. 60.—To break down. (f) To lose homogeneity: said of a composite fluid or semisolid in the first stage of decomposition.—To break even, in faro, to bet that each card will win or lose an even number of times on the deal.—To break off. (c) Said of the wind when it comes more ahead, compelling a vessel to go off from her course in order to keep her sails full.—To break up. (c) Naut., of a ship, to go to pieces in a heavy sea; of a storm, to cease.

break, n. 20. An unlucky remark, or a breach of propriety, etiquette, or the like. [Colloq., U.S.]—21. In elect., the opening of an electric circuit.—22. pl. In plys. geog.. the broken land at the border of an upland that is dissected by ravines. [Western U.S.]—23. An apparatus for breaking the stalks of hemp, etc., with the object of facilitating the separation of the bast from the woody tissue. Also tion of the bast from the woody tissue. Also called breaker.—24. The bound of the ball in tennis service.—25. A reduction in the rate of wages. [Scotch.]—26. In cricket, a ball which, because of a twist or spin imparted to it by the bowler, changes its course after the pitch.—27. In boxing and prize-fighting, the act of separating after the contestants have come to close quarters and seized each other. Certain rules provide whether they may or may not strike at each other upon 'breaking away,' that is, separating.—All-round break or run, in billiards, one into which a variety of billiard-strokes enter, and the halls are never close together for more than three or four shots at a time.—Hammer break. See *hammer.

breakaway (brak'a-wā), n. 1. An animal which breaks away from a herd or flock .- 2. A panic rush of sheep, cattle, horses, or other animals at the sight or smell of water; a stampede. [Australian in both senses.]

The smartest stock horse that ever brought his rider up within whip distance of a breakaway or dodged the horns of a sulky heast took the chance.

E. E. Morris, Austral English.

break-back (brāk'bak), n. An *off-break (which see). Hutchinson, Cricket, p. 64.
breakbones, n. 2. A book-name for the giant fulmar, Ossifraga gigantea: usually called capehen by sailors; also, rarely used in books for the osprey, Pandion haliaëtus and the lammergeier, Gypaëtus barbatus.

break-club (brāk'klub), n. In golf, a stone or other obstacle lying near the ball which might break or injure the club in the act of playing. breakdown, n. II. a. Used or employed in repairing a breakdown, specifically in the railway service: as, a breakdown crew; a breakdown train. Called wrecking-train, etc., in the United States.

When the Westbound's ditched, and the tool-car's hitched, and it's 'Way for the Breakdown gang (Tara-ra!) 'Way for the Breakdown gang! R. Kipling, .007

We moved off, . . the first [train] being a short "breakdown" pilot train.

Julian Ralph, War's Brighter Side, p. 89.

breaker, n., 1. (h) In elect., a device for opening an electric circuit.

breaker-scutcher (brā ker-skuch er), n. machine used in preparing cotton for carding; the first scutching-machine.

breakfaster (brek'fas-ter), n. One who break-

"Oh, don't you know what has happened?" said the sacred breakfaster.

Sydney Smith, Irish Rom. Cath. Church.

breakhead (brāk'hed), n. Powerfully reinforced stem and bows, peculiar to certain vessels used for breaking channels through heavy

In order to be able to maintain this ferry service in winter the "Mecklenburg" has been constructed as an Icebreaker. The hull has a breakhead such as is usually only carried by ice-breakers, and other important reinforcements.

Sci. Amer. Sup., Jan. 9, 1904, p. 23422.

breaking-cap (brā'king-kap), n. 1. A cap placed over an opening in the cylinder of a steam-engine, so that if water collects in the cylinder the cap will be broken and thus open an outlet for it and prevent injury to the engine.—2. A cap or cup-shaped casting, used in machines for rolling iron or steel, such that if a piece is fed to the rolls too cool, or too hard, the casting will yield first and save the more eastly roll.

breaking-harness (brā'king-hār'nes), n. A harness of special design used in breaking colts to familiarize them with the strapping. breaking-joint (brā'king-joint), n. The joint or surface where an injured portion of the body of an organism is thrown off and a new one regenerated.

There is a definite breaking-joint at the base of the crab's leg, at which the separation takes place.

T. H. Morgan, Regeneration, p. 100.

breaking-pin (bra'king-pin), n. In a conveyer or elevator, a small safety-pin inserted at some point between the shafting or gearing which operates the conveyer and a sprocketwheel which controls the belts or chains. Any unusual strain breaks the pin, releases the wheel, and eauses the whole system to stop. breaking-snaffle (brā'king-snaf'l), n. A heavy

jointed snaffle with a key-piece at the center and three or more players hanging on it. breaking-strength (brā'king-strength), n. In

mech., the strength of a body as measured by the load, per unit of cross-section, necessary to produce rupture.

break-off, n. 2. The act of breaking off, sep-

arating, or severing connection, company, or relations

break-wind (brāk'wind), n. A rude shelter, constructed of sticks, bushes, bark, or other material, used by primitive tribes, such as the former natives of Tasmania, and the Athapascans of northwestern North America, in place of a tent or a hut.

Ignorant of agriculture, with no dwellings but rough huts or break-winds of sticks and bark, . . . these savages, until the coming of civilized man, rounned after food within their tribal bounds.

Encyc. Brit., XXV. 467.

bream!, n.—Black bream. (a) A fish, Sparus australis, of the family Sparide. Called in Tasmania silver
bream. [Anstralia.] (b) Girella tricuspidata, of the
family Kyphoside. [Tasmania.]—Bony bream, a clupeoid fish, Dorosoma erebi, found in Australia.—Red
bream. Same as red snapper.—Red-breasted bream,
a species of snnfish, Lepomis auritus, of the family Centrarchide, which reaches a length of from 6 to 8 inches:
abundant from Maine to Lonisiana in streams east of the
Alleghanies.—Silver bream. (a) Same as black *bream
(a). (b) Same as white *bream (b).—White bream (b),
a fish of New South Wales, Xystæma ovatum, of the
family Percides. Also called silver-belly.
bream-backed (brēm bakt), a. Having the
back straight or slightly arched: said of a

brean2 (brean), n. [G. *brean, < Sp. brea, resin, bred, n.

elemi.

breast, n., 7. (h) The front part of the first of a set of wool-carding machines for opening the locks of wool preparatory to passing them to the carding-cylinders.—

Breast-doffer, in vool-carding, the cylinder that doffs and conveys the wool from the breast, or first part, of the carding-machine to the main cylinder, or drum.— Broken breast, gathered breast; abscess of the breast.— Funnel breast, a deformity of the chest consisting in a conical depression at the lower end of the sternum.— Hysterical breast, simulation of a tumor of the breast, sometimes seen in young nervous women.

breast-board, n. 2. pl. In mining, retaining-boards in the face of a heading in running ground.

ground

breast-bore (brest'bor), n. In mining, a borehole in front. Barrowman, Glossary

hole in front. Barrowman, Glossary.

breast-brace (brest'bras), n. Any brace having a knob or breastplate, so that the operator can push on it with his breast to feed the drill. See brace, 14.

breast-collar (brest'kol-ar), n. A harness-strap passing round a horse's breast, to which the traces are attached.

the traces are attached.

breast-high, a. As high as the breast; specifically, in lumbering, having a height of 4½ feet above the ground.

breast-hole (brest'hōl), n. The arched hole, at the base of a foundry eupola, used for lighting the fire and taking out the einder and slag after the iron has been drawn off, hole is covered by a sheet-iron door while the blast is on.

breasting, n. 4. Same as *breast-stoping. breast-mining (brest'mi'ning), n. Same as *breast-stoping.

breastplate, n. 7. The iron plate covering the breast-hole of a cupola.

breast-shore (brest'shor), n. In ship-building, one of a line of props or shores, nearly horizontal, supporting transversely a ship in drydock, in the vicinity of her load water-line. Also called wate-shore. White, Manual of Naval Arch., p. 324.

breastwise (brest'wiz), adv. Abreast; side

To form the two bridges, two lines of ships . . . were moored across the strait breastwise.

Grote, Greece, 11. iv. 38.

breathiness (breth'i-nes), n. In a vocal or similar sound, the state, quality, or effect resulting from an escape of unvocalized air with the sound proper, as in clumsy vocalization, apprehension or terror, whispering, etc.: sometimes equivalent to wheeziness, which, however, is usually applied to mechanical sounds, as to a poor organ tone.

as to a poor organ tone.

breathing, n. — Abdominal breathing. See abdominal respiration, under abdominal.—Cheyne-Stokes breathing. See Cheyne-Stokes respiration, under respiration.— Mouth breathing, habitual breathing through the open mouth instead of through the nose: often in children a sign of obstruction of the posterior nares by adenoid vegetations.

breathy (broth'i). a [breath + -ul.] 1 Per-

breathy (breth'i), a. [breath $+ -y^1$.] 1. Pertaining to or of the nature of breath .- 2. In phonetics, accompanied with breath; pronounced with open glottis; uttered with breath.—3. Characterized by a conspicuous use of the breath: said usually of vocal sounds in which breath is needlessly and faultily

breceial (brech'i-al), a. [breceia + -all.] Of, pertaining to, or of the nature of breceia: as, one solid breecial mass. Kane, Grinnell Exped., p. 269.

brecciate (breeh'i-āt), v. t.; pret, and pp. brecciated, ppr. brecciating. [breecia + -ate².] To break or shatter (the solid rock): a process common in the faulting and folding of strata. It

The folding which is almost certainly present would easily joint or brecciate the brittle Niobrara limestone to such an extent as to make it no barrier to the accumulation of oil above from the carbonaccous constituents of the beds below.

U. S. Geol. Surv., 1902, p. 331.

brecciform (breeh'i-fôrm), a. [E. breceia +

a fish of New South Wales, Xystema ovatum, of the family Percides. Also called siter-belly.

bream-backed (brēm' bakt), a. Having the back straight or slightly arched: said of a horse.

horse.

lle la horsel was not jogzed under the jaw, . . holow-backed, bream-backed, long-backed or broken-backed.

Southey, Doctor, V. cxliii.

breccitorm (brech'1-form), a. [E. breccia + L. forma, form.] Having the form of a breccia. Geikie, Text-book of Geol., p. 1071.

Brechittek (brēc-kit'j-dē), n. pl. [Nl., \lambda Brechittek (brēc-kit'j-dē), n. pl. [Nl., \lambda Brechittek + idæ.] A family of mollusks containing the genus Brechites, or Aspergillum, now generally included in the Clavayellidæ: same as Aspergillidæ.

A simplified spelling of bread.

-an.] A crystalline resin obtained from bredbergite (bred berg-it), n. [Named after B. G. Bredberg, a Swedish chemist, who analyzed it.] An iron garnet from Sala, Sweden, peculiar in that it contains a considerable amount of magnesium.

bredi (brā'di), n. [Cape Duteb.] In South Africa, vegetables stewed with meat.

breath, n. A simplified spelling of breadth.

breech, n. 5. The lowest quality or sort of wool from the fleece of the sheep: it is taken from the linder part.

breech-cloth (breeh'klôth), n. Same as breech-

breeches, n. pl.—Pair of breeches, in Eng. billiards, making a winning and a losing hazard in two different pockets by the one stroke, when playing from halk only.—Scotchmen's breeches, a kill. It is a popular saying that when enough blue sky appears after a storm to make a pair of Scotchmen's breeches the weather will clear. [Humorous.]

breeches-flue (brich'ez-flö), n. An uptake; a flue having conduits for gases of combustion which join so as to discharge into one stack.

breeches-pipe (brich'ez-pip), n. A pipe which divides into legs or branches; a Y-pipe.

breeches-tube (brich'ez-tūb), n. A boiler-tube or flue which divides into two parts which either run parallel or diverge.

breeching-body (brieh'ing-bod"i), n. That part of the breeching of a harness which eneireles the rump of a borse. It is held in place by hip-straps. The ends are provided with by hip-straps. rings to receive the side or breeching-straps.

breeching-loop (brich'ing-löp), n. 2. A leather or metal loop used as a substitute for

the breeching-hook in a harness.

The iron plate used for breeching-strap (brich'ing-strap), n. A strap by which the breeching is connected with the trace in double harness, or with the shaft in single harness.

breeching-tug (brich'ing-tug), n. In a harness, a short tug provided with a buckle and loops, attached to the breeching-body or braces to receive the hip-strap.

A breast-stoping (brest'sto"ping), n. Mining from a vertical or steeply inclined face of ore. In inclined veins this is a variety of underhand stoping. In that deposits the term is applied to an extended face of work, as distinguished from room-work.

The structure (brest'sto"ping), n. Mining from a vertical or steeply inclined face of ore. In inclined veins this is a variety of underhand stoping. In that deposits the term is applied to an extended face of work, as distinguished from room-work.

The structure of the structure of the structure of which is an interpretable of the structure of which is an interpretable of the structure of the stru steel plug which closes the bore of a breechloading gun at the rear end. Breech-plugs are of
various forms, but are usually of the general shape of a
cylinder or truncated cone, on the surface of which is an
interrupted screw-thread corresponding to a similar female
interrupted thread in the breech of the gun. When the
plug is entered into the breech of the gun, the threads on
the plug enter the blanks between the threads in the
breech, and the two parts are locked together by a quarter
or sixth turn of the plug which engages the threads. See
breechboke and breech-mechanism, with cut.

breeding, n.—Line breeding, in stock-raising, another name for in-and-ia breeding.—Straight breeding, breeding within the limits of a breed: opposed to cross-

breeding-ground (brē'ding-ground), n. A place suitable or used for breeding: as "ducks seeking their breeding-grounds," Kane, Arctic Expl., I. 268.

breedy (bre'di), a. [breed + -y¹]. Breeding readily, as rabbits; prolifie.

Blockheads too are breedy, and double themselves every an years.

Blackwood's Mag., X11. 55.

breez, n. A simplified spelling of breeze (wind). breeze², n. 3. In electrotherap, a discharge of high tension electricity from a pointed or or high tension electricity from a pointed or brush electrode, eausing a sensation as of a spray falling on the skin.—Monntain breeze, valley breeze, cool winds blowing down a mountain-side or through a valley, gorge, or canon: especially felt during the late hours of clear nights in the summer season.—Topgallant breeze, a wind of such power as to permit the carrying of topgallant sails only.

Brehmer arc-lamp. See electric *arc. breidin (brē'i-din), n. [Sp. brea, resin. + -id + -in².] A compound of uncertain identity described by Baup as occurring in elemi.

brein (brê'in), n. [Sp. brea, resin, + -in².] A compound described by Baup as occurring in elemi. It is probably impure amyrin.

is one of the methods of origin of the rock known as breezia.

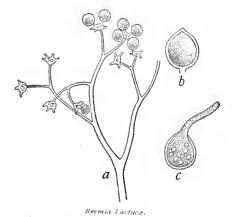
The folding which is almost certainly present would

breislakite (bris'lak-it), n. [Named after Scipione Breislak, an Italian geologist (1748-1826).] A mineral occurring at Vesuvius in A mineral occurring at Vesuvius in wool-like forms. Its exact character is uncertain, but it has been referred to pyroxene, to amphibole, and also to fayalite.

brekfast, n. and v. A simplified spelling of

brelan (brā-lon), n. [F.] 1. In games, three of a kind.—2. An ancient French game very much like poker, but played with only three eards in each player's hand. It is now superseded by bouillotte.

Bremia (bre'mi-ä), n. [NL. (Regel, 1843), named for J. J. Bremi-Wolf, a Swiss natural-



a, a branching conidiophore showing the expansions and processes on which the conidia are borne, much enlarged; b, a ripe conidium, highly magnified; c, a conidium after germination has begun, highly magnified.

ist (1791-1857).] A genus of peronosporaceous fungi. They have the conidiophores expanded into a cup-like disk, from the margin of which arise short processes hearing the spores. The single species, B. Lactucæ, is the downy mildew of lettnee. It also occurs on several other closely related plants.

with brephalos (bref'a-los), n.; pl. brephaloi (-loi). [NL., $\langle \text{Gr. } \beta \rho \xi \phi \phi \varsigma, \text{the young of any animal, } + \alpha \lambda \sigma \varsigma, \text{ a mere termination.}]$ The first larval stage of a crustacean after leaving the egg.

brephic (bref'ik), a. [Gr. βρεφικός, adj. ζβρέφος, fetus, embryo.] In biol., pertaining to an early fetus, embryo.] In bi developmental stage.

brer (brur, bru), n. A dialectal contraction of the word 'brother' in use among the negroes of the southern United States: as, brer Fox, brer Rabbit, etc. J. C. Harris, Uncle Remus. brest, n. and v. A simplified spelling of breast.

bretas (bret'as), n.; pl. bretea (-ê-ā). [Gr. $\beta \rho \acute{e} \tau a c$, pl. $\beta \rho \acute{e} \tau e a$.] In Gr. antiq., a small idol or image having slight resemblaneo to the human form. There may be found indications of a head, and sometimes of hair and drapory. Bretea are often seated.

bretelles (bre-telz'), n. pl. [F.] In dressmaking, straps running from the belt in front over the shoulders to the belt in the back, with more or less elaboration of trimming and outline. They usually broaden at the shoulder and narrow toward the waist.

breth, n. A simplified spelling of breath.

Brethrenism (breth'ren-izm), n. The principles or doctrines of the sect known as Christian Brethren, Plymouth Brethren, and sometimes Durbyites. See Plymouth Brethren, under brother.

Breton, n.-Low Breton. Same as Breton, 2.
Bretonian (brē-tō'ni-an), a. and n. [Cape Breton or Cape Breton Island.] In geol., a divisional name applied by Matthew to the nppermost stage of Cambrian deposits in New Brunswick. The rocks carry many fossils, among them Dictyonema flabelliforme, a graptolite which in other countries also marks the summit of the sediments of Cambrian time.

bretonne (bre-ton'), n. [F., fem. of breton, Breton.] A purée of red onions.

Brev. An abbreviation of brevet.

breviary, *n*.—**Mozarable breviary**, the breviary as arranged according to the Mozarable liturgy, now extant only in the city of Toledo, Spain.

breviconic (brev-i-kon'ik), a. [L. brevis, short, Gr. κώνος, cone.] Having a short cone, as the shells of certain fossil cephalopods.

brevipalatal (brev-i-pal'a-tal), a. *brachyurunic. Turner. Same as

Brevoortia, u. 2. A genus of California plants of the family Liliaeeæ. B. Ida-Maia, the only species, is a slender, grassy, half-hardy plant with beautiful and lasting scarlet and green flowers often ealled floral fire-erackers.

Brewer's mask. See *mask3.

brewst (bröst), n. A brewing.

[ME. bruewyf.] brew-wife (brö'wif), u. woman who brews; a brewster.

For the sei(d) gold smyth hath maried a bruewyf, and gepeth the brue haus.

Paston Letters, 111. 244. keepeth the brue haus.

Brianchon hexagon, luster, point. See *hexagon, $*luster^2$, $*point^1$.

Briasse limestone. See *limestone.

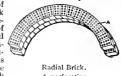
Brianchon hexagon, luster, point. See *hexagon, *luster², *point¹.

Briasse limestone. See *limestone.

brick², n. 1. Commercial bricks are divided into two general classes, hard brick, and soft brick. A hard brick is any brick burned sufficiently hard to resist moisture, heavy pressure, and moderate heat; it ranges in color from deep blue-hlack, through dark reds, to dark browns and reddish yellows, and is used for pavements, sidewalks, hearths, ovens, foundations, bridges, suhways, and exterior walls of buildings. A soft brick is a partly burned brick, ranging in color from pale yellow to salmon, used only for interior walls and partitions in dry places, such as the backing of exterior walls, for filling in piers, and in other places exposed to moderate temperature and pressure. Each class is divided into many kinds, chiefly described by their character or use, as hard building, rough hard, common hard, etc., and pale, light, filling-in, backing-up, inside wall, etc.—Aluminons bricks, bricks consisting principally of alumina. These bricks are neutral in character, not being easily attacked by either an acid or a basic slag. They are used as linings of furnaces, where they will come in contact with the slag or other corrosive material, or at a point of junction between an acid and a basic lining.—Bauxite bricks, refractory bricks made of calcined bauxite, mixed with clay or plumbago. They are used for lining furnaces, and are neutral in character.—Boston brick, a rough face-brick much used in old colonial buildings. It is made in shades of red.—Brown brick, a hard fire-brick used in constructing coke-ovens. It measures 9 inches long by 4½ by 2½ at one end and 4 by 2½ at the other end.

—Face- or front-brick, any hard brick suitable for the front exterior walls of buildings of some architectural character.—Gage-brick, a special kind of fire-brick that under the influence of heat changes color: used in bake-ovens to serve as a crude guide to the temperature.—Glass brick, street-paving material made of broken or

heat thus stored and is sent on to the furnace at a temperature of about 1,500° F.— Magnesite brick, a fire-brick made of impure magnesia mixed with water, dried, and burned.— Muley brick, a brick-yard term for an imperfect brick.— Natural brick, clays



baked or sintered by some natural source of heat, such as a molten lava-flow or the spontaneous combustion of a coal-sean. Sci. Amer. Sup. July 23, 1904, p. 23872.—Neutral brick, in metal., a brick containing a large proportion of alumina and capable of resisting well the action of both acid and basic oxids at a high temperature without slagging or melting down.—Philadelphia brick, a fine quality of hard smooth-faced brick of a deep red color.—Radial brick, a form of refractory perforated brick used in building tall chimneys. It is in the form of the keystone of an arch and has two rows of perforations. Built into a circular chimney, radial bricks break joint with each line of perforations in line with those in the bricks below, the mortar filling the perforations through each tier of brick, a brick made from silicious sand, with a small admixture of lime to serve as cementing material, and burned at a very high temperature.—Sever-brick, varied work.—Stock brick, any hard brick for general exterior work.—White brick, brick made of clay that in burning turns white: a fine decorative brick for interior walls.

brick², v. t.—To brick in, to inclose with brickwork:

wans. brick? v. t.—To brick in, to inclose with brickwork: used of timber constructions the open spaces of which have to be filled in with brickwork.—To brick up, to close with brickwork, as an opening; to strengthen with

brickwork, as a wall or pier.
brickbat, n. 2. Hornblende schist, which upon weathering breaks up into rectangular blocks from three sets of joints. Bulletin 213, U. S. Geol. Surv., 1902, p. 59. [Local name near Dahlonega, Ga.] brick-chisel (brik'chiz"el), n.

A short, heavy steel chisel having a wide cutting-edge, used by bricklayers in cutting fine face-brick

Brick-dust deposit, a urinary sediment of a brick-red color, consisting of urates.

Brickmakers' anemia. See ★anemia1.

bricknogged (brik'nogd), a. Filled with bricknogging, as a timber construction the open spaces of which are to be filled in this way.

spaces of which are to be filled in this way. brick-top (brik'top), n. An edible agaricaceous fungns, Hypholoma sublateritium. bricole, n. 4. In billiards, the act of eausing the ene-ball to hit a cushion first; cushioning. Banding, banking, benching, and walking are all equivalents of cushioning in this sense. brideship (brid'ship), n. The standing or status of a bride.

Wilhelmina's wedding day arrived, after a brideship of eight months. Carlyle, Frederick the Great, 11. viii. 276. bridge1, n. 13. (b) An arrangement of circuits, electric or magnetic, whereby the bridge circuit connects from a point of one circuit to a



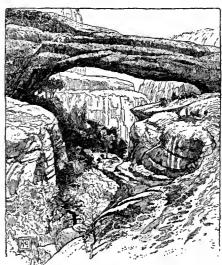
port for the cue when the ball is in such a position that the hand cannot conveniently be used as a rest. (b) The thumb and forefinger used as a rest over which the billiard-cue glides. The best players now use the hooked forc-finger, infolding the small end of the cue.— 15. In math., the crossing-place of two sheets of a Riemann's surface. It may run from 0 to ∞ along an arbitrary line, say along the ray of positive real numbers. Along the bridge the surface intersects itself. 16. A narrow-railed, movable plank extending across the flies of a theater: used in raising angels, fairies, etc., in spectacular plays, and worked by ropes and pulleys from the gridiron.—17. A platform or scaffold hung by ropes, nsed by mechanics in painting or finishing walls.—18. An arched easting fastened to the cover of a pump which guides the free end of the plunger or piston-rod.—19. In mining: (a) A platform on wheels running on rails for covering the mouth of a shaft or slope. (b) A track or platform which passes over an inclined haulage-way and can be raised out of the way of ascending and descending ears. (c) An air-crossing. Coal and Metal Miners' Pocketbook. — 20. A narrow strip,

placed across an opening, for supporting something without closing too much of the opening. Also bridge-bar, bridge-piece. Trautwine, Engin. Pocket-book.—21. In a Dow composing-Engin. Pocket-book.—21. In a Dow composingmachine, the place on the raceway where the
justification of a line of characters begins.

-Cytoplasmic bridge. See *cytoplasmic.-Piying
bridge, in ship-building. (b) The uppermost bridge, paricularly in war-ships, of light construction, supported
from below by open framework.—Hanging bridge.
(b) A partition hanging down from a boiler to deflect the
hot gases. This is sometimes a water-leg and sometimes
is made of fire-brick.—Low bridge! a cry of warning
on a canal-boat to duck the head when about to pass
under a bridge. under a bridge.

"Wa'sl," says I, "I was thinkin' 't I'd like to bet you ... that if all them fellers we seen this afternoon, that air over fifty, e'd be got together, an' some one was suddenly to holler 'Low Bridge,' that nineteen out o' twenty 'd duck their heads." E. N. Westcott, David Harum, xxviii.

Natural bridge, a natural span of rock across a stream or hollow, usually a remnant of the former roof of a cave,



The 'Caroline' Natural Bridge, San Juan County, Utah, Height, from surface of water to lower center of arch, 197 feet; width, from buttress to buttress at bottom of cañon, 208 feet 6 inches; thickness of sandstone arch at highest point, 125 feet.

which after the destruction of adjacent parts of the for-mation may leave a bridge-like structure. Famous natural bridges occur in Virginia and 'Utah.—Supracondylar bridge, See ★supracondylar.—Traveling bridge, a portable bridge mounted on a form of truck. Such bridges are generally used for transporting materials such as coal or ore from cars to storage-bins or from the storage-bins

pack wherever the bent card is placed.

II. intrans. In wrestling, to make a bridge of the body by pressing the head and feet on the ground and bowing up the back, to prevent

the ground and bowing up the back, to prevent the opponent from securing a fall.

bridge² (brij), n. [Short for bridge whist, prop. bridge whist, \(\text{toridge1} + whist. \) The allusion is not determined. It is not the same as in bridge¹, v. 4. The "Russian britch," cited as the source of the Eng. word, must be recently borrowed from the Eng.] A card game for four players, a variant of whist, called also (originally) bridge which. The players at for part. four players, a variant of whist, called also (originally) bridge whist. The players cut for partnership and deal, each drawing from a full pack of 52 cards, spread face downward on the table. The two lowest pair against the two highest, and the lowest of the four has the choice of seats and cards and takes the first deal. In cutting, the ace is low; in play it is high, the other cards ranking from the king down to the deuce. Partners sit opposite each other, the positions at the table being as in the diagram:



The leader and the pone are known as the adversarles. The dealer presents the pack to the pone to be cut, and then distributes the cards one at a time until each player has 13. No trump is turned. If any card is found faced in the pack, or if the last card does not come in its proper order to the dealer, or if any player has more or less than 13 cards, there must be a new deal by the same dealer. No matter what irregularity occurs, the dealer cannot lose his deal. The dummy shuffles the still pack for the next deal. The dealer looks at his hand and announces the suit he selects as a trump for that deal, or declares to play without a trump, or passes the declaration over to his partner, who must decide on something without consultation. Should the dummy declare before being asked

bridge

to do so, the leader may demand that the declaration shall stand, or that there shall be a new deal. If the dummy ask the dealer to make the declaration, the leader may ask for a new deal or insist on the dummy declaring. If either of the adversaries makes a declaration, the dealer may either deal again or ignore the irregularity. Bridge is played in rubbers, two out of three games of 30 points each winning. If the same partners win the first two games, the third is not played. All tricks over six taken by one side count toward the game, ba-th y sulne of these tricks varies with the declaration. When spades are trumps, each trick above six counts 2; when clubs are trumps, 4; diamonds, 6; hearts, 8; and when there is no trump, 12. No matter how much more than enough to win the game may be made, it is all counted. In addition to the trick scores there are 5 honors in the trump snit (ace, king, queen, jack, and ten), the value of which varies with the declaration. When there is no trump the four aces are the only honors. The honors count nothing toward the game, but they add to the value of the rubber as follows: as follows:

Declaration	S.	С.	D.	Н.	No 3
3 honors	4	8	12	16	30
4 honors	8	16	24	32	40
4 in one hand	16	32	48	64	100
5 honors	10	20	30	40	
5, 4 in one hand	18	36	54	72	
5 in one hand	20	40	60	80	
Chicane	4	8	12	16	
Grand slam 40, li					
The winners of the	be ru	bber :	add 1	00	

Sin one hand

Chicage

4 8 2 16

Grand and 40, little slam 29

The winners of the rubber add 100

The declaration once legitimately made, the adversaries cannot change it, but they may double the value of the trick points by 'going over.' If the leader does not wish to double, he says, "Shall I play?" If he plays without asking this question, the declaring hand may call a suit. In reply to the question, if the pone does not wish to double he says, "If you please." If either adversary doubles (making hearts, for instance, worth 16 instead of 8), the declaring land may redouble, making hearts worth 32. If the maker of the trump does not redouble, he says, "Content," and his partner may then redouble, the first chance to redouble always lying with the one who is doubled he loubling adds nothing to the value of the scores that go into the honor column. The usual expression for doubling is "Over" or "I double." The declaration settled, the leader plays any card he pleases, and the dumny then lays his 13 cards face upward on the table, sorted into suits, the trumps on his right. From that point on the dealer plays any card he pleases, and the dumny then lays his 13 cards face upward on the table, sorted into suits, the trumps on his right. From that point on the dealer plays the two hands without any assistance or suggestions from the dummy, who is not allowed to take any part in the play except to ask the dealer if he has none of a suit to which he renounces, or to correct the adversaries if they claim a penalty to which they are not entitled. Should the dealer lead from the wrong hand, the adversaries the total they are not entitled. Should the dealer lead from the wrong hand, the adversaries the constance of the rubber to its honor score for little slam; if it wins all 13, it adds 40 for grand slam. If any player has a hand dealt him with no trump in it, he scores are entitled and the scores are provided and the lower scores of each afde are then added up, and the difference between them is the value of points now

bridge-bar, n. 2. Same as *bridge1, 20.

bridge-bracket (brij'brak"et), n. In cotton-manuf., a simple device for removing hanks

of yarn from the reel of a reeling-machine. bridge-coupler (brij'kup'ler), n. In railroad-ing, an antomatic coupling- and locking-device for a drawbridge. When the bridge is opened the coupler sets the train-signal against the bridge and opens

the switch to the derail. The closing of the draw causes the coupler to lock the bridge, release the signals, and close the derail. See *bridge-lock and *derail.—Multiple bridge-coupler, one which controls two or more signals: used where there are more tracks than one.

bridge-crane (brij'krān), n. A stationary crane having an elevated bridge, supported at the ends upon columns, and carrying on top a trolley from which is suspended the hoistingtackle.

bridge-house (brij'hous), n. In ship-building, a superstructure of comparatively light construction, above the general line of the hull proper, in the middle part of a merchant steamer. The bridge is located on top of it.

As an example, take the case of a vessel having a long poop, at least 4 feet in height, extending to a bridge-house amidships, and a forecastle.

White, Manual of Naval Arch., p. 18.

bridge-jumper (brij'jum-per), n. One who, for notoriety or gain, makes a practice of jumping from high bridges. [U.S.] bridge-lock (brij'lok), n. In raitroading, a self-locking bolt-lock used on a drawbridge to lock the bridge and prevent it from being opened until the signal-man, by the movement of his levers, has withdrawn the bolt. The movement of the bridge then automatically locks the bolt, and this, in turn, through the interlocking signal-system, sets all train-signals against the bridge and keeps them locked at 'danger' until the return of the bridge releases the bridge-lock, locking the bridge in its normal closed position

bridgeman (brij'man), n.; pl. bridgemen (-men). bridge-builder; a workman engaged in

bridge-building. bridge-money (brij'mun'i), n. An early Chinese bronze coinage, so called from its appear-

ance. Also called tin-dangle moncy.

bridge-motion (brij'mō*shon), n. A form of doffing-motion for facilitating the removal of hanks from the reel of a yarn-reeling machine. bridge-perch (brij'perch), n. A species of bass, Pomoxis annularis, of the family ('entrarchidæ. Also called crappic.

bridge-piece (brij'pēs), n. 1. A device attached to the end of the reel on a yarn-reeling machine, to facilitate the removal of the hanks.

Nasmith, Cotton Spinning, p. 363.—2. One of the short lengths of studding used in bridging floors. Also bridging-piece.—3. Same *bridge1, 20.

bridge-plate (brij'plāt), n. A steel or iron plate of a comparatively low carbon content. These plates have a tensile strength of about 40,000 pounds per square inch and are quite ductile.

bridge-pot (brij'pot), n. The movable socket of a millstone-spindle which rests on the

bridge-support.

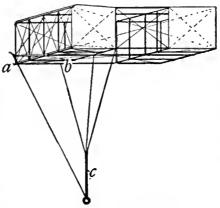
Bridger group. See *group!.

bridge-screen (brij'skrën), n. A shelter for the helmsman on the bridge of a war-ship,

the helmsman on the bridge of a war-snip, differing from a pilot-house in that it is open at the back and sides.

bridgework (brij'werk), n. The adjustment of artificial teeth by attaching the frame holding them to adjacent sound teeth as abut-

bridle, n. 10. An arrangement by which a large kite, used in aërial observations, is attached to the steel wire by which it is held. The Marvin safety-bridle consists of two parts, the upper and iower bridle, attached to the main rib of the kite a few linches apart. A small copper wire, or safety-line, is inserted between them. When this wire is broken by the strain of a strong wind, the upper bridle comes into play and the lower portion goes out of use, so that the kite at once flies at a lower angle and the strain is rebridle, n.



Clayton-Hargrave kite, showing elastic bridle. a and b. rigid cords; c, clastic cord.

laxed. In the Blue Hill automatic elastic bridle an elastic band is introduced into the bridle and an increasing strain gradually alters the angle of flight.

11. A device for controlling the speed of logs on a skid-road. It consists of a short rope with two hooks at one end which are driven into the first log of the turn; at the other end is a clamp which runs over the eable.

the cable.

12. In certain cephalopods, one of the bands which attach the funnel to the head .- 13. In which attach the funnel to the head.—13. In pianoforte-making. Same as *bridle-tape.—
Bonaparte bridle, a bridle consisting of a piece of rope looped at one end. A portion of the rope is placed in the horse's mouth as a bit and the end is passed over the crown and through the loop and extended back as a rein.—Bridoon bridle, a bridle provided with double cheeks, one pair for the driving-bit, the other for the bridoon check-bit.

bridle, v. t. 3. To connect; join as by a bridle: as draft-rollers (in cotton-manufacturing) that are yoked together. Thornley, Cottoncombing Machines, p. 237. bridle-cable (brī'dl-kā"bl), n.

is shackled or made fast to a bridle along the length of which it is free to play. See bridle, 7. bridle-iron (brī'dl-ī''ern), n. A steel or wroughtiron loop or frame for supporting the end of a beam from a wall or another beam; a joisthanger.

bridle-man (bri'dl-man), n. One who follows a turn of logs down the skid-road and tends the bridle. See *bridle, 11.

bridle-tape (brī'dl-tāp), n. In pianoforte-making, a short strip of cloth or leather between parts of the hammer-action, by which motion

in excess of a fixed amount is prevented.

bridle-wire (bi'dl-wir), n. In pianoforte-making, the wire, projecting from the whip, to which the bridle-tape is fastened. See cut

under pianoforte.

Brief of title. Same as abstract of title, which see, under abstract.

Brieger's bases. See *base2.

brieger's bases. See *00se2.

brier, n.—Chainy brier. See china *brier.—China brier, a thorny vine, Smilaz glauca, which causes trouble in agricultural lands from Pennsylvania to Tennessee. The name (often corrupted to chainy brier), is connected with china-root (which see).—Running brier, a species of dewberry, Rubus subuniflorus.—Sand-brier, the horse-nettle Solanum Caroliense.—Saw-brier. Same as China *brier,—Sensitive brier. See Schrankia.

brier-stitch (bri'er-stich), n. In sewing-machine work, a method of sewing with a two-needle machine in which the combined needles stitch a fine cord or embroidery-thread upon the fabrie in a running pattern resembling the figure 8. Sometimes called figure-of-eight stitching.

Brig. An abbreviation of (a) Brigade; (b)
Brigadier.

brigade, n. 3. In zoöl., a division of no fixed value, used in the sense of 'cohort,' as a convenient term for assemblages of animals which may not be included in any of the divisions commonly employed. Trans. Linnean Soc., London, Zool., Oct., 1901, p. 240.—4. A small squad of engineers or of other technical troops: as, the full sap was executed by a brigade of eight sappers.

brigalow (brig'a-lō), n. [Also bricklow: from a native Australian name, in the Namoi dialect of New South Wales, buriayalah = 'place of the buri-tree,' \langle buri or bri, the name of Acacia pendula.] Any one of several species of Acacia, especially A. harpophylla, which yields a bard, beavy brown wood by sing a strong oder. a hard, heavy brown wood having a strong odor of violets. It is used in turning and for building purposes, and by the aboriginals for spears, boomerangs, and clubs. [Australia.]

brigantine1, n. 4t. A quarter-galley, known for its delicate lines, swiftness, and quick handling.

The boats were called galleys, galleots, brigantines (galeotas ligeras o veryātines, or frigates), &c., according to their size: a galleot is a small galley, while a brigantine may be called a quarter galley.

Poole, Barhary Corsairs, p. 205.

Bright-line spectrum. See *spectrum. brightness equation, sensation. See *equation, *sensation.

brightsmitht (brit'smith), n. A whitesmith. [Rare and artificial.]

brill, n. 2. A small and very bony flounder of New Zealand, Caulopsetta scaphus, of the family Pleuronectidæ. The name was transferred from the true brill of Europe.

brilliant. I. a.—Brilliant *red, *purple, *scarlet, etc. See the nouns.

II. n. English double-cut brilliant, the regular full brilliant with 8 or 16 facets ndded above or below, or both, on the front and back.—Full brilliant. In diamond-cutting, cut as a brilliant with 58 facets. See brilliant

brilliantine (bril-yan-tēn'), n. [brilliant + -ine2.] 1. A dress-goods for women's wear, similar to alpaca, but superior to it in richness of material and finish. -2. A name freely and generally employed to designate toilet preparations of variable composition for the face or hair.

brimade (bri-mäd'), n. [F. slang.] A hazing (atcertain civil and military schools in France). brimborion (brim-bō'ri-on), n. [[Also brim-borium. F. brimborion, a banble, a gewgaw, formerly one of a series of prayers that were mumbled over. OF. breborion, perhaps a cormunication of M. [[Also brim-borium]]. ruption of ML. breviarium, a breviary: see breviary. Cf. the etym. of bead.] A tritling object kept as a charm or gewgaw; a trifle: as, "handing brimboriums hambles, kniekknacks" "handing brimborions, baubles, knickknacks,

etc. Mme. D'Arblay, Diary, III. 8. brin², n. 2. One of the two circular fibers that issue from the silkworm. It consists of two parts, the inner of fibroin, or true silk, and the Bristol delf. See *delf2. outer of sericin, or silk-glue.

Brindle disease. See *discuse.

brine¹, n. 4. In refriger., a solution of alkaline salts in water, which has a solidifying point below the temperature at which the solution is to be used.—Leach brine, the brine which drains away from common salt crystallized by boiling when this is stacked up in piles ready to be returned to the boiling-

brine-cooler (brīn'kö"ler), n. A coil of pipes used for cooling the brine used in a cold-storage warehouse or in an ice-machine. It is identical with the pipe anmonia condenser, except that the pipes are larger and the brine flows downward through a small are larger and the orme hows downward through a small interior pipe, while the ammonia flows upward through the larger pipe inclosing the brine-pipe, the expansion of the ammonia absorbing the heat of the brine and reducing it to a low temperature. See *ammonia condenser.

brine-fly (brin'fli), n. Any one of a number of insects of the dipterous family Ephydrulæ, whose lawer live in alkalina lake mad eat

whose larvæ live in alkaline lakes and salt-

wells. See Ephydra and Ephydride. brine-gage (brin'gāj), n. A salinometer. brine-well (brin'wel), u. A well from which natural brine is obtained.

A description of the great field of brinc-wells which has accumulated a population of a million people in the town of Tze-liu-tsin. $Geog.\ Jour.\ (R.\ G.\ S.),\ XII.\ 95.$

bring, v. t. To bring in, in whist or bridge, to get the lead with (a suit) after establishing it.—To bring to grass, to bring to the surface, as ore.

II. intrans.—To bring up all standing, said of a vessel when she comes to anchor without taking in her sails, or when she strikes an obstruction and is suddenly brinjarree (brin-jā'rē), n. [Also brinjarry; a

perverted form (perhaps by confusion with Pers. birinj, rice) of binjarree for bunjarree, a grain merchant: see bunjurree.] In India, a grain merchant: samo as bunjarree.

brinjarree dog, a long-haired, rongh-coated, tan-colored East Indian breed of greyhound,

tan-colored East Indian breed of greyhound, used in hunting jackals. [East Indian.]

brio (brē'ō), n. [It.: see con brio.] Spirit, animation; especially, in music, in the expression con brio, spiritedly.

Briovarian system. See *system.

briquet', n., 2. The production of such blocks now constitutes an important industry. Cohesion is obtained by pressing in heated molds (in the case of bituminous coal), or by addition of tar or pitch, or of clay or hydraulic cement. Balls, solid cylinders, or most commonly brick-shaped blocks are thus formed by molding.—Petroleum briquet, a briquet made of a mixture consisting of 1 liter of petroleum, 150 grams of soft soap, 150 grams of resin, and 300 grams of caustic soda-lye wash. This mixture is well heated and allowed to solidify, and then run into molds of the required size, in which it is heated again in a furnace for about 15 minutes. The briquets produced in this way are said to yield three times as much heat as ordinary coal and are much lighter. Their solidity can be increased by adding sawdust or sand to the mixture.

briquet1 (bri-ket'), v. l.; pret. and pp. briqueted, briquetted, ppr. briqueting, briquetting. To compress (minerals or mineral dust) into bricks; form into briquets.

The slag is a waste product, and the flue-dust, collected by special devices in dust-chambers, is briquetted by machinery.

Encyc. Brit., XXX. 173.

briquet² (bri-kā'), n. A silver coin of the fifteenth century, current in Holland: so called from the figure it bears of a short thrusting sword (briquet) held in a lion's claw.

briquetage (bri-ke-tazh'), n. [F., brickwork, (n., 1. brique, brick: see brick².] In prehistorie ar-broad-minded (brâd'mīn''ded), a. Characterchæol., masses of oven-baked clay found in some parts of western Europe, and supposed to be remains of an ancient salt industry. Amer. Anthropol., Jan.-March, 1902, p. 162.

Brisbane box. See *hox1.
brisling (bris'ling), n. [Origin unknown.] A elupeoid fish, Sardinella pilchardus, caught in

great numbers in the English Channel, in the seas of Spain and Portugal, and in the Medseas of Spain and Portugal, and in the Mediterranean. They are cooked and packed in oil in tin cans.

Brislington delf. See $*delf^2$.

brisque (brisk), n. [F., origin unknown, perhaps from brisk.] A privileged card in certain games: as, in the game of bezique, the aces and tens of the various suits, all of which count toward the game.

bristle-bird (bris'l-berd), n. Any one of the Australian reed-warblers of the genus Spherester. nura: so called from the bristles about the

corners of the mouth.

bristle-cell (bris'l-sel), n. One of the ciliate

bristletail, n. 2. One of the many names borne by the ruddy duck, Erismatura rubida, given on account of the stiff tail-feathers.

britannia (bri-tan'i-ii), n. Same as Britannia

phate of the cerium metals and calcium, oc- broderie (bred-re'), n. [F.] 1. Embroidery eurring in brown, pseudohexagonal crystals: found in southern Greenland.

British Board of Trade unit, British dollar, British standard candle. See *unit, *dollar, standard *candle.

Britishism (brit'ish-ism), n. Same as Briticism.

Brito-arctic (brit-ō-ärk'tik), a. British and

It is evident, therefore, that the basalts of Cape Flora and Hooker Island are similar to types widely distributed in the *Brito-arctic* volcanic province.

Geog. Jour., XI, 134. brittle-fern (brit'l-fern), n. See ★ fern¹. brittlely†(brit'l-li), udv. In a brittle or fragile

briza (brē'zii), n. [Sp. brisa, Pg. briza: see breezc².] A local afternoon and evening breeze at San Juan, Porto Rico. It is the regular northeast trade-wind deflected to an east wind by the influence of the land surface.

broach1, n. 21. An occasional name for the hurdy-gurdy (which see).—22. In quarrying, a tool used in a machine-drill to break down the walls between a row of boreholes in order to form a continuous channel. Also called

broaching-bit. broach² (broeh), n. [Short for Broach cotton, of Gujarat (Guzerat) (Yule).] A short-stapled cotton grown in the Broach district of the

Bombay Presidency, British India. broaching-bit (bro'ching-bit), n. *broach1,

Broad Scotch, the unliterary vernacular of the Lowlands of Scotland. broadcast (brâd'kast), v. t. To sow broad-

cast. [Recent.]

In the spring wheat districts, the winds tend to lay bare the seeds when broadcasted.

T. F. Hunt, Cereals in America, 1904, p. 85.

broadhead (brâd'head), n. The name of a fish, the Grubber broadhead, a species of anchovy, Anchovia producta, of the family Eneroy.

Anchovia producta, of the family Eneroy.

broad-headed (brâd'hed'ed), a. Same as brackycephalic.

Candida, and T. peduncularis.

2. [l. c.] A plant of the genus Hookera. The products are bulbous plants of the pacific coast, some of great beauty and gathered wild or cultivated for ornament. From the labit of some species has arisen the name California hyacinth. See *blued-icks.

broguery (brôg'ér-i), n. [broque + -ery.]

Characteristic brogue: as, "by dint of swaggering, impudence, and broguery," ·Fraser's Mag., XIX. 443.

broild, p. a. A simplified spelling of broiled.

broild, p. a. are fitted with a grill kitchen or a kitchen in which broiling of chops, etc., can be done without broadhead (brâd'head), n. The name of a fish, the Grubber broadhead, a species of an-

as broad-headed (brâd'hed"ed), a. brachycephalic.

broad-headedness (brâd'hed ed-nes), n. Same as brachycephalism. The vague term broad-headed-ness has been employed by recent writers, because brachycephalism has been used as if implying in all cases racial unity among the persons concerned.

broadleaf, n. 2. Also in New Zealand a name

for a large tree of the dogwood family, Decostea liltoralis (Griselinia littoralis of Raoul), yielding a hard, red, durable wood. Called by the natives paukatea.

broadman, broadsman (brâd-'or brâdz'man), n.; pl. broadmen, broadsmen (-men). One who resides near the Norfolk broads. See broad,

ized by breadth of view and freedom from bigotry; liberal and unprejudiced: as, a broadminded man.

broadsheet (brâd'shēt), n. Same as broadside, 4.

A broad-winged (brâd'wing" d), a. Having broad wings .- Broad-winged katydid, one of the

cavus. See katydid.
brocade (brō-kād'), v.t.; pret. and pp. brocaded, ppr. brocading. To weave with a pattern in relief, for the ornamentation and enrichment of the fabric.

brocaded, a. 4. Figuratively, heavily 'embroidered' with pompous diction: as, "much of the language is stiffly brocaded," Athenæum, Jan. 23, 1904.

Brocard angle, Brocard angle of a polygon, Brocard arcs, points, triangles. See *angle3, *arc, etc.

Brocardist (brō-kär'dist), n. A geometer who works along the particular line of research concerning the geometry of the triangle concerning the geometry of the tr started by H. Brocard in 1875 and 1881.

started by H. Brocard in 1870 and 1881. Broca's area, convolution, point, stereograph. See *\(\text{Area}\), etc. - Broca's center. Same as *\(\text{speech-center}\). Broca's gyrus, Same as *\(\text{inferior}\) frontal gyrus. See frontal gyri, under gyrus.

brochidodrome (brok'i-d\(\tilde{\rho}\)-dr\(\tilde{\rho}\)), a. [Gr. $\beta
ho \chi u c$ ($\beta
ho \chi u c$), dim. of $\beta
ho \chi u c$, a loop, + -\(\tilde{\rho} \rho \chi u c), to run.] Forming loops within the black of the left, said of the server. britannia (bri-tan'1-a), n. Same as Drivana.

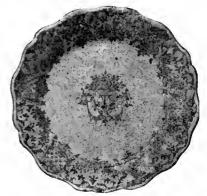
metal (which see, under metal).

britch (brich), n. Same as breech, n., 5.

britholite (brith'o-lit), n. [So called in allusion to its high specific gravity; ⟨ Gr. βρίθος, waight λίθος stone.] A rare silicate and phosphore the same of the leaf: said of the nerves. See nervation (a) (3).

brockage, n. 2. Broken or damaged material; broken glass, pottery, etc.

2. In ccram., a style of decoration first used at Rouen and later at other French factories:



Broderie. -- Plate, design in blue, Rouen, France.
In the Pennsylvania Museum, Philadelphia.

suggested by the embroidery patterns of the period.—3. pl. In music, embellishments or highly figured variations or accompaniments. from Broach, Baroach, Hind. Bharōch, Brodiæa (brō-di-ē'ā), n. [NL. (Smith, 1811), Bhrōch, orig. (Gujarati) Bhrigu-kachchha, named in honor of James Brodie, a. Scotch Bhāru-kachchha, an ancient and modern city botanist who lived about the year 1800.] 1. An untenable name for Hookera, a genus of plants of the family Liliaceæ. By some authors the name is used to include also plants of the related genera Triteleia and Milla. Among the brodiceas sometimes cultivated in the United States are Hookera coranaria, II. terrestris, II. Californica, Triteleia laza, T. candida, and T. peduncularis.

broiling of chops, etc., can be done without the more elaborate cooking of a dining-car; a grill-room car. - 5. An attachment to a gasgrill-room car.—5. An attachment to a gas-stove, or a special gas-stove, adapted to broil-ing meat or fish. Two types are in use, the horizon-tal broiler in which the steak or fish to be broiled is laid on a grid under a broad flat gas-flame; and the vertical broiler in which the steak is placed in a hinged grid on edge between two sheets of metal kept red hot by gas-flames.

Broken hand. See *thand.—Broken over. (a) In book-binding, a phrase applied to the creasing down of a small part of an inserted print near the binding margin, for the purpose of giving support to the hinding thread. (b) In printing, said of the fault of a sheet of paper which shows on its surface the creasing marks of broken fibers.—Broken weather, unsettled weather.

broken-backed, a. 3. Of a horse, a loose term for *hollow-backed.

He was not . . . long-backed or broken-backed. Southey, Doctor, exhiii.

broken-haired (brō'kn-hārd), a. Rough-coated: said of such dogs as the Scotch and lrish terriers.

broken-knees (bro'kn-nez), n. pl. A condition seen in badly knee-sprung horses in which the animal cannot keep permanently in the upright position but is liable at any time to fall npon the knees.

Broken-wing fever. Same as dengue.

broker¹, n.—Odd-lot broker, one who deals in lots of less than 50 or 100 shares of stock.

less than 50 or 100 shares of stock.

broker² (brô'kêr), n. [broke, p. a., + -er¹.]
One who has 'gone broke': a 'dead broke,'
ruined, or bankrupt man. [Slang, Australia.]

brokes (brôks), n. pl. [broke, p. a.] The lowest grade of wool fleece, taken from the neck and belly of the sheep.

broking (brôk'ing), n. [A back-formation from brok-er + -ing¹.] The business of a broker the broker's trule: as, furniture-broking:

ker; the broker's trade: as, furniture-broking:

pawnbroking.

bromacetic (brō-ma-set'ik), a. [brom(ine) + acctic.] Derived from acctic acid by the + acctic.] Derived from acetic acid by the substitution of bromine for hydrogen.—Bromacetic acid, an acid made by the action of bromine upon acetic acid. Monobromacetic acid is a crystalline substance, CH₂Br.COOH, which melts at 50-51°C. Dibromacetic acid, CHBv₂COOH, forms crystals which melt at 45-50°C. Tribromacetic acid, CHBv₂COOH, is a crystalline compound which melts at 135°C.

through the horizontal transfer at 135 (brom(ine) + -al3 + -in².] A colorless, nearly tasteless erystal-line compound, (CH₂)₆NH.C₂H₅Br, obtained by the action of ethyl bromide on hexamethylene-tetramine. It is used as a substitute for alkaline bromides. Also known as bromethyl-

formin.

bromamide (brom 'am - id), n. [brom(ine) + amide.] A colorless, odorless, and tasteless compound, C₆H₂Br₃NH₂HBr, obtained by the action of hydrobromic acid upon amido tribrombenzol. It is analgesic, sedative, and antipyretic.

bromargyrite (brōm-är'ji-rīt), n. [brom(ide) + hydr(oyen) + -ate¹.] Same as hydrobrom-ate.

bromatologist (brō-ma-tol'ō-jist), n. [bromatology + -ist.] One who is skilled in the science of dietetics.

bromatotoxicon (bro ma -tō - tok si - kon), n. [NL., ζ Gr. βρωμα(r-), food, + τοξικόν, poison.] Any poisonous substance produced in an article of food

bromatotoxin (bro mattotoxicon) + -in².] A basic poison generated in food by the growth of bacteria or fungi.

bromatotoxism (brō ma-tō-toks izm), n. [bro-Bronchial asthma, catarrh. See *asthma, matotox(ic) + -ism.] Poisoning with bromatotoxin in some article of food.

brome, n. 2. Same as brome-grass.—Red brome, Same as red *chess.

Same as red *chess.

brome-grass, n.— Australian brome-grass. Same as fesue-grass.—Australa, awnless, beardless, Hungarian brome-grass,—Same as smooth *brome-grass.—Russian brome-grass, chiefly the smooth *brome-grass.—Russian brome-grass, chiefly the smooth *brome-grass.—Russian brome-grass, Bromus breviaristatus, a Rocky Momntain species, valuable in meadowa at high altitudes.—Smooth brome-grass, a beardless species, Bromus inermis, native in the dry regions of Russia, prized as a hay grass in Europe, and now proving very valuable in the semi-arid parts of the northwestern United States. It is a perennial grass forming a turf in loose solla and very resistant to drought.—Western brome-grass, Bromus Punapellianus, a native of the northern Rocky Mountain region, similar to the smooth brome-grass, and perhaps of like value.—Willard's brome-grass, the chess or cheat, Bromus seculinus.

bromeliaceous (brō-mē-li-ā'shius), n. Belong-

bromeliaceons (brō-mē-li-ā'shius), n. Belonging to the Bromeliaceæ or pineapple family.

bromelin (brom'e-lin), n. [Bromelia, a former name of the pineapple (Ananas Ananas), + -in².] A proteolytic ferment derived from the

juice of the pineapple.

bromhydric (bröm-hi'drik), a. ¡An inversion of hydrobromic.] Same as hydrobromic.

Bromian (brō'mi-an), a. [Gr. βρόμος, noisy, an epithet of Bacchus, ζβρόμος, noise, roar, ⟨ βρέμειν, roar.] Of or perlaining to Bromins or Bacchus; Bacchie. Shelley.

or Baechus; Baechic. Shelley.

bromide, n.—Alkaline bromide, a compound obtained when bromine acts on alkaline metals.—Bromide emulsion. See ★emulsion.—Bromide of ethyl, the old term for ethyl ★bromide. Bromide paper. See ★paper.—Ethyl bromide, a colorless, limpld, inflammable liquid, C2Hz,Br. It is anesthetic.—Ethylene bromide, a colorless liquid, C3HzBr. of chloroform odor, used as an anti-epileptic.—Potassium bromide, a satt largely prepared and used. In medicine it is employed to allay nervous irritability, and hence as an indirect hypnotic, in epilepsy, hysteria, alcoholic mania, etc. It is also used in photography.—Radium bromide. See ★radium.

bromin. n. A simplified spelling of bromine.

bromin, n. A simplified spelling of bromine. brominate (bro'mi-nat), v. t.; pret. and pp. brominated. ppr. brominating. [bromine + atel.] To cause to react with bromine; espeeially, to replace hydrogen with bromine in an

organic compound.

Their properties of being chlorinating or brominating agents, of being susceptible to hydrolysis, and of being readily rearranged into acyl derivatives of chlorinated or brominated anilines, NH₂(C₆H₄X), would agree equally well with either of the above constitutions (L and H.).

Amer. Chem. Jour., April, 1903, p. 292.

bromination (brō-mi-nā'shon), n. [bromine + -ation.] The process of treating a substance with bromine: especially, for the introduction of a bromine atom in place of hydrogen (in an organie compound). Nature, July 9, 1903,

Bromine water, in *chem.*, water holding bromine in solution: often used with advantage in analytical chemistry as a substitute for chlorine water.

bromipin (brō'mi-pin), n. A yellow, oily, non-

irritating liquid consisting of 10 parts bro-bronchoscopy (brong-kos'kō-pī), n. [Gr-mine and 90 parts oil of sesame. It is said to $\beta\rho\sigma/\lambda\sigma$, windpipe, $+\sigma\kappa\sigma\pi\epsilon\dot{\nu}$, view.] Inspection

be of value in cpilepsy and neurasthenia. bromization (bro-mi-zā'shon), n. [bromize + -ation.] 1. Impregnation with bromine or the bromides .- 2. Induction of a toxic state by

means of large doses of the bromides. bromized (brō'mizd), p. a. Under the influence of large doses of one of the bromides, as bromide of potassium or sodium. Buck, Med. Handbook, Il. 484.

bromo-albumin (brō "mō-al-bū 'min), n. A compound of bromine and peptone, albumose, or protogen given internally for general nervous conditions.

bromohematin (brō-mō-hem'a-tin), n. [brom-(ine) + hematin.] A substance analogous to hemin, in which hydrobromic acid is combined with hematin in the place of hydrochloric acid.

bromohemol (brō-mō-hem'ōl), n. A red-brown compound of bromine and hemol containing process of breaking broneos to the sac [Western U. S. slang.] sedative.

bromohydrate (brō-mō-hi'drāt), n. [brom(ine)

bromomania (brō-mō-mā'ni-ä), n. [brom(ide) + Gr. µavia, madness.] The condition of being morbidly addicted to the use of any of the medicinal bromides.

bromophenol (brō-mō-fē'nol), n. Same as

tribromphenol.
bronchadenitis (brong kad-e-nī'tis), n. [Gr. + ndin, gland. + -itis.] βρογχος, windpipe, + αδήν, gland. Inflammation of the bronchial glands

bronchiectasia (brong "ki-ek-tā'si-ä), n. [NL.] Same as bronchicctusis.

bronchiectatic (brong-ki-ek-tat'ik), a. as bronchiectasic. Phil. Med. Jour., Jan. 31, 1903, p. 200.

bronchiogenic (brong/ki-ō-jen'ik), a. βρόγχια, the bronehial tubes, + -γενής, produced.] Of bronehial origin. Buck, Med. Hand-

book, IV. 356. bronchiolitis (brong/ki-ō-li'tis), n. [NL.,
bronchiolitis (brong/ki-ō-li'tis), n. [NL.,
bronchiole + -itis.] (apillary bronchitis.
bronchiospasm (brong'ki-ō-spāzm), n. [Gr. βρόχασ, bronchia, + σπασμος, contraction.]

Spasmodic narrowing of the bronchia. bronchismus (brong-kis'mus), n. [NL., < Gr. βρόγχος, windpipe.] Same as *bronchiospasm. βρόγχος, windpipe.] Same as *bronchiospasm.

bronchitis, n.—Catarrhal bronchitis, simple hronchial inflammation with profuse secretion.—Croupous, exudative bronchitis. Same as *pseudomembranous bronchitis.—Fetid bronchitis, bronchitis accompanied with a foul-smelling expectoration.—Fibrinous, membranous bronchitis. Same as *pseudomembranous bronchitis.—Potters' bronchitis. Same as *pseudomembranous bronchitis.—Potnochitis.—Same as *pseudomenbranous bronchitis.—Potnochitis.—Potnochitis.—Potnochitis.—Potnochitis.—Potnochitis.—Potnochitis.—Potnochitis.—Potnochitis.—Putrid bronchitis.—Same as *fetid **pronchitis.—Staphylococcus bronchitis, bronchial inflammation excited by the presence of *staphylococci.—Streptococcus bronchitis, bronchial inflammation excited by the presence of *staphylococci.—Streptococcus bronchitis, bronchial inflammation excited by the presence of *staphylococci.—Suffocative bronchitis.

Same as *capillary bronchitis.—Verminous bronchitis, a bronchial inflammation in cattle due to the presence in the bronchial tubes of a parasitie worm, *Strongylus *flaria*, called in sheep husk*, in calves hoose.—Vesicular bronchitis.

bronchocavernous (brong-kō-kav'ėr-nus), a. [Gr. βρόγχος, the windpipe, + L. carernosus, cavernous.] Relating to the bronchi and to a cavernous.] Relating to the bronchi and to a pulmonary cavity: noting a quality of sound heard on auscultation of the chest. Buck, Medical Handbook, H. 818.

Blothops (Moli object, R. [Or. pport), thunder, they voice.] See Titanotherium.

Brontornis (bron-tôr'nis), n. [NL., \langle Gr. pport, thunder, \rangle by voice.] A genus of gigantic extinct birds, related to Phororhacos,

bronchopleuropneumonia (brong "kō-plö" rō-nū-mō'ni-ä), n. [NL., < Gr. βρόγχος, windpipe, + pleuropneumonia.] Pneumonia complicated

by bronchitis and pleurisy. bronchopneumonic (brong/kō-nū-mon'ik), a.

Relating to, caused by, or affected with bronchopneumonia. Jour. Exper. Med., V. 165,

bronchopulmonary (brong-kō-pul'mō-n̄-ri),

a. [Gr. βρόγχος, the windpipe, + L. ραμπο(α-),
lung, + -ary.] Relating to the bronchi and
the lungs. Buck, Med. Handbook, V. 848. **bronchoscope** (brong kō-skōp), n. [Gr. β ρό, χος, windpipe, + σκοπειν, view.] An instrument used in examining the interior of the trachea and the beginning of the bronchi.

A branchoscope, which consists of a tube, the inner surface of which is highly polished to serve as a reflector, with an electric lamp arranged so as to thrown strong light on the tube, was passed into the bronchial tube and then withdrawn. Elect. World and Engin., Jan. 16, 1904, p. 140.

βρο) χος, windpipe, + σκοπεῖν, view.] Inspection of the larger bronchial tubes by means of refleeted light, usually through an opening into the trachea.

Bronchoscopy allows the whole bronchial tree to be rehed.

Therapeutic Gazette, Jan., 1903, p. 60. searched.

bronchovesicular (brong"kō-vē-sik'ū-lär), u. Relating to both bronchial tubes and pulmonary air-cells.—Bronchovesicular murmur, a sound heard in cases of partial consolidation of the lung, in which the normal vesicular murmur is present, but more or less obscured by the bronchial respiration. See respiration respiration.

bronco-buster (brong'kō-bus"ter), n. One who subdues or breaks a broneo to the saddle. [Western U. S. slang.]

He was accordingly given the belt and declared to be the "champion bronco-buster" of the world.

Wide World Mag., April, 1903, p. 547.

process of breaking broneos to the saddle. [Western U. S. slang.]

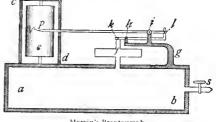
bronco-grass (brong'kō-gras), n. A brome-grass, Bromus maximus Gussoni, native in the Mediterranean region, introduced into California and a troublesome weed in the region of San Francisco bay.

Bronsil shales. See *shale2.
bronteion (bron-te on), n.; pl. bronteia (-ii).

[Gr.] Same as bronteum.

brontogram (bron'tō-gram), n. [Gr. βρουτη, thunder, $+ \gamma ράμμα$, writing.] The record-sheet from the brontometer or brontograph; also any diagram of lines on a map showing the phenomena of thunder-storms.

brontograph (bron'tō-grāf), n. [Gr. βρουτη, thunder, + γράφειν, write.] 1. Same as ★bron-[Gr. $\beta\rho\sigma\nu\tau\eta$,



Marvin's Brontograph.

a b, large metallic hox to which the frame c d, the rapidly revolving cylinder c, the aneroid box f, the post g, the pivots h and i, are finnly attached. The levers h and i f cause the pen at f to make a magnified record of the motions of the pivot h attached to the upper movable surface of the aneroid box. The air within the box is first brought into equilibrium with the outside air by opening and closing the stopcock f just before an observation is to be made. A slow wave of compression and expansion causes the external air to contract and expand: the aneroid pivot h and eventually the pen, follows these changes sluggishly but still approximately. Rapid or high pitch sound-waves cannot be recorded by this brontograph.

tometer. 2. An apparatus devised by Marvin (1899) for recording any wave of sound, as thunder or the discharge of a cannon.—3. A map or diagram showing the progress of the front of a thunder-storm by means of isobronts or equivalent lines for successive hours.

brontometer (bron-tom'e-ter), n. [Gr. βροντη, thunder, + μέτρον, measure.] An instrument devised by G. W. Symons, and constructed in 1888, for registering simultaneously the time of beginning and ending of lightning, thunder, rain, wind, and other phenomena of thunder-storms. More properly a brontograph. **Brontops** (bron tops), n. [Gr. βροντη, thunder,

whose bones are found in the Santa Cruz Mioeene of Patagonia. See eut under *Phoror-

brontothere (bron'tō-thēr), n. An animal of the genus Brontotherium.

bronze

bronze, N.—Bismuth bronze, a bronze in which bismuth replaces the copper of the copper-tin alloy.—Boron bronze. See *boron-bronze.—Bronze positive. See *positive.—Deoxidized bronze. See Tobin *bronze.—Diamine bronze, a direct cotton coal-tar color of the triazo type, derived from benzidine. It dyes unmordanted cotton a bronzy brown from an alkaline salt bath. When after-treated with copper sulphate or chromium fluoride the shade is rendered faster and darker.—Magenta, bronze. See tungsten *bronze.—Manganese bronze. (b) Same as manganese brourn (which see, under brown).—Nickel bronze. See *nickel-bronze.—Plastic bronze, a copper, lead, tin, and nickel alloy which casts readily, gives good castings, and can be easily machined.—Platinum bronze. See *platinum-bronze.—Saffron bronze. See tungsten *bronze.—Tobin bronze, an alloy resembling in its properties delta-metal (which see), and composed chiefly of copper, zinc, tin, iron, and lead, in varying proportions. Tobin bronze is used extensively for household articles, ornaments, parts of machinery, etc. One sort of Tobin bronze—composed, before oxidation, of \$2.67 per cent. copper, 12.40 per cent. tin, 3.23 per cent. zinc, 2.14 per cent. lead, and some iron and silver—is sold under the name of "deoxidized bronze."—Tungsten bronze, a substance made by dissolving tungsten trioxid in fused potassium or sodium tungstate. With the potassium compound the product is called magenta bronze, and consists of violet crystals with a coppery luster. With the sodium compound the product is called magenta bronze, and consists of violet crystals with a coppery luster. With the sodium compound the product is called magenta bronze, and consists of violet crystals with a coppery luster. With the sodium compound the product is called and pron bronze and the resulting crystals liave a golden luster. When ground they are used as pigments.

Bronzed dia betes. See *diabetes.

bronze-steel (bronz'stēl), n. A hard, tough alloy of copper, tin, and iron: used as a gunmetal.

bronziness (bron'zi-nes), n. Bronze-like quality or color.

Autumnal browns . . . rise gradually . . . from a sort of buff to bronziness.

Athenæum, May 4, 1895, p. 576.

brood¹, n. 6. Oyster spat in the second year

ber which is folded off from the uterus and brosing (bro'zing), n. Meal-time. Also brosingclosed around each embryo in some species of Peripatus; any chamber for holding the devel- Brosmophycinæ (bros-mō-fi-si'nō), n. pl. [NL.,

oping eggs or young of an animal.

brooder, n. 2. Same as couveuse, 2. Buck,
Med. Handbook, VI. 749.

broodered (brö'derd), a. Hatched or reared

in a brooder; artificially reared: as, broodered

chickeus. [Rare.]
brood-food (bröd'föd), n. A prepared food
for bees in their early stage: in one form it is a pap prepared from polleu.

broodiness (brō'di-nes), n. Inclination to brood or sit, as in a hen.
broodingly (brō'ding-li), adv. In a brooding

manner; while brooding. Bulwer, Pilg. Rhine,

brood-lamella (bröd'la-mel"ä), n.; pl. broodlamellæ (-ē). In crustaceans, a part of an appendage modified to form a protective cover for the eggs or young.

broodlet (bröd'let), n. [brood + -let.] A young bird; a chick.

brookable (bruk'a-bl), a. [brook² + -able.] brotherlike (bruff'er-lik), a. Brotherly; fradured; endnrable. Hogg, Tales and Sketches,

Welcome, good Clarence; this is brother-like.

brook-grass (bruk'gras), n. Andropogon glo-brothership (bru\(\text{br}\)\(\text{tr-ship}\)), n. 1. Brothermeratus, a broom-like species found in low liness.—2. A fraternity or gild; a brothergrounds. In the southern United States it is, in its young state, valuable for pasturage.

brook-lamprey (bruk'lam"pri), n. Same as river-lampreu.

brook-runner (bruk'run-er), n. The waterrail, Rallus aquaticus.

brook-silk (bruk'silk), n. A popular name for Spirogyra, Œdogonium, and other filamentous brougham-hansom (brö'am-han"sum), n. algæ.

brook-stickleback (bruk'stik"l-bak), n. See *sticktcback.

brook-tongue (bruk'tung), n. The water-hemloek, Cicuta maculata, and perhaps other spe-brow-ache (brou'ak), n. Supraorbital nenralcies

brook-trout (bruk'trout), n. See trout. brool (bröl), n. [Imitative. Cf. G. brüll, n., & brütlen, roar.] A murmuring sound as of wind blowing through a forest.

List to the brood of that royal forest-voice.

Carlyle, French Rev., 1. v. 2.

broom¹, n.—Native broom, swamp-broom, in Australia, same as swamp-oak, 2 (a). It yielda a soft, spongy wood.—Pneumatic broom. See *pneumatic.—Purple broom, Comesperma retusum, an Australasian plant of the family Polygalaceæ, bearing racemes of small purple flowers.—Sweet broom Same as sweet broomweed (see

broomweed) and licerice-weed.—Wild broom, the deerweed, Lotus glaber, a plant somewhat resembling the common broom. [California.] broomer (bröm'èr), n. One who uses a broom,

as in street-eleaning; a street-sweeper; a broom-man. [Rare.] N. E. D. broom-man. [Rare.]

broom-man. [Rare.] N. E. D.

broom-rape, n.—American broom-rape, the squawroot, Conopholis Americana, a fleshy light-brown root
parasite.—Branched broom-rape. Same as hemp
*broom-rape.—Broom-rape family. See Orobanchacex.—Clover broom-rape, Same as lesser *broomrape.—Hemp broom-rape, Orobanche ramosa, an Old
World species, in Kentucky now an amoying parasite
on the roots of hemp and tobacco.—Lesser broom-rape,
Orobanche minor. See Orobanche.—Louisiana broomrape, Orobanche minor. See Orobanche.—Louisiana broomrape, Orobanche hudoreciana, a species native to the
western United States.—Naked broom-rape. (a) See
naked. (b) Same as pale or one-flowered *broom-rape.

Pale or one-flowered broom-rape family, widely diffused
in North America, sending up from near the ground one
to four slender peduncles with single nodding white or
violet flowers.

broom-squarer (bröm'skwär'er), n. See

broom-squarer (bröm'skwär"er), $\star broom$ - $\bar{s}quire$

broom-squire (bröm'skwir), n. In certain parts of England, a squatter on a moor who lives by making brooms of heath. Also in West Surrey called broom-squarer.

"Broom-squires?" "So we call in Berkshire squatters on the moor, who live by tying heath Into brooms." Kingstey, Two Years Ago, xiv.

broomstick, n.—To marry over the broomstick, to go through a make-believe marriage ceremony in which both parties jump over a broomstick; a sort of play in which the parties are children or a grown person and a child; hence, by allusion, a mock marriage ceremony.

There's some as think she was married over the broom-stick, if she was married at all.

J. Hawthorne, Fort. Fool, iv.

of development.—Foul brood, a disease of the honey-bee caused by Bacillus alvei. It affects both early stages (brood) and adults.

brood! v. t. 4. To incubate: as, brooded eggs.

Jour. Exper. Med., VI. 251.

brood-chamber (bröd'chām'ber), n. A chamber which is folded off from the uterus and browhich is folded off from the uterus and brosing (brözing), n. Meal-time. Also brosing.

time. [Scotch.]

(Brosmophycis + -inæ.] A subfamily of fishes of the family Brotulidæ, including two genera,

Brosmophycis and Ogilbia.

Brosmophycis (bros-mō-fi'sis), n. [NL., < Norw. brosme (see Brosmius), + Gr. φυκης, fem. φυκίς, a fish living in seaweed (the forked hake?), ζφῦκος, seaweed.] A genus of fishes of the family Brotulidæ, represented by a single species, B. marginatus, found on the California coast.

brostenite (bros'te-nit), n. [Brosténi (see def.) + - ite^2 . A hydrated manganite of ferrous iron and manganese, occurring in black friable masses in erystalline sehists near Brosténi in Rumania.

brother, n.—Brethren of the Sack, an association of mendicant monks in the thirteenth century, who were vulgarly so called from the coarse sack they were as an onter garment.

In the female of the Arthrostaca, Schizopoda, and Cunacca the brood-lamelle on the bassl joints of the thoracic feet... develop at the approach of sexual maturity.

Lang (trans.), Comp. Anat., p. 380.

Definition:

Richard Brotherist (1757–1824), a fanatic who predicted the destruction of the world. He approach of conneced himself as the nephew of the Amighty and prince nonneed himself as the nephew of the Almighty and prince of the Hebrews, appointed to lead them to a new Jerusalem on the banks of the Jordan.

Shak., 3 Hen. VI., v. 1.

hood.

brotochore (brō'tō-kōr), n. [Irreg. ⟨Gr. βροτός, a mortal, + χωρείν, spread abroad.] In phytogeog., a plant disseminated through the agency of man. F. E. Clements.

brotuliform (bro-tū'li-fôrm), a. Formed like a brotuloid fish.

public cab having the driver's seat at the front and the entrance at the rear: originated by a London firm of carriage-builders.

Broun's rule. See *rule1.

gia. Also brow-pang.
browed (broud), a. Having a brow or brows (of some specified kind): as, low-browed, darkbrowed, etc.

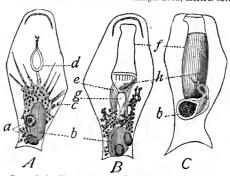
Browgill beds. See ★bed1.

brown. I. a.—Brown ash. See ★ash1.—Brown body, the pigmented remnants of the old polypide which breaks down and is replaced by a new polypide in the

The periodical histolysis of the polypide, leading to the formation of a brown body, may partly be due to the accumulation of excretory substances in the cells of the alimentary canal (Harmer, Quart. J. Micr. Sci., xxxiii. p.

123); but the effects of artificially introduced pigments (indigo-carmine, etc.) suggest that the excretory function is in part performed by some of the mesodermic tissues.

*Encyc. Brit., XXXI. 827.



Brown Body (Flustra papyrea Pall.) Naples x 50. Illustrating the development of a new polypide after the formation of a brown body.

A. a, two masses formed from the alimentary canal; b, degenerating tentacles; ϵ , connective tissue; d, young polypide bud. B. Another zooccium, later stage; b, brown body; ϵ , retractor muscles; f, tentacle-sheath; g, stomach; h, tentacle. C. The same zooccium, 191 hours later; letters as in B. A and B are seen from the front, C from the back.

(After figure in "Cambridge Natural History.")

Brown disease. See *disease.—Brown NP, a mor-tant coal-tar color prepared by combining diazotized para-nitraniline with pyrogallol. It dyea chromium-mor-tanted wool a brown.—Brown-print paper. See *pa-per.—Brown rot, rust, vitriol. See *rot, *rust1, *vit-

dant coal-tar color prepared by combining diazotized para-nitraniline with pyrogallo! It dyes chronium-mordanted wool a brown.—Brown-print paper. See *paper.—Brown rot, rust, vitrol. See *rot, *rust], *vitrol.

II. N.—Acid alizarin brown, a mordant-acid coal tar color. It is rendered extremely fast when subjected to an offer-droming.—Acid brown. See *acid-brown.—Alizarin brown.* Same as anthracene *hrown.—Alizarin brown.* Same as anthracene *hrown.—Alizarin brown.* Alizarin brown.* Alizarin brown. Alizarin brown. Alizarin brown. Alizarin brown. Alizarin brown. Alizarin brown. Alizarin brown and the seed and cotton a reddish brown an alkaline bath. Also and to otton a reddish brown an alkaline bath. Also and to otton a reddish brown and brown and the seed alizarin brown. Asphalt brown, a brown pitch eried from anthrappinin. With a chromium mordantegalvel of the distillation of bit uninous matter. In the powdered form it is used as a pigment. Its solution in turpentine is called asphalt proint.—Benzo dark brown, a direct cotton coal-tar color of unpublished composition. It dyes unmordanted cotton black-brown shades in a sait bath.—Catechn brown. (a) A direct cotton coal-tar color of the tetrakisazo type, derived from Bismarck brown. It dyes unmordanted cotton brown in a salt bath. (b) A brown produced upon textile material with catechn. Also called cutch brown. See cutcchn.—Chloramine brown, a direct cotton coal-tar color of unpublished composition.—Cologne brown, a pigment of huma-like character, similar to Casel brown.—Columnibia brown, a direct cotton coal-tar color of unpublished composition.—Cologne brown, a pigment of huma-like character, similar to Casel brown.—Columnibia brown, a direct coal-tar color of uppublished composition.—Cologne brown, a coal-tar color of the sulphid type, of unknown constitution. It dyes unmordanted cotton brown in a salt bath.—Otton. In a salt bath the deep subject of the sulphid type, of unknown constitution. It dyes unmordanted cotton brown in a salt bath.—Direct brown, a dire

brown

solution upon para-nitrotoluene-sulphonic acid. It dyes cotton brown in a salt bath.—Mummy brown, a brown pigment consisting of a bituninous matter mixed with animal remains brought from the catacumbs, where bitunene was employed in embalming.—Naphthylamine brown, an acid coal-tar color prepared by combining diazotized naphthionic acid with a naphthol. It dyes wool brown in an acid bath.—Picryl brown, an acid coal-tar color, now obsolete.—Pigment brown, an acid coal-tar color, now obsolete.—Pigment brown, same as Sudan *brown.—Seal brown, a rich, dark brown. See *eal-brown.—Seal brown, a rich, dark brown. See *eal-brown.—Sudan brown, a unsolvble colored azo compound prepared by combining diazotized a naphthylamine with a naphthol. It is not used in textile-coloring, but is of value for the coloring of eil, soap, and spirit varnishes.—Sulphone brown, a sulphone coal-tar color of unpublished composition. It dyes wool brown in a salt bath containing ammonium acetate or a little acetic acid.—Toluylene brown G, a direct cotton coal-tar color of the tetrakisazo type, derived from tolylene diamine. It dyes unmordanted cotton a yellowish brown in a salt bath, and is very fast to soaping.—Toluylene brown R, a direct cotton coal-tar color of the tetrakisazo type, derived from tolylene diamine and naphthonic acid. It dyes unmordanted cotton brown in a salt bath.—Zambesi brown, a direct cotton coal-tar color. If dyes unmerdanted cotton in a salt bath dull purplish browns, which when diazotized and developed are converted into dark yellowish browns. browneyed-Susan (broun-īd-sū/zan), n. The

browneyed-Susan (broun-id-sū'zan), n. The common cone-flower, Rudbeckia hirta same as *blackeyed Susan (which see). hirta: the

brownie-bug (brou'ni-bug), n. Any one of many species of the homopterous family Membracidæ, so called on account of their bizarre appearance. Sei. Amer. Sup., Dec. 6, 1902, p. 22520.

browning, n. 3. In plastering, the second coat. The first coat, called the scratch coat, is generally deeply scored to receive and hold the browning.—4. In bot., the discoloration which takes place in vegetable cells when they are injured, as by cutting. It is probably due to chemical changes.

If a suitable mass of living cells is neatly cut with a aharp razor the first perceptible change is one of color; the white "flesh" of a potato or an apple, for instance, turns brown as the air centers the cut cells, and the microscope shows that this browning affects cell-walls and contents alike.

M. Ward, Disease in Plants, p. 122.

brow-pang (brou'pang), n. Same as *brow-

browse², n.—slag-hearth browse, partly reduced lead ore mixed with cinder, obtained in smelting gray slag in the slag-hearth. The lead from the slag-hearth browse is extracted by resmelting.

brow-skid (brou'skid), n. The chief beam in

brow-skid (brou'skid), n. The chief beam in a frame to which tackle for loading logs on ears is fastened. Also called draw-skid and

lead-log. brow-tined (brou'tind), a. Having a browof the surface of the leaves. The cause of it is uncertain.

bending forward: said of antlers. This condition is characteristic of the genus Cervus and related forms.

Contrasted with *fork-tined.

The cause of it is uncertain.

Brunistic (brö-nis'tik), a. Of or pertaining to the doctrines of Giordano Bruno, the Italian philosopher (1548-1600). Engage Brit. XXX.

If this be not enough, we may refer to p. 201, where it is suggested that the extinct Sedgwick's deer may be allied to the Oriental rusine group. Evidently the author [Sir B. Johnston] does not know the difference between a brow-tined and a fark-tined antler, as, indeed, may be gathered from certain statements in regard to supposed roe-antlers later on in the work. gathered from certain statements.

roe-antiers later on in the work.

Nature, Dec. 31, 1903, p. 194.

Bruce's banana. See *banana.

bruce's bahaha. See "ouanna. brucia (brö'si-ä), n. [NL.] Same as brucinc. Brugère's picrate powder. See *powder. Brühl's receiver. See *receiver. bruisable (bröz'a-bl), u. [Also bruiseable; bruise + -able.] Capable of being bruised; friable. Catarore friable. Cotyrave.

bruise, v. t.—To bruise water (naut.), said of a vessel when she pitches heavily into a head sea.

bruise, n.—Dry bruise, a bruise without ecchymesis, or subcutaneous effusion of blood.

bruisewater (bröz'wât"er), n. A bluff-bowed vessel which creates much disturbance under the bows when forcing its way through the water.

bruit, n.—Aneurismal bruit, a murmur heard on auscultating over an aueurism.—Bruit de choc [F., 'sound of impact'], the second sound of the heart accompanied by an impression of impact, such as is noted in auscultating over an aneurism of the aorta—Bruit de cuir neuf [F., 'sound of new leather'], a sound resembling bruit. n.

He creaking of leather sometimes heard in pericarditis.—Bruit de dra pean [F., 'sound of (flappfing) cloth'], a flapping sound produced by the to-and-fro movement of a polypus in the trachea.—Bruit de pot félé [F., 'sound of cracked pot '], a sound heard on percussion over a cavity in the limg which is filled with air and communicates with the bronchia by a narrow opening.—Bruit de soufflet [F., 'sound of bellows'], a blowing sound heard in certain affections of the heart and also over an artery when it is compressed.—Systolic bruit, an abnormal sound heard, on auscultation, with the contraction of the heart.

bruiter (brö'tèr). n. [bruit + -erl.] One who

bruiter (brö'ter), n. [bruit + -er1.] One who bruits or spreads abroad reports or rumors. Udall.

brum¹ (brum), v.i.; pret. and pp. brummed, ppr. brumming. [Imitative var. of bum¹, v.] To hum; murmur. Blackwood's Mag., LVI. 207. brum² (brum), a. and n. A slangy contraction

of brummagem.

brumby (brum'bi), n. [Native Australian.] A name used originally in Australia to denote a wild or unbroken horse and adopted in other English colonies.

People who lost money on him called him a brumby.

R. Kipliny, The Broken-link Dandicap.

brummagem, a. II. n. A piece of brummagem ware; hence, an imitation; sham.

In these days one is so used to sham and imitation and In these days one is so used to shain and indication and Brummagen, that when by chance one comes to the real thing it is hard to believe in it.

Miss Thackeray, Village, p. 9.

brummer (brö'mer), n. [G.. ⟨ brummen, hum, buzz: see bomb¹, etc.] Same as bombard, 6. brummish (brum'ish), a. [brum¹ + -ish¹.] Brummagem; counterfeit; of counterfeit character: applied to coin. Colman the Younger. [Slang.]

brunch (brunch), n. [br(eakfast) + (l)unch.]In Oxford University slang, a meal which takes the place of breakfast and lunch.

brunch-word (brunch'werd), n. A word made on the model of 'brunch,' that is, by blendon the model of 'brunch,' that is, by blend-ing parts of two other words; a *blend-word brush-coal (brush'kôl), n. In mining, the coal

makes riding-saddles. [Eng.]

brownstone, n. 2. Decomposed iron pyrites.
browntail (broun'tal), n. A local name for the Tasmanian tit, Aeanthiza diemenensis.
brown-top (broun'top), n. 1. A panic-grass, Panicum fuscum, having the panicle brown and is similar in habit and value to the Texas millet (see under *millet).

2. The redtop, Agrostis alba.

brunella (brö-nel'ā), n. [An improper form of prunella.] A plant of the genus Prunella. This improper form of prunella. A plant of the genus Prunella. This previous and slightly shaded parts of the border. Prunella tudgards, commonly called self-head or head-all, is found wild in America. Asia, and Europe, often invading poor lawns and causing annoyance. See prunella?, 2. the redtop, Agrostis alba.

brunella (brö-nel'ā), n. [An improper form of prunella. [brosh-deal (brush'kōl), n. In mining, the coal taken down when the top of a level is brushed. These plants are little perennial weeds, sometimes grown in rockerica and slightly shaded parts of the border. Prunella tudgards, commonly called self-head or head-all, is found wild in America. Asia, and Europe, often invading poor lawns and causing annoyance. See prunella?, 2. the redtop, Agrostis alba.

brunella (brö-nel'ā), n. [An improper form of prunella. [brosh-deal (brush'kōl), n. In mining, the coal taken down when the top of a level is brushed.

brunella (brö-nel'ā), n. [An improper form of prunella. [brosh-deal (brush'kōl), n. A slender Austra-lian tree, Cupaniopsis anaeardioides, of the soapberry family. It yields a tough, close-found wild in America. Asia, and Europe, often invading provided to heal-all, is found wild in America. Asia, and Europe, often invading provided to heal-all, is found wild in America. Asia, and Europe, often invading provided to heal-all, is found wild in America. Asia, and Europe, often invading provided to heal-all, is found wild in America. Asia, and Europe, often invading provided to heal-all, is found wild in America. Asia, and Europe, often invading provided to heal-all, is found w

brunettism (brö-net'ism), n. Same as *bru-netness. Amer. Anthropologist, Jan.-March, 1902, p. 157.

under *millet).

2. The redtop, Agrostis alba.

browny, n. 2. A kind of currant loaf in common use in Australia.

1902, p. 157.

Brunfelsia (brun-fel'si-ä), n. [NL. (Linnæus, 1753, adopted from Ptümier, 1703), named in honor of Otto Brunfels (1488?-1534), au early hotanist and physician.] A genus German botanist and physician.] A genus of plants of the family Solanaceæ, containing about 30 species, native in tropical America. about 30 species, native in tropical America. A few of the species are grown in warm glass henses. B. Hopeana and B. paucifara are the most common, the latter being a very handsome plant, thowering in succession most of the year. B. Americana, B. hydrangexformis, and others are also in cultivation. See Franciscea.

brunissure (brü-ni-sür' or brū'nis-ūr), [F., browning, & brunir, brown: sec burnish, v.] A disease of grape-vines characterized by the formation of brown spots covering more or less of the surface of the leaves. The cause of it

philosopher (1548-1600). Eneye. Brit., XXX. 651.

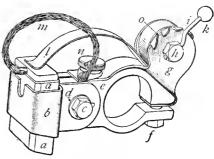
brunneous (brun 'ē-ns), a. [ML. brunneus, bruneus, \(\chi \) bruneus, \(\c I.4137.

brunsvigite (brunz'vig-it). n. [Dau. Brunsvig, Brunswick, + -ite².] A kind of chlorite occuring in gabbro in the Radauthal, Germany.

Brunswick stew. See *stew1. Brunton's calciner. See *calciner.

brush, n, 7. (b) One of the ends of the stationary circuit of an electric machine which receive the current from or supply it to the revolving circuit: so called because they had formerly a brush-like structure. Now the 'brushes' are solid blocks of carbon or graphite, or packages of wire gauze or of metal leaves. The part of the revolving circuit with which the brushes make contact is called the commutator or collector.

13. The hair on the upper end of a grain of wheat. It furnishes a distinction between wheat. It furnishes a distinction detween varieties.—Ambulacral brush. See *ambulacral.—Brush discharge, electrode. See *discharge, *electrode.- Faradic brush, a brush-electrode; a wire brush attached to one pole of a battery and used 'n the application of electricity to the surface of the body.—To be in the brush, to be embarrassed or confused, as a public



Electric Brush-holder.

a, brush; b, brush-box; c, brush-box stud; d, washer; c, brush-bolder shank; f, clamping-screw; g, spring-box; h, spring-box bolt; f, tenson-lever; h, tension-lever head; f, brush-spring; m, pig-tail connection; m, thumb-screw; e, adjustment notches.

speaker. [Western U.S.]—Wire brush, any brush made entirely, or hearly so, of wires. Specifically: (a) a hairbrush made with metal wires in place of bristles; (b) a gilder's brush of brass wire used for spreading gilding and for cleaning metal surfaces; (c) a brush made with iron wires used for street-sweeping; (d) a carding brush; etc.

brush, v. t. 6. In mining, to remove, by blasting or otherwise, rock from (the floor or roof of a level or roadway) to increase its height.

brush-cherry (brush'eher-i), n. 1. See $cherry^1$. -2. An Australian tree, Caryophyllus myrtifo-lius (Eugenia myrtifolia of Sims), which yields a light-reddish, elastic timber, used for staves, oars, boat-building, boomerangs, and shields. Its red, acid fruit makes a good preserve.

brush-clutch (brush'kluch), n. A clutch in which a semipositive contact is obtained by having wire brushes on one face catch into

roos which inhabit the scrub, or brush.

brusher-off (brush'ér-ôf), u. A worker in a pottery who brushes off the ware before it goes to the kiln.

The atmosphere which the brushers-off, the finishers, and the porcelain makers generally work in [in the Limoges potteries] contained 640,000,000 of dust-particles to the cubic metre.

Buck, Med. Handbook, VI. 324.

brush-grain (brush'gran), n. In the painting of woodwork, an effect produced when the second coat is made to show through the third. of another coler, by passing the brush over it while the second coat is still wet. N. and Q. 9th ser., VIII. 310.

brush-harrow (brush 'har "o), n. Same as brush, 6.

brush-holder (brush'hôl"dêr), n. A device for holding the brushes of an electric machine. See *brush, 13, with cnt. brush-hook (brush 'huk), n. A bush-hook

(which see).

brushing (brush'ing), n. In mining, that part of the roof or floor of a readway which is removed to increase its height. Barrowman, Glossary.

brush-line (brush'lin), n. A fishing-line suspended from a branch of a tree, with the hook immersed in the water beneath: nsed for catching catfish in a Mississippi river overflow.

Practically all the fishing is done with "trot-lines" and

Jardan and Evermann, Amer. Food and Game Fishes,

brush-scythe (brush'siTH), n. A ★bush-scythe (which see).

brush-turkey, n. The name is also loosely applied to various megapods, or mound-builders, besides the eurious Talegallus lathami. Among these is the mallee, Leipoa acellata. It is also given to the bustard, Eupodotis australis.

brush-turpentine (brush'ter"pen-tin), n. Australia, either one of two trees of the myrtle family, Syncarpia leptopetola and Rhodamia trinervia, both yielding useful timber. The latter is also called red scrub tea-tree and threeveined myrtle. See Syncarpia and compare tur-pentine-tree, 2.

brush-wire (brush'wir), n. Wire which is made especially for coarse brushes such as are used in street-sweepers.

brusked, brusqued, ppr. brusking, brusquing [brusk!, a.] To treat with scant courtesy or

in a brusk, offhand way: as, "in this first dia-logue he brusques Tasso," Fruser's May., XIII. Brythonic (bri-thon'ik), a. Of or pertaining to 530. – To brusk it, to assume a brusk manner; act with bruskness; as, "I'll brusque it a little," Scott, Woodstock,

bruskly, brusquely (brusk'li). adv. In a brusk manner; offhandedly and with seant cour-

brusque, brusquely. See *brusk1, *bruskly. brut (brut), a. and a. [F. brut, fem. brute, rude, rough, unfashioned, < L. brutus, brute. See brute, a.] I. a. Raw; rough; rude; as applied to wines, dry; not sweet.

II. n. [F. diamant brut.] A rough diamond or other gem. Roughing out a gem is often ealled bruting. M. Bauer, Precious Stones,

brute, n. 3. Naut., a yacht that to some extent sacrifices fineness of lines to fullness of form, so that great initial stability and sail-carrying power are obtained.

"Reliance," however, is a brute of the most pronounced "Retraince, nowever, is a britte of the most pronounced type, the term britte being used in its present accepted sense among yachtsmen as meaning a vessel that sacrifices flueness of form to fullness, great initial stability, and large sail-carrying power.

Sci. Amer., May 9, 1903, p. 354.

bruter (brū'ter), n. [$brut^2 + ar^1$.] One who roughs out or roughly shapes gems either by bruter (brū'tėr), n. ehipping or by grinding them. M. Bauer, Precious Stones, p. 244. bruting (brū'ting), n. [brut2 +-iuy1.] Rough-

ing out or shaping gems by chipping or grind-

brutting (brut'ing), n. $\lceil brut^1 + -inq^1 \rceil$ Browsing; nibbling of young shoots. - 2. The breaking off of young shoots (or branches?). [Provincial in all uses.]—Brutting erew, a crew which rolls logs down slopes too steep for teams.

Bruxellian (bruk-zel'i-an), a. and n. [F. Bruxelles, E. Brussels, in Belgium.] In geol., noting a local division of the Middle Eccene in Belgium, corresponding in part to the lower portion of the limestones of the Paris basin. See *Lutetian.

bryaceous (brī-ā'shius). a. Belonging or pertaining to the family Bryaceæ or to the order

Bryales, that is, to the true mosses.

Bryales (bri-ā'lēz), n. pl. [NL., < Bryum + -ales.] An order of mosses, the true mosses, characterized by having the spore-case separated from the wall of the capsule by a hollow eylindrical intercellular space. It is divided into the Acrocarpi and Pleurocurpi (ranked as suborders) and embraces by far the greater part of all mosses.

Bryanthus (brī-an'thus), n. [NL. (Gmelin, 1769), \langle Gr. $\beta \rho \dot{\nu} o \nu$, moss, $+ \dot{\alpha} \nu \theta o c$, flower, in allusion to the habit of the plant.] A genus allusion to the habit of the plant.] A genus of plants of the family Ericacex. The only species, B. Gmelini, is a moss-like or heather-like plant of eastern Siberia. The use of the name is sometimes extended to include the allied genus Phyllodoce. This consists of about 6 species, belonging to the arctic-alpine regions of both hemispheres. They are low, evergreen, heath-like shrubs with handsome yellow, red, or purplish flowers. Bryanthus empetriformis and other species are occasionally cultivated.

Brycon (bri'kon). n. [NL., < Gr. βρίκων, ppr. of βρίκκων, eat greedily.] A genus of fishes of the family Characinidæ, of numerous species, the typical one heing B. deuter, found on the

the typical one being B. dentex, found on the

coast of South America.

Bryophyllum (brī-ō-fil'um), n. [NL. (Salisbury, 1805), ζ Gr. βρίον, moss, + φύλλον, leaf.]

A genus of succulent plants of the family Crassulacea, containing 4 species, natives of tropical Africa. B. pinnatum (B. calycinum of Salisbury) is the only species under cultivation. If the leaves are laid on moist sand or moss, after a time new plants will appear at the indentations; it is therefore frequently grown for students' use. It runs wild in some of the warm countries. Sometimes known as the life-plant.

bryophytogeographic (brī-ō-fī-tō-jē-ō-graf'ik), a. [NL. bryophytum. bryophyte, + geo-graphicus, geographic.] Relating to the geo-graphical distribution of mosses or of bryophytes generally.

Bryssetæres (bris-e-tē'rēz), n. [NL., irreg. Gr. βρύσσος, a kind of sea-urehin, + ἐταῖρος, companion.] A genus of cling-fishes of the family Gobiesocidæ, represented by a single species, B. pinniger, a small fish abundant in the Gulf of California.

Bryssophilus (bri-sof'i-lus), n. [NL., < Gr. βρύσσος, a kind of sea-nrchin, + φιλεῖν, love.]

A subgenus of cling-fishes of the family Gobicsocidæ, typified by the single species Gobic-sox papillifer.

brusk¹, brusque (brúsk). v. t.; pret. and pp. Brython (brith'on), n. [W. Brython: see ippinels.] brusked. brusqued, ppr. brusking, brusquing Briton.] In cthnog., a Briton of Wales, Cornbucan, n. wall, or ancient Cambria, as distinct from a

the Brythons.

gery; (b) Backelor of Science.

B. S. A. An abbreviation of Backelor of Scientific Agriculture.

S. C. An abbreviation of Bengal Staff Corps. B. S. D. An abbreviation of Bachelor of Scientitic Didactics.

B. S. F. An abbreviation of Bachelor of Scientific Forestry.

B. S. G. An abbreviation of British Standard Gage.

3t. A contraction of Baronet.

Fiji Islands, a small evergreen tree, Gucttarda speciosa, of the madder family, with opposite obovate leaves and very fragrant jasmine-like obovate leaves and vo., and flowers, which are strung in garlands by the natives. The tree is widely distributed on tropical shores from East Africa and the adjoining islands to eastern Polynesia. It is highly esteemed on account of its delicious perfume.

buba (bō'bā), n. [Swahili buba.] Frambæsia.

Jour. Trop. Med., Feb. 16, 1903, p. 62.

bubal (bō'bā), n. [Also bubale; \(\) L. bubalus \(\) Gr. Folydavog: see buffle, buffulo, bubulis, Bubalus.] A large ox-like antelope of South Africa, otherwise known as the bubulis.

Of a vortaining to the eavity of the mouth and to the pharynx.—Buccopharyngeal aponeurosis, a fibrous region of the south of the pharynx.—Buccopharyngeal aponeurosis, a fibrous region of the south of the pharynx.—Buccopharyngeal aponeurosis, a fibrous content of the south of the pharynx.—Buccopharyngeal aponeurosis, a fibrous content of the south of the pharynx.—Buccopharyngeal aponeurosis, a fibrous content of the south of the content of the south of the pharynx.—Buccopharyngeal aponeurosis, a fibrous content of the south of the content of the south of the sout

Bubastic (bū-bas'tik), a. Of or pertaining to the aucient Egyptian city Bubastis, in Lower Egypt, the present Tel Basta.—Bubastic dynasty, the twenty-second Egyptian dynasty, which was of Seinitic origin, had its sent at Bubastis, and lasted through 170 years, beginning with about 980 B. c.

bubble-boyt (bub'l-boi), n. Same as bubble-

bubble-foot (bub'l-fut), n. Any insect of the order Thysanoptera or Physapoda. Amer. In-

orner Inysanopiera or I'nysapoda. Amer. Inrentor, June 1, 1904, p. 244.

bubo¹, n.—Malignant bubo, bubo occurring as the
characteristic symptom of one of the forms of plague.—

Sympathetic bubo, swelling of the inguinal glands due
to an irritation or wound of some part of the leg or foot.

Venereal bubo, one associated with venereal disease.

Juhonic a. 2. Accommended by the forms. bubonic, a. 2. Accompanied by the formation of bubos; affected with bubos.

From the fact that bacilli are hardly ever found in the blood of bubonic cases, it may be inferred that they are arrested by the lymphatic glands next above the seat of inoculation, and that the fight—which is the Illness—takes place largely in the bubo. Energe. Brit., XXXI. 788. Bubonic plague, a form of the plague characterized by the formation of bubos in the groins and sometimes in the axillæ. See plague, 2.—Bubonie-plague bacillus. See *bacillus.

bubui (bö-bö-ē'), n. [Said to be Tagalog, but

not The traced.1 silk-eotton, Ceiba pentandra, tree belonging to the family Rombaeaceæ. with a straight trunk, whorls radiating branches, digitate leaves, and mallow - like flowers. The flowers. The seed-pods yield a silky floss, called pulla in Ceylon and kapok in the Malay archipelago, which is brittle and clastic and not suitable for spinning, but is used for stuffing pillows and cushions. It is very inflammable very inflammable and is used in India in the manufacture of fire-works. See kapok,



Bubui (Ceiba pentandra).

and silk-cotton tree, under silk-cotton.—Bubui gubat (forest-bubui), a name applied to an allied tree, Bombax Cerba, called in the East Indies simool or red *silk-cotton tree. See silk-cotton, under cotton1, and simool. [Philippine 1s.]

4. Meat prepared on a buean.

| Guiana.]

Bucania (bū-kā'ni-ä), n. [NL., < Gr. βυκάνη, a trumpet; see burcina.] A genus of prosobranchiate gasteropod mollusks of the family The god's Irish name Nuada assumes on Brythonic ground the form of Nodens, genitive Nodentis, to be found in Latin inscriptions, of which more anon.

Rhys. Celtic Heathendom, p. 125.

B. S. An abbreviation of (a) Bachelor of Surgery; (b) Bachelor of Science.

B. S. A. An abbreviation of Buchelor of Science.

B. S. A. An abbreviation of Buchelor of Science.

B. S. A. An abbreviation of Buchelor of Science.

B. S. A. An abbreviation of Buchelor of Science.

B. S. A. An abbreviation of Buchelor of Science.

does not yield succinic acid.

bucare (bö-kä'rā), n. [S. Amer.; orig. language not traced.] The name in Venezuela, Porto Rico, Trinidad, and other islands of the West Indies of several legnminous trees belonging to the genus Erythriau, especially E. umbrosa and E. velutina. These are used as shade-trees in the cultivation of cacao and

Bt. A contraction of Baronet.

B. Th. An abbreviation of Bachelor of Theology.

B. T. U. An abbreviation of British Thermal l'nit.

buabua (bö-ä-bö'ä), n. [Fijian, also simply bua = Tongau bua = Samoan and Tahitian pua, name of several different trees, = Maori pua, name of several different trees,

pressing of olives in the production of olive-

buccinite (buk'si-nīt), n. [$Buccin(um) + -ite^2$.] A fossil Buccinum, or some shell allied to that

taming to the eavity of the mouth and to the pharynx.—Buccopharyngeal aponeurosis, a fibrous band stretching between the pterygoid process and the posterior part of the alveolus of the lower jaw, and giving attachment to the superior constrictor pharyngis and the buccinator muscles.—Buccopharyngeal muscle, part of the superior constrictor pharyngis muscle.

Bucephalus, n. 4. [l. c.] A jocose name for a riding-horse, implying 'a spirited or raging steed,' in allusion to the spirited steed of Alexander the Great.

steed, in and ander the Great.

See *rule1.

Buchan's rule. Buchiola (bö-ki'ō-lā), n. [NL., < G. von Buch, a German geologist, + L. dim. iola.] A genus of a German geologist, + L. dim. iola.] A genus of pelecypod mollusks. They have the general form of Cardium, but are of very primitive aspect, being without hinge-structure except for minute denticulations along the hinge-line. The surface is usually covered with festooned ribs. On account of the primitive expression of this and some contemporary genera, they were put together by Neumayr into a group termed Pakeoconcha; but the genus Buchiola is not of primitive age and is now regarded as a degenerative pelagic type. Same as *Glyptocardia.

Büchner funnel. See *funnel.

buchnerite (bök'nēr-īt), n. [Buchner (Otto Buchner, an authority on meteorites) + -ite².]

In petrog., a name given by Wadsworth (1884) to certain ultrabasie igneous rocks, both terres-

to certain ultrabasic igneous rocks, both terres trial and meteorie, of granular texture and consisting of olivin, enstatite (or bronzite) and augite. Buchnerite is a kind of peridotite.

Buchu eamphor. See *diosphenol.—Long buchu, the leaves of Empleurum ensatum, a shrub of southwestern Cape Colony, related to the plants which produce the true buchn, and used for adulterating that drng. See eut on following page.

buck¹, n.—Golden buck, a 'rabbit' with a poached egg placed on the cheese mixture.

[Western U. S.]—4. To bring or earry: as, to buck water or wood. [U. S.]—5. To ent to a proper shape for a barrel-stave.—6. To attempt to control (a bucking or obstreperous beast or a difficult affair or proposition): used only in the phrase to buck the tiger. See to

fight the tiger, under fight.

suck², n. 2. In poker, any article placed in buck2, n. the pool with the chips, to be taken down by the winner, indicating that when he deals it shall be a jack-pot. In straight poker, since the winner of the pool always deals, the buck is passed round to mark whose turn it is to ante for all the players.

buck4, v. t. 5. In football, to charge into (the line of opponents) with the ball.

buck⁶, n. (c) An apparatus used in the northwestern United States for gathering hay from the swath and transferring it directly to the foot of the stack. It consists of a coarse



Long Buchu (Empleurum ensatum) a, branch with flowers and fruit; b, a male flower; c, a hermaphrodite flower. (From Engler and Pranti's "Pflanzenfamilien.")

rake or cradle with horizontal teeth, supported at the two ends by wheels and propelled by horses at the rear. A paddle-wheel, drag-buck used on rougher ground is similar but without bucket-lid (buk'et-lid), u. The flap of a the wheels. The hay is elevated by means of a slide (see

A man . . . passed around some gold watches. . . . Twenty bucks they cost you over the counter. At three dollars the crowd fought for the tickers.

McClure's May., Feb., 1903, p. 428.

buckberry (buk'ber-i), n. 1. The squaw-huckleberry or deerberry, Polycodium stamineum and other species. [Southern U. S.]—bucket-mounting (buk'ct-moun'ting), n. The bear-huckleberry, Gaylussacia ursina, a species with a sweet fruit, much used in Nerth Carolina. Lounsberry, Southern Wild Flowers, n. 396. Flowers, p. 396.

buckboard-barouche (buk"bord-ba-rösh'), n. large buckboard used as a stage-coach. [Western U. S.]

buckboard-mail (buk"bord-māl'), n. A form of buckboard-wagon with accommodation for six passengers, used for passenger and mail service in the western United States, especially in Yellowstone Park.

buck-brush (buk'brush), n. One of several plants associated in the western United States bucket-trap (buk'el-trap), n. A form of steam-trap in which a bucket or open vessel steam-trap in which a bucket or open vessel and the float or weight to operate the decr-weed and wild broom. (b) In Oregon, the valve. shrub Kunzia tridentata. (c) In Colorado, bucket-wheel (buk'et-hwēl), n. The retating various shrubby composites of the genera Chrusothamnus and Isocoma.

buckeen¹ (buk-en'), n. [Guiana D. *bokin, fem. ef bok, goat, buck: see buck¹, n., 4.] An Indian woman: a term adopted from the Dutch

Indian woman; a term adopted.

Indian woman: a term adopted.

In Guiana.

The Indian men and women were called by the Dutch "Bucks" and "Bucksens," and these rather inclegant expressions are still in common use.

If H. Brett, Indian Tribes of Guiana, p. 34, note.

buckeen²(buk-ēn'), n. [buck + -een, an Ir. dim. (-in), used as in squireen.] In Ireland one belonging to the less wealthy section of the belonging to the less wealthy section of the class known as gentry, who, without a professions known as gentry, who, without a professions where the play the class known as gentry, who, without a professions where the play the class known as gentry who, without a professions where the play the class known as gentry who, without a professions where the play the class is popular name from the eye-spots on the wings.

bucker¹, n. 4. One who saws felled trees into logs. Also called a cross-cutter. [Western U.S.]

-5. One who brings or carries. See *buck²,

bucker3 (buk'er), n. A machine for shaping staves for barrels or kegs. It consists of a steel carriage into which the stave is clamped by a lever. The carriage is then forced by a ram into such a position that the stave passes between two eutters, which shave it to the proper proportions, the width in the center being greater than at the ends to give the barrel the proper bulge or belly.

bucket, n. 7. A letter full of abuse. [Local, II. S. long.] — 8. A second or diagram used for

Oleker, n. 7. A letter full of abuse. [Local, L. S. slang.]—8. A scoop or digger used for taking up loose material such as coal or ore, and often for digging under water. Such buckets are operated by power and can lift a ton or more at a time. The most common form is the clam-shell bucket, which is made in two parts hinged together. It is lowered with the jaws open, and they are closed while

the bucket rests on the material to be lifted. It is heavy enough to dig in as the jaws close and so pick up its load.

9. In turbines and centrifugal pumps, the space between two adjacent vanes on the revolving wheel.—Bucket fever. See *fever!—Orange-peel bucket, a self-filling bucket for a dredging-machine or for a coal-hoisting plant. It consists of four steel leaves hinged together and resembling the sections of half an orange when the skin is cut into four quarters. Dropped upon a mass of coal the pointed ends of the four leaves sink into the coal, and when the bucket is raised by its hoisting-chain the strain causes the leaves to come together, inclosing and lifting one or more cubic yards of coal. It is a modification of the more familiar clam-shell bucket (see clam-shell, 3).

bucket, v. l.—To bucket an oar, to recover the stroke

bucket, v. l.—To bucket an oar, to recover the stroke with a hurried forward swing of the body.

bucket² (buk'et), n. [Appar. <OF. buquet, a balance: see buck'et¹, n.] A beam or pole on which anything may be hung or carried. Levius, Manipulus Vocab., col. 86.

bucket-conveyer (buk'et-kon-vā"er), n. device for transporting material, consisting of a chain on which buckets are fixed at regular intervals. The material to be transported is put in the buckets and carried to the desired point, where it is dumped. See *conveyer, 4.

bucket-door (buk'et-dor), n. The cover of an

bucket-elevator (buk'et-el/e-va-tor), n. An apparatus for raising ore, grain, or other material, consisting of a number of metal buckets attached to an endless belt or chain. bucket-float (buk'et-flot), n. The float of a

bucket-valve.

buck6 (buk), r. t. To cut (weed) with a bucksaw. [Canada.]
buck11 (buk), n. A dollar. [Slang.]
A man . . . passed around some gold watches. tended for use in bedrooms at night and for outdoor illumination of colored lamps. Groves and Thorp, Chem. Technol., 11, 96.

bucket-pump (buk'et-pump), n. A chain or buck-quartz (bnk-kwârts'), n. lifting-pump which employs small buckets in place of pistons. See chain-pump.

Pocketbook.

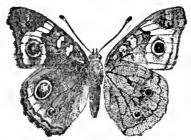
bucket-recall (buk'et-rē-kāl'), n. A sphere formed of bucket-hoops and canvas: it is hoisted aloft by whalers as a signal for the

boats to return to the ship.
bucket-ring (buk'et-ring), ". Same as *bucket-strap.

bucket-shell (buk'et-shel), n. frame of the bucket of a pump.

is used as the float or weight to operate the

part of the turbine wheel (using either steam or water) in which a jet impinges upon curved surfaces, called buckets, and imparts velocity and energy to the rotor which is fastened to the revolving shaft. These vanes, or buckets, are either cut or molded from the solid edge



Buckeye Butterfly (Junonia cania). (From "Amer, Museum Journal."

—Big or large buckeye. Same as yellow ★buckeye.—Purple or purplish buckeye, a variety (hybrida) of the yellow buckeye, which has purplish or pink flowers.—

Red buckeye. See red.—Shrubby buckeye, a low spe-Red buckeye. See red.—Shrubby buckeye, a low spe-eies, Absculus arguta, found on plains and prairies west of the Mississippi.—Small buckeye, Esculus parciflura, a low southern species with pure white flowers, sometimes cultivated.—Stinking buckeye, the fettid buckeye. See buckeye, 1.—Texas buckeye.—Same as Spanish buckeye (which see, under buckeye).—Yellow buckeye, Esculus octundra, a large tree of the eastern United States, with vellow flowers. vellow flowers

buck-fly (buk'flī). n. Same as tuck-moth.

buck-heap (buk hi). n. Same as once-mout, buck-heap (buk'hēp), n. See the extract.

The great majority of the rabbits captured in Australial are sure to be males, because the male rabbits have the babit of congregating in certain spots called "buck-heaps."

In these words that we main something the framework. In these spots they are easily caught by the trappers.

Nature, Nov. 13, 1902, p. 43.

buckhorn, n. 3. See deernorn.
bucking-hammer (buk'ing-ham-er), n. An
iron disk, provided with a handle, used for
iron disk, provided by hand. Coul and breaking up minerals by hand.

Metal Miners' Pocketbook.

bucking-table (buk'ing-ta"bl), n. table, usually of east-iron, on which crushed ore is placed to be pulverized.

buck-jump (buk'jump), n. A leap like that of a buck or a bucking horse or mule. [U. S.

dumped. See *conveyer, 4.

bucket-door (buk'et-dor), n. The cover of an opening in a pump designed to give access to the pump-buckets.

bucket-door (buk'et-el/e-vā-tor). n. An buck' jump), v. i. To jump in the manner of a bucking horse or mule. Same as buck-alevator (buk'et-el/e-vā-tor). n. An buck², 3. [U. S. and Australia.]

buck-jumping (buk'jump-ing), u. The plunging and leaping of horses and mules addicted to bucking. See buck², r. i., 3.

bucklandite (buk'lan-dīt), n. [Named after W. Buckland, an English geologist (1784-1856).]

W. Ducktana, an English georogist (1703-1630). A variety of allanite from Arendal, Norway. buckle¹, v. t. 2. To do up (the hair) in eurlpapers; eurl; erimp. See buckle¹, n., 3.

Another word, buckle, used in the sense of "to eurl," is a localism perhaps. I have heard it used much in Newport, where the ladies spoke of "buckling their hair," i. e. rolling it up on a bit of paper or cloth.

rolling it up on a bit of paper or cloth.

Letter from P. M. C.

buckler-head (buk'ler-hed), n. Same as buck-

buckling² (buk'ling), n. [G. bückling.] A large smoked and salted herring. buck-plate (buk'plat), n. Same as bucking-

Hard,

auriferous quartz. Coal and Metal Miners' Pocketbook.

A sphere Buck's extension apparatus. See *apparatus.

buck-shell (buk'shel), n. A dugout canoe with straight sides, the wood not being spread in the middle by heating. See *shell, 19. [Guiana,]

The metal buck-shot, n. 2. A lava of granulated structure, occurring in Australia, embedded in sandy alluvium. [Australia.]

sandy alluvium. [Austrana.]

The plain under our feet was everywhere furrowed by dead men's graves, and generally covered with the granulated lava, aptly named by the settlers buck-shot, and found throughout the country on these trappean formations. Buck-shot is always imbedded in a sandy alluvium, sometimes several feet thick.

Austral. Quart., 1851, p. 459, quoted by E. E. Morris in [Austral English.]

Buck-shot cinder. See *cinder.—Buck-shot land, land whose soil carries rounded lumps of the size of buck-shot, or that carries or produces concretionary pellets.—Buck-shot soil. Same as *buck-shot land.

buck-sick (buk'sik), n. See the extract.

Epidemie gaogrenous rectitis, known here as "caribi or "buck-sick," is said to be common amongst the Aboriginal Indians. I have only seen one or two cases, simply, I presume, because these Indians so rarely come to hospital for treatment.

**Jour. Trop. Med., Nov. 15, 1904, p. 357.

buckskinned (buk'skind), a. Wearing buckskin; clothed in buckskin.

Our buckskinned justices expound the law.
Scott, The Poacher.

buck-stave (buk'stav), n. Same as *buck-

buck-stay (buk'stā), n. One of the vertical beams which are run up the outside of a brick boiler-setting or furnace to keep it from buck-

ling, or cracking.

Ling, or cracking.

Ling the southern United games the games Bumelia, parbuckthorn, n. States any species of the genus Bumelia, particularly, B. lycioides. The tough buckthorn is B. tenax, and the wooly buckthorn of the coast region is B. lanuginosa. Both of these are also called black-haw and ironwood.—Cascara buckthorn, Rhamnus Purshiana, the source of the cascara sagrada bark. See Rhamnus and bark?.

bark². Buckwheat swarm. See *swarm1.— Copse-buck-wheat, Polygonum dumetorum, a climbing species, natmalized from Europe in parts of the United States. This
and P. seamdens havo been called hedge-buckwheat.—
Crested false buckwheat, Polygonum cristatum, a
sumfler species of the eastern and southern United States,
having the wlngs of the fruiting calyx incised.—Hedgebuckwheat. See copse-*buckwheat.

buckwheater (buk'hwē-tèr), n. A noviee at

buckwheater (buk hwe-ter), n. A novice at lumbering. [Slang, U. S.]
bucolism (bū'kol-izm), n. [bucol(ie) + -ism.]
A bucolie phrase or characteristic. H. N. Coleridge, Greek Poets, p. 7. [Rare.] N. E. D. bucorvine (bū-kôr'vin), a. and n. [NL. bucorvus (Gr. βοίς, ox, + L. corvus, crow) + -ine¹.] I. a. Of or pertaining to the hornbills of the genus Bucorvus or family Buceralidæ. otidæ.

II. n. A hornbill of this family.

bud¹, n.—Imaginal buds, the slight projections in full-grown larvæ and semipupæ of insects from which the wings and legs are developed. Packard, Text-book of Enton.,

bud-beetle (bud'be "tl), n. A beetle which infests the buds of various plants.—Raspberry-bud beetle, an American dermestid beetle, Byturus uni-color, which feeds on the buds and blossoms of the rasp-berry and blackberry.

bud-brush (bud'brush), n. A species of sagebrush, Artemisia spineseens, especially abundant in the Red Desert of Wyoming. It is a low plant with bud-like bunches of leaves and flowers much relished by sheep, and is the most valuable of the sage-brushes. Also called bud-sage and spring sage.

buddawong-nut (bud'a-wong-nut"), n. Same as burrawang-nut.

Budde effect. See *effeet.

Buddeize (bud'īz), v. t.; pret. and pp. Buddeized. ppr. Buddeizing. [Sw. Budde, name of the inventor of the process, +-ize.] To sterilize (milk) by heating to 48°-55° C. (118.4°-131° F.), with the addition of hydric oxid. At this temperature the enzymes of the milk decompose the hydric oxid, and the nascent oxygen destroys all spores as well as microbes.

Sei, Amer., May 30, 1903, p. 413. Buddhadharma (būd'ä-där-mä), n. [Skt.] The ethical code and religious system of Gautama

Buddha.

Buddha's rays. See $\star ray1$. Buddhic (bud'ik), a. [Buddha + -ie.] Same as Buddhistic.

Buddhism, n.—Esoteric Buddhism, a phrase applied to recent theosophical speculations.

budding, n.—Axial budding, the multiplication of a bilateral organism by transverse fission accompanied by regeneration.

In the rhabdocel turbellarians, and in some of the annelids, we often find chains of new individuals produced by a process that is often spoken of as budding. It is convenient, however, to distinguish these cases of axial budding from those of lateral budding.

T. H. Morgan, Regeneration, p. 149.

Lateral budding, the production by an organism of buds which become new organisms with their planes of symmetry different from those of the budding organism. Buddleja (bud-lê'jā), n. [NL. (Linnæus, 1737–53), named in honor of Adam Buddle (died 1715), an English elergyman and botanist.] A genus of trees or shrubs of the family Loganiaceæ, usually with quadrangular branehes. There are about 70 species in the tropical and temperate regions of America, Asia, and South Africa. The flowers are in racemes, panicles, or clusters; the corolla is tubular or campanulate and 4-lohed. The shrubs are ornamental and the fruit is a two-celled capsule with numerous seeds. It is not hardy in the north; B. Japonica, B. globosa, B. Lindleyana, B. variabilis, and B. Colvillei, however, will stand many degrees of frost.

buddler (bud'ler), n. One who uses a buddle in washing ore. See buddle², n. and v. t.

buddy (bud'i), a. [Also buddie.] 1. Full of huds. Florio.—2. Like a bud. Cotgrave.

budge², n. 4. Same as booze. [Loeal, U. S. slang.]

budgeree (buj'e-rē), a. [Also boojery, etc. Aus-A genus of trees or shrubs of the family Loga-

budgeree (buj'e-re), a. [Also boojery, etc. Aus-

budgeree (bu] e-re), a. [Also budgery, etc. Australian.] An aboriginal commendatory expression meaning 'good': used colloquially in the Australian bush.

budgerigar (buj'e-ri-gär'), n. [Also budgeree-gah, betcherrygah, betshiregah, beauregarde, etc. Native Australian budgery, good, + ga, gah (misspelled gar), a cockatoo or other bird.] An Australian name of the grass-parrakeet, Melopsittacus undulatus.

budgerook (buj'e-rūk), n. [Also budgrook, buserook, basrook, etc. Pg. bazarucco, basarucco, basaruc Same as *bazarucco.

Budge's center. See *center of Budge.
budgetary (buj'e-tā-ri), a. Of or pertaining to
the budget or governmental financial estimates for the year; relating to or compared with the budget: as, budgetary arrangements; a budgetary surplus.

budgeteer (buj-et-ēr'), n. [budget + -eer.] One who makes up a budget, as the chancellor of the exchequer of Great Britain when he presents his financial statement for the year.

budgrook (buj'ruk), n. [See ★budgerook. Also

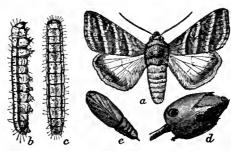
buserook, basrook, etc. Pg. bazaruceo, prob. < buffalo-bur (buf'a-lō-bèr"), n. Same as sand-Canarese bāzār-rūka or bajāra-rokkha, 'mar-bur. ket-money' (see Yule, 1903, p. 121).] A coin buffalo-fly (buf'a-lō-fli"), n. Same as buffalo ket-money' (see Yule, 1903, p. 121).] A coin of low denomination, made of copper, tin, lead,

bud-moth (bud'môth), n. A tortrieid moth, Tmetocera ocellana. It is common to Europe and the The locard occiliand. It is common to Europe and the northern United States, and its larva damages apple-trees by destroying the blossoms, newly formed fruit, and terminal twigs. Also called eye-spotted bud-moth. bud-sage (bud'sāj), n. Same as *bud-brush. bud-scale (bud'skāl), n. The seale-like outer leaves of a leaf-bud. See scale1, 2. bud-stick (bud'stik), n. A twig from which the bud-stick (bud'stik), n. The seale-like outer leaves of the leaves the bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leaves of a leaf-bud-stick (bud'stik), n. The seale-like outer leav

one who practises budding cuts the buds. The twig is not more than one year old, so that the buds have never yet started into growth. These buds, when removed from the twig, or stick, are inserted into the stock, there to grow. See budding.

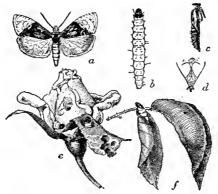
bud-worm (bud'werm), n. The larva of an American noctuid moth, Chloridea vireseens, which affects the bud of the tobacco-plant,

worm, the larva of a tortricid moth, Tmetocera occilana Schiff., which bores into the blossoms and newly formed fruit of the apple in the eastern United States.—Rose bud-worm, the larva of an American tortricid moth, Olethreutes nimbatana, which bores into the flower-buds of roses.



Bud-worm (Chloridea virescens).

 $\alpha,$ adult moth; $\delta,$ full-grown larva, from side; $\epsilon,$ same, from above; d, seed pod bored into by larva; $\epsilon,$ pupa. Natural size. (Howard, U. S. D. A.)



Rose Bud-worm (Olethreutes (Penthina) nimbatana).

a, moth; b, larva; c, empty chrysalis skin; d, terminal segment of pupa; c, rosebud, showing larva at work; f, leaves folded by larva. All enlarged one third, except d, which is greatly enlarged. (Chittenden, U. S. D. A.)

budzart, n. See *budzat.

Why the shaitan didn't you come before, you lazy old budzart? Cholmondeley, Dawk Bungalow, p. 215.

budzat (bud'zät), n. [Also budzart; < Hind. badzāt, of evil race, low-born.] A black-guard; a low fellow. [Anglo-Indian.] buf, n. and v. t. A simplified spelling of buff. buff, v. t. 2. In leather-manuf., to grind or

shave with a buff-wheel.

buffa (būf'fä), a. and n. [It.: see buffo.] I. a. Comic: as, opera buffa, aria buffa.

II. n. A female singer of comic music. See buffo and bouffe².

buffo and bouffe².

buffalo, n.—Big-mouthed buffalo, the common buffalo-fish, Ictiobus cyprinella, of the family Catostomidæ, a species which reaches a weight of 50 pounds or more: found in certain lakes of the Mississippi valley. Also called gourdhead.—Black buffalo, a buffalo-fish, Ictiobus urus, of the family Catostomidæ: found in the Mississippi river.—Buffalo cholera. See ★cholera.—Buffalo-clover. (a) See clover, 1. (b) See ★buffalo-pea.

—Gonrd-bead buffalo, a name in Louisiana of the buffalo-fish, Ictiobus cyprinella. Also called red-mouthed and big-mouthed buffalo, and gourdhead.—Mongrel buffalo, a fish, Ictiobus urus, of the family Catostomidæ, found in streams of the Mississippi valley.—Smallmouthed, buffalo, the most abundant and bet-known of the buffalo-fishs, Ictiobus bubalus, of the family Catostomidæ.—White buffalo. Same as small-mouthed ★buffalo.

In Texas the term, frame of copper, tin, teau, frame, frame, frame, formerly current on the western coast of the findia. [Anglo-Indian.] term is used indiscriminately of species of the fold moth (bud'môth), n. A tortried moth, forming natural pasturator occiliana. It is common to Europe and the trage. In the latter sense buffalo-clover has also been used. [Western U. S.] buff-coated (buf'kōt-ed), a. Wearing a buff-

buff-coated (buf'kōt-ed), a. Wearing a buff-eoat: as, buff-coated eavalry.
buffed (buft), a. [buff² + -ed¹.] 1. Clad in buff.—2. Coated or eovered with buff; having a buffy coat. N. E. D.
buffer¹, n. 2. Any instrument or contrivance used in buffing or polishing, such as the thin, sharp-edged steel plate used by woodworkers to bring out the grain; the chamois-covered pad or ball used in polishing the fingernails; the buffing-lathe, buff-stick, buffing-machine, buffwheel, etc., used by different workers in different materials, and usually with some kind of powder.
3. One who buffs or polishes (knives, glass, cut precious stones, daguerrecotype plates, wood-

precious stones, daguerreotype plates, woodwork, etc.)—Buffer's consumption, consumption prevalent among metal-polishers or -buffer's buffer-beam, n. 3. In mining, a beam fixed

across a shaft to prevent the pump-rods from

moving too far. buffer-box (buf'er-boks), n. The easing which incloses the buffer-spring and -rod at the end of a railway-car.

buffer-rod (buf'er-rod), n. In a railway-ear, the rod which earries a buffer; the rod which transfers the shock or bump from the buffer to the spring or eushion which is intended to re-

buffer-state (buf'er-stat"), n. A state which lies between two larger and supposedly hos-tile states, and thus serves as a 'buffer.'

buffet-car (buf'et or bü-fā'-kär), n. A parlorcar or sleeper fitted with a small kitchen for preparing light meals, which are served on temporary tables placed between the car-seats. buffet-organ (buf'et or bü-fā'-ôr"gan), n. A

small, portable organ.
buffo, n. II. a. Comic: as, basso buffo.
bouffe² and *buffa.

bufidin (bū'fi-din), n. [L. bufo, toad, + -id² + -in².] A poisonous substance formed in the skin-glands of toads.

bufonin (bū'fō-nin), n. [L. bufo(n-), toad, + $-in^2$] A name given by Faust to a substance obtained from the skin and parotid gland of the common toad, Bufo vulgaris L. Later investigations indicate that it was impure cholesterol containing some bufotalin.

bufotalin (bū-fot'a-lin), n. [L. bufo, toad, + stopping it in systole.

bufotenin (bū-fot'e-nin), n. [L. bufo, toad, +
-t-+en(e) +-in2.] A poisonous compound
obtained from the secretion of the parotid
glands of the toad. It aets upon the central nervous system, producing paralysis.

glands of the toad. It aets upon the central nervous system, producing paralysis.

bug², n.—Abe Lincoln bug, a name in some parts of Georgia of the harlequin cabbage-bug, Murgantia histrionica. See cabbage-bug. Also called third-party bug, fire-bug, and terrapin-bug.—Brazillan bug or beetle, any one of several beautiful Brazilian chrysomelid or curculionid beetles, sometimes worn alive as ornaments, and frequently set in gold and used in scarf-pins and other articles of jewelry. Among the species so used are the chrysomelid Desimonds variolosa and the curculionid Entimus splendidus.—Destructive mealy bug, Dactylopius destructor, found commonly on citrus-trees in Florida.—Electric-light bug, either one of two large American water-bugs, Belostoma Americanum and Benacus griseus. See Belostoma Americanum and Benacus griseus. See Belostoma Golden bug, any one of several species of tortoise-beetles, notably Coptocycla aurichalcea, which feed on the sweet potato and other convolvulaceous plants.—Green bug. Same as greenfty, 2; any one of several species of plant-lice.—Greenhouse-bug, a scale-insect or coccid Coccus (Lecanum) hesperidum L., a common cosmopolitan species found in greenhouses on various plants. Also called flat scale.—Leaf-foot bug. Same as leaf-footed *plant-bug.—Long-horned bug, any heteropterous insect of the series Gymnocerata (which see).—Long-threaded mealy bug, Dactylopius longitilis, a species found in Florida and in northern greenhouses.—Military bug, an American capsid bug, Hadronema mulitaris, which sometimes damages the sugar-beet plant.—Miona bug. Same as Persian *bug—Persian bug, a tick, Aryas persicus or persice.—See Aryas.—Sandy-reground bug, an American lygeid bug, Emblethis arenarius, of wide distribution.—Semiaquatic bug, any heteropterous insect of the series Cryptocerata, in the heteropterous insect of the series Cryptocerata, in cluding the families Belostomida, Corixida, Galyulida, Naucorida, Nepida, and Notonectidae.—Thirn-winged bug, any species of the aberrant heteropterous fami

trionica. Also called $Abe\ Lincoln\ \star bug.\ [Local\ Texas.]$ — Thread-legged bug, any member of the family Emesidx (which see). — Toad-shaped bug. Same as $\star toad$ -

bug-agaric (bug'a-gar"ik), n. Same as fly

agaric. See *Amanita.
bug-fly (bug'fli), n. The chinch-bug of the
United States, Blissus leucopterus. Kirby and

United States, Bussas teacopterus. It by that Spence, Entomol., p. 92.

buggy², n.—Concord buggy, a side-spring, three-perch buggy having a low-sided body. It originated in Concord, New Hampshire, and is the original of side-spring wagons.—Fantail buggy, a buggy with the rear cut down from the seat-back to a shallow depth at the rear end of the hody.

buggyette (bug-i-et'), n. [buggy + cttc.]
A vehicle of novel design, built at Calcutta, India, by a local firm of coach-builders.

bug-hole (bng'hōl), n. A small cavity usually lined with crystals. See vug. Coal and Metal Miners' Pocketbook.

bug-juice (bug'jös), n. Poor liquor. [Slang,

U. S.)
buglet (bū'glet), n. A small bugle, as that
carried by bicyclists. N. E. D.
bugle-weed (bū'gl-wēd), n. Same as *Ajuga.
bug-light (bug'līt), n. A small incandescent
electric light, used either in strect- or houselighting, as distinguished from the more
powerful arc-light. [Colloq.]
Buhl's disease. See *disease.

Buhrstone formation, a cellular silicious rock from which calcareous shells have been dissolved out, occurring in South Carolina, where it attains a thickness of 200 feet and was formerly largely used for nillstones. It is of Eoeene Tertiary age. The name was introduced into geological nomenclature by Tuomey.

build, v. i. 4. In casino, to combine certain cards so that their total pip-value equals that

of a single card in the player's hand.

Builders' hoist, lock. See *hoist, *lock1.

builder-cam (bil'der-kam), n. A heart-shaped

cam placed on a ring-spinning frame to regulate the wind of the yarn on the bobbin.

builder-screw (bil'der-skrö), n. A part of the mechanism of a spinning-mule for building

or forming the yarn cop.

builder-wheel (bil'der-hwel), n. One of the gears of a cotton-roving machine for regulat-

ing the wind of the roving on the bobbin.

building, n. 4. In mining, a wall or pillar
built of stone to support the roof in long-wall mining; a pack-wall. Barrowman, Glossary.

building-berth (bil'ding-berth), n. In shipbuilding, a place in a shipyard on which a vessel is built, with its accessories of piling. blocking, staging, etc.; a building-slip.

As an example mention may be made of the overhead cranes fitted at the Union Ironworks of San Francisco. A framework of wood is built up over the entire building berth, the structure being well braced in all directions for carrying two travelling girder cranes.

Encyc. Brit., XXXII. 593, 594.

building-motion (bil'ding-mo"shon), n. mechanical contrivance on a cotton-roving machine for regulating the speed of the bobbin and the wind of the roving thereon. Somebin and the wind of the roving thereon. Sometimes called box of tricks.

building-paper (bil'ding-pā'per), n. Paper intended to be inclosed between the sheathing

and clapboards of a wall or the sheathing and shingles of a roof, chiefly to give additional warmth and dryness.

building-wheel (bil'ding-hwel), n. Part of the mechanism of a spinning mule for build-

buire (bwer). n. [F. buire, dial. buie, bie, OF. buire, buie, < ML. *buca. < OLG. *būc, AS. būc, a pitcher, also the helly: see buck5, bouk1.] A jug or flagon with a handle and spout. Compare burette.

buitenlander (bī'ten-lan-dêr), n. [S. African D.: buiten, outside (see but1), + land, land.] A foreigner; an alien.

huko (bö'kō), n. Same as buchu. Bukowka sandstone. See *sandstone.

bul, n. A simplified spelling of bull. Bul (böl), n. [Heb. $b\bar{u}l$, a word of Canaanite origin.] An ancient name of the second month of the Jewish civil year, now called Hesvan or Mar-hosvan. As the name of a

Hesvan or Mar-hesvan. As the name of a month it occurs only once in the Hebrew Bible (1 Ki. vi. 38). There are several renderings of the word. See Hesvan.

bulak (bő'läk), n. [Tagalog bulak, bulac, cotton; = Bisaya bolac, a flower, esp. the flower of cotton.]

1. A general name in the Philipanic Library (Cocyright). derings of the word. See Hesvan.

bulak (bő'läk), n. [Tagalog bulak, bulac, cotton; = Bisaya bolac, a flower, esp. the flower of cotton.] 1. A general name in the Philippine Islands for cotton (Gossypium).—2. A name sometimes applied in those islands to

the silk-cotton tree, Ceiba pentandra, and to other plants yielding down resembling cotton. See *bubui (with cut).—Bulak-damo (cotton-

weed). Asclepias curassavica, a milkweed: so called on account of the silky pappus of its seeds. See kapok. bulakan, bulacan (bō-lā-kān'), n. [Visayan name.] Either of the species Thespesia macrophylla and T. populnea, two closely allied trees belonging to the mallow family, yielding fine cabinet-wood. Also called banago and banalo. See Thespesia, *banalo, *milo, and Polynesian *rosewood. [Philippine Is.]

Bulama fever. See *fever1.

Bull of percussion, a shell-like projection found on the fractured surface of flints.—Bulb of the vestibule, vulvovaginal bulb. Same as rulvovaginal yland.—Conjugate bulbs, a pair of thermometers inclosed in copper globes, respectively bright and black, for the purpose of determining the total effect of daylight (that is, skylight plus sunshine).—Fractionation bulb, a small



Fractionation Bulb.

a, tube through which argon enters bulb; b in which it is liquefied; c, tube connecting Flen air contained in a vacuum-vessel; d, tap for c mercury gas-holders; c, mercury gas-holder. "Exper. Study of Gases.")

glass bulb surrounded by liquid air held in a vacuum

glass bulb surrounded by liquid air held in a vacuum-vessel: used in separating the rare gaseous elements of the atmosphere.—Gas-washing bulb, a glass apparatus especially designed to expose gases to absorbent liquids.—Liebig's bulb, a form of potash-bulb devised by Liebig for the absorption of the earbou dioxid produced in the combustion of earbon compounds in ultimate analysis: Irequently used for the absorption of gases by liquids.—Nitrogen-bulb, a glass appara



tion of gases by liquids.—Nitrogen-bulb, a glass apparatus for the absorption of the ammonia gas set free in the analysis of nitrogenous compounds. The bulbs are filled with standard acid. The various shapes are known by the names of their designers.—Potash bulb, a light glass apparatus designed to contain a strong solution of potassium hydrate, so arranged that the gas (carbon dioxid) must bubble through several bulbs or through a length of tubing to effect complete absorption. The apparatus increases in weight in proportion to the gas absorbed. There are many forms. are many forms.

are many forms.

Bulb-angle bar. Same as *angle-bulb.

Bulbar apoplexy. See *apoplexy.—Bulbar arteries, small arteries, derived from the anterior spinal artery, which supply the medulla oblongata.—Bulbar myelitis, a slow inflammatory process in the medulla oblongata, leading to hulbar paralysis.

*hulli-tec.

bulb-beam (bulb'bēm), n. Same as *bulb-bar. bulbila (bulb'bem), n. Same as \(^{\text{out}\choose{bulbila}}\) bulbila (bul-bil'\(\text{a}\)), n.; pl. bulbilla (\(^{\choose{bulbila}}\) bulbila (bul-bil'\(\text{a}\)), n.; pl. bulbila (\(^{\choose{bulbila}}\) bulbilo (bulb'\(^{\choose{bulbila}}\)). In hydroid zo\(^{\choose{bulbila}}\) by tessabul at a carly stage and is capable of independent development.

bulb-iron (bulb'\(^{\choose{bulbila}}\) end (bulb'\(^{\choose{bulbila}}\)) n. Same as \(^{\choose{bulbila}}\) bulb-bar. bulb-iron (bulb'\(^{\choose{bulbila}}\)) n. A tyroglyphid mite, this galbublus hyacinthi, which often does great bulbila (bulb'\(^{\choose{bulbila}}\)) a. B. A pile of tobacco laid up in conrese for the purpose of sweating.

bulb-iron (bulb'ī"ern), n. Same as *bulb-bar. bulb-mite (bulb'mit), n. A tyroglyphid mite, Rhizoglyphus hyacinthi, which often does great damage to bulbs in hothouses by burrowing into healthy tissue and giving entrance to destructive fungi and bacteria.

bulbocapnine (bnl-bō-kap'nin), n. [NL. Bulbocapnus + -inc².] A crystalline alkaloid, C¹¹9H¹¹9NO⁴4, found in the roots of Corydalus cava or Bulbocapnus carus. It melts at 199° C.

Bulk modulus. See ★modulus.—Ton of bulk. See ton¹, ².

bulk¹, v. t. 2. In the tobacco industry, to form into a bulk or bulks; to leave in the state of bulks: used in this sense with down. bulbocavernosus (bul*bō-kav-ér-nō'sus), n. [NL., < L. bulbus, bulb, + cavernosus, cavernous.] The accelerator urine muscle.

bulbocavernous (bul-bo-kav'er-nus), a. taining to the enlargement at the root of the corpus cavernosum.—Bulbocavernous glands. Same as Cowperian glands. bulbosin (bul'bō-sin), n. [bulb + -osc + -in².]

enlargement or bulb, and used in connection with angle-bars riveted to the other edge for deck-beams, stringers, etc. Modern facilities in steel-rolling have resulted in the general substitution of angle-bulb and T-bulb bars for these purposes.

bulb-rot (bulb'rot), n. A disease of bulbs of bacterial or fungous origin: as, the bulb-rot of the lily, said to be due to the fungus Rhizopus

necans.

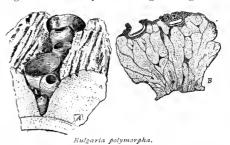
bulb-scab (bulb'skab), n. A fungus disease of Iris reticulata, caused by Mystrosporium adustum, which produces black patches on the sheath of the bulb.

bulb-scale (bulb'skāl), n. One of the fleshy leaves or coats of a bulb.

bulb-tee (bulb'te), n. A deck-beam; a bar, rolled from iron or steel, which has a web with a double flange at one end and a cylindrical head at the other end, thus:

bule, n. Same as $boule^2$. Bulgaria (bul-gā'ri-ā), n. [NL. (Fries, 1823), in allusion to the somewhat coriaceous ascomata; (L. bulga, a leather sac: see bouge1.] A genus of discomycetous fungi having rather

Bulb-tec.



a, the fungus, showing the habit, growing between the ridges of oak bark; b, fruiting body in longitudinal section. Twice natural size.

large, dark-colored gelatinous ascomata which are hard and horny when dry. The spores are simple and brown. B. polymorpha is a common species occurring on oaks and said to cause their decay and death.

bulge, n. 3. A rapid rise in price, of stock, grain, cotton, or the like, followed by an equally rapid fall, owing to some temporary causes. The name has reference to the curve in

a diagram of prices. [Colloq.] bulge, r. II. trans. 1. To cause to swell out and become protuberant.

How his Majesty is crushed down; quite bulged out of shape in that sad way, by the weight of time and its pressures! Carlyle, Frederick the Great, II. x. 7.

2. To bilge or stave in the bottom of, as a ship.

Here I found the ship was bulged and had a great deal of water in her hold.

Defoe, Robinson Crusoc, p. 51. That which bulges; in

bulger (bul'jer), n. That whi golf, a club with a convex face. bulger-driver (bul-jer-dri'ver), n. A wooden

golf-club with a convex face. The force bulging-stress (bul'jing-stres), n.

Before the sweat is completed the bulk is pulled down and built up eight or ten times.

U. S. Dept. Agr., Farmers' Bulletin, No. 60 (1898), p. 7.

Bulk modulus. See ★modulus.-Ton of bulk. See

These are tied into hands and bulked down for a short time. $U.S.\ Dept.\ Agr.$, Farmers'Bulletin, No.60 (1898), p.9. 3. To pile in heaps, as fish for salting.

bulker , n. 2. One who bulks tobacco, fish, or the like.

bulkhead, n. 4. In hydraulic mining the pressure-box or tank at the end of a water-ditch or flume from which the water-pipes

enten or nume from which the water-pipes lead to the nozles.—Partial bulkhead, in shipbuilding, a bulkhead extending only part way across the ship from the side; also, by extension, a name given to very deep plate-frames (5-10 feet deep) fitted on high-power passenger-steamers between the decks and in the hold at the side. In the longitudinal system proposed by Scott Russell, and carried out on the "Great Eastern," there were no transverse frames except such partial bulk-

heads. In modern steamers they are used in conjunction with ordinary frames.—Splinter bulkhead, a bulkhead or partition of thin armor (usually 1-2 inches thick) of nickel-steel, fitted in the interior of large war-ships, between the guns in the citatel or casemates, to localize the damage from the explosion of shells in the interior. In the newest ships there are both longitudinal and athwartship splinter bulkheads, dividing the citatel into a number of compartments, in each of which there are one or two medium-caliber guns.

bulkheaded (bulk'hed ed). a. Furnished with (water-tight) bulkheads: applied to ships.

bulkheaded (bulk'hed ed). a. Furnished with (water-tight) bulkheads: applied to ships.

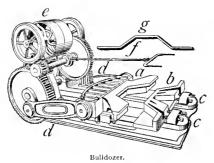
(water-tight) bulkheads: applied to ships.

(water-tight) bulkheads: applied to ships.
bull1, n. 11. In mining, an iron rod used in
ramming clay to line a shot-hole. Coal and
Metal Miners' Packetbook.—Bull in the ring, a
child's game, played by a number joining hands in a circle to prevent one in the center from getting away.
bull5 (búl), n. Same as *beal8.
bull-ant (búl'ánt), n. Same as bull-dog *ant.
bullation, n. 2. In bot., one of the elevations
which, with alternating depressions, occur in
considerable numbers nearly parallel with the
margin of the lamina of Laminaria bullata.

margin of the lamina of Laminaria bullata.
bull-berry (bul'ber-i), n. The buffalo-berry,
Lapargyrea argentea. See Shepherdia.
bull-block (bul'blok), n. A machine for taper-

ing a wire so that it can enter a drawing-die. bull-chain (bul'chan), n. 1. A very heavy chain to which a number of short chains with hooks on one end and dogs on the other are attached: used to draw logs from a mill-pond up a gangway.—2. Same as jack-ehain. bull-clover (bul'klō"ver), n. See *clover. bull-daisy (bul'dā'zi), n. The ox-eye daisy.

bulldog, n. 8. Same as bulldog *ant. bulldozer, n. 3. A horizontal geared press for bending, shaping, forming, upsetting, and welding heavy bars, rods, and other metal shapes. It switched to meeting the property of the supports shapes. It consists of a massive frame which supports bending, punching, and shaping-dies, one die being controlled by crank-shafts from the gearing. By using double dies, two bends may be given to any piece of work at one stroke of the machine.



a, forming-die sliding on bed; b, fixed die; c, c, screws for adjustment of b; d, d, connecting-rods operating a; c, pulley for belt-delivering power; f, controller; g, sample steel bar bent in machine. Machine if feet long.

buller² (bùl'èr), n. Same as *bull-shot.-2. In slock-raising, a cow of irregular reproduc-

In slock-raising, a cow of irregular reproductive habit. Rep. Kansas State Board Agr. 1901-1903, p. 253.

bullet, n. 4. In poker, an ace: as, a pair of bullets. [Slang.]—Bullet gall. See *gall3.—Dumdum bullet, ahalf-covered bullet with an expansible soft core: named from the Dumdum annunition-works at Calcutta.—Soft-nose bullet, a bullet in which the nose is made of softer metal than the rest in order that it may flatten out, or mushroom, on impact.

bullet-head (bul'et-hed), n. A round head like a typical bullet; a person having such a head, and, figuratively, a pig-headed, obstinate ner-

and, figuratively, a pig-headed, obstinate per-

bulletin. n.—International bulletin, in meteor.: (a) The hulletin of weather telegrams published in Paris since 1859 as the Bulletin International. (b) The bulletin published by the chief signal officer of the United States army from 1875 to 1889, containing the daily reports and charts and monthly and annual summaries of the international simultaneous meteorological observations for the whole worthern hemisphere. northern hemisphere.

bullet-money (bul'et-mun"i), n. A Siamese gold and silver ingot coinage: so called from its form.

bullet-wood, n.—Andaman bullet-wood, the timber of Minusups bittoratis, a tree of the Andaman and Nicobar islands and Tenasserim. It is reddish brown, close-grained, very hard, durable, and heavy, and is used especially for gnn-stocks.

bullety (bul'et-i), a. [bullet + -y1]. Bullet-

like as regards form; shaped like a bullet: as, a bullety brow. Poe, Works, III. 111. bull-fiddle (bul'fid"), n. A device consisting of a tin can with a string so inserted that when it is twanged a harsh, noisy tone is produced. Spaniards, and peoples of Spanish origin, in which mounted men attack bulls. See bullfight.

6. A local name for a river-mussel, Pleurobema æsopus, found in the Mississippi, the shell of which is used in the manufacture of pearl of which is used in the manufacture of peari buttons.—Bear Lake bullhead, a species of sculpin, Cottus conatus, of the family Cottide, found in Great Bear Lake and in the Yukon.—Black bullhead, the common species of horn-pont, Amiurus melas, found especially in western New York and southwestward.—Bullhead shark. See *shart!.—Prickly bullhead, a species of sculpin, Cottus asper, of the family Cottide, found in streams of the Cascade range.—Rocky Mountain bull-head, a species of sculpin, Cottus semiscaber, of the fam-ily Cottidæ, found in clear streams in the Rocky Mountain vergion

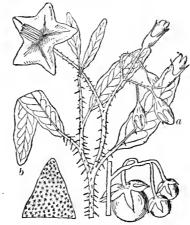
massive head.—Bull-headed rail, a rail which has a thick, heavy head, over 50 per cent. of the metal in the cross-section being located in its head.

bull-headedness (bull hed ed-nes), n. 1. The

quality of being bull-headed.—2. Figuratively, blind, unreasoning impetuosity or obstinacy;

stupid aggressiveness; blockheadedness.
bull-hide (bùl'hìd), n. The hide of a bull;
loosely, any very heavy hide or skin.
bull-leader (bùl'lē'der), n. See *bull-ring, 2.
bull-metal (bùl'met'al), n. A form of bronze which is used for hydraulic and marine work, both in rolled sections and eastings. The metal becomes tougher and more ductile as its temperature is increased.

bull-nettle (bul'net"), n. A perennial weed, Solanum elæagnifolium, often prickly, which



Bull-nettle (Solanum elaagnifolium).

a, upper portion of a plant in flower and fruit; b, portion of a leaf magnified to show stellate pubescence. (From Britton and Brown's "Illus. Flora of the Northern States and Canada.")

causes trouble in the region from Kansas to New Mexico. The leaves are silvery like

those of species of Elæagnus.
bull-oak (búl 'ok), n. Same as *belah.
bullock-puncher (búl 'ok-punch"èr), n. Same as *bull-puncher.
bullock-sling (búl 'ok-sling), n. A strong,

broad sling of canvas, employed for hoisting live cattle in and out of a vessel.

bullock-wagon (bul'ok-wag"on), n. A crude vehicle, with solid plank wheels, drawn by bullocks: used in South Africa.

bullocky (bul'ok-i), n.: pl. bullockies (-iz).
The driver of a bullock-cart or -wagon. [Australia.]

Australia. J
By George, Jack, you're a regular bullocky boy.
Rolf Boldrewood, Colonial Reformer, xii. Austral
[English.]

Bulloidea (bûl-ō-id'ō-ii), n. pl. [NL., < Bulla (a genus) + -oidea.] A group of tectibranchiate gasteropods of the order Opisthobranchiata. They have the more or less spiral shell either external or internal; epipodia more or less well developed; a broad cephalic shield distinct from the dorsal region; usually no tentacles; and the eyes sessile. It includes the Actwonidw, Bullidw, Dorndidw, and other families. bullon (bö-lön'), n. [Cf. Sp. bullon, a kind of length of the Charles of a species of unpresent knife.] The Cuban name of a species of wrassefishes, Searus croicensis, of the family Labridae, found about the West Indies.

bull-puncher (bul 'punch "er), n. A bullock-

driver. [Australia.]

book at the end. The snap-hook, when caught in the ring, makes it possible to lead the bull in safety. The handle is called a bull-leader or bull-staff.

3. The main part of the piston in an engine; the spider of the piston.

bull-rope, n. 2. In well-boring, the rope on which the boring-tools are suspended and which operates them: so called from the fact that it passes over the bull-wheel.

bull-rout (bul'rout), n. A scorpenoid fish, Centropogon robustus, tound in Australian wa-

bull-headed, a. 3. Having a blunt, thick, or bull's-eye, n. 14. In meteor.: (a) A small massive head.—Rull-headed rail, a rail which has a cloud of ruddy aspect which off the coast of South Africa rapidly develops into a local storm. (b) The center of a system of circular isobars, such as characterizes an extensive storm. The isobars suggest the appearance of a target with its bull's-eye. Hence—(c) The severest part of a storm or the center of a hurricane.—15. A fish of New South Wales, Priacanthus maeraeanthus. E. E. Morris, Austral English.—16. The labradorite variety of feldspar, with a dusky sheen. Also wil-de-bœuf.-Bull's-eye cringle, lens. See ★cringle,

bull-shot (bul'shot), n. In mining, a blown-out shot; a blast that has blown out the tamp-ing. Also buller.

bull-staff (bull staff), n. See *bull-ring, 2. bull-tongue (bull tung), n. In cotton-culture, a heavy plow having a vertical mold-board. It is more of a digger than a plow. [Local, south-

ern U. S.1 bull-trout, n. 2. Salvelinus malma, of northern and western North America and Kam-

bullule (bul'ūl), n. [LL. bullula, dim. of bulla, a bubble: see bulla.] A minute vesicle. bull-wheel, n. 3. In the machine for boring wells, the wheel on which the part of the bullrope which is not in use is wound. It usually consists of a drum with a wheel on each end.

bully¹, n. 6. In field-hockey, the beginning of a game and the starting of each goal. A player from each side stands facing the sideline, and strikes first the ground and then the stick of his opponent alternately three times, after which either player may strike the ball: atter which either player may strike the ball: as soon as it is so struck the ball is in play.—
7†. A foot-ball serimmage.—8. The foreman or boss of a logging-camp. [U. S.]
bully³ (būl'i), n. [F. bonilli, boiled beef: see bauilli. The E. use is prob. often associated with bull-.] Canned or pickled beef. Also

attrib., as bully beef.

Anything more ridiculous than the possibility of my return to Africa never occurred to me as I wearily munched my ration of everlasting bully beef and rice during the Matabele war of 1896.

E. S. Grogan, in Geog. Jour., Aug., 1900, p. 431.

bully4 (bul'i), n. [An assumed sing. of bullis (sometimes written bullies), a form of bullace, q. v.] The bullace or sloe.

q. v.] The bullace or sloe.

bully (bul'i), n. [Prob. a different application, alluding to the similar fruit, of bully4, either directly or in the compound bully-tree.]

Same as bully-tree. Also called bully-bay and

bully-berry tree.
bullyism (bul'i-izm), n. The practices and conduct of a bully.

The Outises who practice this species of bullyism are, as a matter of course, anonymous.

Poe, Mr. Longfellow and Other Plagiarists, Works, III. 320.

bully-off (bûl-i-ôf'), n. In field-hockey, the starting of the game. See *bully1, 6. bulpiss (bùl'pis), n. [Native in Nicaragua.]

A cutaneous affection, probably parasitic, endemic among the Mosquito Indians in Nicara-gua. Buck, Med. Handbook, II. 516.

gua. Buck, Med. Handbook, 11. 516.
bulrush, n.—Alkali bulrush. See American ★bulrush. Tush.—American bulrush, Scirpus Americanus, a species widely diffused in North America. sometimes called three-square in allusion to its triangular sten, and chair-maker's bulrush, doubtless with reference to its use. In the West, often called alkali bulrush because it endures alkali soils.—Chair-maker's bulrush. See American ★bulrush.—Greatbulrush, Scirpus lacustris. See Scirpus.—Prairie bulrush, Scirpus campestris, a species with a three-angled stem, lower than the stem of the American bulrush, found on wet prairies from Mani-

toba to Mexico.—Salt-marsh bulrush, Scirpus robustus, a stout species found on the North American coast from Nova Scotia to Texas.

bultong (búl'tong), n. See biltong.

Bulwark plain. See *plain!.

bum', n. II. a. Of poor quality; low-down: as, a bum show; a bum performance. [Slang. U. S.]

bumba rubber. See *rubber.
bumbarge (bum'biirj), n. Same as bumboat.
bumble, n. 3. A jumble or confused heap;
confusion.—4. An awkward person.

Hadst thou taen aff some drowsy bummle, Wha can do naught but fyke an' fumble, Twad been nae plea.

Burns, On a Scotch Bard, st. 4.

Bumble flower-beetle. Sec * flower-beetle.

bumblebee, n.—Trumpeter bumblebee, an individual worker in a colony of bumblebees whose function it is to awaken the others in the early morning.

bumbo² (bum'bō), n. A native name in Sierra Leone for a fragrant resin resembling incense, which is yielded by the bumbo- or bungo-tree, Daniellia thurifera, as a result of punctures of the twigs and branches by an insect. See bungo-tree.

bumboating (bum'bot-ing), n. The business of a bumboat-man (or -woman). Marryat.

bummer, n. 3. A small truck with two low wheels and a long pole, used in skidding logs. Also called a drag-cart.

bumming (bum'ing), n. In mining: (a) The heaving or rising of the floor. (b) The emitting of a hollow sound when struck. [Scotch.] bump², n. 6. Iu cricket, the act of rising higher than usual from the pitch after being bowled: said of the ball.

bumper1, n. 3. A species of pompano-like fish, Chloroscombrus chrysurus, of the family Carangidæ, found on the South Atlantic coast and about Cuba. Also called casabe. mas.]—4. In felt-hat manuf., a machine used for consolidating the felted material.—5. In Eng. whist, a rubber of 8 points.

bumper2, a. Brimming; abundant; very good;

as, a bumper crop.
bumper², v. I. trans. 2. To toast by drinking off a bumper.

II. intrans. To drink bumpers: as, "we all sang and bumpered away," M. Scott, Tom

Cringle, p. 510.

bumper³ (bum'pėr), n. In pianoforte-making, same as *counter-check, 2.

bumping-table (bump'ing-ta"bl), n.

In mining, a concentrating-table with a jolting mo-tion. Also bump-table. Coal and Metal Miners' Pocketbook.

bump-joint (bump'joint), n. A joint for fastening flanges on pipes by expanding or bumping the end of the pipe into a recess in the flange, thus preventing the flange from pull-

bumpkinet (bump'kin-et"), n. [bumpkin + -et1.] A little bumpkin. [Rare.]

Peggy was a little vulgar bumpkinet, Times (London), Jan. 12, 1881.

bunch¹, n. 7. In mining, the expanded portion of a pipe-line; a place where the pipe does not maintain a uniform cross-section.

does not maintain a uniform cross-section.
but is expanded.— Miners' bunches, circumscribed
edematous infiltrations in various parts of the surface in
cases of ankylostomiasis. Nature, Sept. 22, 1904, p. 520.
bunch', v. t. 2. In supur-beet growing, see
*block', v. t., 8.—To bunch a load, in tumbering, to
encircle several logs with a chain and load them at once,
by steam or horse-power.—To bunch logs, to collect
logs in one place for loading.

Number (hun/char)

buncher (bun'cher), n. One who or that which bunches; specifically, an attachment to a mower designed to collect the clover, to a mower designed to collect the clover, grass, etc., as fast as it is cut, and to deliver it in regular lots called bunches. It consists of a series of steel bands trailing on the ground behind the entter-bar, and a rear stop or gate composed of steel rods resembling a hay-rake. The grass, cut by the mower, falls on the buncher and is prevented from reaching the ground by the gate. When the buncher is full the gate is released by the operator, and the grass is delivered in a compact hundle called a bunch.—Asparagus-buncher, a self-locking cylindric, hinged holder in which asparagus-stems are placed and compressed and tied into convenient and uniform bunches for transportation. It has a guide for the knife used in trimming off the end of the bunch.—Side-delivery buncher, a form of buncher designed to deliver the grass at the side of the mower instead of at the back. See *windrouer.buncher'ergren (bunch'eve*ergren), n. See

bunch-evergreen (bunch'ev'er-gren), n. See evergreen.

bunch-grass, n. 2. In general, any grass which grows in scattered tufts or bunches as distinguished from one which forms a continuous sod. Pound and Clements .- Black bunch-

grass, principally Hilaria mutica; also several other grasses of different genera.—Early bunch-grass, a tender grass, Estonia obtusata, readily eaten by cattle, ranging across the American continent and valuable where abundant.—Feather bunch-grass, a slender grass, Stipa viriduda, growing in and along the Rocky Mountains. It is the best of its genus for hay, free from the objectionable awns of S. spartea, the porcupine-grass.—Great bunch-grass, Festuca scabrella, a valuable mountain-grass of the western United States.—Pine bunch-grass, the sheep's fescue, Festuca oriua. [North-western United States,]—Wire bunch-grass, a wheat-grass of the western United States, Agropyron divergens, indicating agricultural value.—Woodland bunch-grass, Eragrostis glonerata, a useful summer grass of moist grounds in the Gulf States.
bunching (bun'ching), n. In sugar-beet growing, same as blocking. grass, principally Hilaria mutica also several other

ing, same as blocking. bunch-oyster (bunch ois "ter), n. A wild oyster found growing in clusters. Same as coon-

bunch-word (bunch'werd), n. A word formed by 'bunching' several words together, that is, in technical phrase, by agglutination. Sir D. Wilson, Prehistoric Man, H. 136.

bund² (bunt), n. [G., $\langle binden = E, bind$. The noun answers in meaning to E. band1, bond1.] A league, society, or association: as, Sänger bund, a 'singing association'; a shooting bund.

The institution of revolver shooting is regarded likely to create much interest, as many members of the bunds favor this sort of work.

Forest and Stream, Jan 24, 1903, p. 78.

bunding (bun'ding), n. A staging or scaffold in a mine-level for carrying debris.

in a mine-level for carrying debris.

bundle, n.—Aberrant bundle, a collection of nerve fibers in the callosal gyrus.—Anterior marginal bundle, the anterior portion of the descending cerebellar tract in the spinal cord.—Bundle of Vicq d'Azyr, a collection of nerve-fibers around the anterior micleus of the optic thalamis.—Gratiolet's bundle, a band of nerve-fibers which pass from the optic thalamis to the optic center in the occipital lobe of the brain.—Ground bundle, one of two groups of nerve-fibers, anterior and lateral, forming part of the lateral tract of the spinal cord.—Lenhossek's bundle, the ascending root of the glossopharyngeal and pneumogastric nerves.—Meynert's bundle, a collection of nerve-fibers connecting the ganglion interpedunculare and ganglion habenulæ.

bundling-press (bun'dling-pres), n. A machine for compressing yarns or textile mate-

chine for compressing yarns or textile materials into packages for shipment.

bundling-wire (bun'dling-wir), n. Baling-wire; wire used for securing bundles or bales. bundobust (bun'dō-bust), n. [Also bandobast, Hind. Pers. band-a-bast, 'tying and binding.'] System; discipline; orderliness. Yule; Kipling. [Anglo-Indian.] bung³ (bung), a. and adv. [Also bong. Native

Dung (bung), a. and aar. [Also bong. Native Australian bong, die.] Dead.—To go bung. (a) To die: as, "suppose you go bung, then you go to heaven." [Australia.] (b) To fail: go to smash; collapse; become bankrupt: as, the bank has gone bung. [Eng. Slang.] bung-lathe (bung'lāru), n. A lathe specially

equipped for turning bungs for barrels.

bungy (bung'i), n. [Hind. bhangi.] An Anglo-Indian term peculiar to Bombay, denoting a servant of the low class of sweepers: equivalent to mehtur, a scavenger in Bengal.

bunjarree (bun-jā'rē), n. [Also bunjary, bin-jarree, binjarry, benjary (< Hind. banjārī, adj.), prop. bunjara, < Hind. banjārā, in Bombay ranjārā, a grain-merehant, grain-earrier, Skt. baūj, trade (see banyan) + -kāra, suffix of agent.] In India, a grain-merehant; a carrier of grain.

bunk, n. 3. The cross-beam on which the logs rest on a log-ear or truck. [U. S.]—4.

A log-ear or truck. [U. S.] bunk¹, r. II. trans. To place upon the bunks: as, to bunk a log.

bunk² (bungk), v. i. To make off; run away;

decamp. [Colloq.] bunk-chain (bungk'chān), n. Same as *togglechain.

bunker¹, n. 4. pl. The coal carried in bunkers for consumption on board ship. See coal-

bunker¹ (bung'ker), v. t. 1. Naut., to load (coal) into a steamer's bunkers for its own use as distinguished from loading it as cargo.

The export of coal from Natal in 1901 amounted to 204. 788 tons, of which 55,757 tons were exported from Durban by sea, 1,865 tons overland to Orange River and Transvaal colonies, and 241,166 tons were bunkered by vessels at Dur-ban. Sci. Amer., Jan. 17, 1903, p. 36.

2. In yolf, to place (a ball) in play in a difficult position, from which it must be played out; to strike (a ball) into a bunker: said also of the player whose ball is so placed.—To be bunkered (from the meaning in *yolf*), to be placed in a situation of difficulty, from which it is hard to extricate one's self. (Collog.)

In the long narrow lee-bound valleys which lead up from the Hindu Kush to the Pamirs, where one can only see, towering thousands of feet above, the lower knobs and

buttresses of gigantic spurs which intersect the glaciers of the mighty ranges on either hand—where the wind whistles down with the force of steam and the temperature of ice, we were once, to use a familiar term, fairly Geog. Jour. (R. G. S.), XIII, 474

bunker-coal (bun'kėr-köl), n. Coal carried in a steamer for its own use as distinguished from coal carried as cargo.

bunkering (bung'ker-ing), n. The act of stowing the bunkers with coal; the operation of filling the coal-bunkers.

bunk-hook (bungk'huk), n. The hook, attached to the end of the bunk on a loggingear, which may be raised to hold the logs in place or lowered to release them. bunk-load (bungk'fōd), n. A load of logs not

over one log deep, that is, one in which every log rests on the bunks.

bunk-spike (bungk'spik), n. One of the sharp spikes set upright in the bunks of a logging-sled to hold the logs in place.

Bunodes (bū·nō'dēz), n. [NL., ⟨ Gr. βουνώδης, ⟨ βουνός, a mound, hill, + είδος, form.] A genus of merostomatous crustaceans belonging to the family Hemiaspidæ of the order Synxiphosura. They have a semicircular cephalothorax, no eyes and no facial sutures, abdomen divided into six anterior broad segments, four posterior narrow segments, and an acuminate telson. The genus occurs in Upper Silurian rocks of the Baltic Sea.

bun-okra (bun'ō-krä), n. oun-okra (bun'ō-krā), n. [Said to be native in Bengal.] The name in India of two cosmopolitan malvaceous shrubs, Triumfetta rhomboidea and Urena lobata. See *aramina, *Cæ-sur-weed, Triumfetta, and Urena.

bunolophodont (bū-nō-lof'ō-dont), a. Having tuberculate teeth in which the tubercles are arranged more or less in the form of cross-

bunow (bu-nou'), n. [Also bunnow. Hind. banão, preparation, embellishment, decoration, (banana, paint, varnish, gild.] A mere fabrication; anything that is fictitious; a sham. [Anglo-Indian.]

Bunsen combustion-furnace, eudiometer, etc. See *combustion-furnace, *eudiometer, etc. Bunsen's and Roscoe's photometer. See

*photometer. bunt¹, r. II. trans. In base-ball, to block (the ball) with the bat, so that it goes to the ground and rolls only a short distance. bunt¹, n. 2. A blunt stone arrow-head with rounded edge in



Bunt.

place of a point.— Foul bunt, in base-ball, a hit which goes outside of the fair-lines or is hit nufairly.

ount2, r. i.—Bunt up! (naut.), an order given in furing sail to haul the bunt of the squaresail up on the yard by aid of the buntlines. bunt2

buntal (bún-täl'), n. [Philippine name.] A fiber prepared from the petieles, or leaf-stems, of the talipot or buri palm (Coryphu umbraculifera), from which hats of the finest quality are made in the Philippine Islands. See *buri and talipat.

 bunter² (bun'ter), a. and n. [Short for G. bunter-sandstein, 'variegated sandstone' (see bunting⁴).]
 I. a. In geol., noting the lowest division or group of strata in the Triassic sysdivision or group of strata in the Triassic system in Europe. The word has reference to the variegated colors of these strata. The lower division of the Bunter is a sandstone several hundred feet thick (also locally known as the Vosgexian, grès des Vosges, and grès bigarré), resting conformably on the uppermost layers of the Permian (Zechstein) and passing inscusibly into them. The middle and upper divisions, from 1,000 to 2,000 feet thick, are sandstones passing into dolomites and red and green marls, the upper beds being known in Germany as the 'Röth.' The Bunter is overlain by the Muschelkalk in the German Triassic Basin and by the Keuper in Great Britain. in the G Britain.

II. n. [cap.] The bunter-sandstein division. Bunte's azotometer. See *azotometer.

bunting⁶ (bun'ting), a. and n. [Related to bunting¹ as bunch¹ to bunch². Cf. bunting¹, n., 3.] I. a. Short and thick-set. [Prov. Eng.] II. n. A short and thick-set person. [Prov.

Eng.] bunting⁷ (bun'ting), n. [Prob. another use of bunting⁶, n.] The common shrimp, Crangon vulgaris. [Gr. Brit.]

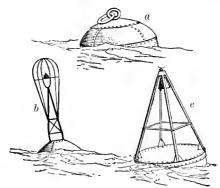
Buntline lizard. See *lizard. bunt-rush (bunt-rush'), n. In foot-ball, a rush made by all the attacking side at once.

bunyip (bun'yip), n. [Also bunyup; aboriginal Australian.] 1. A fabulous auimal supposed to inhabit water-holes and rivers. [Australia.]

Certain large fossil bones, found in various parts of Australia Felix, have been referred by the natives, when consulted on the subject by the colonists, to a huge animal of extraordinary appearance, called in some districts the Bunyup, in others the Kianpraty, which they assert to be still alive. It is described as of amphibious character, inhabiting deep rivers, and permanent water-holes, having a round head, an elongated neck, with a body and tail resembling an ox. having a roung meas, an every tail resembling an ox. W. Westyarth, Australia Felix, p. 391. Quoted in Austral [English.

2. An impostor. [Australia.]

buoy, n.—Automatic buoy, either a hell-buoy or a whistling-buoy, which is operated by the action of the waves.—Electric buoy, a buoy which carries an electric lamp.—Luminous buoy, a buoy provided with



a, spherical or swinging-buoy; b, electric or luminous buoy: ε, automatic bell-buoy.

either an electric or a gas lamp carried on a stand at the top.—Spherical buoy, a buoy in the shape of a globe.—Swinging-buoys, a number of mooring-buoys placed more or less in a circle as a convenience in swinging a ship around to different points of the compass when it is being adjusted or compensated for deviation.

it is being adjusted or compensated for deviation.

buoyancy, n.—Curve of buoyancy, in naval arch., a curve whose ordinates are the areas of the cross-sections up to the load water-line at each point in the length of a vessel. This curve represents the longitudinal distribution of the buoyancy of the ship, and its area the total buoyancy or displacement.—Reserve of buoyancy, in noval arch., the volume of a vessel above the water-line which can be considered as part of the water-tight hull. It is usually expressed as a percentage of the total volume of the vessel or total buoyancy, and is thus a measure of the additional weight which could be placed on the ship before she would sink beneath the surface. It is thus, to a certain extent, a measure of the seaworthiness of the vessel.—Total buoyancy, in naval arch., the total floating-power of the water-tight hull of a vessel (including its own weight) up to the point where it is about to sink beneath the surface of the water.

buoying (boi'ing), n. The act of sustaining or

buoying (boi'ing), n. The act of sustaining or keeping afloat; support.

Without some such buoying as M. Simon's he would be likely to let Caro and Chevalier sink altogether.

Athenæum, July 8, 1893, p. 62.

buoy-safe (boi'sāf), n. A large, floating metallic vessel divided into compartments for

protecting merchandise against water. buphthalmia (būf-thal'mi-ä), n. [NL., < Gr. *βουφθαλμος, οχ-eyed, < βοῦς, οχ, + ὀφθαλμός, eye.] Forward projection of the iris and cornea caused by an increase in the amount of vitreous

hnmor. See buphthalmos. buphthalmic (būf-thal'mik), a. Relating to or affected with buphthalmia. Lancet, July

or anected with output annual 11, 1903, p. 101.

buplever (bū-plev'ėr), n. [Appar. from a Sp. form of the NL. bupleurum.] Any plant of the umbelliferous genus Bupleurum. The most noticeable species is the hare's ear or thoroughwax, Bupleurum rotundifolium, naturalized luparts of the United States

burl, n. 14. An abnormal outgrowth of wood, frequently of large size, occurring on the trunk or branch of a tree, usually as the result of some injury. See $burl^1$, 2.

Turning now to outgrowths of a woody nature, the well-known burrs, or "knaurs," so common on elms and other trees are cases in point. They are due to some injury—e.g., bruising by a cartwheel, insects—having started a callus on which adventitious buds arise, or to the destruction of buds at an early stage.

Energy. Energy.** Energy.** Energy.** Energy.** Energy.** Energy.** Energy.** The start of the structure of the start of the structure of the start of the start

Encyc. Brit., XXXI. 577.

Bathurst bur, the spiny clot-bur or cockle-bur, Xanthium spinosum. See Xanthium.—Creeping bur, an ambrosiaceous weed, Gærtneria discolor, spreading by creeping rootstocks. It is found over the southern part of the Great Plains region.—French bur. Same as French burstone (which see, under burstone).—Paraguay bur, either of two composite weeds, Acanthospermum xanthioides, from Brazil (also called sheep-bur), and A. humile, from the West Indies, both introduced into the southern United States. Their bur-like fruits are damaging to wool.—Sheep-bur. See Paraguay *bur.—Spanish bur, a malvaceous plant, Urena lobata, with a bristly

fruit. It has become a weed in Florida and Alabama. See *Urena* and **Cæsar-weed.—**Tasmanian bur**, a name applied to several species of **Acæna* or their fruits. See **biddy-bid* and **sheep-pest*, 2.

bur¹ (ber), v. t.; pret. and pp. burred, ppr. burring, [bur¹, v.] 1. To extract (burs and other extraneous matter) from (wool) by chemical or mechanical means.—2. To use a dental bur in the excavation of (a tooth-cavity)

bur⁴ (ber), n. [Also burr; \langle Hind. bar.] The

native Indian name for the banian-tree. buranhem (bö-rän-yem'), n. [Native name.] A name applied in Brazil to a large tree of the family Sapataceæ, Pradosia lactoscens, thick, sweet bark of which is used in medicine under the name of monesia bark. The tree yields a very hard wood, used in ship-building, and from the roasted seeds a beverage like coffee is prepared. Also called guranhem and casca-doce. See manesia.

burbung (ber'bung), n. The ceremony of ad-

mitting a young man to the privileges of man-hood. Also burbong. [New South Wales.]

Some Australian tribes have typical and elaborate initiative eeremonies, called *Burbing* or *Bora*, for their adolescents.

G. S. Hall, Adolescence, II. 240.

bur-chisel (ber'ehiz"el), n. A three-edged chisel used to clear out the corners of mortises

bur-clover (ber'klo "ver), n. Either of two species of medic, Medicago Arabica and M. denticulata, so called from their prickly spiral seed-eases. Both are valuable forage-plants, the former extensively introduced in the eastern United States, the latter in California, where it furnishes an important late-summer feed. Since the burs become entangled in wool, the smooth bur-clover, more properly snail-clover, M. rugosa, is preferred for sheep-ranges.

bur-cucumber (ber'kū"kum-ber), n. See *cucumber

burdekin-vine (bur'de-kin-vin), n. A name applied in Australia to a grapevine, Vitis opaca, bearing large edible tubers and pungent ber-

Burdiehouse group. See *group. Burdigalian stage. See *stage. See *group1.

Burdiehouse group. See *stage.

Burdigalian stage. See *stage.

bureau, n.—Bureau of Accounts, a division of the United States Department of State, charged with department appropriations and property, and with indemnity funds and bonds.—Bureau of Animal Industry, a division of the United States Department of Agriculture, charged with investigation of matters relating to the raising of live stock, with inspection of live stock, and with the collection and dissemination of information of value to this industry and allied industries.—Bureau of Appointments, a division of the United States Department of State, charged with appointments to office, with commissions, etc., and with the care of the great seal.—Bureau of Chemistry, a division of the United States Department of Agriculture, charged with investigation of food-products and fertilizers.—Bureau of Construction and Repair, a division of the United States Department of Comparations, a division of the United States Department of commerce and Labor, charged with the investigation of corporations and joint-stock companies, and with the publication of information relating to them.—Bureau of Equipment, a division of the United States Navy Department, charged with the equipment of vessels and with the eare of the Naval Observatory, the Nautical Almanac, the Hydrographic Office, etc.—Bureau of Fisheries. Same as United States Commission of Fish and Fisheries. See commission.—Bureau of Foreign Commerce, a division of the United States Department of State, charged with the publication of consular and other foreign trade reports.—Bureau of Forestry, a division of the United States Department of Commerce and Labor, charged with de execution of the lanter relating to forestry. Officially known as the Forest Service.—Bureau of Immigration, a division of the United States Department of Commerce and Labor, charged with the execution of the lanter relating to forestry. Officially known as the Forest Service.—Bureau of Immigration, a division of the United States Department of division of the United States Department of State, charged with the care of the department correspondence and with the archives.—Bureau of Insular Affairs, a division of the United States War Department, charged with matters relating to the civil government of the Philippine Islands, and with certain records of various insular affairs.—Bureau of Intelligence, Same as intelligence department (which see, under intelligence).—Bureau of Labor, a division of the United States Department of Commerce and Labor, charged with the investigation of matters pertaining to labor, and with the publication of bulletins and other information relating to labor.—Bureau of Medicine and Surgery, a division of the United States Navy Department, charged with laboratories, hospitals, dispensaries, and medical supplies.—Bureau of Navigation. (a) A division of the United States Navy Department, charged with fleet orders, enlistment and discharge, various branches of naval education, and various codes, records, etc. (b) A division of the United States Department of Commerce and Labor, charged with a general superintendence of many matters connected with the merchant marine.—Bureau of Plant Industry, a branch of the United States Department of Agriculture, devoted to the investigation of plants in their economic aspects. Its subjects include plant diseases, plant-breeding, fiber, forage, and stock-polsoning plants, fruit-growing, etc. It introduces foreign seeds and plants, operates experiment-grounds, conducts seed-tests, and manages the congressional seed-distribution.—Bnreau of laws and with the care of treatles and various

other documents.—Bureau of Soils, a branch of the United States Department of Agriculture, charged with the investigation of soils in their relation to agriculture. other documents.—Bureau of Soils, a branch of the United States Department of Agriculture, charged with the investigation of soils in their relation to agriculture. Among its subjects are the physical and chemical properties of soils, the materials and methods of artificial fertilization, the reclamation of old lands, alkali problems, and the adaptations of particular soils, the study of the last involving a Soil Survey, in which are mapped the soils of particular agricultural regions.—Bureau of Standards, a division of the United States Department of Commerce and Labor, charged with the custody and investigation of the standards of weight and measure.—Bureau of Steam Engineering, a division of the United States Navy Department, charged with matters relating to the steam-machinery of vessels.—Bureau of Supplies and Accounts, a division of the United States Navy Department, eharged with matters relating to clothing, provisions, and other stores.—Bureau of the Census, a division of the United States Department of Commerce and Labor, charged with the taking of the census.—Bureau of Trade Relations, a division of the United States Department of State, charged with the transmission of such reports, and with the compilation of various Information with regard to trade.—Bureau of Vards and Docks, a division of the United States Navy Department, charged with the care of docks, wheres, navy-yards, and similar mattera.—Consular Bureau, a division of the United States Department of State, in charge of consular correspondence.—Credit Bureau, a division of the United States Department of State, in charge of consular correspondence.—Credit Bureau, a division of the United States Department of State, in charge of diplomatic correspondence.—Credit Bureau, a division of the United States Department of State, charged with the isauing of passports.

Department of State, charged with the issuing of passports bureau conferences, and is the custodian of their archives.—Passport Bureau, a division of passports. bureaucratism (bū-rō'kra-tizm), n. Government by bureaus; officialism: as, Russian burcaucratism.

bureaucratism.

burette, n.—Constant-volume burette, a burette connected directly with a mercury reservoir and with a barometer. By adjusting the reservoir the gas in the burette is made to occupy the volume indicated by some fiducial mark. The difference of level between the mercury in the burette and the top of the column of mercury in the barometer indicates the pressure exerted by the gas when occupying a known or definite volume. From this it is possible to calculate the volume of the gas at normal pressure.—Explosion burette, a form of burette used in gas analysis.

burga (bör'gä), n. [Appar. a dial. var. of Russ. purga: see purga.] A storm of wind and sleet in Alaska.

This storm is similar to the purga of Russia

storm of wind and sleet in Alaska. This storm is similar to the purga of Russia and Siberia in which fine snow or snow-sand is raised by the wind a few feet from the ground and whirled rapidly around. Not to be confounded with the blizzard of North America which is characterized by less snow, greater cold, and fiercer winds. Also spelled boorga.

burgator (ber-gā' tor), n. equiv. to burgulator: see burglar.] A burglar.

burgher, n. 3. In South Africa, a citizen of the former Transvaal Republic or of the Orange Free State.

The British troops under my command having entered the Orange Free State, I feel it my duty to make known to all Burghers the cause of our coming, . . . I therefore warn all Burghers to desist from further hostlity.

Lord Roberts, Proclamation to the Burghers, etc.

bur-head (ber'hed), n. A plant of the alismaceous genus Echinodorus. The fruits form

maceous genus Echinodorus. The fruits form small, bur-like heads.
burhel, n. Same as *bharat.
buri (bö-rē'), n. [Philippine name.] The talipot palm, Corypha umbraculifera, of great economic importance. The blades of the large fanshaped leaves yield a material for mats, sacks, and thatch; the vascular fiber of their petioles, called buntat, is the material from which the celebrated buntal hats are braided; the sap, collected by cutting off the immature inflorescence, yields a cider-like drink, molasses, sugar, vinegar, and a distilled liquor called vino; the small edible fruit is made into preserves; and the starchy pith of the trunk yields a kind of sago called yoro. It is from this palm that the island of Burias in the Philippine archipelago takes its name. See talipot. [Philippine 1s.]
Burial society. See *society.
burial-aisle (ber'i-al-il'), n. An aisle, in a

burial-aisle (ber'i-al-īl"), n. An aisle, in a church or other religious building, under which bodies are buried.

To send his body and his heart to be buried in Avenal burial aisle, in the monastery of Saint Mary's.

Scott, The Abbot, xxxvil.

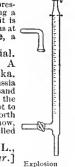
burial-hill (ber'i-al-hil), n. Same as burialmound.

burial-robe (ber'i-al-rob), n. A dress or robe

for the dead; a shroud.

burial-vault (ber'i-al-valt), n. A vault in which the dead are buried.

burk, v. t. A simplified spelling of burke burking, n. 2. Killing by suffocation; figuratively, a private suppression of a proposition, bill, or the like.—3. Specifically, in med., suffocation due to tonic spasm of the muscles of respiration.



If we had diaphragm spasm alone, the symptoms then would rather reaemble burking.

Buck, Med. Handbook, I. 588.

burkism (berk'izm), n. [Burke (see burke, v.) + -ism.] The practices of Burke, the murderer (see burke, v.); that is, murder of kidnapped victims by smothering.

burkundaz (ber'kun-däz), n. [Hind. (\lambda Ar.) Pers. barkandāz, lit. 'lightning-darter.']

An armed retainer, policeman, or other unmounted armed employee of a civil department in India. Also spelled burkendoss. [Anglo-Indian.]

burley² (ber'li), n. [Prob. from a proper name Burley.] A well-known American variety of tobacco, baving two subvarieties, red and white.

Burlington group. See *group1. burly-boned (ber li-bond), a. Having large, massive bones; of massive build; stout: as,

burly-honed soldiers. Nashe.
burly-headed (ber'li-hed'ed), a. Massi
headed; of great or commanding intellect. Massive-

Destiny has work for that awart burly-headed Mirabean. Carlyle, French Rev., 1. iv. 4.

Burmannia (ber-man'i-ä), n. [NL. (Linnæus, proposed 1737, established 1753), named in

honor of Johannes Burman (1706-79), profes-sor of botany at Amsterdam.] A ge-nus of monocotyledonous plants, type of the family Burmanniaceæ. They are annual, erect herbs with ensiform basal siform basal leaves, or with these some-times wanting, and scape-like stems, the cauline leaves beline leaves be-ing reduced to bracts or scales. There are about 20 species, natives of the warmer parts of the world. Two apecies, B. bifora and B. capitata, occur in the United States from Virginia southward to Florida and Lonisiana

Burmanniaceæ (ber-man-i-ā'sē-

man - i - a 'Sē - A. Burmannia longifolia, in flower: a. 6), n. pl. [NL. an anther, enlarged; b. a seed, enlarged; B. Burmannia Inberosa, an entire plant. (Blume, 1827), (Burmannia + -aeeæ.] of monocotyledonous plants of the order Orchidales, typified by the genus Burmannia, and characterized by flowers with a double 3-merous perianth, 6 stamens, 3 styles, and cansular many cooled fraises.

capsular many-seeded fruits. There are 13 genera and about 60 species, natives of the tropics of both hemispheres, with a few in temperate Australasia. They are herbs growing from rhizomes or tubers, sometimes saprophytic and destitute of chlorophyl, and with flowers in racemes, often nodding or pendulous.

burmanniaceous (ber-man-i-ā'shius), a. Belonging to the plant family Burmanniaceæ.

Burmese gold, ringworm. See *gold, *Tinea

imbricata,
burmite (ber'mit), n. [Burma + -ite².] A
variety of amber, often of a light-sherry color,
pale red and yellow, found in Burma, occasionally in masses of ten pounds or more.

Many Chinese art-objects are made of it.
burn¹, v. I. trans. 9. To vulcanize (indiarubber) by mixing it with aulphur or metallic sulphids and heating to a properly determined temperature. Sadtler, Handbook of Indust. Chem., p. 106.—10. To alter by means of heat, as a gem. Thus yellow topaz may be burned to pink, smoky quartz to brown and yellow (socalled Spanish topaz), chalcedony to carnelian, yellow or bluish zircon to the colorless variety, yenow or brush zircon to the coloriess variety, etc.—11. To injure (plants) as if by acorching: axid of the action of strong fertilizers.—To be burned out, to have one's house or shop gutted by fire.—To burn a hole in one's pocket, said of money when the owner is eager to spend it.—To burn away, to remove by burning.—To burn on, in foundry-work, to

add a fresh part to an injured or incomplete casting by running a stream of molten iron through the mold of the new part. The molten metal fuses the surface on which it is to be joined and produces perfect union between the two.— To burn one's boats or bridges, to cut off all chances of retreat (usually in order to prevent one's self from considering that policy in case of adverse conditions).

II. intrans. 10. To become acidified as the offect of an excess of grown berhaves which has

effect of an excess of green herbage which has been plowed under: said of a soil.

burn¹, n. 5. In the tobacco trade: (a) The quality of leaf considered with reference to the completeness or incompleteness of its reduction to ash in being smoked. Yearbook 1. S. Dept. Agr., 1901, p. 165. (b) A damage sometimes suffered by tobacco in the process of curing (drying), due to excessive moisture in the air. Specifically termed house-burn when it takes place indoors, and pole-burn when the leaves are dried hanging on poles. burn-baiting (bern'bā-ting), n. Same as burn-beating. See burn-beating and *burn-beat.

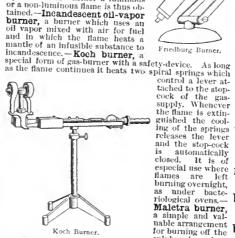
The paring of land is a practice of long standing in thia island, particularly in the west of England, where it is also denominated (in conjunction with burning) den-shiring, burn-baiting, or sod-burning.

W. Fream, The Complete Grazier, p. S61.

burn-bakingt (bern'ba-king), n. Same as

burn-beat (bern'bet), v. i. To perform the operation of burn-beating, or paring and burning (see under paring). See also *burn-baiting.

(see under paring). See also *burn-bailing.
burned, a.—Burned coating, a technical term applied, in a figurative sense, by electroplaters to a metallic deposit of unsatisfactory appearance and character.
burner, n. 3. A device for heating a painted surface so that the paint can be removed. It has a lamp to which a blowpipe is attached, by which the flame from naphtha is driven with great force against the paint, softening it so that it can be scraped off.—Albo-carbon burner. See *abbo-carbon.—Asbestos burner. See *abbotos.—Auer burner, same as Il elsbach *burner.—Clamond burner, an inverted airand-gas burner as arranged that a conical basket made of twisted threads of calcined magnesia, supported by platinum wire, is heated to incandescence.—Friedburg burner, a form of gas-burner in which the air to be mixed with the gas is admitted at the top and ia preheated. The regulation of air is effected by sliding the outer tube up and down. Either a luminous or a non-luminous flame is thus obtained.—Incandescent oil-vapor burner, a burner which uses an oil vapor mixed with air for fuel



Maletra burner, a simple and valuable arrangement for burning off the anible arrangement for burning off the anible arrangement for burning off the anible arrangement for burning off the superposed shelves of fire-clay, and the combustion started by flame from ordinary fuel, the hot gases are led from one shelf to another over the material, the burning of the sulphur producing heat enough to keep the process going.—Mantle burner, a gas-humer in which a non-luminous flame impingea on a mantle, making it incandescent. See Welsbach *burner.—Naphtha burner, a burner so arranged as to vaporize or atomize the naphtha and then burn it with an admixture of sir.—Petroleum burner, any burner which atomizes and vaporizes petroleum and, mixing the finely divided particles with air, hums the oil as a vapor.—Ratchet-wheel burner, a burner the valve of which is operated by a ratchet and pawl.—Recuperative burner, a burner in which the gas or the air or both are preheated before reaching the point of inflammation.—Scott-Snell burner, a self-intensifying mantle burner in which heated air is fed to the burner under pressure. The air is compressed by the aid of a displacer attached to a diaphragm, which forms a small caloric engine operated by the waste heat of the gas flame.—Self-intensifying burner, a form of mantle burner provided with a draft-chimney which forces all of the gas and all the air introduced at the base of the burner to pasa through the mantle.—Stemens burner, a form of fregenerative burner, an Argand gas-burner of standard form sometimes used in the plotometry of Illumination of large apaces, the large sizes (100-200 candle-power) being the most efficient. The light is diffused downward.—Sugg burner, an Argand gas-burner of standard form sometimes used in the photometry of Illuminating gaa.—Suvio burner, the trade name of a gas-heater. It is a Bunsen burner having a small drum attached to radiate the heat

welsbach burner, a burner for illuminating gas devised by Auer von Welsbach. It consists essentially of a Bunsen burner about the non-luminous flame of which a mante of cotton gauze impregnated with certain metallic oxids (chiefly thorium oxid) is placed. When first ignited the cotton burns away and leaves a skeleton of the oxids, which becomes incandescent and emits a brilliant light.

burner-dome (ber'ner-dom"), n. A metallic dome-shaped plate used in connection with an Argand lamp to deflect the ascending current of air, throwing it on the flame, and thus increasing the temperature, and hence the brightness of the light.

burner-gas (ber'ner-gas), n. In the manufac-

from the kiln or burner in which sulphur as such, or the sulphur of iron pyrites, is converted into sulphur dioxid by union with atmospheric oxygen. This mixture consists mainly of sulphur dioxid, surplus oxygen, and the whole of the nitrogen of the air used. G_{\circ}

Lunge, Sulphurie Acid, I. 579.
burnet², n.—Native burnet (of Australia), the sheeppest or hiddy-hid, Aciena ovina. See sheep-pest, 2, and *biddy-hid.

Burnetan (ber-net'an), n. [Burnet, a town and county in Texas.] The lewest subdivision of the Precambrian series of Texas. As used by T. W. Comstock, probably equivalent to Laurentian of eastern Canada.

burnet-rose, n. See rose1, I, 1 (2), and cant-

burnettism (ber-net'izm), n. The impregnation of wood with Burnett's liquid as a preservative. N. and Q., Sept. 10, 1892.

burning, n. 4. Oxidation of iron by keeping it too long at a welding heat. Burnt iron is practically worthless, although it is sometimes used after repeated reheatings and hammerings, which partially remedy the damage.

burning-oil (ber'ning-oil), n. A trade-name for all liquid products distilled from petroleum which are used for illuminating purposes.

burning-point (ber'ning-point), n. The temperature at which the vapor from the free surface of an illuminating-oil contained in an open vessel, when ignited by contact with a flame, will continue to burn: distinguished from the flashing-point which is the temperature at which the first momentary ignition becomes possible.

Burn-nose tree. Same as bonace-tree. burn-out (bern'out), n. The melting of a wire or other electric conductor by an electric cur-

rent of too great quantity.—Burn-out fuse, alloy, in electric viring, a fuse or alloy which melts readily at a comparatively low temperature when placed in circuit. The melting of the fuse forms an are across the space for an instant, and the current is cut out from the main line before other harm is done.

burnsides (bern'sidz), n. pl. A style of beard such as that affected by General Burnside (1824-81), consisting of a mustache, whiskers, and a clean-shaven chin.

Burnt amethyst, brass, card, coal. See *amethyst, *brass1, etc.—Burnt logwood. Same as over-ayed logwood. See *cover-ayed and *aying, 4.

burnt-stuff (bernt'stuf), n. A miners' term for the oxidized surficial facies of certain ore-

deposits. [Australia.]
burnut (ber'nut), n. [Appar. from burl + nut, in an allusion reflected also in its other name, ealtrop.] A plant of the genus Tribulus (which see).

Burow's veins, See *reins of Burow.
burra-khana (bu-rä-kä'nä), n. [Hind. barā khāna, 'big dinner.'] A 'big spread': an entertainment or feast; a banquet. [Anglo-ln-dian.] burring-saw (ber'ing-sâ), n. A thin circular plate with a serrated edge, used in a burring-

machine. burring-wheel (ber'ing-hwel), n. A drum

having teeth on the outside, used in burring wool.

burrito (bö-rē'tō), n. [Sp., so called from its grunting noise; dim. of burro, a donkey.] A species of grunt, Pomadasis branicki, of the family Hæmulidæ, found on the sandy shores of the Pacific coast of America and reaching a length of 7 inches. The name is also applied to other related species, as Brachydeuterus leueiscus, also of the family Hæmulidæ.

burro², n.-2. A name of species of grunts of the family Hæmulidæ, as Pomadasis macracanthus of the Pacific coast of tropical America. -Burro blanco, a species of grunt, Brachydeuterus axillaris, of the family Hæmulidæ: found mily about Gnaymas and Mazatlan.

and cement used in facing and dressing mill-

Stones.

Burrum formation. See *formation.

bursa, n. 2. [cap.] A genus of dicotyledonous plants of the family Brassicaceæ. See Capsella and shepherd's-purse.—Adventitious or artificial bursa, a bursa formed over a bony surface when the part is subjected to intermittent pressure.—Boyer's bursa, a bursa between the thyrohyoid membrane and the hyoid bone.—Bursa virilis, the scrotum.—Luschka's bursa, a sac in the mucous membrane of the posterior wall of the pharynx.—Rider's bursa, an adventitious bursa formed in the thigh from pressure of the saddle.

Bursal apertures. Same as *bursal fissures.—Bursal

the saddle.

Bursal apertures. Same as *bursal fissures.—Bursal fissures in the Ophiuroidea, or brittle-stars, slits bordering each margin of the arms and communicating with the bursa or ponches, which receive the generative products. These fissures are sometimes discontinuous and, in fossil species, are known to be reduced to rows of pores.—Bursal scales, in the Ophiuroidea, or brittle-stars, the scales or plates which bound the *bursal fissures (which see).—Bursal slits. Same as *bursal fissures.

Bursal slits. Same as *bursal fissures.

bursatti (bér-sat'i), n. Same as *bursautce. bursautee (ber-so'te), n. [Also bursatti, bursattee; < Hind. barsāti, adj. < bursāt, the rains.]

1. A disease of horses thought to be caused by a fungus. It is characterized by peculiar swellings under the skin which finally rupture and are converted into chronic ulcers.-2. A waterproof coat; a rain-coat. [Anglo-Indian.]

burseed (ber'sēd), n. A species of stickseed, Lappula Lappula, introduced into the United States from Europe.

burst, r. i. 4. In pin-pool billiards, to go beyond a score of 31; in ball-pool, to smash at

the pyramid.

burster, n. 2. In mining, a blast-hole bored in solid coal not previously made ready for blasting by shearing or holing.

bur-thimble (ber'thim*bl), n. A dentists'

burweed, n.—Yellow burweed, an annual boragina-ceons weed, Amsinckia intermedia, troublesome in Cali-fornia grain-fields and vineyards. The burs are formed by the hispid calyces.

bus2 (bus), n. Short for *bus-bar. Same as ★bus-bar.

Same as *busaun. busain, n.

busaun (bö-zoun'), n. [G. *busaun, posaune, etc., trombone: see posaune.] In organbuilding, a soft reed stop, usually of 16-feet pitch.

bus-bar (bus'bär), n. [(omni-)bus + bar1.] A system of conductors, in an electric generating-station, on which the power of all the generators is collected for distribution into the system, or (in an electric receiving-station) on which the power from the generating-station is received for distribution to the apparation and state of the state ratus consuming it.

busenna (bö-sen'ä), n. Same as mesenna.

bush¹, v. t.—To bush a road, to mark the course of a logging-road across a marsh or the ice by setting up bushes. [U. S.]

bush², n. 3. In milling, a packing of wooden blocks placed in the eye of the bedstone and

forming the upper bearing of the spindle. bush³ (bush), v. t. 4. To dress a stone with a bush-hammer.

busha (bush'ä), n. [Negro? Appar. not native W. Ind.] The manager or overseer of an estate in Jamaica. [West Indies.] bush-beater (bush'be*ter), n. Same as bush-

whacker, 1.

Such was the legion of sturdy bush-beaters that poured ln at the grand gate of New Amsterdam.

Irving, Knickerbocker, vl. 5.

bush-boy (bush'boi), n. An Australian bush-

man bush-bred (bush'bred), a. Bred or reared in

the bush. [Australia.] bushbuck, n. 2. The harnessed antelope, Tragelaphus pietus; also, the rare T. bor.



Bushbuck (Tragelaphus bor)

bush-cattle (bush'kat"l), n. In Australia, eat-black-and-white coloration.
tle lost from a herd and running wild in the bushman, n. 3. A settler in the bush of bush.

Australia, as distinguished from one who bush-cattle (bush'kat"l), n. In Australia, cat-

the genus Lespedeza (which see). The bush-clovers are either erect, prostrate, or ascending plants, with numerous yellowish or purplish pea-like flowers. The only species of special economic value is the Japan elover

(which see, under Japan), bush-coral (bush'kor"al), n. A bushy gorgo-nian, Acanella normani, found in the North Atlantic.

bush-cow (bush'kou), n. Tho tapir. [British Guiaua.]

Of the quadrupeds found in these forests, the largest is the tapir, or maipuri, commonly called the bush-cow.

W. H. Brett, Indian Tribes of Guiana, p. 20.

bush-drive (bush'driv), n. A hunt or shooting expedition in which the game is driven from cover in the bush toward the sportsmen.

[South Africa.]

bush-pig (bush'pig), n. An African pig of the genus Potamoehærus, either P. africanus or P. porcus; a boschvark. Also bush-hog. [South Africa.]

At the bush-drives so common in the [Cape] Colony Blue-bnck are seldom turned out.

Proc. Zool. Soc. London, 1899, p. 831.

Blue-bnck are seldom turned out.

Proc. Zool. Soc. London, 1899, p. 831.

bush-rider (bush'rī"der), n. One employed in

Hence -2. Bewildered; at a loss; 'lost'; all at sea.

The poor youth, new to the wilds, had, in the expressive phrase of the colonials, got bushed, that is, utterly be-wildered, and thus lost all idea of the direction that he ought to pursue.

W. Howitt, Australia, I. 283.

busheling (bush'el-ing), n. In iron-working, the process of heating iron scrap and forming it into a solid block in a furnace. busheling-furnace (bush'el-ing-fer"nās),

A furnace used in working scrap-iron into a solid block. The scrap, consisting of turnings, chips, nails, etc., is heated to a welding heat, and gathered into a ball about as large as a bushel basket. While still hot and soft it is taken to a hammer and welded by hammering into a billet or is blown.

bush-faller (bush'fâl"er), n. A bushman who fells or cuts down timber in the bush. tralia.l

bush-fighter (bush'fi'ter), n. One who fires from the shelter of bushes; a bushwhacker. bush-fruit (bush'fröt), n. A term recently adopted in the United States from English usage to designate those cultivated fruits which are borne on bushes or shrubs, as the raspberry, blackberry, gooseberry, and currant. The term small-fruit comprises the same and also the strawberry.

bushhammer (bush'ham'er), v. t. To break or dress (stones) by means of a bush-hammer. bush-harrow(bush'har-ō), v. t. Totreat with a

bush-harrow.

Bush-harrow after sowing.
W. Fream, The Complete Grazier, p. 826.

plant of the genus Diervilla. See honeysuekle, 2. -2. Any species of true honeysuckle with a bushy habit, including, therefore, the fly-honeysuckles; particularly, Lonicera Tatarica, the Tatarian bush-honeysuckle, an ornamental species native in southeast Russia and Siberia. bush-horse (bush'hôrs), n. A horse which is lost and running wild in the bush. [Australia.] bushido (bö'shi-dō"), n. [Chino-Jap., \(bu\) (Chin. \(wu\)), military, warrior, \(+ shi\), officer, \(+ do\) (Chin. \(tao\)), way.] The code of moral principles which the knights and warriors of feudal Japan were required to put into practice in all circumstances and relations of life; knightly spirit and conduct shively; continually spirit and conduct shively spirit and conduct shively spirit and conduct shively spirit and conduct shively spirit shively sp spirit and conduct; chivalry; gentlemanly po-liteness and honor; integrity, devotion, and duty to one's superiors, and unswerving loyalty to the mikado.

alty to the mirauo.

Bu-shi-do means literally 'Military-knight-ways'—the ways which fighting nobles should observe in their daily life as well as in their vocation; in a word, the 'precepts of knighthood,' the noblesse oblige of the warrior class.

Nitobe, Bushido, p. 7.

bushloper (bush'lō"per), n. [New York D. *bosch-looper ?: see bush1, lope1, and loper. Cf. interloper.] One who tramps through the bush or wilderness; a peddler: as, "a romantic young bushloper" (of the earlier period of the Dutch occupation of New York). E. Eggleston, Duffels, Preface.

bush-magpie (bush'mag'pi), n. A name of the Australian piping-crows, or crow-shrikes, belonging to the genus Gymnorhina, from their

bur-rubber (ber'rub*er), n. A block of emery bush-clover (bush'klō-ver), n. Any species of and cement used in facing and dressing mill-the genus Lespedeza (which see). The bush-is acquainted with the bush and its ways.

is acquainted with the bush and its ways.

bushmanite (bush'man-it), n. [Also bosjesmanite and bosehjesmanite. Bushman (D. Bosjesman) + -ite².] A native alum, in composition intermediate between pickeringite and aniohnite.

bushmanship (bush'man-ship), n. Knowledge and experience of the bush and its ways; skill in the methods and practical work of the bushman.

bush-pea (bùsh'pē), n. A plant of the leguminous genus Thermopsis; false *lupine (which see). The Montana bush-pea, T. Montana, a tall herb with a cluster of erect stems, is regarded as possessing some value as forage.

bush-ranging (bush'ran"jing), n. The lawless

riding over a bush farm, or station, rounding up the cattle, inspecting the fences, etc.

[Australia.]
bush-rope (bush'rop), n. A name given to various species of woody vines (bejuco, etc.), the stems of which (lianas) are used as a substitute for ropes, and in the place of nails for securing to one another the timbers of a house. [West Indies and British Guiana.]

bush-scrubber (bush'skrub"er), n. A bumpkin; a boor; a slattern: as, she's a lady! she's no bush-scrubber. See scrubber1. [Bushman's Eng., Australia.]

bush-scythe (bush'sīth), n. A scythe having a short, wide, and strong blade for cutting A scythe having brush and briers.

The primitive reaping knife or hemp cutter, which is something between a corn-cutter and a bush-scythe.

Yearbook U. S. Dept. Agr., 1901, p. 547.

bush-tamarind (bush'tam"a-rind), n. A tall tree of Guiana, Machærium Schomburgkii, which yields a valuable wood. See itaka-wood and Machærium.

bush-telegraph (bush'tel"ē-graf), n. A confederate of the bush-rangers of Australia, who keeps them informed with regard to the

movements of the police, etc. [Australia.] bush-turkey (bush'ter"ki), n. A name in Guiana of the larger curassows.

bush-warbler (bush' war"bler), n. 1. See warbler.—2. Any species of Gerygone, a genus of small birds generally placed with the flycatchers. They are inhabitants of the Australian region.

bush-water (bush'wa"ter), n. Rain-water which collects in low places in forests. [West

cidea novæ-zealandiæ.

bush-hog (bush'hog), n. 1. Same as *bush-pig. Indies.]

-2. A name given in British Guiana to the bushwhack (bush'hwak), v. i. 1. To act in the manner of a bushwhacker: (a) sojourn in the manner of a bushwhacker: (b) engage in guerrilla warfare and fire from behind the bushes. —2. To cut bushes with a bushwhaeker.—3. To hunt ducks by approaching them in a boat which has a screen around it to conceal the occupants. Forest and Stream, Feb. 21, 1903. bushwoman (būsh'wūm'an), n.; pl. bushwomen (-wim'en). A woman living in the bush and playing her part in the settlement and development of the country. bushwood (būsh'wūd), n. See ★woodland. bush-wren (būsh'ren), n. A small passerine bird, Xenieus longipes, of New Zealand: so called from its general resemblance to the wren of England. -2. To cut bushes with a bushwhacker. - 3.

wren of England.

bushy2 (bush'i), n. [bush + dim. -y2.] A counbusiness-wagon (biz'nes-wag'on), n. A wagon, with or without an inclosed top, used

wagon, with or without an inclosed top, used for carrying merchandise.

busk³, v. i. 3. To cruise as a pirate.—4. To earn a livelihood by going about singing, playing, and selling ballads, or as an aerobat, juggler, etc., in public houses, steamboats, on the street, etc. [Slang, Eng.]

busker (busk'er), n. [busk³ + -er¹.] A strolling singer, player, ballad-seller, or the like. See

singer, player, ballad-seller, or the like. See *busk3, 4.

The words and tune of which I remember hearing from the lips of a busker at Margate.

Referee, June 29, 1884. [Encyc. Dict.]

busking (busk'ing), n. [busk3 + -ing1.] The practice of going about as an itinerant singer, player, juggler, ballad-seller, or the like, in pursuit of a livelihood. Mayhew, London Labour, I. 215. [Slang, Eng.]

Bussira rubber. See *rubber. bust¹, r. t. 2. To break to the saddle, as an intractable broneo. [Slang, western U. S.]

It is upon the cowboys that the task falls of breaking to the saddle, or busting, the almost untractable "bronchos" that are raised both for this purpose and for the open market.

Wide World Mag., April, 1903, p. 545.

bustamite (bös'ta-mīt), n. [Named after its discoverer, Bustamante.] A variety of the manganese silicate, rhodonite, peculiar in containing caleium.

bustard-quail (bus'tärd-kwāl), n. Any of the small, three-toed quails or hemipods of the family Turnicidæ, found in the Old World; in particular, the East Indian Turnix taigoor.

buster, n. 5. In Australia, a sudden violent squall from the south.

The cold wind or southerly buster which . . . carries a thick cloud of dust . . . across the city.

F. Fowler, in Athenœum, Feb. 21, 1863, p. 264.

One who breaks intractable horses to the saddle; a broneo-buster. [Slang, U.S.]

Naturally, on a large ranch which employs many cowboys, there is much rivalry among them as to who is the best rider, or buster.

Wide World Mag., April, 1903, p. 545.

bustite (bus'tīt), n. [Bustu, in India, + -ite2.] See *meteorite.

busy, a. 8. In decoration, full of detail; overcrowded; fussy. [Trade cant.]

The decoration, in dealer's language, being too busy for Burlington Mag., 111., p. 86. broad effects.

busybodied (biz'i-bod'id), a. Of the nature of a busybody; meddlesome. N. E. D.

butalanine (bū-tal'a-nin), n. [Gr. βοῦς, ox, + -t-+-al + -ine².] Alpha-aminoisovaleric acid, (CH₃)₂CHCHNH₂CO₂H: found in the pancreas of the ox.

butane (bū'tān), n. [L. but(yrum), butter, -ane.] In chem., the fourth member of the paraffin series of hydrocarbons, C₄H₁₀. Two isomeric forms are known, normal butane and isobutane; both are forms are known, normal butane and isobutane; both are at ordinary temperature and pressure gaseous, colorless, almost odorless, very slightly soluble in water, and readily combustible. Normal butane occurs in small quantity in American petroleum, and has been to a limited extent condensed from the most volatile portion, by means of a freezing mixture, as a colorless, very light iiquid boiling at 1°C. (or about 34°F.), forming almost the whole of the commercial product chymogene.

butcha (bu'chā), a. [Hind. bachā.] A young one: a boy, babe, bairn, urchin, chit, chieken, sapling, etc. [Anglo-Indian.]

butcher. n. 5. Along drink of beer. Austral

butcher, n. 5. Along drink of beer. Austral English. [Slang, South Australia.] butcher-bird, n. 2. In Australia, a name of

birds of the genns Cracticus. Gould, Birds of

butene (bū'tēn), n. [L. but(yrum), butter, + -ene.) The official name of the hydrocarbon ene.) The official name of the hydrocal C₂H₈. It exists in three isomeric forms. Also C4H8. It exists called butylene.

butenyl (bū'te-nil), n. [L. but(yrum), butter, +
-en(e) + -yl.] The radical C₄H₇: as in butenyl
glycerol, C₄H₇(OH)₃.
butic (bū'tik), a. [L. but(yrum), butter, +-ic.]
Derived from butine.—Butic acid. Same as *tetrolic acid.

butine (bū'tin), n. [G. butin, < L. but(yrum), butter, + -ine².] The official name of the hydrocarbou C₄H₆. Four isomeric forms are possible, and at least three of these are known. Butomaceæ (bū-tō-mā'sē-ē), n. pl. [NL. (S. F. Gray, 1821), (Butomus + -aceæ.] A family of monocotyledonous plants of the order Naiadales, typified by the genus Butomus, and characterized by regular, hermaphrodite, 3-merous flowers, usually with a larger number of stamens and earpels and many seeds. They are swamp or aquatic herbs with linear leaves or with a broad blade having a lattice-like nervation. There are 4 genera, 3 of which are monotypic, and 6 species, widely distributed.

Butomaceous (bū-tō-mā'shius), a. [\langle Butomacee + -ous.] Belonging to the plant family Butomaceæ.

Butomus (bū'tō-mus), n. [NL. (Linnæus, 1753, adopted from Tournefort, 1700), ζ Gr. βοίτομος, some aquatic plant, probably the flowering rush.] A genus of plants, type of the family Butomaceæ. B. umbellatus, the only species, is a hardy perennial aquatic, easily grown on the margins of ponds. It is known as flowering rush. See rush!.

butt², n., 1. (e) In archery, the end of an arrow which is held against the bowstring in

shooting: opposed to point.—14. A shelter or concealment, built of blocks of peat or turf, for the gunner in grouse-driving on English and Scotch moors. Also called a battery.

Where possible, the butts should always be placed in a hollow of the ground; this not only helps to conceal them

from the birds, but also produces higher and prettier shots. . . . He [the sportsman] should not crouch in his butt nor seek to conceal himself by stooping, but remain perfectly motionless, until the moment when he throws his gun up to his shoulder to fire.

Encyc. Brit., XXXII. 604.

15. In the tobacco trade, a box I2 inches square, holding from 15 to 50 pounds. Stand. Dict.—16. pl. The ends or 'cuttings' of jute rejected by the manufacturer of cloth or bagging. They are used in making coarse kinds of gnig. They are used in making coarse kinds of paper. Sadtler, Handbook of Indust. Chem. p. 282.—Butt eut. (a) The first log cut above the stump. (b) In gathering tan-bark, the section of bark taken from the butt of a tree before felling it for further peeling.—Shift of butts, in ship-building, an arrangement of any extensive surface of plating or planking by which the various butts between plates or planks are distributed over the surface in a regular manner to give the greatest possible strength to the plating as a whole. In iron ship-building, for outside plating, the rule is that butts in adpossible strength to the plating as a whole. In iron ship-building, for outside plating, the rule is that butts in ad-jacent strakes of plating must not be less than two frame-spaces apart and that there must be at least two solid passing-strakes between butts over each other in the same frame-space.

butt2, v. I. trans. 3. To challenge to a trial of skill in wood-eutting.

I had an uncle . . . who was a famous chopper . . . When he was past seventy, he had a man working for him who thought himself pretty smart, and my uncle offered to but him.

E. Ingersoll, Country Cousins, i.

II. intrans. 2. In lumbering, to undertake, as a trial of skill, to cut off the butt-end of a prostrate log while an opponent is cutting through the smaller end.

butt-box (but'boks), n. The bearing or box at the cross-head end of a connecting-rod. butted (but'ed), a. Furnished with a butt (of some specified kind): as, butted with ivory. Used chiefly in combination: as, brass-butted.

Used ehiefly in combination: as, brass-butted. butter, n.—Bambara, bambul, or hambuk butter. Same as shea-butter.—Blue butter. Same as mercurial ointment (which see, under ointment).—Butter bacilius. See *bacillus.—Butter substitute or surrogate. Same as oleomargarin.—Cay-cay butter, the fat obtained from the seeds of Irringia Malayana of Malacca and I. Oliveri of Cochin China. It is used in the manufacture of soaps and candles.—Dika butter, the fat obtained from the roasted seeds of Irringia Gabonensis, used as food by the natives of tropical West Africa, and in Europe for the manufacture of soaps and pomades. See dika-bread and Irringia.—Diseased butter, in dairying, a general though not strictly correct term applied to several kinds of altered, contaminated, infected, or fermented butter, the so-called diseased condition originating in milk or appearing first in the butter itself as dairying, a general though not strictly correct term sp, plied to several kinds of altered, contaminated, infected, or fermented butter, the so-cailed diseased condition originating in milk or appearing first in the butter itself as a fernnented narising from some bacterial forms added accidentally to the butter through want of cleanliness in its manufacture or care. The following are recognized varieties of contaminated butter: Bitter butter, a fermented condition that appears in butter made from bitter milk or fernnented milk having a bitter taste. Blue butter, butter made from the infected milk called blue milk (which see). Dappled butter, butter marked by grayish spots originating from the contamination of the milk in the barn. The hacteria causing the abnormal condition of the butter can be removed by heat. It is sometimes called mottled butter or mottles. Moldy butter, butter infected by mold-lungi. Off-flavor butter, dutter, butter infected by mold-lungi. Off-flavor butter, marked by a disagreeable bitter taste suggestive of a raw turnip. It has been commonly supposed to be caused by turnips fed to the cow, but is now known to be of bacterial origin. Rotter-laste butter, a fermentation in butter caused, according to Jensen, by the presence of Bactilus fotidus lactis. Dutter butter. Same as ofeomargarin. Thorpe, Dict. Applied Chem., 1. 702. [Colloq.]—Goa butter. Same as coeum-butter.—Hilpé butter. Same as shea-butter.—Kafir butter, a solid fat obtained from the seeds of Combretum butyrosum by the natives of southeastern affica.—Lard butter, artificial or imitation butter the basis of which has been obtained from lard; butterin.—

Laurel butter, Same as bay-oil.—Mineral butter, in early chem., a same given to certain soft

simple and easy eatch; to muff. [Slang.] butter-bush (but'er-bush), n. The name in Australia of a small tree, Pittosporum phyllinæ-

oides, bearing bitter, non-poisonous berries, which were pounded into flour by the aborigines for use as food. It yields a very hard, close-grained, light-colored wood, useful for turnery. The leaves furnish an excellent fodder, and cattle are so fond of it that the trees are in danger of extinction. butter-carrier (but'er-kar"i-er), n. A refrig-

erator-box or -case for transporting print-but-

ter in ice without bringing the ice into contact with it.

butter-cloth (but'ér-klôth), n. A thin, loosely woven cloth, like cheese-cloth, but with a slightly tiuer mesh.

Butter- or cheese-cloth is almost universally used at present for a wound dressing. Buck, Med. Handbook, I. 568.

ent for a wound dressing. Buck, Med. Handbook, I. 568.

butter-cross (but'ér-krôs), v. A market-cross near which butter is sold. [Eng.] N. E. D.

buttercup, n. 2. A small, square sugar-plum, colored in a variety of tints, and somewhat creamy inside.— Aerid buttercup. Same as tall buttercup.—Bulbous buttercup, Rananculus bulbosus, a species with the stem arising from a bulbons thickened base, native in Europe and now common in fields, etc., in the eastern United States.—Buttercup oil-beetle. See *wil-beetle.—Creeping buttercup, Rananculus repens, in England a bad weed creeping by runners, introduced in the eastern United States.—Meadow buttercup. Same as tall buttercup.—Swamp- or marsh-buttercup.

(a) See marsh-buttercup. (b) Rananculus septentrionalis, a vigorous species growing on wet ground in the eastern Inf of the United States, with the later branches prostrate and rooting. prostrate and rooting.

butter-daisy (but'èr-dā"zi), n. See *daisy. butter-dish (but'èr-dish), n. 1. A small plate or dish, often with a cover and strainer, for holding and serving butter; also an individ-ual plate for butter.—2. In dairying, a thin wooden dish or platter for packing or deliver-

ing tub- or print-butter.

butter-drier (but'er-dri"er), n. In dairying,
a centrifugal drier used to extract the water from newly made butter.

butter-extractor (but'er-eks-trak"tor), n. combined milk-separator and churn for making butter directly from fresh milk; a buttermaking machine.

butter-fat (but'er-fat), n. The fat which enters the composition of butter: essentially a mixture of 68 per cent. of palmitin and 30 per cent of olein.

mixture of 68 per cent. of palmitin and 30 per cent of olein.

butterfly, n. 5. A local name for a mussel, Plagiola securis, found in the Mississippi river: so called from the shape of the valves. The shell is used in the pearl-button industry.—American copper butterfly, an American lycenid butterfly, Heodes hypophlæas, common in the eastern United States, where its larva feeds on sorrel and clever.—Antiopa butterfly, a common European and North American nymphalid butterfly, Euvanessa antiopa, also called mourning-cloak from its somber colors. The wings are purplish brown with a yellow outer margin. The larve live gregariously on the willow, eim, poplar, and backberry.—Argus butterfly. See **arqus-butterfly.—Atalanta butterfly, a puntterfly, See **arqus-butterfly.—Atalanta butterfly, any musterfly, any one of the butterflies in which the front legs are imperfect, including those of the families Agapetidæ, Heliconidæ, Nymphalidæ, and Lymaadidæ.—Butterfly upus. See **lupus.—Clicking butterfly, any butterfly the South American nymphalid genus Ageronia.
These butterflies make a clicking noise when in flight or by moving the wings when at rest, probably by means of two hooks at the base of the fore wings and two other hooks on the thorax.—Cosmopolitan butterfly, a nymphalid butterfly, *Vanessa cardut,* of general distribution, whose larve feed on thistles and other Compositæ.—Cresphontes butterfly, a large black-and-yellow awallow-tailed butterfly, *Papilio cresphontes, extending up the Atlantic coast of the United States and other Compositæ.—Dead-leaf butterfly, any one of the Oriental nymphalid butterflies of the genus Kallima. The undersides of the wings are so colored and marked that the butterflies of the genus Kallima. The undersides of the wings are so colored and marked that the butterflies of wide distribution, and feeding in the larva stage on Cassia and other leguminous plants.—Milkweed butterfly, shows and itself butterfly, an American pierid butterfly, an American pierid butterfly, and and canda, but hi butterfly, n. 5. A local name for a mussel,

Again, a contributor to the Speaker recently pointed out the resemblance of the resting "wood white" butterfy (Leucophasia sinapis) to the flower buds of the corn wheat—a plant invariably abundant in the woods frequented by this dainty insect.

Sci. Amer. Sup., Apr. 29, 1905, p. 24520.

butterfly-conch (but'er-fli-kongk), n. A marine univalve mollusk of Tasmania, Voluta papiltosa.

butterfly-damper (but'èr-flī-dam "pėr), n. thin plate of metal which turns ou an axis across a pipe so that it controls the amount of the passage left open in the pipe. The pipe may be of various cross-sections, but, if round, the axis of the plate or damper is at the middle of the pipe.

butterfly-dock (bnt'er-fli-dok), n. Same as

butterfly-fish, n. 3. The common name of the species of fishes of the family Chætodontidæ found in tropical seas, noted for their singular form, bright colors, and great activity. The family comprises 8 or 10 genera and nearly 200 species.

butterfly-lesion (but'er - flī - lē "zhon), n. common form of the cruption of lupus crythematosus, in which there is a patch on each side of the nose, joined by a narrow strip across the bridge, suggesting a butterfly in shape. butterfly-lily (but'er-fli-lil"i), n. The mari-

the essential oil or cacao-butter from ground cacao. A common type is a filter-press.

butter-print, n. 2. The Indian mallow, Abutilon Abutilon. The name alludes to the large round seed-capsule, which is neatly marked above with radiating furrows. Also called stamp-need, butter-salt (but'er-salt), n. Common salt in small crystals, obtained by rapid evaporation of brine at the boiling temperature. On account of its fine texts. count of its fine texture it is preferred for use

in salting butter. butter-scoop (but'er-sköp), n. See *butter-

butter-spade (but 'er - spad). n. A wooden spatula used in cutting butter from a firkin or other vessel. When grooved in parallel lines, butter-spades are used, in pairs, for rolling lumps of butter into balls for the table.

butter-tree, n.-Indian butter-tree, the fulwa, Madhuca butyracea.

Madhuca butjracea.

butter-worker, n., A creamery apparatus for pressing the buttermilk ont of freshly made butter, working in the salt, and bringing the butter to a condition for use or shipment to market. There are several types of such machines, all consisting essentially of one or more plain or fluted rolls that traverse with a rolling motion over or through the butter, which is spread out in a thin cake npon a tray. In small hand-machines the trays are stationary; in power-machines the trays revolve and carry the butter under rolls revolving in a fixed position. In one type of machine the butter is placed in a revolving drum. Butterworkers and churns are sometimes united in one machine. See churn. churr

butter-yellow (but'er-yel" $\bar{0}$), n. coal-tar color produced by combining diazo-tized aniline with dimethylaniline. It is used for coloring butter, oils, etc.

butt-gage (but gaj), n. A measuring- and marking-tool used, in hanging doors, to mark the positions of the hinges upon the door and upon the door-frame.

n. In lumbering, the butt-hook (but'huk),

hook by which the cable is attached to the tackle on the logs. [U. S.] butt-lap(but'lap), n. In ship-building, a junction of plates or bars at their ends or butts by lapping the end of one over the adjacent end

gether.

butt-measurement (but'mezh"ūr-ment), Measurement from a shoulder or projection; a measurement taken by placing one end of the button-press (but'n-pres), n. A machine for rule against the projection from which the measurement is taken.

button, n., 4. (d) A finger-knob or key on the concertina and some accordions —15. In pathol., any small, rounded, circumscribed elevation on the cutaneous or mucous surface.

According to Welch and Clement, more characteristic According to Welch and Clement, more characteristic lesions, but less often met in experimental cases, are the so-called buttons, viz., certain elevated, circumscribed, round or oval areas of necrotic inflammation of firm consistence, which implicate the nucous and submucons coats, and sometimes all of the coats of the bowel.

Jour. Exper. Med., V. 259.

Amboyna button or pimple. An affection of the skin, possibly of syphilitic origin, endemic in the island of Amboyna.—Button-and buttonhole-marking machine, in shoe-manufacturing, a machine for marking on the edges of a partly made shoe the positions of the buttons to be stitched on and those of the corresponding buttonholes to be cut.—Button-sewing machine, a machine having a device for clamping the button to the machine while it is sewed down on the fabric. One type of machine employs the vibrating needle-bar of the *coverseaming machine (which see) and sews two- and four-hole that buttons and bar-buttons, and fastens and cuts the thread when the work is done. Another type makes a barring-stitch on four-hole and bar-buttons. It is also adapted to sew on buckles, curtain-rings, etc.—Mescal button. See *mescal.—Murphy's button, an instrument consisting of two button-shaped pieces joined by a screw employed to retain in apposition the two ends of divided intestine in the operation of intestinal anastomosis or that of gastro-enterostomy.—Naples button, therify-lily (but 'er-m...)
osa-lily; any species of Cator...
ore appropriate name butterfly-fully sector appropriate name butterfly-fully sector appropriate name butterfly-fully sector. If a sector is broadly extended into wing-like projections. [Tasmania.]
untterfly-nut (but 'er-fil-nut), n. A thumb nut.
outterfly-fully (but 'er-fil-itil' lip), n. See **hetherly-lily.
butter-ladle (but 'er-la'-dl), n. A wooden spoot nused in handling newly made butter. One type is called a *poon-ladle', and another form (used in Eagland) having a perforated bowl, a butter-seop.
Butterman schooner. See **schooner.
butter-oil (but'er-in), n. The part of refined cotton-seed oil which is used in making oleo-margarin or butter substitute. U. S. Dept. **ar., Bulletin 33, 1896, p. 372.
**Alle (but'er-pad*1), n. Same as **ar., Bulletin 33, 1896, p. 372.
**Alle (but'er-pad*1), n. Same as **ar., Bulletin 33, 1896, p. 372.
**Alle (but'er-pad*1), n. Contained the search of the sea

button-grass (but'n-gras), n. A name applied in Tasmania to a sedge, Gymnoschanus sphærocephalus, covering barren, boggy land and bearing a capitate flower-cluster on the end of a slender stalk 4 or 5 feet in length.

buttonhold (but'n-hold), v. t.; pret. and pp. buttonheld, ppr. buttonholding. form of buttonhole. An obsolete

form of *buttonholer.

buttonhole, n. 3. In surg., any small straight incision into a cavity or canal. See *boutonmeision into a cavity or canal. See **countries*, 2.—4. A buttonhole bouquet. [Eng.]—Buttonhole stitch, the stitch used in making buttonholes. The edge of the buttonhole is sewed over and over, leaving a knot on the inside edge with each stitch, to strengthen it and prevent fraying against the button. buttonhole, v. t. 3. To sew with the stitch used in making buttonholes: used in sewing, lacework, and embroidery.

buttonbole-machine (but'n-hol-ma-shen") A machine for cutting, sewing, and finishing buttonholes in leather and fabries. In buttonhole-making the slit in the fabric may be cut with a knife by hand, or by a pivoted knife attached to the machine, or by a knife operated by the machine, and either before or after sewing up the hole. Two types of machine are used. In one the needle, as in an ordinary sewing-machine, remains in a fixed position, and the work, by a suitable mechanism attached to the machine, is fed forward and backward at each stroke of the needle to form the overseaming-stitch, and is also carried round the ends of the slit to sew np the opposite side. This feed-mechanism is adjustable to sll sizes of buttonholes. In the other type the work is held in one position while the sewing is done, and the needle-bar supporting the needle vibrates to and fro in forming the stitch, as in the *voverseaming-machine (which see). With this machine the ends of the buttonhole are reinforced by barring or a band of long stitches. A machine for cutting, sewing, and finishing

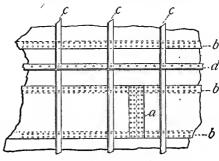
of the other and riveting the lapped parts to- buttonholer (but'n-hol-er), n. 1. One who makes buttonholes; also, a machine designed to be used in making buttonholes .- 2. One who buttonholes another.

making buttons. It is usually an upright press which can be fitted to cut the blanks, impress a design on a blank, or assemble the parts.

button-scar (but'n-skär), n. A scar drawn up into a button-shape, used for ornamentation of the body by African negroes and correspond-ing to the tattoo-marks of people with lighter skin. Ratzel (trans.), Hist. of Mankind, II. 394. button-shell (but'n-shel), n. A small marine gastropod of the genus Rotella, having a rounded, lenticular polished shell.

button-valve (bnt'n-valv), n. A valve in which the plug has a head or button forged on the end of the stem.

buttress, n. 4. A wall or abutment built along a stream to prevent the logs in a drive from cutting the bank or jamming. [U. S.]—5. The angle formed on the plantar surface of the hoof by the junction of the wall with the



Butt-strap and Seams in Outside Plating a, double-riveted butt-strap; b, b, b, double-riveted seam-laps; c, c, c, frames; d, longitudinal bar.

buttonholder (but "n-hol-der), n. An obsolete butt-strip (but'strip), n. Same as *butt-strap. butty, n. 3. In archery, one of a pair of archers who shoot together at a target: as, when the leader has shot his first arrow his butty

takes his place.

butyroin (bū-tir'ō-in), n. [L. butyrum, butter, + ·o- + ·in².] Octanol-4-1-5, C₃H₇COCHO-HC₃H₇. It is an oil which can be distilled with slight decomposition under a low pressure. butyrometer (bū-ti-rom'e-tèr), n. [Gr. βούτυ-ρον, butter, + μέτρον, measure.] An apparatus for ascertaining the amount of butter-fat in milk.

The butyrometer is extremely useful, alike for measuring periodically the fat-producing capacity of individual cows in a herd, for rapidly ascertaining the percentage of fat in milk delivered to factories and paying for such milk on the basis of quality, and for determining the richness in fat of milk supplied for the urban milk trade.

Encyc. Brit., XXVII. 360.

butyrone (bū'ti-rōn), n. [L. butyrum, butter, + one.] Four-heptanone or dipropylketone, + -one.] Four-heptanone or dipropylketone, (C₃H₇)₂CO. It is prepared by the distillation of calcium butyrate.

butyro-refractometer (bū"ti-rō-rē-frak-tom'etèr), n. [L. butyrum, butter, + refractometer.]
A refractometer adapted for the measurement evidence as to its degree of purity can be ob-

butyrousness (bū'ti-rus-nes), n. Buttery

butyraceeus quality. H. Stubbe. [Rare.]

Buxaceæ (bux-ā'sē-ē), n. pl. [NL. (Dumortier, 1822), < Buxus + -aceæ.] A family of ditier, 1822), $\langle Buxus + -acex.]$ A family of dicotyledonous archichlamydeons (apetalous) plants of the order Sapindales, the box family, typified by the genus Buxus, the box. It is characterized by unisexual regular bracted flowers, the staminate with four or more stamens and sometimes a rudimentary platil, the fertile with a 2-4-celled ovary and as many simple styles. It embraces 6 genera and 30 species—trees, shrubs, or perennial herbs, chiefly with evergreen leaves, widely scattered over the globe. See box1, Buxus, and Pachysandra.

buxaceous (buks-ā'shius), a. Belonging to the Buxaceæ, or box family of plants.

Buxaceæ, or box family of plants.

buxinidine (buk-sin'i-din), n. [Buxus + -in by-chamber (bi'chām"ber), n. A chamber; a + -id + -ine².] An amorphous alkaloid of uncertain composition, found in the green leaves

by-chamber (bi'chām"ber), n. A side-channel (bi'cham"el), n. A side-channel (bi'cham"el), n. A side-channel of Buxus sempervirens.

buxum, a. A simplified spelling of buxom. buyo (bö'yō), n. [Tagalog.] In the Philippine Islands the leaves of the betel-pepper (Piper Bette), which, together with the nuts of the by-day (bī'dā), n. A leisure day; an off day. betel-palm (Areca Catheau) and a pinch of by-effect (bī'e-fekt"), n. A secondary or unslaked lime, are used by the natives as a masintended effect.

ticatory. Also called itmo. See betel and byerite (bī'e-rīt), n. [Appar. < Byers, a town in Arapahoe county, Colorado.] A cak-*bonga.

Buys Ballot's law, system of weather-signals. See *law1, *signal.
buz, v. and n. A simplified spelling of buzz.
buzzI v. I intrans 3. To move burriedly or buzz^I, v. I. intrans. 3. To move hurriedly or with fuss; run; fuss about: as, to buzz along; to buzz about; to buzz against a person. [Prov. Eng.] 4. To pick pockets. [Slang, Eng.]

II. trans. 4. To throw with violence. [Prov. Eng.)—5. To drink (a bottle) till it is empty.

[Prov. Eng.] puzz¹, n. 4. In angling, a beetle or its artifibuzz^I, n.

cial imitation used as bait.

buzz4 (buz), n. [Assumed sing. of *buzzes, dial. pronunciation of *burses, double pl. of bur1. Compare dial. fur and fuzz for furze.] A bur;

prickly cally. [Prov. Eng.]
buzz⁵ (buz), a. [Also buz: a vague use of buzz¹, v., in composition, implying something large, as in *buzz-wig (q. v.), but sometimes written detached, as an adjective.] 1. See *buzz-wig.—2. Of an artificial fly, having the hackle wrapped closely under the wings.

A fly is said to be buz when the hackle is wrapped on thick and it looks bushy, as we Americans would term it. T. Norris, Sportsman's Gazetteer, p. 599.

(buz'kov), n. A pickpocket. buzz - cove [Thieves' cant.]

buzzer, n. 4. A pickpocket. [Thieves' cant.] buzz-fly (buz'fli), n. A yellow Australian sareophagid fly.

buzzing (buz'ing), n. 1. The act or sound of anything that buzzes; humming. -2. The picking of pockets. [Slang, Eng.]

Buzzing is the name given to the crime. A gang of thieves surround a man and while one robs him the rest maintain a buzzing noise.

Standard (England), May 23, 1904.

buzz-planer (buz'plā"nėr), n. A machine for

smoothing or planing wood. It consists simply of a table and a revolving head which carries two or four knives. The head or spindle makes about 3,500 revolutions per minute, and the wood is passed over it. One part of the table can be raised or lowered to get the depth of cut desired.

to imply something large or imposing (cf. humming, whopping, etc.), + wig³.] 1. A large wig. [Colloq. or slang.] buzz-wig (buz'wig), n.

The reverend gentleman was equipped in a buzz wig.
Scott, Antiquary, xvil.

bigwig.

B. V. M. An abbreviation of Blessed Virgin Mary.

of the refractive power of butter-fat, whereby B. W. G. An abbreviation of Birmingham wire-gage.

by1, bye1, n.—To draw a by, to go up into the next round without play.

by-act (bi'akt), n. An act that is secondary or incidental to a main act. by-alley (bī'al"i), n. An alley at the side or

somewhat out of the way. by-bill (bī'bil), n. An incidental bill, or a

bill for incidentals; a casual item.

by-blow, n. 3t. A calamity or disaster out of the common.—4t. A blow that misses its aim. Bunyan, Pilg. Prog., II. 103. by-ceremony (bī'ser"ē-mē-ni), n. A secondary

or incidental ceremony; a ceremony that has its origin in an afterthought or is suggested or rendered necessary by some incidental circumstance.

or -stream apart from the main channel: as, a network of by-channels.

by-chapel (bi'chap"el), n.

A chapel subordinate to the principal church.

by-form (bī'fôrm), n. A collateral or minor

The English masque is a by-form of the English drama which flourished between the years 1597 and 1658, and is absolutely definite in its nature and characteristics.

Science, May 26, 1905, p. 802.

bygon, a. and n. A simplified spelling of by-

by-hint (bi'hint), n. An indirect hint; a side-hint.

by-letter (bi'let"er), n. In the early history of the postal service of England, a letter forwarded by a local postmaster 'to any place but London or beyond.

The by-letters occasioned uneasiness to Whitley [deputy postmaster-general 1672-77] because he was entirely in the hands of the postmasters for the accounting of them.

Hyde, The Post in Grant and Farm, p. 315.

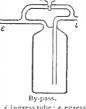
by-note (bī'not), n. In music, either a gracenote or an overtone.

byon (bi'on), n. A name given by the natives of Upper Burma to a clay which there contains rubies and other gems. The hyon is supposed to result from the decomposition of a marble which has been affected by contact-metamorphism.

by-pass, n. 2. In wash-bottles and similar apparatus for the handling of gases, a tube

with a stop-cock connecting the ingress and egress tubes, so that by opening the stop-cock the gas may pass with-

out flowing through the apparatus itself.—3. Any passage for conducting around an obstruction, such as a closed valve, a part of the fluid or material which goes through the main channel. A by-pass is frequently placed on large steam- or watervalves to relieve the pressure on the valve so that it can be opened and closed easily. Also bye-pass, by-pass, r. t. 2. To persit (e. light) to flow through lan auxiliary.



mit (a liquid) to flow through an auxiliary channel, around a valve or a cylinder or back into a reservoir, instead of pursuing the usual or direct course through the main or normal

by-pit (bi'pit), n. In coal-mining, a shaft nearer the outcrop than the hoisting-shaft; an air-shaft.

A person wearing a buzz-wig; hence, a by-production (bi'pro-duk"shon), n. Same as by-product.

by-regard (bi're-gard"), n. A side-look or

Whom the old Spanish buzzings doated on.

De Quincey, Works, III. 69.

W. M. An abbreviation of Blessed Virgin

Hary.

Byronian (bī-rō'ni-an), a. and n. I. a. Of or pertaining to Byron, the poet; resembling Byron.

II. n. An admirer or imitator of Byron: as. the French Byronians.

Byronical (bi-ron'i-kal), a. Same as Byronie. Byronize (bi'ron-iz), v.; pret. and pp. Byronized, ppr. Byronizing. I. trans. To invest with the characteristics of Byron.

Let others prepare their parchment-bound portfolios, throw their visages into the penseroso, fling their curls back from their brows, unbutton their shirt-collars, and, thus Byronised, begin. Blackwood's Magazine, LX1. 430.

II. intrans. To imitate Byron in person, babits, or style.

Indeed, under any circumstances, his [Kirke White's] gentleness and devoutness would have Byronized but ill. $Edinburgh\ Review,\ LXII.\ 299.$

byrsoid (ber'soid), n. [Gr. βύρσα, a skin (> L. bursa, a skin bag, a purse: see bursa, burse, purse), $+ \epsilon l \delta o c$, form.] In anthrop., a cranium the norma verticalis of which shows an elongated, rounded form, narrow in front but with wide forehead, widest near the occiput, similar in form to an elongated purse. G. Sergi (trans.),

bysmalith (biz'ma-lith), n. [Ignorantly formed as if from *bysma, deep, depth, or bottom, wrongly assumed as the stem of abysm, + Gr. λίθος, stone.] In geol., a large and rudely cylindric mass of igneous rock which has been driven upward through overlying strata as a punch goes through a sheet of metal.

ing bituminous coal resembling albertite and torbanite: first found in Colorado.

byssinosis (bis-i-nô'sis), n. [NL., < byssinus, of cotton, + -osis.] A form of pneumonocopy-form (bī'fôrm), n. A collateral or minor niosis due to the inhalation of cotton-fibers.

Three Stages (A, B, C) in the Metamorphosis of Anodonta.

a, enteric canal: b, provisional byssus; c, foot; d, lateral pits; c, rudiments of gills; f, mouth; g, shell; h, adductor muscle; r, sense organs; f, cilia. (Drawn from Parker and Haswell's "Zoology," after Korschelt and Heider.

Korschelt and Heider.)

Byssus gland. See

*gland.—Byssus silk,
mussel silk. It is made
from the filamentous
beard of a mussel inhabiting the Mediterrathe Dalmstian and Italian coasts. The silk is golden brown in color, very soft and elastic, and is manufactured into manufactured into is manufactured into small garments, purses, gloves, and fancy goods.

—Provisional byssns, a thread secreted by a gland in the midventral region of the body of the Glochidium larva of fresh-water mussels (Anodonta, Unio).

by-start (bi'start), n. A deviation from the right direction.

by-station (bi'stā" shon), n. A waystation.

by-step (bi'step), n. A step to one side or in the wrong direction.

bythium (bith 'i-um), n. [NL., \langle Gr. $\beta \nu \theta \delta \varsigma$, depth.] A supposed new elebythium ment, said to have

been obtained from sulphur by electrolysis. The alleged facts in regard to it have been completely disproved.

by-touch (bi'tuch). n. An incidental or unin-

tended touch or stroke.

by-work (bi'werk), n. 1. Work done at odd times or in addition to one's regular work; an occasional task or performance.

To make Religion the great business and concern of their Lives, and not as most do a *By-work*.

Norris, Chr. Prud., p. 385.

2t. A work that has failed in the doing; a work that has proved a failure.

Aristotle thinketh that the female is a by-work.

Crooke, Body of Man, p. 271.

Byzantine Greek, Greek of Byzantium, especially of the later Byzantine empire; practically, medieval Greek.

Byzantinesque (bi-zan-ti-nesk'), a. In the

Byzantine style. Byzantinize (bi-zan'tin-iz). v. t.; pret. and pp.

Byzantinized, ppr. Byzantinizing. To render Byzantine; impart a Byzantine character to; affect or influence by Byzantinism.





3. (a) (4) The tone given by such a key, or a tone in unison with such a tone. What is called middle C has (at French pitch) about 259 vibrations per second. (5) The staff-degree assigned to such a key or tone: as, with the treble clef, the third space or the first added line below. (6) A note placed on such a degree and indicating such a key or tone. (7) The keynote of the minor key of no sharps or flats (C major), or of the minor key of three flats (C minor); also, in medieval music, the final of the Ionian and Hypoionian modes. (8) In the fixed system of solmization, the first tone of the scale, technically called either ut or do; hence, C is called ut absolutely by French, Italian, and Spanish musicians. (2) An abbreviation of current.

4. An abbreviation of Court and [l. c.] of centimeter.—C clef. See clef.—White C, an American nymphalid butterily, Polygonia faunus, common in the northern United States and Canada. Its larve feed on the alder, willow, black birch, currant, and gooseberry. Also known as the green comma.

as the green comma.

as the green comma.

C. A. An abbreviation (a) of Court of Appeal;
(b) of Court of Arches; (c) of Chancery Appeals;
(d) of commercial agent; (e) of Confederate
army; (f) of county alderman.

ca. An abbreviation (b) of cases; (c) of cen-

tare

caable (kä-ä'bl), n. [OF. caable, ehaable, a ballista, also throwing down, prostration, = Pr. OSp. calabre (ML. reflex eadabula, *eadabulus, cabulus), < ML. *eatabola (recorded as catabolum, payment), < Gr. καταβολη, a throwing down, paying down, etc.: see catabolism.] In medieval (French) use, a ballista or cata-

caapeba (kä-ä-pā'bä), n. [Tupi.] 1. Either of two plants, Heekeria peltata and H. umbellata, of the pepper family, natives of South America and the Antilles. Their aromatic roots are used medicinally, and their edible berries yield an oil resembling anise-oil. - 2. Same as par-

caatinga (kä-ä-tēn'gä), n. [Also catinga; (Tupi caatinga, 'white leaf,' 'light (that is, open, leafless) forest': caa, leaf, plant, tree, etc.] A type of sparse, stunted woodland occupying extensive tracts, alternating with savanna, in extensive tracts, alternating with savanna, in the dry region of eastern and central Brazil. The vegetation consists of thorny bushes (chiefly Mimosaceæ), with some low trees of several families, including different bottle or barrel-trees (see *bottle-tree, 2) and columnar Cactaceæ, with prickly Bromeliaceæ (herbaceons). During the dry season all is nearly or quite leafless and as if dead, but with the advent of rain it bursts into leaf and flower. Phytogeographically this belongs to the category of bush-wood. Also (by translation), light forest. cab⁶ (kab), n. [Short for cabbage³, n.] A translation (usually literal) of a classical or other work in a foreign language. Surrenti-

other work in a foreign language, surreptitiously used by school-boys and students in preparing their lessons or recitations; a crib.

[Eng. school slang.] cab⁶ (kab), v. t. [Short for cabbage³, v.] appropriate dishonestly and on the sly; crib;

appropriate disnonestly and on the sly; crib; purloin. [Eng. school slang.] caba² (kä'bà). n. [Philippine Sp.] In the Philippine Islands, a measure of capacity equal to about one and one third United States bushels.

cabalic (ka-bal'ik), a. [Also cabbalic, cabbalic, cabbalic, cabbalicus, < cabbala, cabala.] Same

as cabalistic.

caballada (kä-bäl-yä'dä), n. [Sp., a stud of horses, (eaballo, a horse.] A reserve stud or 'mob' of horses from which remounts may be 'mob' of horses from which remounts may be 'pakpak-lauin. drawn by cavalry or any mounted expedition

while on the march. [Spanish America.] caballerote (kä-bäl-yc-rō'tā), n. [Cuban use of Sp. caballerote, a gentleman, (caballero, a gentleman: see caralier.] A Cuban name \(\capallero, \) of a food-fish called the gray snapper, Lutianus

ariseus.

cabal-system (ka-bal'sis"tem), n. A mnemenic system by which one remembers a vocable whose letters (or all except certain vowels) hair lariat. are the initials of the words to be remembered. caheza (kä-bā'thä), n. [Sp., = Pg. cabeça, The name alludes to the fancy mentioned under head, chief: see cabeca.] In the Philippine $eabal^1, 4.$

Cabbage, gall-weevil, leaf-miner, Pionea, cabezon, n. 2. Larimus breviceps, a sciænoid fish of the West Indies.

cabbage¹, n.—Kerguelen cabbage, the cabbage-like Pringlea antiscorbutica. See Pringlea.—Native cabbage, in Anstralia, the yellow-flowered marsh-creas, Reripa palustris.—Savoy cabbage. Same as savoy.

Same as savoy.

cabezon, n. 2. Larimus breviceps, a sciænoid fish of the West Indies.

cabezote (kä-bā-thō'tā), n. [Sp. eabezota, a big-headed person, \(\chi \) cabezote (kä-bā-thō'tā), n. [Sp. eabezota, a big-headed person, \(\chi \) cabildo (ka-bil'dō), n. [Sp. \(\chi \) Larimus breviceps, a sciænoid fish of the West Indies.

cabbage3, v. t. or i. 2. To crib or appropriate dishonestly; use surreptitiously; cab. [Schoolboy slang.]

cabbage³, n. 2. A cab or crib, used surreptitiously by a school-boy in preparing his lessons or writing his exercises.

cabbage-aphis (kab'āj-ā"fis), n. Same as cabbage *plant-louse.

cabbage-bark (kab'āj-bārk), n. See $\star bark^2$. cabbage-beetle (kab'āj-bē"tl), n. Same a Same as cabbaue-flea.

cabbage-butterfly, n.—Large cabbage-butterfly, an American pierid butterfly, Pontia monuste, white in color, and of tropical and subtropical distribution. Its larve feed on cabbage, lettuce, and turnip.

cabbage-curculio (kab'āj-ker-kū"li-ō), n. A curculionid beetle, Ceuthorhynchus rapæ, common to Europe and North America. It bores into the crown and roots of young cabbage-and cauliflower-plants, and attacks the stems of kale and mustard.

cabbage-head (kab'āj-hed), n. 1. The mass of crowded and incurved leaves which form the edible part of the cabbage.—2. Figuratively, a brainless fellow; a blockhead. N. E. D. cabbage-looper (kab'āj-lö"per), n. The larva of a noctuid moth, Autographa brassicæ, common in the United States where it feeds on cabbage and other cruciferous plants.

cabbage-louse (kab'āj-lous), n. Same as cabbage *plant-louse.

cabbage-oil, n.—Chinese cabbage-oil, oil expressed from the seeds of *Brassica sinensis*. cabbage-patch (kab'āj-pach), n. A patch of

ground where cabbages are grown.

The Wiggsea lived in the Cabbage Patch. It was not a real cabbage patch, but a queer neighborhood, where rainshackle cottages played hop-scotch over the railroad tracks. tracks.

A. C. Hegan, Mrs. Wiggs of the Cabbage Patch, p. 4.

cabbagy (kab'āj-i), a. [cabbage¹ + -y¹.] Cabbage-like: as, a cabbagy green. cabbalism, n. Another spelling of cabalism.

cabber (kab'ér), n. 1. A cab-horse, or a horse well suited for use as a cab-horse.—2. One much given to riding in cabs.

cabbing (kab'ing), n. The business of owning,

letting, or driving cabs. N. E. D. cab-bit (kab'bit), n. A French bit, the cheeks of which are made up of a series of rings solid unon one side.

cabecera (kā-bā-thā'rā), n. [Sp., < cabcza, a head, chief.] In the Philippine Islands, a provincial capital.

cabeceria (kä-bā-thā-rē'ä), n. [Sp. cabeceria, < cabecera: see cabecera.] In the Philippine Islands, the taxpaying population of a barangay; also, a barangay. cabestro (ka-bes'trō), n. [Sp., a halter, etc.

\[
 L. eapistrum, a halter: see capistrum.
 \]

Islands, a chief.

headed person, \(\) cabeza, head. The broadhead silverside, \(Atherina \) stipes. [Cuba.] cabildo (ka-bil'dō), \(n. \) [Sp., \(\) L. \(capitulum, \) chapter: see \(chapter. \)] The \(chapter-house \) of a \(cathedral \) or collegiate \(church. \) [Southern U. S., etc.]

The cathedral, and standing beside it, like Sancho beside Don Quixote, the aquat hall of the cabildo with the calabozo in the rear.

G. W. Cable, The Grandisaimes, p. 320.

cabin, n. 5. In mining, a small room partitioned off inside the mine for the use of the mine officials.

Cabinet finish, finish with delicate joinery, as in hard wood finely polished or varnished.—Cabinet picture, in photog., a small and generally highly finished picture about 4½ by 6½ inches in size.

cabinet-beetle (kab'i-net-bē"tl), n. Any one of several species of injurious beetles of the family Dermestidæ, as Dermestes cadaverinus, Anthrenus varius, or Anthrenus museorum, which infest cabinets of natural history.

cabinet-maker, n. 2. One who busies himself unauthorizedly with constructing a governmental cabinet; a politician or busybody who speculates on or needlessly troubles himself with the selection of cabinet ministers and the formation of a cabinet.

cabinet-making (kab'i-net-mā"king), n. 1. The occupation of a cabinet-maker; the making of fine furniture and the like.—2. The selection of cabinet ministers; the formation of a politi-

cal cabinet.

cabinet-work (kab'i-net-werk), n. Fine woodwork used in cabinet-making: thus, veneered doors or polished paneled dados, mantelpieces,

doors or poilshed panered dados, manderpreces, and the like are spoken of as fine cabinet-work. Cabiria (ka-bi'ri-ā), n. pl. [NL., also Cabeiria, ζGr. Καβείρια, neut. pl., ζ Κάβειροι, Cabiri.] In Gr. antiq., mysteries connected with the cult of the Cabiri, or Pelasgic gods of the Ægean Sea. Their chief seat was Samothrace.

A. C. Hegan, Mrs. Wiggs of the Cabbage Patch, p. 4. cabbage-red (kab'āj-red), n. The coloring matter of red cabbage. See *cauline. Cabbage-thrips (kab'āj-thrips), n. Any one of several species of thrips found on cabbage-leaves: usually, and most abundantly, Thrips tritici. Cabbage-tree hat, a large, low hat made of the leaves of the cabbage-tree. [Australia.] cabbage-tree. [Australia.] cabbage-tree. [Australia.] cabbage-worm, the larva of an American pyralid moth, Evergestis rimosalis.—Southern cabbage-worm, the larva of an American pierid butterfly, Pontia protodice. cabbagy (kab'āj-i), a. [cabbage++y¹.] Cabbage-like: as, a cabbagy green.

[Prov. Eng.]—5. A cablegram; a cable message: as, a cable announcing their departure has just been received.—6. An abbreviation of cable-car: as, to take the cable up-town.—Concentric cable, in elect., a cable containing two or more conductors, of which the inner one is a wire and the others are concentric tubes surrounding the inner wire and insulated therefrom and from the outer armon.—Pupin cable, in elect., a cable the telegraphic or telephonic transmission of which is enhanced by the insertion of inductance at stated intervals.—Telodynamic cable, a transmission rope; an endless rope used as a belt for the transmission of power.—Ten cables, an English nautical measure, equal to 1,000 nantical fathoms, or 6,080.3 feet; a nautical mile.—Three-wire cable, in elect., a cable consisting of three insulated conductors, for use in three-wire or three-phase circuits.

cable, v. t. 4. To make into a cable; specifi-[Prov. Eng.]-5. A cablegram; a cable mes-

cable, v. t. 4. To make into a cable; specifically, to twist two threads together and then to twist three of these doubled threads into one, as in the manufacture of sewing-thread.

cable-bell (kā'bl-bel), n. In elect., a bell-shaped enlargement at the end of the cable armor, filled with an insulating compound.

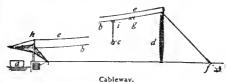
cable-box (kā'bl-boks), n. A box or fixture in which the ends of an electric cable are fastened. cable-buoy (kā'bl-boi), n. A small buoy which rests upon the surface of the water over the anchor, to the ring of which it is secured by a

plied to a cross formed of the two ends of a ship's cable.

cable-grip (kā'bl-grip), n. A clutch or jaw attached to a car for the purpose of gripping the moving cable by which the car is propelled. cable-hanger (kā'bl-hang'ér), n. A person who unlawfully dredges for oysters. [Colloq., Eng.]

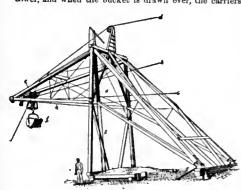
cable-rope (kā'bl-rop), n. A cable; a cable-

cable-tank (ka'bl-tangk), n. A strong, watertight tank placed on a cable-ship and provided for holding a coiled section of cable that is



a, barge from which coal is hoisted up to cable; ê, fixed cable on which trolley supporting hoisting-bucket travels; e, hucket sus-pended from trolley; d, tower supporting cable; e, small return cable handing trolley (drawing-cable not showo); f, anchorage; ê, supports for drawing cable; h, combined tower and crane; i, trolley.

or earrier traveling with or on a wire cable cab-rank (kab'rank), n. A row of cabs on a or carrier traveling with or on a wire cable which is suspended between struts or towers. The most simple type is an endless cable which is supported by means of pulleys or sheaves, placed at the tops of two head towers, and is made to travel continuously in one direction or alternately forward and back between the towers. The material to be transported is placed in a bucket which is suspended under the cable and moves with it from one tower to the other. On reaching the tower the bucket may be removed or unloaded and is then carried by the cable back to the loading-tower. If the cable moves in one direction two or more buckets may be used by transferring the buckets when unloaded to the returning cable. Where the cableway descends a hillside, and the traffic is down grade, the weight of the loaded buckets may be used to operate the plant without the aid of a motor, the movement of the cable being controlled by a brake. In another type, largely used in the construction of docks, breakwaters, canals, subways, and reservoirs, a single cable is suspended from a trolley having flanged wheels which travel on the cable, the trolley and its bucket being hauled in either direction by means of an endless wire rope passing through blocks at the tops of the towers and controlled by a winding engine. Two cables are also used with two haulage ropes, and, to prevent the sagging of the ropes, they are passed through carriers that travel on a separate cable. When the bucket is at the tower the rope-carriers are bunched near the tower, and when the bucket is drawn ever, the carriers which is suspended between struts or towers.



Cableway Head-tower.

d, open tower at loading point of cableway; δ , cable extending to unloading tower (not shown); c, hauling-cable; d, returning cable; c, totoley, with hoist; f, bucket with load; g, g, anchor rods; f, overhanging crane which brings bucket over car or boat.

are automatically distributed along the cable sustaining the ropes. The haulage-ropes are also passed through blocks on the trolley and can be used to raise or lower the buckets at any, point of the cable. The cable may also be connected by overhead awitches to run the buckets from the cable to the tracks of a telpherage system. The towers may be stationary, as in building a dam; or may be mounted upon trucks and moved along parallel tracks, as in digging causls; or one tower may be stationary and the other may travel upon a circular track. Self-filling buckets and automatic dumping-buckets are extensively used in handling sand, coal, etc. Cableways are also used in coaling war-ships at sea, the masts of the collier and the battle-ship acting as the towers of the cableway. The coal, in sacks, is hoisted to the cable, hauled to the ship, and lowered to the deck, while the war-ship tows the collier. Another type employs very long cables supported at intervals upon towers, with the hauling-rope reeting on brackets that are placed at short distances apart or running over guide-rollers on the towers. This type is used for trausporting large quantities of material over rough and mountainous countries, rivers, and valleys.

length of line. The position of the buoy betrays the resting-place of the anchor, over which it is also left as a cabber (kab'mas'ter), n. One who owns a cab or cabs; one who maintains a public cabled, a. 3. In her., formed of a cable: ap-

cabochon, n.—Double cabochon, a gem which is domed, that is, convex on the upper and lower sides with a girdle-line separating the two.—Single cabochon, a stone which is cut with a flat or alightly rounded head and a convex to. back and a convex top.

cabo-negro (kā-bō-nā'grō), n. [Sp.: cabo, rope (see cable) + negro, black (see negro).] A name, in the Philippines, of Saguerus pinnatus, palm yielding a beautiful black, horsehairlike fiber which is very durable under water and is used for making cables for towing and ropes for the standing rigging of vessels. The name is also applied to the jaggery-palm, Caryota urens, which yields the kittul fiber of ready for laying. Houston, Dict. Elect.

cableway, n. In general, any conveying apparatus in which the load is carried in a bucket

caboose, n. 3. An inclosed wagon for convey commerce. See gomuti, 2, ejoo, medrinack, and

ing workmen to mines. [Western U. S.] Cabotian (ka-bo'ti-an), a. Of or pertaining to

either or both of the navigators and explorers, John and Sebastian Cabot (father and son),

who, in the fifteenth century, discovered the mainland of North America. cab-phaëton (kab'fā"e-ton), n. A combination of the cabriolet and the phaëton in which the driver's seat was placed at the rear. It was one of a class of vehicles originating in a fashion in vogue in the middle of the illneteenth century in accordance with which styles of carriages designed for two wheels were combined and snapended on four wheels, the cabriolet being used for the rear portion and the phaëton for the front of the body.

cab-stand.

cabrilla, n. (d) Epinephelus maculosus, an American grouper. (e) In Chile, the rockfish, Schastodes occulatus.

— Cabrilla verde, the green grouper of the genus Paralabrax, a bass-like fish of the Pacific coast.—Spotted cabrilla, Paralabrax maculatofasciatus, a bass-like fish of Califa, paralabrax maculatofasciatus, a bass-like fish

cabriolet, n. 2. In furniture, a light chair. Cabriolets are first mentioned in a

cabriolet-phaëton (kab-ri-ō-lā' fā"e-ton), n. A carriage similar to the *cab-phaëton (which see), except that the driver's seat was placed at the front.

cab-runner (kab'run'er), n. A tout who, in expectation of a fee, calls cabs for travelers at a railway-station, steamboat-landing, and the like.

cab-signal (kab'sig"nal), n. In railroading, an adaptation of the automatic block-signaling system by which signal-lights are displayed in the cab of an engine. The electric rail-circuit, controlled by a train (as in the block-system), causes the proper signals to be displayed in the cab of the next following engine, the current following the rails and the wheels of the engine into the cab to the signal.

cabureiba (kä-bö-rā-ē-bä'), cabureiba (kā-bö-rā-ē-bā'), n. [Braz., Guarani cabure, name of a bird, + iba, tree, fruit.] A tall leguminous tree, Myrocarpus fratigiatus, a native of southern Brazil and northern Argentina. It yields a fine cabinetwood and a balsam resembling balsam of Peru. Also called incienso, the balsam having been used for incense.

cabnya (kä-bö'yä), n. [Sp., agave, $\langle W. \text{Ind.} cabnya$, a cord of vegetable fiber, as of the agave, etc.; Galibi cabnya, a species of pineapple.] 1. A species of agave, Agave rigida, which yields sisal hemp.—2. In Central America, and the W. A. Land.—2. ica and the West Indies, the cajun, Furcræa Cuhensia.

cacafuego (kä-kä-fö-ā'gō), n. [Sp., \(cagar, \) L. cacare (see cack), + fuego, fire. This was the name of a Spanisb galleon taken by Drake in 1579.] A spit-fire; a bragging, vaporing fellow.

cacahuate (kä-kä-hwä'te), n. [Nah. tlalcacahuatl, earth-cacao, < tlalli, earth, + cacahuatl, cacao.] The name in Mexico and the Philippine Islands of the peanut, Arachis hypogea. cacanthrax (ka-kan thraks), n. [NL., ζ Gr. κακός, bad, + ἀνθραξ, anthrax.] Malignant pustule.

cacao, n.—Cacao-pod disease. See *disease.—Crème de cacao. See *crème.

cacao-beetle (ka-kā'ō-bē"tl), n. A longicorn bectle, Stirastoma depressum, which attacks cacao-trees, boring into the trunks and branches. In some parts of the West Indies

product obtained after pressing out a portion

of the cacao-butter from roasted and shelled cacao-beans and pulverizing the resultant hard mass.

Cacara (ka-kā'rā), n. [NL. (Thouars, 1806, adopted from Rumph, 1747), Malay kakara, name of the edible sim bean of India, Dolichos Lablab.] A genus of dicotyledonous plants of the family Fabacen. See Pachyrhizus. cacesthesia (kak-es-thē'si-ā), n. [NL. cacesthesia, ζ Gr. κακός, bad, + αἰσθησις, feeling.]

cachectic, a. II. n. One who suffers from a cachexy.

cachet, n. 2. A distinguishing mark or stamp. All his works have a grand cachet; he never did any-ning mean. Thackeray, Paris Sketch Book, p. 61. thing mean.

3. In phar., a hollow wafer containing medicine in powder form. Buck, Med. Handbook, III. 1.

citie in powder form. Buck, Med. Handbook, III. 1.

Cachexia thyreopriva. Same as myxedema.—Cachexia, a morbid condition marked by emaciation, weakness, etc., accompanying the growth of a malignant tumor.—Maliarial cachexia, chronic malaria, marked by enlarged spleen, anemia, sallow complexion, and little or no fever.—Saturnine cachexia, chronic lead-poisoning, marked by anemia, the presence of a bluish line at the edge of the gums, obstinate constipation, often wrist-drop or paralysis of other parts, and arteriosclerosia.—Splenic cachexia, a state of malnutrition accompanying disease of the spleen.—Strumous cachexia, scrotla.—Thyroid cachexia, same as exophthalmic goiler (which see, under exophthalmic).—Venous cachexia. Same as emosity, 3.—Verminous cachexia. Same as emosity, 3.—Verminous cachexia, constitutional symptoms (anemia, debility, etc.) accompanying the presence of intestinal parnattes, especially of Ankylostoma.

cachexy, n. 2. A perverted or depraved habit of thought or feeling.

cachil (kä-chēl'), n. [Philippine Sp., prob. ult. & Malay kechil, little, small. Cf. cachila, applied by the natives to the Spaniards.] A prince of the reigning house in the Mohammedon parts of western Mindanae.

prince of the reigning house in the Mohammedan parts of western Mindanao. [Philippine Is.

cachimilla (kach-i-mēl'yā), n. [Mex. Sp.] A west American composite shrub, Pluchea sericca, called arrow-wood by travelers because it is used by the Indians in making arrows. It ranges from western Texas to California and northern Mexico. Also called arrow-weed.

cachinnate (kak'i-nāt), v.i.; pret. and pp. cachinnated, ppr. cachinnating. [L. cachinnare, laugh: see cachinnation.] To indulge in loud, continued laughter; to laugh immoderately. De Quincey.

cachinnator (kak'i-nā-tor), n. [NL. *cachinnator, < L. cachinnare, laugh.] One who cachinnates; one who indulges in loud or immoderate laughter.

cachou de Laval (ka-shö'de la-väl'). 'Laval's eachou.'] An artificial dyestuff, first prepared in 1873 by fusing various vegetable and animal products, such as sawdust, bran, and animal products, such as sawdist, oran, blood, and horn, with sodium sulphid. It dyes unmordanted cotton brown in a salt bath, and the color is fixed by an after treatment in a warm solution of some acid, as aulphuric, or a metallic salt, as copper sulphate or potassium bichromate. Various shades of a fast brown are produced, depending in character upon the after treatment. It is of interest as being the first of that important class of dyestuffs known as the aulphid colors.

cachucho (kä-chö'chō), n. [Sp. cachucho, an earthen pot, a cartridge, etc.] A Cuban name for a food-fish, Etelis oculatus, of the family Lutianidæ, remarkable for its brilliant red

caciqueship (ka-sēk'ship), n. The position of

cackle (kak'l), v. t. Naut., to wind right and left alternately: as, to cackle a cablo.

cacochylous (kak-ō-kī'lus), a. [Gr. κακός, bad, + χυλός, juice, chyle.] Relating to or affected with caeochylia; indigestible. cacochymic, a. 2. Dyspeptic. cacochymical (kak-ō-kim'i-kal), a. Same as

cacochymioust (kak-ō-kim'i-us), a. Same as cacochumic.

cacochymy (ka-kok'i-mi), n. Same as cacho-

chymia. cacodemonia (kak "ō-dē-mō'ni-ä), n. cacodæmonia, < Gr. κακοδαιμονία, < κακοδαίμων, possessed by an evil spirit: see cacodemon.] 1. Possession by an evil spirit: possibly originally an alteration of personality.—2. The delusion that one is possessed by an evil spirit.

and Guiana it has been very destructive. Also cocoa-beetle.

cacao-disease (ka-kā'ō-di-zōz'), n. See *disease.

cacao-powder (ka-kā'ō-pou "der), n. The product chtaired effort precipitation of the spossessed by an evil spirit. N. E. D.

cacao-powder (ka-kā'ō-pou "der), n. The possessed by an evil spirit. N. E. D.

cacao-powder (ka-kā'ō-pou "der), n. The possessed by an evil spirit: see cacodemon.] Of or pertaining to a cacodemon.

n. Same as *cacodemonia.
cacodorous (kuk-ô'dor-us), a. [Gr. κακός, bad, + L. odor, odor, + -ous.] Ill-smelling; malo-

He paid his shilling at the hideous door of the Alhambra, made his way through a cacodorous crowd to the supper-room, and ordered some grilled oysters.

Mortimer Collins, Marq. and Merch. xxii.

cacodoxian (kak-ō-dok'si-an), a. Samo as cacodoxical.

cacodyl, n.—Cyanide of cacodyl, a compound of cyanogen and cacodyl: an extremely poisonous substance, more powerful in its action than prussic acid.
cacodylate (kak-ō-dil'āt), n. [cacodyl(ic) +

-ate1.] A salt of cacodylic (dimethyl arsenic)

actor.

Cacodylic acid. This remarkable compound of arsenic is now used, or its salts are used, in medicine, much larger doses than of the ordinary arsenical preparations being prescribed without poisonous effects.

cacoëpistic (kak-ō-e-pis'tik), a. [cacoep-y + -ist + -ic.] Characterized by cacoëpy or erroneous pronunciation; mispronounced.

This is a very . . . complex subject which . . . requires entirely new treatment in reference to . . . those abnormal, caccepistic, rare, vulgar, and dialectic forms.

A. J. Ellis, Early Eng. Pron., I. 224.

cacofony, n. A simplified spelling of cacophony.

cacogalactic (kak-ō-ga-lak'tik), a. [cacogalactia + -ic.] Characterized by cacogalactia or

a bad condition of the milk.

cacogenesis, n. 2. The quality, common in mixed breeds, of having a low vitality and of being infertile.

cacografy, n. A simplified spelling of cacog-

cacographer (ka-kog'ra-fer), n. A bad writer or a bad speller.

cacomagician (kak "ō-mā-jish'an), n. [Gr. κακός, bad, + Ε. magician.] One who is skilled in the black art; a magician in league with the

the Rosacrusian to Europe as a caco-magician.

I. D'Israeli, Amenities of Lit., II. 281.

cacophonize (ka-kof'ō-niz), v. t.; pret. and pp. cacophonized, ppr. cacophonizing. [cacophon-y + -ize.] To render eacophonous or illsounding

cacorhythmic (kak-ō-rith'mik), a. [Gr. κακός, bad, + ρυθμος, rhythm, rhythm-y + -ic.] Illmodulated; characterized by irregularity of rhythm; in bad rhythm: as, a cacorhythmic production; a cacorhythmic pulse.

production; a cacorhythmic pulse.
cacothanasia (kak*ō-tha-nā'si-ā), n. [NL., < Gr. κακοθανασία, < κακός, bad, + θάνατος, death.] A painful or distressing death.
Cacotopia (kak-ō-tō'pi-ā), n. [NL., < Gr. κακός, bad, + τόπος, place; formed in contrast to Utopia, prop. 'no place,' but understood and formerly often written as Eutopia, 'a place where all is well.'] An imagined place where government is of the worst; the opposite, in the character of its political institutions, of the ideal commonwealth which Sir Thomas More (1516) placed on his imaginary island More (1516) placed on his imaginary island Utopia ('No-where'). See Utopia. [A nonceword used by Bentham.] cacotrophia (kak-ō-trof'i-ä), n. [NL., ζ Gr. κακοτροφία, ζ κακός, bad, + τροφή, nourishment.] Defective nutrition.

Cactales (kak-tā'lēz), n. pl. [NL. (Lindley, 1847), ⟨ Cactus + -ales.] An order of dicotyledonous plants containing the family Cactaceæ only.

cactoid (kak'toid), a. [cactus + -oid.] Having the aspect of a cactaceous plant: said, for

ing the aspect of a cactaceous plant: said, for example, of fieshy euphorbias. Hooker and Ball, Marocco, p. 328.

Cactus ladybird. See *ladybird.—Prickly-pear cactus. Same as prickly-pear.—Russian cactus. Same as Russian *thistle.—Yucca cactus, the Joshua-tree, Yucca arborescens. See Yucca.

cacuminal, a. 2. In anat., relating to the cacumen or upper surface of the vermis of the brain.

brain.

cacuminous (ka-kū'mi-nus), a. [cacumen (-min-)

Eactiminous (Ra-Ru inf-Inus), n. [cacumen(-min-) +-ous.] Having a conical or pointed top. **Cadl**, n. 1. (g) A young fellow of the town or vicinage who hangs about a college or university and does chance services for the collegians. [Eng.]

cacodemonomania (kak″ō-dē-mo-nō-mā'ni-ä), cad² (kad), n. [Appar. a capricious use ('nan. Same as *cacodemonia. tive cads') of cad¹. Not a reduction of cicada cacodorous (kak-ō'dor-us), a. [Gr. κακός, bad, as pronounced si-cad'ä †.] A name in Queens-

From the trees sounds the shrill chirp of large green cicada (native cads, as the bushmen call them).

Australasian, Jan. 11, 1896, quoted by E. E. Morris, [Austral English.]

Cadaveric or putrefective all and the call them and the call them are cicadic (kä-dyãr'), n. [State and the call them are circumstant and them are circumstant and the call them are circumstant and the call them are circumstant and the circumstant and

Cadaveric or putrefactive alkaloid. *alkaloid.

cadaverin (ka-dav'er-in), n. [Also cadaverine; A ptomaine first found in $cadaver + -in^2.$ decomposing cadavers: a product of bacterial action in most instances, but sometimes formed in the body in the absence of microbes in cases of cystinuria. It is a derivative of lysin, and is known as pentamethylene-diamino (CH₂ (NH₂)(CH₂)₄(NII₂)). cadaverize (ka-dav'er-īz), v. t.; pret. and pp.

cadaverized, ppr. cadaverizing. [cadaver +-ize.]
To make cadaverous or corpse-like.

To effect a temporary suspension of the circulation, and cadaverise his countenance.

Fraser's Mog., April, 1841, p. 421.

cad-bit (kad'bit), n. Same as cad-bait.
cad-bote (kad'bōt), n. The caddis-worm.
[Prov. Eng.]
cad-catcher (kad'kach-er), n. A picture intended to 'catch' or attract 'cads' or undiscrimination of the cade's or cade's o

criminating persons. [Artists' cant.] caddie² (kad'i), n. An Australian bushman's name for a slouch hat, usually worn with the brim turned down at the back.

caddie-bag (kad'i-bag), n. A bag, about three feet long, usually made of leather or canvas, for carrying golf-clubs.
caddow² (kad'ō), n. [Also caddo, caddoe, cadow; cf. caddis¹.] A woolen garment or covering of a rough or carreet partner.

of a rough or coarse texture.

caddy⁴, n. 4. A tin can with a lid, for holding water, etc. [U. S.]—5. In the tobacco trade, a box 6 to 8 inches square, holding from 10 to 20 pounds. Stand. Dict.

The great adversary of Fludd . . who denounced the Rosacrusian to Europe as a caco-magician.

I. D'Israeli, Amenities of Lit., II. 281.

cophonize (ka-kof'ō-niz), v. t.; pret. and cade: as, to cade herring. Nash. cadeau (kä-dō'), n.: pl. cadeaux (dō'). [F.]

A present or gift; a gratuity; a cumshaw. cadence, n. 9. The modulation or manner of

utterance peculiar to a particular locality or language. I returned an answer in that language, hoping at least that the cadence might be more agreeable to his ears.

Swift, Gulliver, III. ii.

10. In music, a trill-like ornament, the reverse of the battement (which see).—Immediate cadence, in music, a cadence that is not prolonged or extended; one in which the dominant or subdominant chord passes at once into that of the tonic.— Inverted cadence, in music, a cadence in which the penultimate chord is in-

cadenced (kā'denst), p. a. Measured; rhythcadenced (ka dense), p. a. measured, injun-mical; regular; expressed or executed with measured regularity: as, a cadenced step; cadenced sound; "the cadenced surges of an un-seen ocean," Lowell. cadent, a. II. n. In old music, a grace or em-ballishment consisting of an after-note one

bellishment consisting of an after-note one degree below the principal note: as,



ment.] Defective nutrition.

cacotrophy (ka-kot'rō-fi), n. [NL. cacotrophia.] Same as *cacotrophia.

cacotype (kak'ō-fip), n. [Gr. κακός, bad, + τύπος, type.] A bad type or imperfect reproduction.

How tame my cacotype of these words compared with the men on a sheep- or cattle-farm wi with the men on a sheep or cattle-farm without pay. [Australia,]—6. A student in engineering or any of the applied sciences who, in completion of his course (or earlier), seeks practical experience by entering the service of some large establishment where the principles he has been studying are applied, and works there for little or no pay.—7. One who pros-titutes a woman and lives on her earnings as a prostitute while cohabiting with her; also, one who seduces young women and sells them to houses of prostitution. [New York.]

The most degraded class that ever disgraced the name of man—the creatures who live upon the earnings of in-dividual prostitutes, with whom they cohabit. They are called souteneurs in France, louis in Germany, cadets in New York, and by various slang names in Great Britain. Encyc. Brit., XXXII. 32.

cadet engineer. See **engineer. cadette (ka-det'), n. [F., fem. of cadet, ca-

det.] A younger daughter or sister; a female cadet. See cadet, 2.

cadging (kaj'ing), n. The occupation or prac-

cadière (kä-dyar'), n. [South F. cadière, Prov. cadeira, I. cathedra, chair: see chair, chaise.]

A name given to a gold currency of Brittany and to a billon coinage struck under Charles VI. of France for Dauphiny, containing a figure scated on a chair. Compare chaise, n., 3. cadillo (kä-dēl'yō), n. [Sp. cadillo, a name of several plants bearing burs.] A name in Venezuela of the Cæsar-weed, Urena lobata. See *Cæsar-weed, *guaxima, and Urena.

cadjan (kaj'an), n. [Malay and Jav. kājang.]
The matted cocoa-palm leaves used in southern India for thatch.—2. A section or strip of palm-leaf prepared for use as writingmaterial. The leaf generally used for this purpose is that of the palmyra-palm or the talipot (Carypha umbraculifera) of Ceylon. [Anglo-Indian in both uses.]

Cadjen (kaj'en), a. and n. [Also Cajun; from F. l'Acadien, taken as Cadien with the article la, le.] An Acadian; a descendant of the French Acadians. [Louisiana.] cadju (kaj'ô), n. Same as cashew.

cadmic (kad'mik), a. [cadmium + -ic.] Pertaining to or containing cadmium: as, cadmic chlorid or sulphid.

canorid or suipind.

Cadmium cell, a voltaic cell (invented by Weston) in which the metal (cadmium is employed for the positive metal. It is extensively used as a standard of electromotive force.—Cadmium ocher, cadmium sulphid occurring as a deposit of earthy texture on the surface of other minerals.

Cadogan tea-pot. See *tea-pot. Cadorine (ka-dō'rin), a. Of or pertaining to Cadore (more fully Pieve-di-Cadore), in Northern Italy, the birthplace of the painter Titian. Cæcal appendage. Same as appendix vermiformis.—Cæcal pouches, in entom., the cæca of the mid-intestine.

cæciform (sē'si-fôrm), a. [NL. cæcum + L. forma, form.] Of the nature or having the form of a cœcum: as, cæciform appendages. cæcocolic (sē-kō-kol'ik), a. Relating to the cæcum and the colon, the cæcocolic valve being

the valve between the two.

the valve between the two.

Cæcum, n.—Cæca of the mid-intestine, in entom., a number of blind diverticula from the anterior end of the stomach, differing in shape and number. In the Locustidæ they are two in number and are large and short; in the Buttidæ there are 8 and in the Acrididæ 6. Certain Diptera have two long, slender cæca, while in the Coleoptera there are very numerons minute villi or tubules. They are probably pancreatic function. A. S. Packard, Text-book of Entom., p. 300.—Hepatic cæcum, in embryol., the outpouching or evagination from the embryonic intestine that gives rise to the liver.—Pyloric cæca. (a) and (b) See pyloric. (c) In starfishes, the bifurcated multilobular prolongations of the pyloric region of the stomach, the walls being glandular and secreting a digestive fluid.—Siphonal cæcum, in cephalopods, the blind end of the siphunchar tube.—Spiral cæcum, in cephalopods, the cæcal appendage, which in some species is arranged in a more or less spiral manner.

Cælum Sculptorium (sē'lum skulp-tō'ri-um).

Cælum Sculptorium (se'lum skulp-tō'ri-um). [NL., 'the sculptor's sky.'] The 'Graver,' a coustellation introduced by Lacaille between Eridanus and Columba: not to be confounded with the Sculptor.

cænogenesis, cænogenetic, etc. kenogenesis, kenogenetic, etc. Same as

Cænolestes (sē-nō-les'tēz), n. [NL., \langle Gr. $\kappa a \iota \nu \delta c$, recent, $+ \lambda \eta \sigma \tau \eta c$, robber.] A genus of small diprotodont marsupials, belonging to small diprotodont marsupials, belonging to the family *Epanorthidæ*, having a shrew-like form and long skull. The genus is remarkable from the fact that two species are found living in the highlands of Ecnador and Colombia, while others are found fossil in the Miocene of Patagonia. The genus was first named *Hyacodon*, but this was originally applied to a genus of ungulates and is hence untenable.

Cænopithecus (sē"nō-pi-thē'kus), n. [NL., ζ Gr. καινός, recent, + πίθηκος, ape.] An ex-tinet genus of lemurid monkeys from the Upper Eccene beds of Switzerland.

cænostylic (sē-nō-stil'ik), a. Relating to that condition of the visceral arches known as

cænostulu. cænostyly (sē-nos'ti-li), n. [Gr. καινός, recent,

+ $\sigma \tau \bar{\nu} \lambda o c$, a pillar.] That state or condition of the cephalic skeleton in which the first and second visceral arches do not bear gills, but are modified to serve in taking food and have one or more of their parts attached to the cranium. It occurs in amphibians, chimæras, and sharks. W. K. Gregory, 1904.

cænozoölogy, n. Same as *cenozoölogy. Cæoma (sē-ō'mā), n. [NL. (Link, 1809), irreg., (Gr. kalen, burn, + -oma. The allusion is to its effect in giving a burnt or scorched appearance its contraction. ance to the leaves on which it grows.]

the Uredinales which lack a peridium about the sorus.

cæomospore (sē-ô'mộ-spōr), n. [NL., Cæoma + σπορά, seed (spore).] A term sometimes applied to the æcidiospoves of the form-genus $C\bar{x}oma$. See $\star C\bar{x}oma$.

Cæretan (sē - rē 'tan), a. [L. Caeretanus, < Cærētes (also Caerites), inhabitants of Cære, < Cære, Cære.] Pertaining to Cære, an ancient Etruscan town, now Cerveteri, in Italy: usually applied to a collection of so-called Corinthian vases which were discovered in Cerveteri and are now in the museum of the

In the hydrige of the Caeretan fabric we have constant evidence of Egyptian influence.

Cecil Smith, Jour. Hellenic Studies, XIII. 112.

Cæsalpiniaceæ (ses-al-pin "i-ā'sē-ē), n. pl. [NL. (Klotzsch and Garcke, 1862), & Cæsal-pinia + -aceæ.] A family of dicotyledonous choripetalous plants of the order Rosales, the choripetalous plants of the order Rosales, the senna family, typified by the genus Cæsalpinia. It is characterized by clustered, mostly hermaphrodite 5-merous flowers, the petals imbricated in the bud, and alternate stipulste leaves which are sometimes simple and when compound are zygomorphous. There are 107 genera and over 1000 species, trees, shrubs or herbs, chiefly tropical, but including such genera as Cassia, Cervia, and Gleditaia that are found in temperate regions. See Leguminosæ.

cæsalpiniaceous (ses "al-pin "i-ā'shius), a. Belonging to the plant-family Cæsalpiniaceæ. Cæsar, n. 3. [l. c.] A name in the Bahamas of the small grunt or Tom Tate, Bathystoma rimator, a food-fish of the family Hæmulidæ.

Cæsarist (sē'zär-ist), n. An imperialist.

Cæsar's mushroom. See *mushroom.

Cæsar-weed (sē'zär-wēd), n. A shrubby tropi-

cal weed, Urena lobata, introduced into Florida, where it is thus called, and where it is sometimes taken for the ramie-plant. See Urena and Spanish *bur.

caffea (ka-fē'ä), n. [NL.: see coffec, café.]

Same as caffein. caffeidine (ka-fē'i-din), n. [caffe(a) + -id¹ + -ine².] A crystalline alkaloid, $C_7H_{12}ON_4$, formed by the action of barium hydroxid on

caffein. It melts at 94° C.
caffeol (kaf'ē-ol), n. [caffe(a) + -ol.] An oil,
CsH1002, with a pleasant odor like that of
coffee, obtained in roasting the green coffeeberries. It boils at 196° C. Later observers
have failed to obtain the compound.

caffuric (ka-fū'rik), a. Derived from coffee and related to uric acid.—Caffuric acid, a crystalline acid, Caffuo, a which is formed, together with spocaffein, by the oxidation of caffein. It is easily soluble in water.

cafuso (kä-fö'sō), n. [Brazilian.] In Brazil, an Indian and negro half-breed.

cag² (kag), r. t.: pret. and pp. cagged, ppr. cagging. [Origin obscure.] To affront; ofcagging.

fend. [Prov. Eng.] cage, n. 7. A drum or cylinder in a cottonsentching machine, covered with wire netting, against which the cotton is thrown in the form of a sheet, the dust being removed by a suction-fan.—8. In base-ball, the mask worn by the catcher .- Steel cage. See *steel1.

cage-mount (kāj'mount), n. In ordnanee, a gun-mount for light guns in which the lower fixed part is a stand or pedestal having heavy bars radiating in a conical shape downward to the base and roughly resembling a cage. cage-stand (kāj'stand), n. The lower fixed

part of a cage-mount.

cageway (cāj'wā), n. 1. The guides for a
mine-cage.—2. The part of a mine-shaft in
which the cage is hoisted and lowered.

cagework (kāj'werk), n. 1. Openwork like that of a cage.—2. The carved upper works of a ship's hull, especially on the poop and

forecastle. [Obsolete.]
caggy (kag'i), a. [Cf. cagmag.] Decaying;
tainted; unwholesome; loathsome. [Vulgar.]

Mouldy bread, caggy mutton. Marryat, Rattlin the Reefer, xv., N. E. D.

cagnag, n. 11. a. Unwholesome; decaying; cajeputene (kaj e-pu-ten), n. Samo as expaneagy: as, cagnag meat; hence, inferior: as, putene.
cagnag wares. [Vulgar or dialectal.] cajeputol (kaj e-pu-tene), n. [cajeput + -ol.]
cago (kä'gō, Fijian pron. thäng'ō), n. [Fijian.] Same as *cincol.
A name in the Fiji Islands of turmeric, Curcuma caji (kä-hē'), n. [Cuban, of native origin.] A

name formerly applied to certain secidia of longa. See Curcuma, 2, huldee, turmeric, *olena, and *rea.

cahar (kä'här), n. [Jav. and Malayan $k\bar{a}har$, $\langle D. kar = E. car^1$.] In Malayan countries, a one-horse carriage or eart; a one-horse springeart for the conveyance of passengers. Forbes,

Nat. Wand, in East. Arch., 1885, p. 51.

Cahenslyism (ka-hens'li-izm), n. A plan, proposed in 1891, and attributed to Peter Paul Cahensly (a member of the German Reichstag and president of the Leo Society for the protection of German immigrants in the United States), to appoint to those Roman Catholic sees and parishes in the United States, where there might be a dominant or large foreign population, bishops and priests of the same nationality, in order to preserve their religious traditions and practices; by extension, the propagation of foreignism among Roman Catholies in the United States Catholics in the United States.

cahincin (ka-hin'sin), n. [cahinca + -in2.] A glueoside, C40H64O18, found in the root-bark of Chicocca racemosa. It has an astringent, bitter taste and acid reaction. Also caincin. cahot (kä-hō'), n. [F. cahot, a jolt or jerk, also dial. as def.; origin unknown, but prob. interjectional, \(\circ ca\), introductory syllable, \(\phi\), interjection. \(\frac{1}{2}\) A bank or ridge of snow which has been heaped up across a road by passing sleighs, leaving a corresponding depression behind; hence, a surface-undulation or ridge-like inequality which, with the corresponding depression, is known in the United States as a 'thank-you-ma'am.' [Canadian Exerce). French.]

Corresponding undulations sometimes produced by sledge-driving on snow-covered roads are familiar in Canada, where they are called cahots (jolts). The author saw these in and near Montreal in the winter 1900-1901. They averaged 13 feet in length from crest to crest, and 8 inches appeared to be a not uncommon amplitude.

Rep. Brit. Ass'n Advancement of Sci., 1902, p. 731.

and Spanish *bur.

Café au lait (ka-fa'ō lā') [F., coffee with milk], a light
yellowish-gray color.—Café frappé. See *frappé.—Café
parfait. (a) After-dinner coffee. (b) A form of ice
cream consisting chiefly of a well-beaten mixture of yolks
of eggs, sugar syrup, and drained whipped cream, flavored
with strong coffee and frozeo without stirring.

Caffee (ka-fa'ō) [N. | N. | Caffee | Caffee |
Caffee | Caffee | Caffee |
Caffee | Caffee | Caffee |
Caffee | Caffee |
Caffee | Caffee |
Caffee | Caffee |
Caffee | Caffee |
Caffee | Caffee |
Caffee | Caffee |
Caffee | Caffee |
Caffee | Caffee |
Caffee |
Caffee | Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caffee |
Caff unknown.] A local name for a sea-bird, presumably a species of Puffinus, formerly abundant on the Bermudas, now supposed to be extinet. By some ornithologists it is considcred to be the existing Puffinus obscurus.

cahuy (kä-hö'i), n. [Tagalog.] A tree; also, wood; fire-wood. [Philippine Is.] caidos (kä'ē-dōs), n. pl. [Sp.] Unpaid or overdue rents or taxes. [Philippine Is.]

cailcedrin (kīl-sed'rin), n. [Cailcedr(a) + $-in^2$.] A resinous compound present to a minute extent in the bark of the cailcodra.

cailian (kä-i-lē-ān'), n.; pl. cailianes (-ä'nāz). [Philippine Sp. cailián (pl. cailianes), \(\) Ilocan caylián.] Among the Ilocans and Igorrotes of Luzon, a poor man who dwells as a denizen in a commune, without tribal rights, and is in

caillasses (kä-ĉ-yäs'), n. pl. [F., gravels.] In geol., a name given by French geologists to the upper part of the Middle Eocene or Upper Calcaire grossier of the Paris Tertiary basin. caimito (kī-mē'tō). n. [Peruv. caymita.] 1. A tree of the family Sapotaceæ, Pouteria Caimito, or its fruit, which resembles the marmalade-plum, but is smaller and superior in flavor.—2. Sometimes the same as cainito (which see) and star-apple (see cut).

cainana (ki-nä'nä), n. [Given as Braz.] The Brazilian snakeroot, Chiocoeea brachiata, a rubiaceous plant the root of which is used in medicine.

Cainitic (kā-nit'ik), a. Of or pertaining to Cain or the Cainites.

cainosite (kī'nō-sīt), n. See *cenosite. cainozoölogy (kī-nō-zō-ol'ō-ji), n. See *ceno-

caiqueiee (kī'ēk-jē), n. [Turk. qāyiqii, < qāyiq, caique.] One of the oarsmen of a caique.

cairdman (kard'man), n. Same as caird.
Caissa (kā-is'ā), n. [NL., artificially formed from chess, appar. on the model of chase² = F. caisse, with -issa conforming to the L. and Gr. fem. suffix -issa (E. -ess).] The goddess of chess: a modern invention of chess-players. caitif, n. A simplified spelling of caitiff.
cajeput, n. 2. The spice-tree of California: so

named on account of the properties of its oil. See spice-tree. - Essence of cajeput. See *essence. cagmag, n. II. a. Unwholesome; decaying; cajeputene (kaj'ē-pu-tēn"), n. Same as caju-

Cuban name of the snapper, Lutianus apodus,

called the schoolmaster.

cajon, n. 2. In phys. geog., a small basin inclosed on nearly all sides by steep hills or mountains. [Southwestern U. S.]

cajun (kä-hön'), n. [Sp. Amer.] A fiber-plant, Fureræa Cubeusis, of the amaryllis family, a partire of the property of the control of the cont

native of tropical America. It yields a strong white fiber used for cordage. Compare *cocuiza. See *Cadjen. Cajun, n.

cajuputol (kaj/'ju-pů-tōl'), n. [cajuput + -ol.]

Same as *cincol.

cake¹, n. 7. A stupid fellow; a noodle. [Dialectal, Eng.]—8. [Figurative extension of def. 2.] A good thing; a dainty or delicacy, as in the phrase 'cakes and ale'.—Cakes and ale, dainties; the good things and the enjoyments of life; 'all play and no work or worry.'

Dost thou think, because thou art virtuous, there shall be no more $cakes\ and\ ale\ \ell$

Shak., Twelfth Night, ii, 3,

Genoa'cake. (a) A currant-cake with almonds on top for ornament. (b) A rich cake glazed and filled with nuts.—Genoese cake, a sponge-cake, sometimes haked as a legy-r-cake, or used as a jelly-roll.—Kungu cake. See *kungu.—Savoy cakes, lady's-fingers.—Soul-mass cakei, a soul-cake (which see).—The Land o' Cakes, Seotland. Burns.—To take the cake, to take the prize; carry off the honors: as, for downright impudence he takes the cake. See *cake-valk. [Slang.]—Venetian cake, a small almond-cake.

cake-house (kāk'hous), n. 1†. A place where cakes are made or sold. Pepys, Diary.—2. A place where eakes, as of soap, indigo, etc., are stored.

cake-ink (kāk'ingk), n. China or India ink,

cake-ma (kak mgk), n. China or India mk, which is made into cakes or slabs.

cake-meal (kāk'mēl), n. Same as cotton-cake.

cake-mold (kāk'mōld), n. A mold in which cakes, as of ink, soap, lac, etc., are formed.

cake-walk (kāk'wāk), n. A promenade or march in which a number of couples walk in competition before judges and an audience.

competition before judges and an audience, the most graceful, eccentric, or fantastic performers receiving cakes as prizes. It originated among the negroes of the southern United States.

Caking-coal. See ★coal. caky (kā-ki), a. [cake + y¹.] Cake-like; of the nature of or in the form of a cake.

cal. An abbreviation (a) of calory; (b) of calcium; (c) of ealender; (d) of calomel.

calabacilla, n. See calabazilla.
Calabar swelling. See *swelling.
calabash, n. 5. The head, with an implication

calabash, n. 5. The head, with of emptiness. [Slang, U. S.] calabazita (kal-a-bä-zē'(tā), n.

either a parallel form (dim. -ita) or a mistake for calabazilla.] Same as calabazilla.

calabozo (kä-lä-bō'thō), n. [Sp.] The Spanish form of calaboose.

ish form of calaboose.

calabrasella, n. The Spanish pack is used, which has no Ss, 9's, or 10's. The cards rank 3, 2, A, K, Q, J, 7, 6, 5, 4. Twelve cards are given to each player, 4 at a time, and 4 are left on the table. There are 3's points to play for, the lower score being deducted from the higher on each hand. There are no trumps. The 6 highest cards in each suit count 1 each, exept the ace, which counts 3, and the last trick counts 3, all counts being to those who win the tricks with counting cards in them. Each player in turn declares to play or pass. If he plays he may ask for the 3 of any snit in exchange for one of his own cards. If the 3 asked for is in the stock, the player loses his ask. After asking he may discard from 1 to 4 cards. He then turns the stock face up and takes from it as many as he has discarded. Those left in the stock and the discards go to the winner of the last trick. The eldest hand always leads. If the bidder fsiis to reach 18 he loses to both adversaries; if be passes 18 he wins from both.

calafate (kä-lä-fä'te), n. [Cuban Sp. (also

calafate (kä-lä-fä'te), n. [Cuban Sp. (also *galafale, q. v.), thief, rogue, lit. 'calker.']
A Cuban name of the black oldwife, Melichthys piceus, a fish of the family Balistidæ.

calalu (kä-lä-lö'), n. [Also calalue, calaloo, calaloe, calaloe (Cuban Sp. calalú.] A West Indian name for various plants, both wild and cultivated, which are used as pot-herbs and culityated, which are used as pot-neros and culinary vegetables.—Branched calaiu, Solanum nigrum.—Prickly calalu, Ameranthus epinosus.—Spanish calalu, Phytolacca octandra. calamansanay (kä-lä-män-sä'ni), n. [Also kalamansana; \ Tagalog calamansanay.] A timber-tree of the Philippine Islands.

Calamariaceæ (kal "a-mā-ri-ā'sē-ē), n. pl. [NL. (Potonié, 1899), < *Calamaria, a nominal genus included in Calamites, fem. of Calamarius, pertaining to a reed (see calamary), + -aceæ.] A family of Paleozoic plants, the probable ancestors of the modern Equisetaceæ, but attaining greater dimensions and often exhibiting an exogenous structure. They are found in great abundance in the coal-measures of all countries, but range from the Devonlan to the Permian. A large number of genera are recognized, most of which were formerly included in the group called Calamites (which see), but Annularia has always been regarded as distinct. See $\bigstar Annularia$ and Asterophyllites.

calamariaceous (kal"a-mā-ri-ā'shius), a. Belonging or relating to the Calamariaceæ.

(Potonié, 1900), (Calamaria (see Calamaria-ceæ) + -ales.] An order of pteridophytic fos-sil plants of the class Equisetincæ, coördinate with the order Equisetates, of which they are the probable ancestors. They are characterized by having their reproduction take place by means of microspores and macrospores, by their superposed leaves, and frequently by an exogenous structure. The order contains the two families Calamariaceæ and Protocalama-

calamarian² (kal-a-mā'ri-an), a. [NL. *Calamaria + -an.] Same as *calamariaccous.
calamay (kä-lä-mi'), n. [Tagalog.] A dish, made of cocoanut flour or rice, used as a dessert by natives of the Philippine Islands.

sert by natives of the Philippine Islands.

calameon (ka-lā'mō-on), n. [calamus + -eon, a mere ending.] A neutral crystalline compound, C₁₅H₂₆O₂, obtained from the high-boiling fractions of calamus-oil. It melts at 168°C.

calamiform (ka-lam'i-fôrm), a. [L. calamus, reed, pen, + forma, form.] Having the form of a reed or feather.

Calamis perce. See there. [Floatic calamus]

Calameon (kal-kā'nō-us), n. [NL.] Same as a substitute for potatoes, and, in Brazil and elsewhere, were called calamances.

J. D. Hooker, in Yule and Burnell Gloss.

Calameon (kal-kā'nō-us), n. [NL.] Same as calcaneus (kal-kā'nō-us), n. [NL.]

Calamin brass. See ★brass1.—Electric calamin, a name sometimes used to distinguish zinc hydrogen silicate from zinc carbonate as naturally occurring minerals, or ores of zinc. The silicate becomes electric on being heated.

calamin (kal'a-min), v. t. [calamin, n.]

wash or coat (pottery) with calamin.

calamine² (kal'a-min), n. [calamus + -ine².]

An alkaloid contained in the rhizome of sweetflag, Acorus Calamus, and found to be identical with choline.

calaminthone (kal-a-min'thôn), n. [Calamintha + -one.] A ketone, C₁₀H₁₆O, obtained from the volatile oil of Clinopodium Nepeta or marjolaine, which is found in France. It is a colorless oil which boils at 209° C.

calamitean (kal-a-mī'tē-an), a. [Calamites + -ean.] Belonging or relating to Calamites or to the Calamariaceæ.

Thus such transitions are well known, though of a relatively simplified form, in the structure of the calamitean atem. $Amer.\ Nat.,\ April,\ 1904,\ p.\ 250.$

calamographer (kal "a-mog'ra-fèr), n.

calamographer (kal "a-mog'ra-fèr), n. [Gr. *καλαμογράφος, implied in καλαμογράφα, writing with a reed, < κάλαμος, reed, + γράφειν, write.] One who writes with a reed. G. Smith.

Calamospermæ (kal "a-mō-spèr' mō), n. pl. [NL. (Ward, 1904), < Gr. κάλαμος, a reed, + σπέρμα, a seed.] A class of fossil plants of the phylum Pteridospermaphyta. They have the external aspect of the Calamariales, but bear seeds instead of macrospores. The genus Arthropitys seems to be an example, as it probably bore the aeeds called Stephanaspermum.

calamus, n. 8. [cap.] A genus of fishes, the The group is characterized by the great development of the interhemal bone at the base of the anal spines. This is greatly cultured and quill-shaped, its open end receiving the posterior end of the large air-bladder. To this atructure the Spanish name pez de pluma (quill-fish) and the name Cadamus refer. The species are all confined to tropical America and are all esteemed as food.

tropical America and are all esteemed as food.

calan (kä-län'), n. [Philippine Sp. calan, <
Tagalog calan.] In the Philippine Islands, a
native brazier, hearth, fireplace, or kitchen fire.

Calandrinia (kal-an-drin'i-ä), n. [NL. (Humboldt, Bonpland, and Kunth, 1823), named in
honor of J. L. Calandrini (1703-1758), a chief
magistrate of Geneva.] An untenable name
for Baitaria, a genus of plants of the family
Partulacanex.

Portulacaceæ.

calantas, n. See *kalantas.

calapia, n. See *kalapia.

calasag (kä-lä'säg), n. [Tagalog.] A large shield used by the natives of Nneva Vizcaya

and Benguet in Luzon.

calash, n. 4. A primitive one-horse springless eart of the island of Nantucket, Massachusetts, house-chairs being used for seats. It is still used to a limited extent.—Calash coach, a coach having a bow top over the rear seat. The doors are in two parts, hinged separately. It can be converted from a closed into an open carriage.

calash (ka-lash'), v. t. [calash, n.] To furnish with a calash.

Well callash'd without, and well bolster'd within. Irving, Salmagundi, p. 33.

Calathea (kal-a-thē'ā), n. [NL. (Meyer, 1818), ζ Gr. κάλαθος, a basket. The Indians of the Essequibo river use the split stems of some of the species for basket-making.] A genus of perennial foliage-plants, of the family Marantaceæ, which are commonly cultivated as

marantas, from which they differ in having a calciform² (kal'si-fôrm), a. [L. calz (calc-), three-seeded instead of a one-seeded fruit. heel, + forma, form.] Having a projection The genus includes about 60 species, mostly from trop-like a heel. Syd. Soc. Lex. marantas, from which they differ in having a three-seeded instead of a one-seeded fruit. The genus includes about 60 species, nostly from tropical America, but a few from tropical Africa. The leaves, for which the plants are grown, are marked with shades of green, red, brown, yellow, and white; they are among the handsomest of ornamental stove-plants.

Calathian (ka-lā'thi-an), a. [L. Calathiana (se. viola) in Pliny, otherwise taken as Calating appears from a propogramment.

(se. viola) in Pliny, otherwise taken as cautina and Calatina, appar. from a proper name, calcifugous.

calcifugou monanthe.

calavance (kal-a-vans'), n. [Also callevance, callivancy, etc., caravance, etc., orig. garvance, < Sp. garbanzo, chick-pea.] In the West Indies, a name for several species of beans belonging to the genus Dolichos, especially D.

talipes calcaneus.

calcar¹, n. 9. In cntom., one of the spines at the tips of the tibiæ of certain insects, especially the Hymenoptera. Also called spur. calcarenite (kal-kar'e-nit), n. [L. calx (calc-), lime, + arena, harena, sand, + -ite².] In petrog., a term proposed by A. W. Graban (1903) for a limestone or dolomite composed of coral- or shell-sand, or of lime-sand derived from the erosion of older limestones. In structure it resembles psammites or silicious

sandstones, being generally known by the term sandstone. Calcarine complex, ordinarily synonymous with hippo-campus minor. G. Elliot Smith applies the term to a triradiate pattern of sulci situated hehind the splenium of the corpus callosum; the ventral limb he distinguishes as calcarine, the caudal as retrocalcarine, and the dorsal as paracalcarine.

Calcarius (kal-kā'ri-us), n. [NL., < L. calcar, spur.] A genus of fringilline birds whose Calcarius (kal-kā'ri-us), n. members have the hind claw exceedingly long. The typical species is the Lapland longspur,

Calcarius lapponicus.

calcation (kal-kā'shon), n. [NL. *calcatio(n-),

< L. calcare, trample upon.] The act of trampling under the heel; a treading or stamping.

Blount.

Calceate fathers, in the Rom. Cath. Ch., those religious fraternities whose members wear shoes, in contradistinc-tion to those whose members go barefooted.

Calceocrinus (kal-sē-ok'ri-nus), n. [NL. cal-ceus, a slipper, + Gr. κρίνον, a lily (see crinoid).] A genus of fossil crinoids of the order Fistulata, characterized by the sharp flexion of the ealyx against the column and the extraordinary development of two of the arms. Species occur in Silurian and Devonian rocks.

Calceola (kal-sē'ō-lä), n. [NL. (fem.), < L. cal-ceolus (masc.), dim. of calceus, a shoe.] A genus of fossil oper-

culate corals grow-ing as simple, slip-per-shaped coralla and very abundant in the Middle Devonian rocks of

Europe. — Calceola group, in geol., a division of the Middle Devonian in the Rhineland, taking its name from the preva-lence of the coral Calceola sandalina.

calceolus (kal-sē'ōlus), n.; pl. calce-oli (-lī). [NL. use

of L. calceolus, dim. or calceus, a shoe, a boot: see calceate.]
One of the sense-

organs, possibly olfactory or auditory, on the

organs, possibly olfactory or auditory, on the antennæ of amphipods. Trans. Linnean Soc. London, Zoöl., May, 1897, p. 39. calcicole, a. Same as *calcicolous. calcicolous (kal-sik'ō-lus), a. [L. calx (calc-), lime, +-cola, < colere, dwell.] In phytogeog., inhabiting calcareous soils. calcicosis (kal-si-kō'sis), n. [NL., irreg. < L. calx (calc-), limestone, +-ic- +-osis.] Pneumonoeoniosis occurring in stone-cutters. Calciferous canals, small canala containing lime salts in

Calciferous canals, small canala containing line salts in cartilage undergoing ossification.—Calciferons sandrock. See *sandrock.

calcifugal (kal-sif'ū-gal), a. Same as calcifu-

calcifuge (kal'si-fūj), a. [L. calx (calc-), lime, + fugere, flee.] In phytogeog., avoiding lime-stone or lime-containing soils; calciphobous;

limestone or dolomite made up of rock-flour, the composition of which is typically non-sili-cious, though many calcilutites have an intermixture of clayey material. They correspond to the pelites among the silicious rocks. The purest calci-lutites have generally a compact structure with a con-choidal fracture.

calcimiric (kal-si-mir'ik), a. [calci(c) + m(agnesium) + ir(on) + -ic. Cf. *miric.] In petrog., equally calcic and miric, or nearly so; that is, having magnesia and ferrous iron in a ratio to the femic lime between the limits < \{ \frac{1}{3} > \frac{3}{3} : used in the quantitative system of classifying igne-

ous rocks.

calcination, n. 3. The reduction to ashes of combustible substances by burning; a turning into ashes by combustion. Bullokar.—4. A calcined state or condition. Lyell, Prin. of Geol.—5. A product of calcination, a calcinate. calcinatory, n. II. a. That is or may be used in the process of calcination: as, a calcinatory furnace.

calcine, v. t. 4. To consume by burning; burn to ashes.

Calcining the cities of Sodom and Gomorrah condemned them with overthrow. $Farrar, \ {\rm Early \ Days \ of \ Christianity, \ I. \ x.}$

5. To purify or refine by fire. -6. To desiccate by subjection to heat so as to destroy contained organisms, etc.: as, to calcine air.

—Calcining kiln, a kilu or furnace in which a metallic ore, as iron ore, is heated, with or without access of air, but without undergoing the reducing or deoxidizing action of the fuel tion of the fuel

calcine (kal'sin), n. [calcine, v.] Fragments of already burnt fire-clay vessels, as the saggars of porcelain manufacture, ground up and used in making new vessels, with addition of fresh fire-clay. Also chamotte. - Calcine plaster.

Calcinea (kal-sin'ē-ä), n. pl. [NL., < L. calx (calc-), lime, chalk, +-in-+-ea.] A subdivision of Calcarca, including sponges like the Clathrinidæ, having the form reticulate, triradiate spicules equiangular, collar-cells with

basal nucleus, and the larva a parenchymula. calcined (kal'sind), p. a. 1. Reduced by fire to powder or ashes.—2. Prepared by calcination: as, calcined magnesia; calcined ore.—3. Refined or purified by subjection to heat or the action of fire: as, calcined air.

calciner, n.—Brunton's calciner, a reverberating furnace for roasting tin ore, in which the bed of fire-brick rests on a cast-iron frame and is turned by power. The bed makes about 14 revolutions an hour, and the furnace has a capacity of from 2 to 2½ tous of ore in 24 hours. The calciner has been abandoued in many works.

calcino (käl-ehē'nō), n. [It.] A disease of silkworms, probably synonymous with the French museardine.

311111

Action of Action of States

It is a microscopic parasite, composed of white fungoid flocculi, analogous to the Botrytus or parasitic fungus that produces "calcino" in the silkworm.

Knowledge, Nov., 1904, p. 261.

calcioferrite (kal si-ō-fer ît), n. [calcium + ferr(ic) + -ite².] A hydrated phosphate of ferrie iron and calcium, occurring in from

yellow to green nodular forms.
calciothorite (kal'si-ō-thō'rīt), n. [calcium + thorium + -ite².] A thorium silicate from Norway. It is near thorite, but contains a

considerable amount of calcium.

calciovolborthite (kal*si-ō-vol'bôr-thīt), n.

[calcium + rolborthite.] A vanadate of copper and calcium, occurring in green or yellow tabular crystals and in gray granular masses.

calciphilous (kal-sif'i-lus), a. [L. calx (calc-), lime, + Gr. φιλείν, love.] Lime-loving: said of plants which grow chiefly or wholly in ealcareous soils.

calciphobous (kal-sif' \bar{o} -bus), a. [L. calx (calc-), lime, + Gr. $\phi o \beta c i v$, fear.] Averse to lime: said of plants which avoid calcareous

calciphyre (kal'si-fir), n. [L. calx (calc-), lime, + (por)phyr(ites), porphyry.] A calcareous



rock which has become recrystallized by metamorphism.

calcirudite (kal-sir'ū-dīt), n. [L. calx (calc-), lime, + rudus, rubble, + -ite². | In petrog., a term proposed by A. W. Grabau (1903) for a limestone or dolomite composed of broken or worn fragments of coral or shells or of limeworn fragments of corar of shorts stone fragments, the interstices filled with lime-sand or mud and with a lime cement. It corresponds to psephite among the silicious rocks. Cal-cirudites embrace rocks known as coral-, shell-, or limestone-breccia and conglomerate.

calcisponge (kal'si-spunj), n. [L. calx (calc-), lime, + spongia, sponge.] A sponge whose skeleton consists of calcareous spicules; one of the Calcarea.

calcitestaceous (kal'si-tes-tā'shius), a. [L. calx (calc-), lime, + testaceus, of a shell: see testaceous.] Having a shell of lime carbonate. Amer. Geol., April, 1903, p. 202.

Calcium acetate, a substance saved in large quantity as a by-product in the manufacture of wood-alcohol, and employed in making acetone, acetic acid, and the acetates of aluminium and iron used as dyers' mordants.—Calcium bicarbonate, a substance, Calig(CO₂₉). Calcium carbonate dissolves in much larger proportion in water containing carbon-dioxid gas or carbonic acid than in pure water. It is very commonly assumed that in the former case calcium acid-carbonate or bicarbonate is formed. Such a compound, however, cannot be obtained in a separate state; the solution, on being heated or simply exposed at common temperature, gives off carbon-dioxid gas, and normal ealcium carbonate separates in solid form. This separation occurs in the softening of some natural waters by boiling, in the production of one kind of scale on the interior surface of steam-boilers, and in the formation of stalactices in limestone caverns. A like calciumly, managements blue greatest blue caverns, and in the formation of stalactices in limestone caverns. A like calcium bisuphite, a salt of calcium prepared in solution by passing an excess of sulphur-dioxid gas into milk of lime, largely used in making paper-pulp from wood, as a means of preventing acid fermentation in the manufacture of cane-augar and in brewing.—Calcium carbide. This material is produced on a very large scale by applying the intense heat of an electric furnace to a mixture of anthractice or coke with limestone. The action of water on the product causes an abundant evolution of acetylene gas, which is used for illuminating purposes.—Calcium carbonate, a substance, often called carbonate of time, both found in nature (see calcite and limestone) and artificially prepared. It is of great industrial importance, and finds numerous applications, both mechanical and chemical.—Calcium chlorid, a waste-product on a large scale of the Solvay process for making carbonate of soda not to be confounded with chlorid of lime or bleaching powder. It is used in the scientific aboratory for

calc-nodule (kalk'-nod"ūl), n. [L. calx (calc-),

lime, + E. nodule.] A nodule of rock composed largely of lime carbonate.

calcoglobulin (kal-kō-glob'ū-lin), n. [Irreg. < L. calx (calc-), lime, + E. globulin.] A combination of an albumin with calcium salts formed during ossification. Rainey

calcographic (kal-kō-graf'ik), a. Same as calcographical.

calcosphæritic (kal*kō-sfē-rit'ik), a. [L. calx (calc-), lime, E. + sphærite + -ic.] Consisting of lime and spherical: used only in the following phrase.—Calcosphæritic body, a concretion some-times found in the mantle or other tissues of a pearl-pro-ducing mollusk, formed apparently by free crystallisation, and not, as a true pearl is formed, in a cuticular sac.

"Concretions" are, again, distinguished from pearla as calcosphæritic bodies which have not a cuticular origin from an epithelium, but seem to arise by free crystallisation in the markle or the tiesure. from an epithelium, but seem walls in the mantle or other tissues.

Nature, Jan. 22, 1903, p. 280.

calcrete (kal'krēt or kal-krēt'), n. [cal(careous) + (con)crete.] A calcareous mass of considerable size formed on the sea-bottom by calcareous incrusting Polyzoa which cement the sand and other loose material together.

the sand and other loose material together.

In the Gull of Manaar, calcareous masses ("calcretes") of great extent are formed in situ on the sea-bottom by the cementing of sand and other loose material by calcareous incrusting Polyzoa.

Nature, Oct. 22, 1903, p. 614.

calc-sac (kalk'sak), n. [L. calx (calc-) + E. sac.] Same as dart-sac. Proc. Zool. Soc. Longery 247

sac.] Same as dart-sac. Proc. Zool. Soc. London, 1895, p. 247. calcular (kal'kū-lär), a. [calculus + -ar³.] In

math., of or pertaining to a calculus or algorithm

calculational (kal-kū-lā'shon-al), a. [calculation + -al^I.] Used in calculations.

Knowing well the numerical value and calculational quantity of π .

Piazzi Smyth, Gur Inheritance, I. ii.

quantity of m. Piazzi Smyth, the Inheritance, I. ii. calculator, n.—Bar calculator, any one of a class of computing-machines (rarely performing more than addition and subtraction) in which movable bars bearing inscribed numbers are caused by prescribed movements to actuate dials or figure-wheels in a manner that Indicates totals or differences.—Single-axis calculator, a sliding-rule mechanism in which the numbered scales are rotated on a single supporting axial shaft or journal, according to a prescribed system. See sliding rule.

calculifrage (kal'kū-li-frāj), n. [L. calculus, a little stone, + -fragus, < frangere, break.]

Same as lithotrite.

calculist (kal'kū-list), n. [calculus + -ist.] A computer or calculator.

Mathesis, of which it has been said, many a great Calculist has not even a notion.

Carlyle, For. Itev. and Cont. Misc., Iv. 138. N. E. D.

calculograph (kal'kū-lō-grāf), n. [Irreg. < L. calculare, calculate, + Gr. γράφειν, write.] An apparatus for recording elapsed time, consist-calculare, talculare, calculate, + Gr. γράφειν (with the calculare) (kal-en-dā'ri-an), a. and n. [calculare] (calculare) (calcul ing essentially of a clock combined with two ing essentially of a clock combined with two printing-stamps operated by means of levers. To record the number of hours and minutes between the beginning and the end of any piece of work or other operation, a card is inserted in the apparatus and hy a movement of the first lever is stamped with the exact time at that instant. On the completion of the work the same card is inserted in the apparatus and the second lever is moved, when the card is stamped with the elapsed time, or the difference in hours and minutes between the two printings on the card. In place of the actual elapsed time, the apparatus may be used to record the money value of the time, expressed in dollars and cents, according to any predetermined ratio.

expressed in donars and cents, according to any predetermined ratio.

Calculus, n.—Alternating calculus, a urinary calculus
formed of successive layera of differing chemical composition.—Alvine calculi. See *alvine.—Calculus of
extension, a special algebra invented by Grassmann for
space-analysis.—Coral calculus, a calculus formed in
the pelvis of the kidney, with branches extending into the
calyces.—Directional calculus, or calculus of pleasure, a systematic method of deducing consequences from
assumed principles of economics and ethics by exact reasoning, so as to take advantage of mathematical results
concerning continuous variations wherever such results
are germane. Such a calculus exists, and its results have
sometimes been of value; but great caution is needed in
interpreting results. Of course, as in the less difficult
problems of bridge-building, the steam-engine, and the
like, no such calculation can take into account all the
features of an actual situation.—Hemp-seed calculi,
renal calculi of small size and smooth exterior, formed of
calcium oxalate.—Sect calculus, a geometric algorithm
for sects; a graphic algebra for pieces of straight lines.

He constructs a sect Calculus in which he shows that

He constructs a sect Calculus in which he shows that the theory of proportion can be founded without the intro-duction of irrational numbers.

J. W. Withers, Euclid's Parallel Postulate, p. 56. calcumeter (kal-kū'me-ter), n. [Irreg. < L. calculate), calculate, + Gr. μέτρον, measure.]
An adding-machine which has a perforated plate supporting stationary dials superimposed over movable dials operated with a stylus. Engin. Mag., July, 1904, p. 611.

caldarium (kal-dā'rī-um), n.; pl. caldaria (-ä).
[L., also calidarium, < calidus, caldus, hot: see calid.] 1. The Roman name for a stove or heating apparatus.-2. A room in the Roman thermæ, or public baths, in which water was heated to the highest temperature. See bath1, 5.

calderilla (käl-de-rēl'yä), n. [Sp., dim., also a holy-water pot, dim. of caldera, a kettle.] A Spanish copper coin, the cuarto; also, any copper coin current among Spanish-speaking people.

calderite (kal'de-rit), n. A massive iron-garnet from India.

caldron-bottom (kâl'dron-bot"um), n. fossil remains or cast of the trunk of a plant of the genus Sigillaria which have remained vertical above or below a coal-bed.

Caldwell's crucible, extractor. See *crucible, *extractor.

calean (kä-lē-ān'), n. [Also callean, kalcan, etc. Pers. qaliyān, also qaliyān, whence E. caleoon.] The Persian 'waterpipe' otherwise known as narghile.

calendal (kal'end-al), a. [calend + -al1.] Relating to the calends: as, the most ancient calendal system.

lating to the calends: as, the most ancient calendal system.

Calendar year, the year as given in the accepted or legal calendar, namely, at present, the interval between midnight of December 31-January 1 and the same hour a year later. The beginning of the calendar year has varied widely in different countries and at different times. For many years before 1751 it began in England on March 25. In 1751 a legal enactment placed the beginning at January I, in accordance with the usage then prevalent in most other Christian natious.— Greek calendar. The Greek year was lumar, and consisted of 12 months of 29 or 30 days each—354 days altogether, 11 days short of the solar year. To establish some correspondence between the lunar and solar years, every third, sixth, and eighth year an extra month of 29 or 30 days was inserted, bringing those years to the excessive number of 383 or 384 days. The month itself was divided into three periods of 10 (or 9) days each.—Mexican calendar, a combination of an astrological and solar calendar which was in use in Mexico and Yucatan in pre-Columbian times. The days were arranged in groups of 20, each day heing designated by the name of an object. There were thirteen numbered periods of this kind, giving an astrological period of 200 days, called tonalamalt in Mexico, chol kin in Guatemala, and kin katun by the Maya. Eighteen periods of 20 days each fill the solar year. While the 300 days were all assigned to certain deities, the 5 remaining days were not so assigned, and were considered unlucky. According to this system the same combination of name and number for the first day of the year occurs every 52 years.—Perpetnal calendar, a calendar with movable parts, which can be easily adjusted so as to be correct for any date, past, present, or future.

Calendarer (kal'en-där-ér), n. One who calculars or who registors or enters in a calendar or

calendarer (kal'en-där-ér), n. One who calendars, or who registers or enters in a calendar.

To a calendarer the work of writing a Preface must be something like a holiday in Switzerland to an overworked lawyer.

S. R. Gardiner, Academy, Jan. 29, 1881, p. 74. cndar + -ian.] I. a. Of or pertaining to the calendar: as, calendarian festivals.

II. n. A calendar-maker.

calendaric (kal-en-dar'ik), a. Same as calen-

One of the most interesting features of aboriginal culture to the scholars of the world is the series of highly developed calendaric systems extending from Mexico on the north to Peru on the south.

Smithsonian Rep., 1900, p. 67.

calendarium (kal-en-dā'ri-um), n.; pl. calendaria (-ā). [L.] 1. A calendar.—2. An apparatus for showing the variations in the temperature of the air; specifically, the large, crude air-thermometer first erected in the open air by Otto von Guericke, about 1655, at Magdeburg.

calender-house (kal'en-der-hous), n. An establishment where calendering operations are carried on; a calendry.

calender-mill (kal'en-der-mil), n. A calendering-machine.

calender-roll (kal'en-der-rol), n. Same as *calender-roller.

calender-roller (kal'en-der-ro"ler). n. A compression-roller used on textile-machinery to smooth and condense the fleece, lap, sliver, or fabric.

calendry (kal'en-dri), n.; pl. calendrics (-driz).
An establishment where the process of calen-

dering is carried on: same as calender¹, 2. calends, n. pl. 3†. In some translations of the Old Testament, the Jewish festival of the new moon.

David seide to Jonathan, Loo! Kalendis ben to morwe, Wyclif, 1 Sam. xx. 5.

4. A calendar or orderly record, primarily of dates, but also sometimes of other facts.

For cternity. Measured by ages limitless to man,
Has intervals and periods of bliss
And high recurring festivals that stand
On the sidereal cadends mark'd in light,
Bickersteth, Yesterday, To-day and Forever, xii. 317.

While our enemies expect to see the expectation of the Church tired out with dependencies and independencies, Church tired out with dependencies and macro-how they will compound and in what calends.

Milton, Divorce.

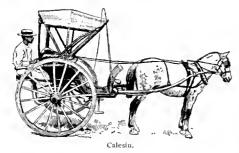
calentural (kal'en-tū-ral), a. | [calenture +

calentural (kal'en-ţū-ral), a. [calenture + -all.] Relating to or of the nature of a calenture. Carlyle.
calenture, n. 2. Figuratively, fever; burning passion or zeal; heat: as, the "calenture of primitive devotion," Jer. Taylor; "the calentures of baneful lust," Bp. Ken.
caleoon (kā-lē-ōn'), n. [Also kalioun; ⟨ Pers. qaliyūn, var. of qaliyūn]. Same as *calean.
calepine (kal'e-pin), n. [Also calepin, calapyne; ⟨ F. calepin, ⟨ Calepin, ⟨ It. Calepino, NL. Calepinus, ⟨ Calepio, a town in Italy (see the def.).]
1. A dictionary; one's main dictionary or book of reference: in allusion to a polyglot book of reference: in allusion to a polyglot dictionary originally compiled by Ambrogio Calepino, an Augustine friar. It was first printed in 1502, and constituted, in many enlarged editions, one of the lexicographic standards of the sixteenth century. An edition in one huge volume, published in 1500 and 1605, included eleven languages in its scope, English being the very last, after Ilungarian and Polish.

Taxations, monopolies, tolls . . . and such impositions as would trouble many calepines to give names unto.

Drummond of Hawthornden, Magic Mirror, p. 174.

calescent (ka-les'ent), a. [L. calescens, ppr. constock, Manual of Inseets, p. of calescere, grow warm, inceptive of calere, calico-ball (kal'i-kō-bàl"), n. A be warm.] Increasing in warmth; growing the ladies are gowned in calico. warm.



calesin (kä-lā-sēn'), n. [Sp. dim. of calcsa; see ★calcsa] In the Philippine Islands, a two-wheeled ehaise or gig.
calesso (kä-les'ō), n. [It.: see calash.] A modern Italian two-wheeled gig with a bow

top.

calf1, n.—Golden calf, the idol made by Aaron which the Israelites worshiped (Exod. xxxii), or either of the two similar idols which Jeroboam placed, one at Bethel, and the other at Dan (I Ki. xli. 28, 20); figuratively, wealth regarded as an object of undue regard.—In calf, bound in calf.—Ooze calf, leather which is given a plush-like finish on the flesh side.

calf2, n. 2. The part of a stocking which covers the calf of the leg.

calf.kill. n. 2. Leucothoë Catesbæi, a shrub

covers the ealf of the leg.

calf-kill, n. 2. Leucothoë Catesbæi, a shrub of the southern Alleghanies, poisonous to cattle and sheep. Also ealled *dog-hobble* (which see).—3. The velvet-grass, Holcus lanatus.

calf-lymph (kät'limf), n. The lymph, used in vaccination, obtained from ealves.

calhun (kal' hön), n. [Aboriginal name in Queensland.] Same as blue *fig.

Caliban (kal'i-ban), n. [A name either borrowed or formed by Shakspere, prob. originating in canibal, cannibal.] In Shakspere's play "The Tempest," a "savage and deformed" slave of Prospero, represented as the offspring of the devil and the witch Syeorax; hence, figuratively, a person of a low, bestial hence, figuratively, a person of a low, bestial naturé.

calibrater (kal'i-brā-ter), n. [calibrate + -er1.] An instrument for determining the caliber of any tube, specifically, in pathol., the ealiber of

the urethra or of its orifice.

Calibration of anemometer, calibration shunt. See *anemometer, *shunt.

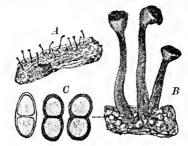
calibration-chamber (kal-i-brā'shon-ehām"-

ber). n. A small vacuous bulb at the top of the stem of a normal mercurial thermometer, in which a part of the mereury may be stored

temporarily to facilitate ealibration.

Caliciales (ka-li-si-ā'lēz), n. pl. [NL., < Calicium + -ales.] An order of discolichens having crustaceous thalli and usually stipitate black apothecia. See *Calicium.

5. An appointed day; a day set for the pay-caliciform, calicinal, calicinated, calicinement of a debt or the payment of interest due. See calgetform, calgoinal, *calgoinated, calgoinated, See calyciform, calycinal, *calycinated, calycinc.



Calicium hyperellum.

A, a number of plants showing the habit of growing on decaying wood; B, three fruiting bodies; C, spores. (From Engler and Prantl's "Pfanzenfamilien.")

Calicium (ka-lis'i-um), n. [NL. (Persoon), ⟨L. calix (calic-), a cup.] A genus of crusta-ceous lichens of the order Caliciales, having black stipitate, gregarious apothecia and twoeelled dark-colored spores. The species are widely distributed, occurring chiefly on the bark of trees.

calico disease, marble. See mosaic *disease,

2. A memorandum-book; a note-book.

calesa (kä-lā'sā), n. [Sp. See calash.] A calico-aster (kal'i-kō-as"ter), n. See **asær-.

springless one-horse vehiele with a bamboo body, used in the Philippine Islands.

calescent (ka-les'ent), a. [L. calescens, ppr. Comstock, Manual of Insects, p. 145.

calico-ball (kal'i-kō-bâl"), n. A ball at which

calico-bird (kal'i-kō-berd), n. Same as cali-

calicoblast (kal'i-kō-blast), n. [L.calicolast (kai 1-kg-blast), n. [11. cana (calic-), eup, + Gr. $\beta\lambda a\sigma\tau \delta \varsigma$, germ.] One of the cells of ectodermic origin which secrete the caleareous partieles of the skeleton in An-

calico-bug (kal'i-kō-bug), n. The harlequin cabbage-bug. See cabbage-bug. calico-flower (kal'i-kō-flon"er), n.

Same as calico-bush.

calico-jacket (kal'i-kō-jak"et), n. Same as calico-back and *calico-bird.

calico-salmon (kal'i-kō-sam"un), n. A name in Alaska of the dog-salmon, Oncorhynchus keta, in allusion to its mottled coloration in the summer, the body being silvery with reddish blotches and obscure blackish crossbands.

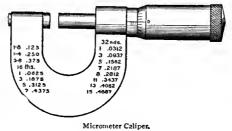
calicular. See calycular.

caliculated, a. See calyculated. calidarium (kal-i-dā'ri-um), n. See *caldarium. califal, caliphal (kā'lif-al), a. [calif + -al.] Of or pertaining to a calif.

California alder, black walnut, etc. See *nlder1, black *walnut, etc.—Californian centaury. Same as canchalagua.

californite (kal-i-fôr'nīt), n. [California + -ite2.] A compact, massive variety of vesuvianite, of an olive-green to grass-green color, resembling some kinds of jade. It is found in

measuring the diameter of trees or logs. It usually consists of a graduated beam to which are attached one fixed and one sliding arm.—Combination caliper, a cali-per the legs of which are pivoted at or near the center, one end being used for inside and the other for outside meas-



urements. Usually the pivot is midway between the points of the two ends, so that if an outside measurement be made with one end, the other end will be set to an equal inside dimension.—Compass caliper, a two-legged jointed tool having one leg curved as in a caliper, the other straight as in a compass, and pointed. It is used for scribing lines from the edge or outline of a piece of work, the curved leg being slid along in contact with the edge, while the point of the straight leg draws a line parallel therewith; a scriber.—Double calipers, calipers having secondary legs pivoted to the end of the first pair of legs.—Micrometer caliper, an instrument for measuring thickness (as of wire or sheet-metal) with precision.—Spherometer caliper. See *spherometer.

calipeva, callipeva (kal-i-pē'vā), n. [Also calipecver, callipiver, etc.: appar. from a native

calipecver, callipiver, etc.: appar. from a native name.] A mullet, Mugil curema, found in the West Indies.

Calippic cycle. Same as Calippic period (which

see, under Calippic.)
calk¹, caulk (kåk), n. [calk¹, v.] A calking; in a slang use, a surreptitious nap; a snooze.

It was my middle watch and I was signal man at the time, so of course I had no time to take a caulk if I was inclined.

Marryat, Peter Simple, p. 284.

calkage (kâ'kāj), n. Naut., oakum, cotton fiber, or other material used in calking the seams of a vessel's planking.

calking-boot (kâ'king-böt"), n. Same as *calk-

calking-iron, n. 2. A broad-bladed, dulledged ehisel used in driving waterproofing material between the cracks of a stone sidewalk. calking-roll (kâ'king-rôl), n. A horse-boot used to prevent a horse from calking himself. It consists of a heavy leather disk which surrounds the horse's ankle and is secured to it by straps and buckles. calking-strip (kâ'king-strip"), n. A strip of malleable sheet-metal interposed between the body of a wrought- or cast-iron structure and

a east-iron piece attached thereto, which can be upset into the joint by hammering on its edge to make a tight joint. Its employment is rendered necessary by the impossibility of calking the castion itself. Calking-strips are used between boiler-shelfs and the flanges of brittle cast-iron manhole, safety-valve, and stop-valve seatings.

and stop-valve seatings.

Call¹, n.—A close call, a narrow eacape. [Colloq.]—
Adjutant's call. See *adjutant.—Call ball-andpocket. See *call game.—Call game, in billiards, a
game in which the striker must name the balls as well as
the mode of play before his shot. In pool the ball is now
called but not the pocket, unless by agreement in special
contests or in the opening shot of some games.

calla, n.—Wild calla, the spoon-flower, Peltandra sagittæfolia.

sagittæfolia.

callais (kal'ā-is), n. [Gr. κάλλαῖς, or κάλαῖς, a precious stone of a greenish blue, thought to be turquoise.] A blue- or yellow-green variety of gem found in prehistoric graves of England. It is identified with turquoise, discolored either before or after burial before or after burial.

callapa (kä-lyä'pä), n. [Native name in Bolivia.] A double, long, flat-bottomed raft with low sides, made of balsa-wood, much in use on the streams of the india-rubber districts of central South America. It will accommodate a considerable cargo and is the only craft still used on the smaller rivers of the Beni region in Bolivia.

call-circuit (kâl'ser*kit), n. See *circuit.

call-duck (kâl'duk), n. A decoy-duck.

Call-duck (kâl'duk), n. A decoy-duck.
Callechelys (ka-lek'ē-lis), n. [NL. for *Callenchelys, < καλλ(ι-), beautiful, + ἔγχελυς, an eel.] A genus of snake-eels of the family Ophichthyidæ, comprising a few species widely distributed in tropical seas.

callesthetical (kal-es-thet'i-kal), a. esthetic: as, callesthetical truth. Also callæs-thetical. H. Whewell.

thetical. H. Whencell.

Callianassa (kal-i-a-nas'ä), n. [NL., ⟨ Gr. καλλι-, beautiful, + ἀνασσα, queen.] The typical genus of the family Callianassidæ. C. Stimpsoni is found in deep burrows along the eastern coast of the United States. Leach, 1814.

Callianassidæ (kal-i-a-nas'i-dē), n. pl. [NL., ⟨ Callianassidæ (kal-i-a-nas'i-dē), n. pl. acrurous decapod crustaeeans, having the carapace laterally compressed, the rostrum small or absent, only thoracic gills, and the external maxillipeds operculiform. The typical genus is Callianassa. is Callianassa.

as Callianassa. callianassoid (kal-i-a-nas'oid), a. [Callianassoid (kal-i-a-nas'oid), a. [Callianassa+-oid.] Resembling or having the form of the Callianassidæ.

Calliclinus (kal-i-klī'nus), n. [NL., ζ Gr. καλλ-, beautiful, + NL. Clinus.] A genus of blennies, found in tropical seas.

calligrafy, n. A simplified spelling of callig-

calligraph (kal'i-graf), n. 1. One skilled in the art of beautiful writing; a calligrapher.—
2. A transcriber of manuscripts.—3. A specimen of beautiful penmanship.

calligrapher, n. 2. One whose business is the transcribing of manuscripts.

l would have taught him in three weeks a firm, current, clear, and legible hand—he should have been a calligrapher.

Scott, Guy Mannering, xv.

Calliopsis (kal-i-op'sis), n. [NL. (Reichenbach, 1824), \langle Gr. καλλι-, beautiful, + δψις, appearauce.] 1. A former genus name of a group of plants of the family Asteraceæ, now referred to Corcopsis.—2. [l. c.] A popular name of various cultivated species of Corcopsis, especially C. tinctoria (Calliopsis marmorata of florists) and C. lanceolata.

callisthenical (kal-is-then'i-kal), a. [callis-thenic + -al.] Fond of callisthenic exercises;

practised in callisthenies.

callithump (kal'i-thump), n. callithump (kal'i-thump), n. [See attenum-pian.] A charivari (which see). [U. S.] callithump (kal'i-thump), n. t. To treat to a callithumpian concert. [U. S.] Callitrichaceæ (ka-lit-ri-kā'sē-ē), n. pl. [NL. (Lindley, 1836), Callitriche + -accæ.] A fam-

ily of dicetyledonous achlamydeous plants of the order Geranialcs, the water-starwort family, containing the genus Callitriche only (which see).

callitrolic (ka-li-trol'ik), a. [Callitris + -ol + -ic.] Obtained from Callitris quadrivalvis.—Callitrolic acid, an amorphous acid, C₃₀II₄₈O₅, obtained from sandarac.

callitypy (kal'i-ti-pi), n. [Gr. καλλι-, beautiful, + τύπος, type.] A method of forming connected lines by a type-writing machine, applicable to the production of music and other forms of difficult type-setting.

The comparatively difficult and expensive kind of type-composition known as intersecting-rule and rule-and-figure work, which has always been a stumbling block to line-casting and type-setting machines, seems to be the destined particular field of callitypy.

Sci. Amer., Sept. 26, 1903, p. 222.

Calliurus (kal-i-ū'rus), n. [NL., ⟨Gr. καλλι-, beautiful, + οἰρά, tail.] An obsolete name of the black bass of the family Centrarchidæ.

Callocystites (kal"ō-sis-tī'tēz), n. [NL., Gr. κάλλος, beauty, + κύστις, a bladder, + -ίτης, -ίτε².] A genus of Cystoidea having four pinnulate arms, three or four pairs of pore-rhombs, and a short tapering stem. It is characteristic of the Upper Silurian of North America. call-office (kāl'of'is), n. In telephony, an office or courted station where the call involved to the contraction of the co office or central station where the call-signals from the various telephones of the system are received and transmitted, and where the connections necessary to intercommunication are

made.

Callogobius (kal-ō-gō'bi-us), n. [NL., ⟨Gr. καλλι-, beautiful (κάκλος, beauty), + L. gobius, goby.] A genus of small gobies found in the East Indies.

callomania (kal-ō-mā'ni-ā), n. [NL., ⟨Gr. κάλος, beauty, + μανία, madness.] Excessive love of beauty.

love of beauty.

calloo (ka-lö'), n. [So called from the sound of its evening call.] The oldwife or long-tailed duck (Harelda glacialis) of the arctic

regions. See Harelda.

Callorhynchus (kal-ō-ring'kus), n. [NL., ζ Gr. καλλι-, beautiful (κάλλος, beauty), + ρύγχος, snout, beak.] A genus of chimæras found in the antaretie seas. The common species is C. Callorhynchus. It ranges northward to Peru.

Callosal fissure. See *fissure. callosity, n.—Sternal callosity, a thickening and hardening of the skin beneath the hreast-bone, occurring in animals that habitually rest upon the breast, notably the camel and ostrich.

Callovian (ka-lō'vi-an), a. and n. [NL. Cal-Callovian (ka-lō'vi-an), a. and n. [NL. Callovia, E. Kellocays.] In gcol., noting a division of the Jurassic system, derived from Kelloways in Wiltshire. The term is not as much in use in Great Britain as on the continent of Enrope, where it is applied to beds generally regarded as equivalent to the lower part of the Oxford Clay and the Kelloways Rock. In France the Callovian is divided into a lower and an upper (Divesian) division, and its position in the Jurassic series is below the Oxfordian and above the Bathonian, lying at the base of the Middle Oölite.

callow1, n. 2. In cntom., an insect just emerged from its cocoon: especially applied

emerged from its cocoon: especially applied

to ants.

The queen manifestly recognized the odor borne by the callows, and at once anuggled with them. They each recognized in her and in each other the only ant-odor they had ever known, that of their own bodies.

Biol. Bulletin, Oct., 1904, p. 231.

The slip used by a reader or borrower in a library, in calling for a book or books. It is a blank form with spaces for the name and address of the borrower (or the number of the borrower's cardy, the shelf-number, a brief title of the book called for, the date, etc.

callum (kal'um), n.; pl. calla (-\(\frac{a}{a}\)). [L. callum, a callus: see callus.] In the burrowing pelecypod mollusk Pholas, a calcareous septum secreted after the completion of the burrow

and occupying the pedal gape of the valves.

callunetum (kal-ū-nē'tum), n. [Calluna, heather, +-ctum.] In phytogeog., a formation consisting of heather, Calluna vulgaris.

callus, n.—Definitive or permanent callus, material exuded between the ends of a broken bone, which later is converted into true osseous tissue.—Provisional or temporary callus, callus thrown out around the ends of a broken bone and in the medullary cavity, which serves as a splint and is later in great part or wholly absorbed sorbed.

callutannic (kal-ū-tan'ik), a. [Callu(na) + tannic.] Derived from Calluna vulgaris, and having a tannic relation.—Callutannic acid, an amorphous compound, C₁₄H₁₄O₉(?), obtained from Calluna vulgaris.

all-wire (kâl'wīr), n. In telephony, a wire over which call-signals between the call-office or central station and any individual instrucall-wire (kâl'wīr), n. ment or between individual instruments are transmitted; a call-circuit.

calm¹, n.—Calms of Cancer, the region of high pressure and light wind under the greater part of the tropic of Cancer in the Atlantic and Pacific oceans, but a little north of it over the eastern and western continents. On the Atlantic Ocean this calm region was known to the early English navigators as the horse latitudes.

Calomel electrode. See *clectrode.
Calonectria (kal-ō-nek'tri-ā), n. [NL. (De Notaris), ζ Gr. καλός, beautiful, + Nectria, a genus of fungi.] A genus of pyrenemyeetous fungi having membraneus, bright-colored perithecia and mostly two or more septate, hyaline spores. C. pyrochroa is said to cause the death of young leaves of the sycamore, Platanus occidentalis.

young leaves of the sycamore, Platanus occidentalis.

calool (kä-löl'), n. [Aboriginal name in northern New South Wales.] An Australian tree, Stcreulia quadrifida. See Sterculia, 1.

Caloric theory of heat. See heat.

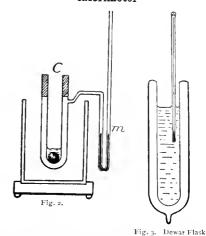
Calorific capacity, the capacity of a body for heat, usually expressed in calories per degree centigrade; thermal capacity.—Calorific intensity, the heating effect of a fuel, expressed by means of the temperature that may be attained from it by complete combustion. Also called pyrometric effect.—Calorific power, the quantity of heat, in gram-calories, obtained by the complete combustion of a gram of a fuel; heat of combustion.—Calorific valus, the heat-value; the calories or thermal units contained in one unit of the substance, and released when it is burned. calorifier (ka-lor'i-fi-er), n. An apparatus fer

calorifier (ka-lor'i-fi-èr), n. An apparatus fer heating fluids.

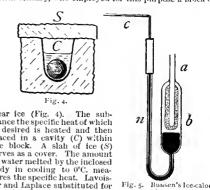
calorifier (ka-lor'i-fi-èr), n. An apparatus for heating fluids.
calorify (ka-lor'i-fi), v. t. [L. calor, heat, + -i-fy.] To make hot; affect with heat.
calorimeter, n. The calorimeter is used to determine, in thermal units, the heat liberated or absorbed in the course of any physical or chemical process, such as change of temperature, change of state, the solution of a solid in a liquid, the mixture of liquids, chemical action, or any mechanical, electric or magnetic process luvolving transformations of energy. The thermal unit almost universally employed is the calory, that is, the amount of heat required to raise one gram, or sometimes one kilogram, of water from of C. to 1 °C, but other thermal quantities, the relation of which to the calory is definitely known (such as the heat of fusion of ice, or the heat of vaporization of water), are sometimes used. For the determination of specific heat the calorimeter commonly consists of a metal vessel, the water-equivalent of which is known, containing a known quantity of water of known temperature. The aubstance the specific heat of which is to be determined is weighed, heated to some carefully measured higher temperature, and plunged into the water, and the change in the temperature of the latter is observed. The most serious error in this operation is that arising from the exchange of heat between the calorimeter and its surroundings, and numerous devices have been employed to reduce this error to a minimum. For this purpose the calorimeter (C) is sometimes suspended within an outer chamber (a, o) hy non-conducting supports as shown in Fig. I. The outer surface of the containing-vessel, both of which are metal, are highly polished in order to diminish radiation. In the Waterman

ner surface of the containing-vessel, both of which are metal, are highly polished in order to diminish radiation. In the Waterman calorimeter the substance to be tested is heated in a vessel surrounded by a coil of wire through which an electric current flows. It is then placed in a cup (C, Fig. 2) with double walls, which serves as the hulb of an air-thermometer. Ice-cold water is added in quantity just sufficient to counterbalance the rise of temperature. The mercury column in the manometer tube (m) indicates the temperature of the cup. Much more perfect isolation may be obtained by using as a ealorimeter a bewar flask. This consists of a glass vessel (Fig. 3) with double walls, from the space between which the air has been carefully removed. The outer surface of the inner flask and the interior of the outer one are silvered. The exchange of heat under these conditions is exceedingly slow, and such flasks form excellent calorimeters. The determination of specific heata by means of

calorimeter



the fusion of ice was first suggested by Black, in the eighteenth century, who employed for this purpose a block of

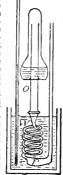


clear ice (Fig. 4). The substance the specific heat of which is desired is heated and then placed in a cavity (C) within the block. A slah of ice (S) serves as a cover. The amount of water melted by the inclosed hody in cooling to 6°C, measures the specific heat. Lavoisier and Laplace substituted for Black's ice-block a calorimeter consisting of an inner cage containing the body to be tested, surrounded by a double-walled vessel packed with broken ice at the melting-point. The ice melted by the heat liberated from the cooling body was collected and weighed. In Bunsen's ice-calorimeter the amount of ice melted is determined by the change in volume which that substance undergoes when converted into the liquid form. The apparatus, which is shown in Fig. 5, consists of an inver tube of glass (a) sealed into a larger vessel of the same substance (b), the neck of which (n) is bent unward and ends in a horizontal capillary tube (c). The upper portion of the onter vessel surrounding the tube a is tilled with water, below which is mercury extending continuously through the neck into the capillary tube. By means of a freezing-mixture in a, a mantle of ice is formed around the outside of the inner tube, after which the freezing-mixture is removed and the whole apparatus is packed in melting ice. If now a body the specific heat of which is to be determined is introduced into a, a portion of the ice-mantle will be melted, and, in consequence of the diminution of volume, the mercury column in the capillary tube will recode toward the neck of the calorimeter. Its movement affords a measure of the volume of ice melted, and thus of the heat liberated by the cooling body. The Bunsen ice-calorimeter is an instrument of great delicacy and is specially adapted for the measurement of very small quantities of heat. Unfortunately, the density of the ice depends somewhat upon the rapidity with which it is formed, and considerable errors are thus introduced. The heat of vaporization of water has been utilized by Joly and others for calo



Fig. 6. Continuous-flow Calorimeter of Callendar and Barnes.

capillary tuhe (AB) connecting at the ends with larger tubes and sealed into a glass vacuum-jacket. The liquid the specific heat of which is to be determined enters the tube at i and flows out at o at a measured rate. By means of a fine wire stretched through the bore of the capillary tube and supplied with a known electric current, heat is imparted to the liquid. The temperatures of the inflowing liquid at A and of the outflowing liquid at B are de-



termined by means of the resistance of coils of platinum wire inserted in the larger (tubes. From the amount of liquid passing in a given time and the amount of heat delivered to it electrically from the heating-wire, together with the difference of temperature at the ends of the tube, the specific heat of the liquid can be determined with great accuracy. For the determination of heats of combustion, heats of solution, and other thermochemical processes, a number of special forms of calorimeter have been devised. Among these are the Favre and Silberman calorimeter, in which the heat of a chemical reaction is imparted to mercury contained in a bulb with a capillary neck, and the expansion of the liquid is noted; the Junker calorimeter and the bomb calorimeters of Berthelot and Stohman, for the study of heats of combustion: and the respiration calorimeter, for the determination of the heat electrical animals only any man subjects. Others with the set of the control of the liquid in the vessel, the worm (ar) for condensing the vapor formed by the cessel with central outlet-tube (e) connecting with a glass worm (ar) for condensing the vapor formed by the evaporation of the liquid in the vessel. The worm and receiver (r) for the condensed vapor are submerged in a water-bath, the rise of temperature of which is noted. (b) A form of bomb calorimeter for the determination of the heat of combustion. See Acalorimeter.—Respiration calorimeter, a calorimeter for measuring the heat given of by a man or other animal, with appliances for respiration which awe carried away in the ventilating current of air may be measured: or the carbon dioxid and water-vapor of respiration may be absorbed and removed and a measured quantity of the water of investigations at Wesleyan University, Middletown, Comnecticut, to verify the law of conservation of energy in the human body. Such a test involves a determination of the total energy tree with the service of investigation of the conservation of energy in the human body. Such a test involve

Calorimetric bomb. Same as *explosion-bomb. caloripuncture (kal "ō-ri-pungk' tūr), n. [L. calor, heat, + punctura, puncture.] Same as ignipuncture.

caloristic (kal-ō-ris'tik), a. [calorist + -ie.] Of or pertaining to the calorists, a school of physicists, chiefly of the eighteenth century, who assumed as the basis of their theory of heat the existence of au imponderable fluid called caloric.

caloritropic (kal "ō-ri-trop'1k), a. [L. calor, heat, + Gr. τρόπος, a turn: see tropic.] Same as thermotropic. Klercker.

caloritropism (kal-ō-rit'rō-pizm), n. [calori-trop-ic + -ism.] Same as thermotropism.

Klercker.

calorizator (kal/ō-ri-zā'tor), n. [L. calor, heat, + ize + -ator.] A cylinder, used in the dif-calumba, n.—American calumba, Same as American columbo (which see, under columbo). beets, which serves to warm the juice to the calumbin (ka-lum'bin), n. Same as columbin, proper temperature in passing from one diffu- calumny, n.—Oath of calumny. See *oath.

of Indust. Chem., p. 139.

calory, n.—15° water calory, a calory in which the water used as a standard of thermal capacity is taken at 15° C., mean temperature, and the thermometric scale is that of the hydrogen thermometer.—Gram-calory. See lesser *calory.—Greater calory, the quantity of heat necessary to raise a kilogram of water from 0° to 1° C.; 1,000 gram-calories.—Kilogram calory, and of the designated is that necessary to raise one kilogram of water 1° C. Usually called a large or greater calory as distinguished from the gram-calory or lesser calory.—Lesser calory, the quantity of heat necessary to raise a gram of water from 0° to 1° C. Also called small calory and gram-calory. See calory.—Ostwald calory, the amount of heat required to heat one grum of water from the freezing-point to the boiling-point: a unit called by ostwald the rational calory, which is nearly equal to one hundred common calories.

Calosoma, n.—Copper-colored

Calosoma, n.— Copper - colored Same as *copper-spot

Calosphæria (ka-lō-sfē'ri-ā), n. [NL.(Tulasne), $\langle Gr.\kappa a \lambda \delta c$, beautiful, $+ \sigma \phi a i \rho a$, sphere (cf. Sphæria).] Agenus of pyrenomyce-tous fungi having the perithecia arranged in groups beneath the outer bark of the host. The spores are one-celled, hyaline, and sausage-shaped. About 35 species have been described. C. princeps is common on the cherry and plum in Europe and America.

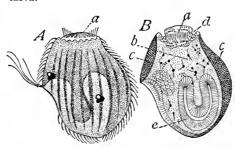
ica.

Calostoma (ka-los'tō-mā), n. Calostoma lutescens.

[NL. (Desvaux), ⟨ Ġr. καλός, A fruiting body beautiful, + στόμα, mouth.] A showing the habit rigenus of terricolous puffballs (From Engler and of the order Lyeoperdales, hav-Prant's "Pfanzening the peridium at the apex of a stalk composed of interlaced strands of calotinus bush and a variable way received.

gelatinous hyphæ and opening by means of a stellate mouth which is bright-colored in one species, C. cinnabarinum.

calotte, n. 6. In geal., an ice-cap or a glacier covering a large land area. J. Geikie, The Great Ice Age, p. 711.—7. In zoöl.: (a) The pole of attachment of Dicyemidæ which are parasitic in the kidneys of certain cephalopods; the polar cap. (b) In Polyzoa, a retractile disk formed at the aboral pole in the developing



A, Larva of Bugula plumosa; B, Sagittal Section of Larva of Bugula (diagrammatic). a, calotte or retractile disk; b, parenchyma; c. corona; d, ectodermal groove; c, sucker, (From Parker and Haswell's "Zoology," after Korschelt and Heider.)

calotypic (kal-ō-tip'ik), a. [calotype + -ic.] Of or pertaining to a calotype picture: as, calo typic impressions.

calpicarpum (kal-pi-kär'pum), n. [NL. (G. Don, 1838), ⟨Gr. κάλπις, pitcher, urn, + καρπός, fruit.] A genus of dicotyledonous plants of the family Apacynaccæ. The truit consists of two obovoid, obliquely quadrate, corisceous, or somewhat fleshy carpels. See Kopsia.
calpis, n. See kalpis.
calpulli (käl-pöl'yē), n. [Nahuatl, aug. of calli, house.] A quarter of a town; a district; also the peeple in a pitring a quarter of a town.

also, the people inhabiting a quarter of a town. caltrop, n. 4. In the nomenclature of the spicular elements of sponges, a tetraxial spicular elements. ule having the form of a caltrop, with four equal simple smooth arms radiating from a central point. - 5. pl. In cntom., the short, sharp, curved spines which occur in scattered groups in the integument of certain lepidop-terous larvæ of the family Limacodidæ, and which are responsible for the urticating effect produced on the human skin by these larvæ.

sion-cylinder to another. Sadtler, Handbook calumpang (kä-lum'päng), n. [Also kalumof Indust. Chem., p. 139.

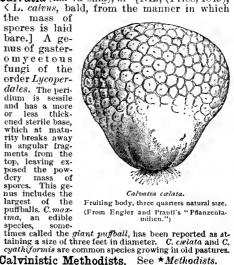
calory, n.—15° water calory, a calory in which the calumpan; (Pampanga calumpang.) See *kalumpana.

calumpit (kä-lum-pēt'), n. [Also kalumpit:

Calumpit (ka-lum-pet'), n. [Also kalumpit: Philippine Sp., from an untraced native name.] Sce *kalumpit.
calut (kä-löt'), n. [Philippine Sp. calut, also carut, carot (see *carot), < Pampanga calut.] A plant (Dioseorea triphylla) of the Philippine Islands the root of which is sometimes cooked and categories the state of the part of the property of the part of the p and eaten, and in times of scarcity may become the staple article of food among the moun-Also carate and nami. taineers.

calvarial (kal-vā'ri-āl), a. [L. calvaria, the skull, +-al.] Of or pertaining to that portion of the skull which is known as the calvarium, or calvaria: as, the calvarial sutures; cranial. Calvatia (kal-vā'shiā), n. [NL., (Fries, 1849),

the mass speres is laid bare.] A ge-nus of gasteromycetous fungi of the order Lycoperdales. The peridium is sessile and has a more or less thickened sterile base, which at math



Calvinistic Methodists. See *Methodists.

calx, n.—Blue calx, a kind of Thenard'a blue made by roasting a mixture of cobalt oxid with a china-clay and quartz, and grinding the resulting mass to great fineness in water. Langenbeck, Chem. of Pottery, p. 120.

calycanth (kal'i-kanth), n. A plant of the genus Butneria (Calycanthus) or family Calycanthaceæ

calycanthaceous (kal "i-kan-thā' shius), a. [Catycanthaceæ + -ous.] Belonging to the plant family Calycanthacere.

calycanthin (kal-i-kan'thiu), n. [Calycanth-us + -in².] A glucoside, C₂₅H₂₈O₇, found in Butneria florida (Calycanthus floridus). It is easily soluble in water, giving a fluorescent solution.

calycanthine (kal-i-kan'thin), n. [calycanthus + -ine².] An alkaloid, $C_{11}H_{14}N_2 + \frac{1}{2}H_2O$, found in Butneria (Calycanthus) fertilis. It is a monacid base and is a violent poison, somewhat resembling strychnine in its action. The anhydrous alkaloid melts at $\frac{244}{9}$ °C.

Calycilepidotus (kal "i-si-lep "i-do'tus), n. [NL., $\langle \text{Gr. } \kappa \dot{\alpha} \lambda \nu \xi, \text{ cup, } + \lambda \varepsilon \pi \iota \delta \omega \tau \dot{\phi} \zeta, \text{ sealed, scaly.}]$ A genus of sculpins with rough scales,

scaly.] A genus of sculpins with rough scales, found on the coast of California. The known species is C. spinosus.

calycin (kal'i-sin), n. [Gr. κάλυξ (καλυκ-), cup, + -in².] A crystalline reddish-yellow compound, C₁₈H₁₂O₅, found in a number of lichens. It melts at 243° C.

Calycing (kalisā(nā) n. n. [N.]. see calve

Calycina (kal-i-si'nā), n. pl. [NL.: see calycine.] A suborder of Diademoida in which the apical system is very large and includes one or more supplementary supra-anal plates.

more supplementary supra-anal plates.

Calycinal gemmation, in the Anthozoa, the production of new individuals by the process of budding within the calice of the parent polyp. This may be effected in two wsys: either certain septa become enlarged and produced so that they inclose a new calycinal disk (septal gemmation) or tabulæ are produced upward in the form of pockets from which new calices are developed (tabular gemmation).—Calycinal theory, a theory of the origin of the echinoderms based upon the opinion that they all show evidence of the presence, or former presence, of a system of symmetrically placed polygonal calcareous plates comparable to, or homologous with, the calycinal system of a staked crinoid. According to this theory all the classes are the more or less modified descendants of a primitive, probably stalked, ancestral form which is best exemplified in the stalked crinoids, which are held to be the most primitive of all known echinoderms. See **Pentaetæa theory, **Pelmetzoic theory.**

calycinated (ka-lis'i-nā-ted), p. a. [calycine + -atel + -ed².] Made cup-shaped; fashioned

-ate1 + -ed2.] Made cup-shaped; fashioned

in the form of a cup.

Calyconectæ (kal'i-kō-nek'tē), n. pl. [NL, ζ Gr. κάλυξ, cup, + νήκτης, swimmer.] A section

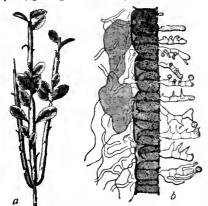
having one or more nectocalyxes, no pneumatocyst or palpons, and with the cormidia ordinate.

calyculate, a. 2. In zoöl.: (b) Having the camarasaur (kam'a-ra-sar), n. A member of surface furnished with depressions formed by the genus Camarasaurus. the reticulate folding of the skin: specifically applied by Cope to the structure of the hemipenes of various snakes.

"Hemipenis calyculate, spinous; sulcus simple; no disc . . . Colubrina.'

Cope, in Rep. U. S. Nat. Mus., 1898, p. 732.

Calyptospora (ka-lip-tos'po-rā), n. [NL. (J. Kuhn), Gr. καλυπτός, covered, + σπορά, seed (spore).] A genus of fungi of the order *Ure*-



Calyptospora Gappertiana. a, branch of the cranberry deformed by the fungus; b, longitudinal radial section through the bark of a stem of the cranberry showing the germinating teleutospores. (From Eogler and Frantl's "Pfanzenfanilien.")

dinales. The æcidial stage occurs on leaves of conifers, especially Abies Picea in Europe. The teleutospore form attacks the branches of various species of Vaccinium, forming a smooth brown elevated layer. The single species, C. Goppertiana, is widely distributed in Europe and North America.

calyptrogen, n. (b) The layer of tissue covering the young embryo, as in ferns. Jackson, Glossary

Calystegia (kal-i-stē' ji-ä), n. [NL. (Robert Brown, 1810), irreg. ⟨Gr. κάλυξ, calyx, + στέγη, roof, covering. The name alludes to the two large bracts covering the base of the calyx.]

1. A former genus name of several plants of the family Convolvulaceæ, now referred to Conthe family Convolvulaceæ, now referred to Convolvulus.—2. [l. c.] A plant of this group. The species are annual or perennial herbs, sometimes suffrutescent, twining, trailing, erect, or ascending, with fillform creeping rootstocks. The commonest cultivated plants of this group are the California rose (Convolvulus Japonicus) and Rutland beauty (C. sepium), both herbaccous perennial twiners with pink or white flowers, resembling in form those of the morning-glory.

calyx, n., 3. (f) The expanded, cup-like, deciduous structure on the ends of the stems of certain entoproctous Polyzoa, containing most of the organs and hence practically an individual. (g) A depression formed by the more or less reticulate folding of the skin, as in the intromittent organs of snakes.

"The surface is reticulate like tripe, the inclosed areas forming calyces, which may have a auctorial function." Cope, in Rep. U. S. Nat. Mua., 1898, p. 701.

4. A cup-shaped excavation on the surface of the ovary which remains after the rupture of a Graafian vesicle. - 5. Any circular piece which resembles in form the calyx of a flewer,

—Calyx drill. See *drill.—Calyx of the brain, in

entom, the cap of one of the mushroon bodies. See

mushroom *body. A. S. Packard, Tex-book of Entom.,

calzada (käl-thä'dä), n. [Sp.: see causey, causeway.] A paved road or highway; a canseway

cama² (kä'mä), n. [Sp., a couch, lair.] In phys. geog., a prairie-like basin-floor inclosed

by hills or uplands. [Western U. S.] camagon, n. See *kamagon.

Camaldolensian (ka-mal*dō-len'si-an), a. and n. [ML., *Camaldulensis, adj., < Camaldules, name of the order. See Camaldolite.] I. a. Of or pertaining to the Camaldolites. II. n. A Camaldolite.

Camaldolese (ka-mal-do-les' or -lez), n. and a.

I. n. Same as Camaldolite.
II. a. Of or pertaining to the Camaldolites. Camaldoli (ka-mal'dō-lī), n. pl. [ML. See Camaldolite.] Same as Camaldolites.

camalig (kā-mā-lig'), n. [Tagalog.] In the Philippine Islands, a warehouse for storing goods; also a small house or cabin.

or suborder of siphonanthous Siphonophora, camanchile (kä-män-chē'le), n. A Mexican having one or more nectocalyxes, no pneumatree introduced into the Philippines. See *kamachiles.

camansi (kä-män'sē), n. See *kamangsi.

Camares ware. See *ware2.
camarilla, n. 2. A small chamber or cell, as in the brain. Emerson.
camaron (kä-mä-rön'), n. [Sp., < camaro,

 \[
 \left(\text{L. cammarus, camarus, a sea-crab.} \]
 Same as cammaron. [West Indies.] as cammaron.

camarostome (kam'a-rō-stōm), n. [Gr. καμάρα, a vault, + στόμα, mouth.] Same as labrum: used by writers on the Arachnida.

Camass, n.—Peisen camass, white camass, the death camass, Zigadenus renenosus, a plant which causes severe losses of sheep in Montana and elsewhere. In cases of poisoning, a solution of permanganate of potash and sulphate of aluminium has been found an effective remedy. According to some the death camass includes acveral species.

cambism (kam'bizm), n. The theory and practice of exchange. See cambist.

practice of exchange. See cambist. Cambodian (kam-bō'di-an), a. and n. [Cambodia + -an.] I. a. Of or pertaining to Cambodia, a French dependency in southeastern

II. n. A native of Cambodia.

cam-box (kam'boks), n. 1. A frame surrounding a cam and designed to compel the rod which the cam drives to follow the return motion of the projecting lobe.—2. A casing inclosing the cam and its rollers in order that copious lubrication may be secured by having the cams revolve in a bath of eil.

Cambridge cheese, greensand. See *chcesc1, *greensand.

cameist (kam'ē-ist), n. [cameo + -ist.] A gem-engraver; one who cuts or carves cameos; also, one who is a collector or connoisscur of cameos.

camel, n.— Giraffe camel, giraffe-necked camel, an extinct species of camel, having the neck and leg-bones as long as those of a giraffe. Remains of it are found in the White River Oligocene.

camel-back (kam'el-bak), n. 1. A form of steam-boiler, of large water-capacity, in which a second drum or shell is placed over the principal one, somewhat as is done in an elephant-boiler.—2. A form of locomotive engine in which the fire-box has an unusual width so as to secure a low rate of combustion per square foot of grate. The engineer's cab has to be placed in front of the fire-box, and is somewhat in the same relative position on the beiler as is the hump of the camel on its back.

Camelina oil. See *oil. camel-kneed (kam'el-nēd), a. Having callosities on the knees like those of a camel.

Camellia scale. See *scale¹.

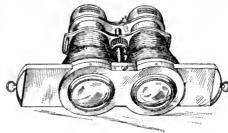
camellin (ka-mel'in), n. [Camellia + ·in².] A glucoside, C₅₃H₈₄O₁₉(†), found in the seeds of Thea (Camellia) Japonica.

camelopard, n. 3. [cap.] In astron., the constellation Camelopardalis or Camelopardus.

camel-wasp (kam'el-wosp), n. Any one of the horntails of the genus Xiphydria. All have large heads and long necks.

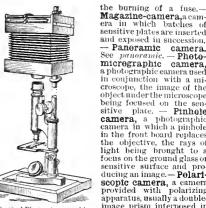
camera, n. 5. A chamber, as of a house, a mine, a gun, etc.; any inclosure with a roof.

-6. A box-shaped device for viewing tubes containing colored solutions by transmitted



Binocular Camera. Draw-slides out, plates exposed,

light, the eyes being shielded from other light. light, the eyes being shielded from other light, —7. ln zoöl., same as *air-chamber, 4.—Binocular camera, a photographic camera with two objectives, used in obtaining stereoscopic pictures.—Cycloramic camera, a camera designed to make a complete panoramic picture at one exposure. This is accomplished by means of a mechanism which revolves the eamera in one direction shout a pivot directly below the center of the lens, while the film is simultaneously moved by clockwork in the opposite direction.—Kite-camera, a photographic eamera attached to a kite for taking viewa from an elevation. The shutter is operated through



Vertical Photomicrographic Camera.

the burning of a fuse.—

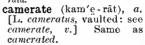
Magazine-camera,a camera in which batches of sensitive plates are inserted and exposed in succession.

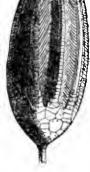
— Paneramic camera.

See panoramic camera used in conjunction with a microscope, the image of the object under the microscope being focused on the sensitive processing the sensitive plates. object under the microscope being focused on the sen-sitive place. — Pinhole camera, a photographic camera in which a pinhole in the front board replaces the objective, the rays of light being brought to a focus on the ground glass or sensitive surface and producing an image. Polariscopte camera, a camera provided with polarizing apparatus, usually a double-image prism interposed in the path of the light-rays, and used to investigate the an object; especially used in the objective, the rays of light being brought to a

and used to investigate the polarization of the light from an object: especially used in investigating the solar corona.—Prismatic or spectroscopic camera, a form of objective prism spectroscope (which see), consisting of a photographic eamers with a lens of rather long focus, and a prism or series of prisms in front of the lens. It is of especial use in photographing the phenomena of a solar eclipse during the time of total obscuration.—Watch-camera, a camera of the size and shape of a watch.

Camerata (kam-e-rā'tā), n. pl. [NL., neut. pl. of L. cameratus, arched, vaulted.] In Wachsmuth and Springer's classification of the Crinoidea, now generally adopted, the second and largest of the five orders of these orthe five orders of these organisms. It is characterized by
having the lower radial plates incorporated into the dorsal cup,
the tegmen vaulted, with month
and food-groovea covered, and the
anal opening frequently at the end
of a proboscis-like tube inclosed
by the free arms. These forms occur only in the Paleozoic rocks.
The accompanying illustration
shows a fossil crinoid, Patellicerinus levidactulus (Angelin), of the nus leptodactylus (Angelin), of the Silurian system, and order Came-





Patelliocrinus lepto-dactylus, Ang. sp. Silu-rian; Gotland. Natural size (after Angelin). (From Zit-tel's "Palæontology.")

camerated, p. a. 3. Bearing cameras, as the shells of the Cephalopoda, Foraminifera, etc. camerist (kam'e-rist), n. [camera + -ist.] Oue who operates a photographic camera; a photographer.

Thee, when a high wind is encountered, the cloth at one end can be buttoned around the camera, and at the other around the head or face of the camerist.

Boston Transcript, Feb. 23, 1900.

camfene, n. A simplified spelling of camphone. camfor, n. A simplified spelling of camphor. cam-gear (kam'ger), n. A gear which is set eccentrically on the shaft; a gear the outline of which is not circular.

camik (kä'mik), n. [Eskimo kamik, a pair of boots.] A native heet made of soft sealskin, used by the Labrador and New England whalers.

Camillus shale. See Salina *beds.

camino (kä-mē'nō), n. [Sp. = F. chemin, a road.] A road.

road.] A road.

camisa (kä-mē'sä), n. [Sp.: see camis, chemise.] A shirt; a chemise; specifically, a waist made of piña, white or dyed, embroidered, and with loose sleeves, worn by the native women of the Philippine Islands.

camlee, camly (kum'li), n. [Hind. kamli, < Skt. kambala.] Same as cumbly.

camlet-flyt (kam'let-fli), n. A fly with mottled wings. N. E. D.

camline (kam'lin). n. [Shortened from camelina: see camclina3 and camclinc3.] The false flax, Camelina sativa.

cam-loom (kam'löin), n. A loom whose heddleshafts are operated by means of cams.

cammac (kam'ak), n. A copper halfpenny current in Ireland in the early part of the A copper halfpenny nineteenth century: so called from the name of the maker, a proprietor of copper-mines.

Cammarum (kam'a-rum), n. [NL. (Hill, 1756), (Gr. κάμμαρος, a kind of aconite.] A genus of dicotyledonous plants of the family Kanuncu-See Eranthis. laceæ.

camomile, n. - False camomile. Same as *Boltonia.

camomile-oil (kam'ō-mīl-oil), n. A light-blue campestrian, a. II. n. [cap.] A zoögeographic volatile oil of strong but pleasant odor, obregion proposed by J. A. Allen as a subprovince tained by the distillation of the flower-heads of Roman camomile, Anthemis nobilis. Under the influence of light and air it changes to

camomile-shark (kam' ō-mil-shärk), n. A British collectors' name for a noctuid moth, Cucullia chamomillæ, whose larva feeds on the

wild eamomile or feverfew.

camete (kä-mō'te), n. [Mex. Sp., < Nahuatl cametli.] A name in Mexico and other Spanish-speaking countries of the sweet potato, Ipomœa Batatas.

camp1, r. II. trans. To surpass, excel, or outrank (others) in a contest. Compare kemp1.

[Australia.] [Australia.] A mustering place for cattle, camp², n. [Australia.]—5. [cap.] In the early history of Australian colonization, the name popularly applied to Sydney, New South Wales, and to Hobart in Tasmania, the British forces being stationed in those places.

It is the old resident—... who still calls Sydney... the Camp,—that can appreciate these things.

P. Cunningham, Two Years in New South Wales, II. 70.

6. A camping-out expedition, as for fishing, shooting, recreation, or the like; a camp-out. shooting, recreation, or the like; a camp-out. [Australia.]—Camp diarrhea. See *diarrhea.—Camp duty, the special duties, gnard and police, which devolve on soldiers in camp.—Camp royal, the main body of an army when under the direct orders of the commander-in-chief; the chief body of troops with the commander-in-chief; hence, a large number; a host: as, a camp royal of false witnesses. Nashe.—Concentration camp, a camp in which are collected the hostile non-combatants of a country to prevent them from giving aid and information to the hostile armed forces.

campagna (käm-pän'yä), n. [It.: see campaign, champaign, campania.] 1†. The open country; the plain.

country; the plain.

To Marino, 6 miles through the like flat campagna, though ascending insensibly. Berkeley, Works, IV. 568. 2†. Same as campaign, n., 2.—Campagna di Roma. See the Century Cyclopedia of Names.

campaign, n. 5. A more or less extended trip, excursion, or journey for a definite purpose, such as for botanizing or geologizing.—Astrophotographic campaign. See *astrophotographic. campaigned (kam-pand'), p. a. That has been sent on or has taken part in military campaigned.

paigns: as, "an old soldier . . . campaigned . . . to death in the service," Sterne, Senticampaigned mental Journey.

campanarian (kam-pa-nā'ri-an), a. [LL. campanarius, a bell-maker (< L. campana, a bell), +-an.] Pertaining to the making or the use of bells.

Campanian² (kam-pā'ni-an), a. and n. [ML. Campania, F. Champagne.] I. a. Of or pertaining to Campania (modern Champagne): applied specifically to a geological formation.

In the extensive development of the Cretaccous system in France and Belgium, the uppermost division of the Senonian, equivalent to the uppermost Cretaceous of Great Britain, where the final stage, the Danian, is wanting.

campanist (kam'pa-nist), n. [L. campana, a bell, + -ist.] Same as campanologist. campanistic (kam-pa-nis'tik), a. Of or per-

taining to a campanist or to campanology.

campanologer (kam-pa-nol'o-jer), n. Same as campanologist.

campanological (kam-pa-nō-loj'i-kal), a. Of or pertaining to campanology or to campa-nologers: as, campanological literature.

Campanulales (kam-pan-ŭ-lā'lēz), n. pl. (Britton, 1901), (Campanula + -alcs.) An order of dicotyledonous sympetalous plants, regarded as the most highly developed in the vegetable kingdom and last to make their apvegetable kingdom and last to make their appearance in the geological history of the globe. It is characterized by 5-merons flowers, the stamens connivent and frequently united (syngenesions). It contains the families Cueurbiaceæ, Cumpanulaceæ, Goodeniaceæ, Candolleaceæ, Calyceraceæ, Cichoriaceæ, Ambrosiaceæ, and Asteraceæ. They are chiefly herbs, but occasionally shrubs, and occur in all warm and temperate regions.

campanular (kam-pan'ū-lār), a. [NL. *cam-wardara campanular occasionally shrubs.

panular (kam-pan'n-lär), a. [NL. *cam-panularis, < ML. campanula, a bell: see campanula.] Same as campanulate.

campanulated (kam-pan'ū-lāt-ed), a. [Same as campanulate.

campanulin (kam-pan'ū-lin), n. [campanula + -in².] A basic coal-tar color: same as *muscarine, 2.

campanulous (kam-pan'ū-lus), a. Same as campanulate.

Same as facial angle of Camper's angle. Camper. See craniometry.

the arid or western province of North America.

camphane (kam-fău'), n. [camph(or) + -aue.] A hypothetical hydrocarbon, C₁₀H₁₈, known only by its derivatives. It is assumed to be constituted by the substitution of two hydrogen atoms for the oxygen atom of camphor.

gen atoms for the oxygen atom of camphor. camphanic (kam-fan'ik), a. [camphane + -ic.] Derived from camphane. - Camphanic acid, the lactone or anhydrid, chollajot, of hydroxycamphoric acid. It is formed by the oxidation of camphoric acid, or by treating bromcamphoric anhydrid with water. It melts at 201° C.

water. It melts at 201° C.

Camphene, n. 1. Destrocamphene (austracamphene)
and levocamphene (terecamphene) are made by heating
oil of turpentine, saturated with hydrochloric-acid gas,
with alcoholic potash. They are crystalline and melt at
51-52° C. They rotate plane-polarized light in opposite
directions. Inactive α-camphene is similar to the preceding, but it is optically inactive and melts at 47° C.—
Rayrace compleme or camphene compleme.

ceding, but it is optically inactive and melts at 47° C.—
Borneo camphene or camphor camphene, camphene made from Borneo camphor or from ordinary camphor. It melts at 53.5-54° C., and is optically inactive. When fused it is dextrorotatory.

camphidone (kam'fi-dōn), n. [camph(or) + -id¹ + -one.] A crystalline compound,

C₈H₁₄ < C_{H₂} NH, obtained by the electrolytic reduction of camphoric imide in acid solution, using a lead cathode. It has a faint odor like

that of camphor and melts at 220° C.

camphoid (kam'foid), n. A thick colorless liquid obtained by dissolving 1 part of guncotton (pyroxylin) in a saturated alcoholic solution of solution of saturated alcoholic solution. solution of 20 parts of camphor. rapidly, leaving a thin elastic film when applied to the skin, and is used as a vehicle for

tannic acid, iodoform, etc.

campholene (kam' fō-lēn), n. [camphol +
-cnc.] A hydrocarbon, C₉H₁₆, obtained by
the decomposition of campholenic acid. It is
an oil which boils at 134° C. and has an odor

like that of turpentine.

campholenic (kam-fō-len'ik), a. [campholene tampnoienic (kam-fō-len'ik), a. [campholene + ic.] Pertaining to or derived from campholenc: as, campholenic acid.—Alpha-campholenic acid, an acid, C₉H₁₅CO₂H, obtained by saponifying the nitrile formed by the action of dilute sulphuric acid on camphoroxime. It is an oil which boils at 25° C.—Beta-campholenic acid, an isomeric compound obtained by saponifying the β-nitrile which is formed by the action of acids on the α-nitrile. It melts at 53° C. and boils at 248° C.

campholid, campholide (kam'fol-id), n. [cam-phol+-id.] A crystalline compound, C₈H₁₄ CH₂ > O, obtained by the oxidation of camphor. It melts at 211° C.

campholytic (kam-fo-lit'ik), a. [camph(or) + (electro)lytic.] Obtained from eamphor by an electrolytic method.—Alpha-campholytic acid, an acid obtained in its optically active form by the decomposition of dihydroamino-campholytic acid with nitrons acid. It is an oil which boils at 240-212° C.—Beta-campaid. pholytic acid, an isomer which melts at 133° C. and boils

camphor, n.—Anemone camphor, a crystalline substance found in Anemone pulsatilla. It has a strong, pungent odor and decomposes spontaneonsly into anemonic and isoanemonic acid.—Asarum camphor. Same stance found in Anemone pulsatitla. It has a strong, pungent odor and decomposes spontaneonsly into anemonic and isoanemonic acid.—Asarum camphor. Same as asarin.—Barosma camphor. Same as *diosphenol.

Barus camphor, Same as *diosphenol.—Cedar camphor. Burchu camphor, Same as *diosphenol.—Cedar camphor. Same as eachene camphor, a thick, somewhat pungent, colorless liquid resulting when cqual parts of chloral hydrate and camphor are mixed. Upon addition of water, camphor is thrown ont of solution. It is used externally for menagia and internally as a nerve sedative.—Colophene camphor, a crystalline compound, \$C_{10}H_{15}C, resembling Borneo camphor, which separates from that portion of the product of the action of sulphuric acid on turpentine which is volatilized with steam.—Cubeb camphor, colorless, crystalline compound, \$C_{15}H_{26}C, which separates from old oil of cubeh on refrigeration.—Inactive camphor, anbstance obtained by mixing equal parts of dextro- or ordinary campbor and levo-camphor. Same as dant camphor (which see, under camphor).—Ledum camphor, colorless, feebly dextrootatory, alcoholic sesquiterpene, \$C_{15}H_{26}C, contained in oil-of-Labrador tea from Phor, a colorless, feebly dextrootatory, alcoholic sesquiterpene, \$C_{15}H_{26}C, contained in oil-of-Labrador tea from Piper angustifolium. It melts at 94° C.—Mentha camphor, a white, nearly odorless, crystalline compound, \$C_{12}H_{20}C, which separates from matico-oil, obtained from Piper angustifolium. It melts at 94° C.—Mentha camphor, a no eleoresin, consisting mainly of laurostearin, which is found in Pichurim beans. Also called Pichurim fat.—Pyrethrum camphor, a term first applied to a stearoptene which Geoffroy separated from oil of sage in 1720. It is now applied to a borneol-like substance which is derived from and probably also exists in oil of sage, Salvia officinalis.—Salol camphor, a tic. - Sandalwood camphor, a compound, C15112402,

contained in the oil of sandalwood. It melts at 104-105°C.
— Tar camphor. Same as naphthalene.—Thyme camphor, a term sometimes applied to thymol.

camphorated (kam'fo-rā-ted), p. a. Impreg-

nated or treated with camphor.

camphor-glass (kam'for-glas), n. A small glass tube filled with a solution of camphor or other chemicals and hermetically scaled so that neither hygrometric nor barometric changes can affect it. The camphor becomes floculent at low temperatures and dissolves at high temperatures, so that the camphor glass is essentially a thermoscope or crude thermometer.

 $\begin{array}{lll} \textbf{camphorid} \ (\text{kam'fe-rid}), n. & A \ \text{yellow, crystal-line compound, } C_{18}H_{12}O_6 \ + \ H_2O, \ \text{found in galangal root.} & \text{It melts at } 229^{\circ} \ \text{C.} \end{array}$

camphorize (kam'fo-riz), v. t.; pret. and pp. camphorized, ppr. camphorizing. To impregnate or medicate with camphor: as, camphorized tincture of opium.

camphorous (kam'for-us), a. [camphor + -ous.] Camphor-like; resembling camphor: as,

a camphorous smell.

camphory (kam'for-i), a. [camphor + -y1.] Somewhat camphor-like.

camphylamine (kam-fil-am'in), n. [camphyl+amine.] A base, $C_{10}H_{17}NH_2$, formed by the reduction of campholenic nitrile. It is an oil which boils at 196° C.

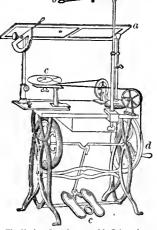
campilan (käm-pi-län'), n. [Tagalog.] In the Philippine Islands, a sword of the Tagalogs, having a straight single-edged blade, a broad back, and a triangular point.

Campil beds. See ★bed1.

campimeter (kam-pim'ē-ter), n. [L. campus, field, + Gr. μέτρον, measure.] In psychol.,

a vertical or horizontal screen for the mapping, in plane projection, of the area of the blind spot of the eye, the range of color-sensitivity of the retina, etc. The campimeter is related to the perimeter as the plane-table is to the theodolite.

campimetry (kain - pim'etri), n. In psychol., the mapping, in plane projection, of retinal zones or areas: the use



The Hering Campimeter with Color-mixer. a, campimeter screen; b, eye-rest; c, disks mounted on color-mixer, which may be rotated by hand (d) or foot (e).

of the campimeter. E. B. Titchener, Exper. Psychol., I. ii. 17.

Campinian (kam-pin'i-an), a. [F. Campine, Flem., Kempenland, in Belgium.] Of or pertaining to Campine (see the etymology).—Campinian sands, in geol., a division of the Quaternary deposits of Belgium.

campit (käm-pēt'), n. [Tagalog campit.] In Luzon, a short knife.

cam-plate (kam'plat), n. A plate having an irregular outline which gives an irregular motion to the elements which it drives; a plate having projections on its face which act as cams: a cam.

camp-marshalt (kamp'mär"shal), n. An officer who supervised the camp or quarters of an

army; a quartermaster-general.

Campobello yellow. Same as *chryseinic acid. campodean (kam-pō'dē-an), a. [Campodea + -an.] Resembling or belonging to the genus Campodea.

campodeiform (kam-pō-dē'i-fôrm), a. Resembling the thysanurous insects of the genus Cam-

podea or family Campodeidæ (which see).

campodeoid (kam-pô'dē-oid), a. [Campodea + -oid.] Same as *campodeiform. A. S. Packard, Text-book of Entom., p. 600.

campoo (kam-pö'), n. [Hind. $kamp\bar{u}$, \langle Pg. campo, a camp: see $camp^2$.] 1. A camp.—2t. A brigade of native Mahratta troops drilled and commanded by European officers. [Anglo-Indian.]

camp-robber (kamp'rob"er), n. A local name of the Canada jay, Perisoreus canadensis.

carapace, which sometimes partly overarches some of the free segments of the trnnk, and no telson. The typical and sole genus is Campylaspis.

Campylaspididæ (kam"pi-las-pid'i-dē), n. pl. [NL., < Campylaspis (aspid-) + -idæ.] Same as *Campylaspidæ.

Campylaspia (kam-pi-las'pis), n. [NL., < Gr. καμπέλος, bent, + ἀσπίς, shield.] The typical genus of the family Campylaspidæ. Sars, 1865.

campylodrome (kam'pi-lō-drōm), a. [Gr. καμ-πίλος, bent, + -δρομος, < δραμεῖν, run.] Curv-ing gently outward and inward from the base to the apex of a leaf: said of nerves. See nervation (a) (10), with cut (Fig. 9).

campylodromous (kam-pi-lod'rō-mus), a. Same as *campylodrome.

campylograph (kam-pil'ō-graf), n. [Gr. καμ-

πύλος, bent, $+ \gamma \rho \dot{a} \phi \epsilon \iota \nu$, write.] An instrument designed for drawing geometric figures and algebraic curves.

Campyloneuron (kam"pi-lō-nū'ron), n. [NL. (Presl, 1836), ζ Gr. καμπίνος, arched, + νεῦρον, nerve, from the character of the nervation.] A genus of polypodiaeeous ferns, related to Polypodium. In most of the species the fronts are Polypodium. In most of the species the fronds are simple, linear-lanceolate or somewhat elliptical, 1 to 3 feet long, the parallel primary veins being connected by numerous transverse veins, with one or several onee-soriferous, excurrent, free veinlets included within each areola. The genus is essentially middle American. C. Phyllitidis and C. angustifolum occur in Florida.

campylorhynchous (kam"pi-lō-ring kus), α. [Gr. καμπύλος, curved, + ρύχχος, a snout.] Having a curved snout or mandible, as some extinet saurians.

camshachle (kam-shä'ehl), v. t. [Also camshauchel; < cam² + Se. shachle, distort.] To twist out of shape; distort; make crooked. [Seotch.]

camshell (kam'shel), n. camshell (kam'shel), n. [Also camshall; origin not ascertained.] Cuttlefish-bone. [Orkney and Shetland Islands.]

camsho, n. See *camshoch.
camshoch (kam'shoch), a. [Also camsheugh,
camsho, etc.; \(\cam^2 + -\shoch, \text{ perhaps} \le AS.
seeoh, skew (cf. Sc. shachle, shochle, distort);
see skewl. 1. Camshachled; crooked; deformed.—2. Perverse; contrary. [Scotch in both uses.]

camsin, n. See khamsin.
camstone (kam'ston), n. 1. A term used in
Seotland for a common compact, whitish limestone,—2. A white or bluish-white clay used stone,—2. A white or bluish-white clay used for whiting purposes on hearths, door-steps, etc. Can you? In Eng. long whist, when one side is within 2 points of game, and either partner holds 2 honors, the conventional question asked by him of his partner, meaning, 'Have you a third?' If he has, the two partners win the game.—Can you one? Same as *can you? Can?, n. 4. A chimney-pot.

S.—13

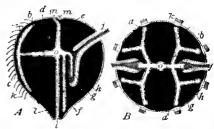
Canaigre (Rumex hymenosepalus). Plant, one-eighth natural size. Fruit, three-fourths natural size.

per eent of tannie acid. These had long been utilized by the Mexicans as a medicine and for tanning saddle-leather when an export trade in them was started, at first in bulk, then as dried chips, then as extract. The natural supply being insufficient, cultivation with irrigation has been undertaken on a large scale.

canaille, n. 3. A pack (as of hounds): as, the whole canaille of miscreants; a canaille (or canaille) of polynomia.

canaglia) of poltroons.

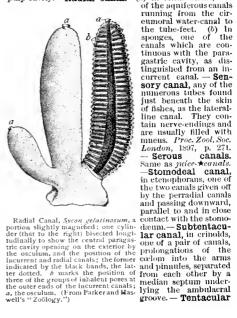
canal¹, n. 6. A long, narrow arm of the sea penetrating far inland: as, Lynn canal, Portpenetrating far inland: as, Lynn canal, Portland canal, etc.—Apertural canal, in bot., a canal found in some Gasteropoda, for example Ataria, extending from the anterior peristone: caused by an inbending of the margin and serving for the lodgment of the siphon.—Arnold's canal, a canal in the petrous portion of the temporal bone through which passes Arnold's nerve.—Billary canal. Same as kepatic duct (which see, under duct).—Calciferous canals. See *calciferous.—Canal of Botal. Same as ductus Botall.—Canal of Cuvier. Same as ductus Cuvieri.—Canal of Ferrein, a channel formed between the edges of the cyclids, when closed, and the cyclall.—Canal of Hensen, a minute communication between the ductus cochlearis and the sacculus in the membranous labyrinth of the ear: also called canalis reuniens.—Canal of Laurer, In certain platyhelminths, a canal leading from the oviduet to the dorsal surface,



Meridional Canal, Hormiphora plumosa, diagrammatic longitudinal (A) and transverse (B) sections. The ectoderin is dotted, the endoderm striated, the mesoglosa black, and the muscular axis of the tentacles gray. a, meridional canal; b, interradial canal; c, adradial canal; g, tentacular canal; h, intradibular canal; f, stomodeal canal; g, tentacular canal; h, tentacular shaft; i, mouth; f, tentacle; k, swimming-plate; f, stomodeaum; m, sense-organ; n, excretory pore; o, infundibulum. (From Parker and Haswell's "Zöölogy.")

the enteric system extending upward and downward beneath the corresponding swimming-plate.—Nutrient eanal. Same as *Haversian canal.—Obstetric or parturient canal, the channel formed, after complete dilation of the os, by the cavity of the uterus and the vagina.—Pore-eanal, a canal leading from the eavity of the proboseis, collar, or other part of the body of *Adelachorda* and opening to the exterior by a pore.—Pulpcanal, the canal which runs through the root of a tooth and gives passage to the nerves and blood-vessels of the pulp-eavity.—Radial eanal.

(a) he echimoderms, one of the aquiferous canals running from the circumoral water-canal to the the-feet. (b) the sponges, one of the eanals which are continuous with the paragastric cavity, as distinguished from an incurrent eanal.—Senerve canal any of the



unguished from an in-current eanal. — Sen-sory canal, any of the numerous tubes found just beneath the skin of fishes, as the lateral-line canal. They con-tain nerve-endings and are usually filled with

canal. (a) See tentacular. (b) In etenophorans, a branch of the perradial canal extending into the base of the corresponding tentacle.—Tympanic canal. Same as tropenital sinus. *canal. Vestibular canal. Same as tropenital sinus. *canal. Vestibular canal. Same as tropenital sinus. Cancan (kan'kan), v. i.; pret. and pp. cancanned, ppr. cancanning. [cancan, n.] To perform the dance known as the cancau (which see). *cancal layer of hone which does not form the center of a Haversian system.

canalage (ka-nal'āj), n. analage (ka-nal'āj), n. [canal + -agc.] 1. Canals as a means of transportation.—2.

canal-boat, n.— Canal-boat scales, an arrangement of a canal-lock which makes it possible to weigh a canal-boat.

canal-cell (ka-nal'sel), n. See ★cell. canaler, canaller (ka-nal'èr), u. [canal + -cr1.] 1. A canal-boat.

At the wharf-hoat were one or two dim lanterns, and near the bow of each canaler was a lantern of uncertain hue, but intended to be white.

The Century, Aug., 1887, p. 487.

2. One employed on a canal-boat or engaged in the business of canal transportation.

After making a tour of the water front with Captain C., the old-time canaller, Mr. C. amounced that he would call a meeting of maritime interests next week to frame a petition to the special session of the Legislature.

N. Y. Times, June 29, 1905.

canalete (kä-nä-lā'tā), n. [Venezuelan.] Same as puddlewood.

canaliculation (kan-a-lik/ū-lā'shon), n. A minutely grooved or chambered formation.

canalicule (ka-nal'i-kūl), n. [L. canaliculus, a

small channel.] A small canal canaliculization (kan-a-lik**u-li-zā'shon), n. [canaliculis + -ize + -utiou.] The formation of canaliculi in cartilage, constituting the preliminary stage of ossification.

Canaliculus laqueiformis, the loop-tubule of Henle; that part of the uriniferous tubule which bends upon itself.

canaliform (ka-nal'i-fôrm), a. [L. canalis, a canal, + forma, form.] Having the form of

canalization, n. 3. In neurol., figuratively, the formation or opening of a path of nervous conduction or nervous discharge.

Under suitable conditions, the stimulation may strike on the paths within the central substance; we may accordingly designate this latter effect of practice, in contradistinction to direct practice by repetition of function, as path-making or canalization.

B. Wundt (trans.), Physiol. Psychol., p. 100.

4. In surg., drainage by means of artificially formed channels without the insertion of tubes

II. intrans. To form a channel canalize, v. or canal. Buck, Med. Handbook, II. 255. canaller, n. See *canaler.

canapés (kan-ā-pā'), n. pl. [F., lit. 'eanopies': see canopy.] Narrow slices of thin bread toasted or fried in hot fat or dipped in melted butter, browned in the oven, and then covered with a seasoned mixture of cheese,

ham, sardines, or anchovy and served hot. canard (ka-närd'), v. i. [F. canarder, \ canard duck, false report: see canard, n.] 1. To fly or float about, or eirculate as a canard or false report: as, certain stories cauarding about the hotels.—2. To imitate or produce the peculiar harsh ery of the duck, as an unskilled player on a wind-instrument.

Right before the window . . . is a ragged starveling canarding on a clarionet. Fraser's May., XXIII. 339.

canary. I. n. 8. In Australia, a name of Clitonyx ochrocephala, a relative of the lyrebird.—Belgian canary, a breed of canary-birds of Dutch origin, bred chiefly for shape and pose, and having a small head and a long body.—Norwich canary, a breed of canary-birds named from Norwich, England, bred for size and color rather than for song. There are three varieties, the clear yellow, the variegated, and the crested.

II, a.—Canary archil. See ★archil.

canary arcmi. See **arcmi. See **arcmi. Canary-grass, n. The reed eanary-grass (also called **reed-grass**) is widely diffused in wet places over the northern hemisphere. In the northwestern United States it is called **cray-grass**, on account of its supposed effect on horses, which, however, is probably due to cryot with which it is infested. The Southern or American canary-grass, **Phalaris Caroliniana, ranging through the Southern of States to California is regarded in the Fastern States as States to California, is regarded in the Eastern States as valuable for winter and spring pasture. This, or a form with an inflorescence appearing much like *Phdeum*, is called *Southern* or *Apache timochy*. The blue or nurple canary-grass is *Phalaris amethystina*, a native Californian species of moderate value. *P. minor* and *P. paradoxa* are Mediterranean species introduced into California.

canary-vine (ka-nā'ri-vin), n. [Supposed to have been brought from the Canary Islands.] The climbing fumitory, Adluma fungosa. See

canaut, kanaut (ka-nât'), n. [Hind., Ar. qanāt.] The side of a tent, or of a canvas inclosure. Yule and Burnell. [Anglo-Indian.]

If an order is fairly executed it is a rare thing to receive cancel.

Manchester Examiner, May 12, 1884.

Canal dues. - 3. The cost of transportation cancel, r. t. 5. (a) In printing, to mark on copy or proof (words or lines that are to be omitted). (b) In bookbinding, to destroy (a leaf or section that is to be entirely suppressed).

cancelable, cancellable (kan'sel-a-bl), a. That may be canceled; capable of being canceled, crossed out, or rendered null or void.

canceleert, r.i. 2. Figuratively, to turn aside; digress.

canceling-press (kan 'sel-ing-pres"), u. machine for defacing the stamps on letters or postal matter in order to prevent their re-use. cancellation, n. 3. In gastropods, the system intersecting ridges on the surface of the

Of the ten or twelve examples we have examined, two only possess the epidermis; this is dark fuscous, covering the whole surface, and emitting a bristle at regular intervals on the three spiral ribs, viz. at the point of junction with the cancellations.

Proc. Zool. Soc. London, 1901, II. 361.

cancer, n. 3. The term cancer, as commonly employed, includes those new growths which possess certain attributes that render them especially dangerous to life, and which are therefore called malignant. Malignant tumors growthy infiltration and destruction of the surrounding in the growth of the surrounding terms and we appear to the surrounding time terms and the surrounding time terms are the surrounding time. and which are therefore called malignant. Malignant tumors growhy infiltration and destruction of the surrounding tissues, and are characterized by a tendency to recurafter removal, by the property of spreading to other parts of the body by a process of dissemination known as metastasis, and by producing a general disturbance of health termed cachexia. From the standpoint of the pathologist two chief groups of cancerons tumors are recognized: the carcinomata, or true cancers, and the sarcomata. The fundamental difference between these two is the fact that carcinoma originates in the epithelial tissues of the body, whereas sarcoma develops from the connective tissues. This difference in origin gives rise to certain structural characteristics which enable the microscopist readily to distinguish one type from the other. Carcinoma is rare before the age of thirty; it is somewhat commoner in women than in men; and it is most often seen in the uterus, skin, breast, and stomach. Sarcoma is a disease of early adult life, is more prone to attack men than women, and is commonly found in the subentianeous tissue, bony structures, and lymph-nodes. Carcinoma is conveyed from one part of the body to another through the lymphatic vessels, sarcona by way of the blood-stream. In spite of an enormous amount of research devoted to this subject, the exciting cause of cancer is still unknown. The influences of heredity, climate, food, race, social condition, and local injury have all been invoked as factors concerned, but without arriving at any degree of certainty. The theory referring the development of malignant tumors to the presence of minute animal or vegetable organisms has numerous adherents, but it has not been definitely established, and many prominent authorities consider that the explanation is to be sought for in a disturbance of some still undiscovered fundamental law governing the growth of cells. Although it appears that cancer is increasing somewhat in frequency, the percentage of cere is increasing somewhat in fre given excellent results.

5. Figuratively, a moral or social evil likened

to a cancer in its malignant character and corroding tendency: as, "sloth is a cancer," Bp. To a cancer in its malignant character and corroding tendency; as, "sloth is a cancer," Bp. Kcn.—Acinous cancer, a malignant growth originating in the epithelium of acinous glands.—Areolar cancer, same as colloid cancer.—Calms of Cancer. See *calm!.—Cancer aquaticus. Same as noma.—Cancer en cuirasse or cuirass cancer, a superficial scirrhous cancer involving a wide area of the anterior chest-wall; it resembles remotely a shield.—Cancer Galent. Same as Galen's **hondage.—Cellular cancer, cerebriform cancer. Same as encephaloid cancer.—Chimney-sweeps' cancer, epithelioma of the scrotum.—Chondrold cancer, a form of scirrhous cancer having a texture like that of cartilage.—Cylinder-cell cancer. Same as explindroma.—Cystle cancer. Same as colloid cancer.—Dendritic cancer, malignant papilloma.—Epithelial cancer, a malignant growth originating in squamous or cylindrical epithelium; epithelioma.—Fungous cancer. Same as sdenocarcinoma and adenosarcoma.—Green cancer. Same as schloroma.—Hard cancer. Same as scarrhus.—Mucous cancer. Same as colloid cancer.—Papillary cancer, malignant papilloma.—Pigmentary cancer, same as melanocarcinoma and melanosarcoma.—Rodent cancer. Same as rodent **ulcer.—Soft cancer. Same as neethaloid cancer.—Spider cancer, a form of nævus marked by a central red area with red lines radiating from it. It is not of a cancerous or malignant nature. Also called spider nævus.—Tubular cancer. Same as cylindroma.

cancer (kan'sėr), v. t. To corrode or eat into. in the manner and with the steadily destructive persistency of a cancer.

Other things advance per saltum—they do not silently cancer their way onwards.

De Quincey, Works, III. 280.

cancer-drops (kan'ser-drops), n. pi. Same as beech-drop

cancered (kan'serd), a. Affected with a cancer. Your lordship must have taken notice of a paragraph in the papers with regard to the application of toads to a cancered breast.

Goldsmith, Hist. Fishes, Reptiles, Insects, p. 215.

cancer-jalap (kau"ser-jal'ap), n. The pokeweed, Phytolacca Americana.
cancer-nest (kan'ser-nest), n. A rounded mass

of concentrically arranged cells found in certain cancerous growths.

The second is the finding of cancer nests in the stomach contents; but several of these should be found before a positive diagnosis is made.

Med. Record, Feb. 14, 1903, p. 280.

Cancerous cachexia. See *cacheria. cancer-parasite (kan'ser-par'a-sit), n. A general name, of no classificatory value, given by different observers to various bodies found in or among the cells of cancerous growths, on the supposition that they were parasitic organisms and the cause of the growths. cancer-serum (kan'ser-se'rum), n.

An antitoxic serum supposed to be curative of cancer. cancha (kän'chä), n. [Quiehua (of Peru and Bolivia) cancha, a yard, cattle-yard, churchyard, etc. (Tschudi).] An inclosure for cattle,

-ite².] A fossil crab or other crustacean, or a fossil body resembling a crab.

cancro, mterj. [It.] An imprecation meaning originally 'the cancer (take you)!'

Cancro! What, thy husband's body?
Chapman, Widow's Tears, vi. I.

Cancroid corpuscles. Same as *cancer-nests. c. and b. In cricket, an abbreviation of caught and bowled, a phrase applied to the batsman when he is caught out by the bowler.

candescence, n. 2. The luminescence of ra-

dioactive substances; autoluminescence. The

Reader, May, 1904, p. 620.

Candia carrot. See *carrot.

candicans (kan'di-kanz), n. [L., ppr. of caudicare, be whitish, < candere, be white: see candent, candid.] Same as albicans.

candid, a. 4. Pure; clear; fair.

Where does the figment touch her candid fame?
Browning, Ring and Book, ix. 475.

candidate, u. 2. One who seeks or is an aspirant for something other than office or preferment: as, a candidate for literary fame; "a candidate of heaven," Dryden.

And whether the happiness of a candidate for literary fame be not subject to the same uncertainty.

Johnson, Rambler, No. 21.

A member of the white-robed body-guard of the Roman emperors, established about 237 A. D. by Gordianus the Younger. Blount. candier (kan'di-er), n. One who candies.

candil (kän-dēl'), n. [Sp., a lamp, < Ar. qandil, a lamp, < L. candēla, a candle: see candle.] In the West Indies, a Spanish name of the flame-colored fish Myripristis jacobus, of the family Holocentridæ. The name is also applied to the common red soldier, fish or sonirel fish

Holoccutrus ascensionis. can-disk (kan'disk), n. In cotton-manuf., the revolving plate on which a sliver-can is placed as part of the coiler-motion.

to the common red soldier-fish or squirrel-fish,

revolving plate on which a sliver-can is placed as part of the coiler-motion.

candle, n.—Association candle. Same as German candle. See standard *candle.—British standard candle. See standard *candle.—Composite candle, a candle made of two materials of different fusibility, as hard stearic acid from tallow and stearin from cocoanutoil.—Decimal candle. Same as boughe décimale (which see, under *light standard).—Drawn candle, a candle made by winding a long wick off one cylindrical drum to another, drawing it through a pan of melted wax, and stripping off the excess of wax which adheres to the wick by passing it through holes of proper diameter in a perforated plate. The process is applied chiefly to the manufacture of lighting-tapers, or spills, and the small candles used on Christmas trees, and for these stearic acid or parafin is often substituted for wax.—English candle. See standard *candle.—German standard candle. See standard *candle.—German standard candle. See standard *candle.—German standard candle the rays from which pass through a screen of green glass.—Hemispherical candle, a unit of lightinx in which the source is a standard candle and the unit of solid angle is the angle subtended by a hemisphere. The British hemispherical candle is approximately 7.14 lumens. The term is sometimes used as the equivalent of mean hemispherical clandie is approximately 7.14 lumens. See *illumination.—Iodine candle, a candle in which lodine has been intermixed with the grease or parafin, so that as the eaudle burns the disinfecting vapor of iodine is given off.—Medicated candle, a candle made from combustible material to which some substance,

such as lodine or eucalyptus-oil, has been added, in order to evoke disinfectant vapor when the candle is burned in a Rach come of a candle.

**Candle Sunforce of Sunforce of

Candle.	Schilling.	Krūss,	Voit.
Munich	100,00	100,00	100,00
German (Vereinskerze)	88.7	97.6	96,5
British	90.7	85.8	94,4

For other standards of photometric intensity, see *light standard. — Star-candle. See standard *candle.— Sulphur-candle, a medicated candle with the fatty material of which sulphur has been mixed, so that as the candle burns sulphur dioxld is given off, serving as an atmospheric disinfectant. For this purpose cylinders made of sulphur and charcoal in powder, with the addition of a very little niter, are also sometimes used.

candle (kan'dl), v. t.; pret. and pp. candled, ppr. caudling. To examine (an egg) in an eggtester by means of a lighted candle to determine its freshness. See *egg-caudling. candle-carriage (kan'dl-kar"āj), n. In photometry, a carriage supporting the standard candle or pair of candles. W. L. Dibdin, Public Lighting v. 48

Lighting, p. 48. candled (kan'dld), p. a. Tested by means of

a lighted candle: as, candled eggs. candle-foot (kan'dl-fut), n. Au

A unit of illumination; the illumination from one standard candle at a distance of one foot. The British candle-foot is about 12.2 luxes. See *illn-mination, 1. Also foot-candle, candle-hour (kan'dl-our), n. In photom., a unit

of quantity of light; the energy derived in one hour from the total light-flux from a source of

light of one candle-power. candle-meter (kan'dl-mē*ter), n. A unit of illumination; the illumination from a standard eandle at a distance of one meter. See *illu-

mination, 1. Also called meter-candle. candlenut-oil (kan'dl-nut-oil), n. A limpid fixed oil with properties similar to castor-oil, obtained from the nuts of Aleurites Molluccana (Euphorbacew), a tree growing in the tropics. The natives of the South Sea Islands the the nuts, which contain over 50 per cent. of oil, on the ends of sticks and use them as candles. Also known as eboc-oil, artist's oil, and country-wainut oil.

and country-valuat oil.

candle-power, n.—Horizontal candle-power, the intensity of a source of light as determined by photometric measurements in the horizontal plane.—Mean horizontal candle-power, the mean value of the radins vector of the polar curve of horizontal distribution of light; the average value, expressed in candle-power, of the horizontal intensity of a source of light. —Mean spherical candle-power, the mean spherical intensity of a source of light, expressed in candle-power; the mean radius vector of the surface of spherical light-distribution of a source of light, see *illumination.—Spherical candle-power, the stiph standard.—Zonal candle-power, the photometric intensity, in candles, of a source of light, averaged for a given zone upon the imaginary sphere of which the source is the center; the zonal light-flux from a source candler (kan'dler), n.—One who candles (eggs).

candler (kan'dler), n. One who candles (eggs). See *egg-candler.

or tobacco.

Letters . . . concerning the effects of a Cane of black sealing-wax, and a Cane of brimstone in Electrical Experiments.

Philos. Trans., XLIV. i. 27.

African cane, the pearl-millet, Pennisetum spicatum.

—Maiden cane, a panic-grass, Panicum digitarioides, affording good grazing in wet places in the southern United States.—Mutton cane. (a) The seedlings of the large and small canes which furnish good pasture and which are specially sought by bears. [Alabama.] (b) A slender panic-grass, Panicum dichotonum, a valuable mative forage for sheep in the southern United States.—Ribbon-cane, a variety of sugar-cane unitive to America in which the stems are striped longitudinally with red and purple.—Spanish-cane, the reed Arundo Donex.—Sweet-cane. Same as sweet-fug.

cane-ash (kān'ash), n. See *ash1.

cane-blight (kān'blit), n. A disease which attacks the canes or branches of small fruits,

attacks the canes or branches of small fruits, such as currants or raspberries, ascribed to fungus parasites.

cane-borer (kān'bōr-er), n. An insect which

cane-borer (kān'bōr-er), n. An insect which bores in the canes of plants.—Blackberry caneborer, an American burnestid beetle, Agritus ruficollin, which bores the canes of the ruspberry, forming swellings known as gouty-galls. See Agritus, with cut.—Raspberry cane-borer, an American longicom beetle, Oberea bimaculata, whose larva bores in the canes of the raspberry and the blackberry.

Cane-brake region, specifically, an extensive belt in central Alabama and extending into Mississippl, formerly dominated by cane-brakes, but highly adapted to agriculture, and especially celebrated for the production of cotton. Also called the black bett, on account of the color of the soil, and (also cheigh from the character of the soil) the prairie region.—Cane-brake soil, the soil of the cane-brake region, consisting typically of disintegrated rotten limestone combined with abundant humus, giving it a very black color.

cane-fruit (kān'fröt), n. A commercial name for fruits borne by plants of the genus Rubus,

for fruits borne by plants of the genns Rubus, chiefly blackberries and raspberries.

cane-knife (kān'nif), n. A large knife, with a wide blade and a sharp barb or hook at the back of the blade, used in cutting sugar-cane. canellin (ka-nel'in), n. [canella + in2] A name given to the mannite found in Canalla alba by Petros and Roninet, who mistook it for a peculiar kind of sugar.

canello (kä-nel'o), n. [Pg. canelo, piece of a horseshoe, < canela, canella, cinnamon: see eannel2.] A name at Goa for the pataca, equal

to 4 erusados.

canephora (ka-nef'o-rä), n. [L.] Same as canephore.

cane-press (kān'pres), n. ln sugar-manuf., a cane-mill. See sugar-mill.

cane-rush (kan'rush), n. ln some American colleges, a concerted tussle between two classes which they struggle for the retention or capture of a cane.

cane-rust (kān'rnst), n. 1. The anthraenose of blackberry and raspberry. See *anthrac-nose.—2. The red rust of blackberries, due to the acidial stage of Puccinia interstitialis.

canestrella (kan-es-trel'ā), n. [It., fem., \(\can \) canestrello, m., dim. of canestro, \(\chi \) L. canistrum, a basket: see canister.] A majolica fruitbasket, usually with openwork sides.

Canes venatici (kā'nēz vē-nat'i-sī). [L.] The hunting dogs or hounds, Asterion and Cleara, a modern constellation formed by Hevelius between Boötes and Ursa Major.

canework ($k\bar{a}n'werk$), n. 1. Interwoven or braided strips of cane used to form or fill in 1. Interwoven or the seats or backs of chairs or settles, panels in carriage-bodies, etc.—2. In carriage-painting, an imitation of braided cane painted upon

run.

candle-wick (kan'dl-wik), n. [ME. candyl-a carriage-panel.

weke, AS. candelwcoca.] The wick of a candle.

canfieldite (kan'fēld-īt), n. [Named after F. A. Canfield of Dover, New Jersey, a mining engineer.] A rare sulphid of tin and silver, containing also a small amount of germanium, found in black octahedrons with brilliant metallie luster at La Paz, Bolivia.

candlewood, n. 3. Any resinons wood used can-filler (kan'fil'er), n. A machine used for filling cans, as with soups or vegetables, pre-pared paints, etc. The tank may also be fixed in one position and the cans placed on a traveling-apron or con-veyer and pass under the tank to be filled.

cangenet, n. A distortion or misprint of can-zonet. Shak., L. L. L., iv. 2.

cangiante (kän-jē-än'te), u. [It. cangiante, noting a metallic luster of changing tints, when viewed from different points, found on old Moorish and majolica wares.

of the order Campanulales, typified by the cangue (kang), v. t.; pret. and pp. cangued, genus Candollea.

Ppr. canguing. To sentence to the cangue. ppr. canguing. To sentence to the cangue. can-hoop (kan'höp), n. An American shrub, the smooth winterberry. Also called hoop-

canicide (kan'i-sid), n. [NL. *canucida, < L. canis, dog, + -cida, < cædere, kill.] A dog-

The dead dog is hing by his heets, so that his nose just touches the ground, and the canicide is compelled to heap wheat about him, till he is entirely covered.

N. P. Willis, Summer Cruise in Medit., xli.

canicular, a. 2. Relating to the dog: as, a

It is well if your friend or mistress be content with these canicular probations. Lamb, Essays of Elia, Pop. Fallacies.

Canicular eyele or period, otherwise Sothiac or Sothic period [tr. Gr. $\Sigma \omega \theta \iota \alpha \kappa \eta \pi \epsilon \rho \iota \sigma \delta \sigma$, 'the dog-star period,' $\Sigma \omega \theta \iota \zeta \sigma V \Sigma \omega \delta \dot{\epsilon}$, the Egyptian name of the dog-star), a cycle recognized in ancient Egypt, equal to 1,461 years of 365 days each, or 1,460 Julian years of 365] days each canin (kä'nēn), n. [Tagalog canin, food, bread.]

Rice boiled in water, eaten by the natives in place of bread. [Philippine Is.]

canine, n. 4. One of the sharp teeth which project beyond the others in the jaw of a fish.

caninity (ka-nin'i-ti), n. Canine nature; a canine trait.

canivorous (ka-niv'ō-rus), a. [L. caus. dog, + -vorus, < vorare, devour.] Dog-devouring. -vorus, N. E. D. ⟨ vorare, devour.]

canjar (kän'jär or kun'jär), n. [Also canjar, eangiar, cunjur, eunger, (Hind. *khanjar, < Ar. khanjar, a dagger. The Ar. word also appears in European use as handjar.] A small two-edged Arab cutlass or poniard.

The marabout . . . sprung forward with the bound of a tiger, . . . and brandished aloft the cangiar, or poniard, which he had hidden in his sleeve.

canker, n. 1. (b) (2) An irregular excrescence on the trunks or branches of woody plants, caused by the perennlal effort of the tissues to overcome an injury. Cankers may be originated by various causes, such as accidental wounds, injuries by frost, insects, fungi or bacteria, or various combinations of these. various combinations of these.

But undoubtedly the most important of the woody excrescences on trees are *cankers*. A *canker* is the result of repeated frustrated attempts on the part of the callus to heal up a wound. . . The dead parts, of course, remain unthickened, and the portion in which the Fungus is at work may for the time being grow more rapidly. Such *cankers* often commence in mere insect punctures, frosted buds, cracks in the cortex, &c., into which a germinating spore sends its hypha.

Encyc. Brit., XXXI. 577.

spore sends its hypha. Encyc. Brit., XXXI. 577.

(d) A disease of fowls affecting the mouth and windpipe. It produces ulceration and often ends in death.—

Apple-tree canker, a disease of the apple-tree which usually causes the rupture of the birk and the death of larger or smaller areas of the wood. One form is attributed to the fungus Sphæropsis Malorum, another to Nectria ditissima. It has been shown that some cankers are produced by bacteria.—Hemp canker, a destructive disease of hemp due to a species of Sclerotnia.—Ivy canker, a disease of unknown origin producing cankerous growths upon ivy twigs, which may result in the death of the plant.—Larch canker, a cankerous formation on the larch, said to be due to the disconvectons fungus Dasysepha Willkommii.—Oak canker, a disease of twics and young stems of oak, attributed to the pyrenomyectous fungus Dinporthe Talcola.—Plum canker, a disease of plum-trees, said to be due to Nectria ditissima.

canker-sore (kang' kèr-sōr). n. Aphthous ulcer of the mucous membrane in the angle

ulcer of the mucous membrane in the angle between the lip and the gum.

cannabin, n. 2. A brown liquid alkaloid said to be isolated from Indian hemp. Cannabis Indica. It is hypnotic .- Cannabin tannate, a yellowish-gray bitter and astringent powder of undetermined composition, prepared by precipitating a solution of cannabin with taunic acid. It is hypnotic and narcotic.

Cannabinaceous (kan*a-bi-nā'shius), a. Of cannabinaceous (kan*a-bi-nā'shius), a. Of the precipitating a langt of property of phase is a linear function of the partyre of or resembling plants of the heap of the property of the precipitating and property and property of the property o

cannabinaceous (kan"a-bi-nā'shius), the nature of or resembling plants of the hemp

cannabindone (kan-a-bin'don), n. [Appar. < NL. cannal(is) ind(ica) + -onc.] A red syruplike compound, $C_8II_{12}O$, obtained from Indian hemp. It has a narcotic effect.

cannabinine (kan-a-bin'in), n. [cannabin + -ine².] A volatile alkaloid found in small quantities in Indian hemp.

cannabinol (kan'a-bi-nol), n. [cannabin + -ol.] A colorless resinous and very poisonous compound, $C_{21}H_{26}O_2$, found in Indian hemp Cannabis Indica).

cannabism (kan'a-bizm), n. [L. cannab(is) + -ism.] Addiction to the use of Indian hemp or hashish.

Cannaceæ (ka-nā'sē-ē), n. pl. [NL. (Link, 1821), < Canna + -aceæ.] A family of monocotyledonous plants of the order Scitaminales, the canna family, containing the single genus Canna (which see).

canna-disease (kan'ä-di-zēz"), n. See *disease. canned (kand), p. a. Packed in cans or tin Canned (Rand), p. d. Packed in cans or tin boxes.—Canned goods, articles of food, chiefly meats, fish, vegetables, and fruit, preserved by inclosure in tin cans or other vessels, which are heated to or somewhat beyond the boiling-point of water and while at that temperature are scaled, generally by soldering, thus destroying the vitality of ferment-organisms and excluding air. The manufacture of such goods is now very extensive, some 72,000,000 cans of peas, 235,000,000 cans of tomatoes, 264,000,000 cans of sweet corn, and 206,000,000 cans of salmon alone being put up annually in the United States. Called in Great Britain tinned goods.

cannelon (kä-nel-on'), n. [F. cannelon, a channeled mold for cheese; Pg. canelocs, pl. (see def. 2) \(\) canela, cinnamon: see cannel2. \(\] 1. Puff-paste baked in the form of a cane. \(-2 \). A sort of cake. See the extract.

Canelbes, s. pl. canelons, great long comfits, with pieces of cinnamon mixed in them; so they also called the pieces of citron covered with sugar and some other dainties which made part of a festival.

Lacerda, New Dict. Port. and Eng. Lang., p. 191.

canner (kan'èr), n. One who cans fish, meat, fruit, or other things for preservation.

Cannibal apple. See *apple.

cannibal-bug (kan'i-bal-bng), n. Any one of the predatory heteropterous insects of the family Reduviidæ. Also called pirate-bug and assassin-bug. Familiar examples are the 'conenoses' (Conorhinus), and the 'kissing-bug.

cannibalic (kan-i-bal'ik), a. Of or pertaining to a cannibal; characteristic of a cannibal.

cannibality (kan-i-bal'i-ti), n. Cannibalism; the eating of human flesh. N. E. D. Cannon dollar. See *dollar.—Nursery cannons, in English billiards, earoning by keeping the balls together. Revolving cannon. See machine-gun.

cannon, v. 11. trans. In loading logs by steamor horse-power, to send up (a log) so that it swings crosswise, instead of parallel to the

cannonarchy (kan'on-är'ki), n. [cannon + Gr. -αρχία, rule.] Government by military Gr. -αρχία, rnle.] Government by militar force: as, "the cannonarchy of Napoleon, Mrs. Gore. [Rare.]

cannoned (kan'ond), p. a. Furnished with or defended by cannon.

There, where Gibraltar's cannon'd steep
O'erfrowns the wave.
M. Arnold, Sonthern Night, st. 6.

Cannstatt skull. See *skull1.
Cance landau. See *landau.—Double cance, a peculiar form of cance used in some of the Polynesian islands, consisting of two cances connected by a platform. Only one of the cances is provided with a sail, while the other serves the purpose of an outrigger.

canoe-burial (ka-nö'ber"i-al), n. The custom of depositing corpses in canoes, practised by the Indians of the coast of Washington.

canomai (kä-nō'mī), n. [Bisaya.] In the Philippine Islands, a tree, Diospyros multi- cantabile, a. II. n. A piece or passage of mu-flora, belonging to the coony family, having sic in a flowing, song-like style. dark, ebony-like heart-wood striped with lighter bands. The fruit is used by the natives to intoxicate fish.

canon¹, n.—Double canon, in music, a canon with two subjects used nearly simultaneously.—Infinite canon. Same as circular canon (which see, under canon¹).

Cañon spring. See *spring. cañon. v. i. 2. To become narrow and steepcañon, v. i. 2. To beco walled: said of a valley.

cañon-finch (kan'yon-finch), n. The southwestern towhee, Pipilo fuscus mesoleucus. Also called canon-towhee.

energy. This distribution, on account of its unique importance

in the theory of statistical equilibrium, I have ventured to call canonical. J. W. Gibbs, Statistical Mech., p. xi. Canonical ensemble, in statistical mechanics, an ensemble of systems so distributed that the index of probability of phase is a linear function of the energy.

Canonics (ka-non'iks), n. In theol., the study of the formation and authority of the

canon of Scripture.

canonist, n. 2. One who lays down canons or laws for guidance in the systematic or scientific

treatment of a subject. Horne Tooke. canonistical (kan-o-nis 'ti-kal), a. Relating to canonists or to their expositions of the canons.

cañon-towhee (kan'yon-ton"hē), n. Same as *cañon-finch.

cañon-valley (kan'yon-val"i), n. A narrow, steep-walled valley.

Mother-Lode (Cal., Ransome) exhibits parts of the uplifted and dissected peneplain of the Sierra Nevada; it was strewn with gravels and flooded with lavas and voice canic conglomerates before uplift; it is now trenched by canyon-valleys.

Science, June 14, 1901, p. 950.

canoodle (ka-nö'dl), v.; pret. and pp. canoodled, ppr. canoodling. [Origin obscure.] I. trans. 1. To pet; fondle.—2. To paddle (a canoe). [A punning use.]

II. intrans. 1. To bill and coo; spoon.

Now Emperor William wants to kiss his majesty, the Sultan, who he says is a daisy of moderation. The first thing Germany knows, William will be rushing off to canoodle with Mr. Gladstone's "Assassin!" Daily Newspaper.

2. To go snacks; share the profits. [Slang in all uses.

canoodler (ka-nöd'ler), n. One who canoodles. [Slang.] canope (ka-nop'), n. Same as *canopus2.

Under a block of stone 1 came scross a chest containing canopes. J. de Morgan, Smithsonian Rep., 1896, p. 602.

canophilist (ka-nof'i-list), n. [L. canis, dog, + Gr. φίλεῖν, love, + -ist.] One who loves dogs.

A distinguished author, well known as a canophilist. Lindsay, Mind in the Lower Animals, 1. 24.

canopus² (ka-nō'pus), n. [NL., also canopos; a back-formation from Canopicus, Canopic: see Canopic.] In Gr. archæol., a modern name for a cinerary jar representing the human figure, somewhat like the ancient Egyptian Canopic vases.

Canopy standard, in carriage-making, a light iron or steel post with bolts and nuts on the lower end and flat-turned lngs at the top.—Canopy top, in carriage-making, a light top made with ribs like an unbrella, or on a light frame, and attached to the carriage-body by one or marriage posts. more iron posts.

canroy (kan'roi), n. [Origin not ascertained.] A machine for brushing the lint from the surface of cotton cloth: used in calico-printing establishments preparatory to printing. Ouerr, Bleaching and Calico-printing, p. 26.

cant¹, n. 11. An oblique line which cuts off a corner of a rectangle; an oblique side of a polygon; an oblique plane which cuts off the corner of a cuboid; an oblique face of a crystal; a slanting face of a bank. — 12. A sudden movement, as on board ship, resulting in a tilting up.—13. One of the pieces which form the ends of the buckets on a water-wheel.

cant¹, v. t.—Canting motion. See *motion.
cant², n. 6. A canting person.
cant⁶ (kant), n. 1. A portion, share, or division; a parcel or bundle: as, a cant of hay; a

cantharene (kan'thacant of growing grain assigned to a reaper. [Chiefly dialectal.]—2. In civil law, a method of partitioning property the title to which is vested in two or more parties in common.

Cant. An abbreviation of Canticles.

Cantabrize (kan'ta-briz), v. i. [NL. Cantabr(igia), Cambridge, + -ize.] To imitate or [NL. Cantapattern after Cambridge or its university. Fuller, Ch. Hist., IX. vii. § 47. Cantal cheese. See *cheese1.

Cantaliver crane. See *crane2.

cantankerate (kan-tang'ke-rat), v. t.; pret. and pp. cantankerated, ppr. cantankerating. To make cantankerous; provoke to anger; 'rile.'

You may happify your enemies, cantankerate your opponents, and injure your own cause by it.

Haliburton, Clockmaker, XXIV.

cantaro (kän'tä-rō), n. [Sp. cántaro = It. cantaro, \ L. cantharus, \ Gr. κόνθαρος, a pot, tankard: see can-

tharus.] A vessel of hammered brass or copper used in Spain for holding or carrying water. Cantate Sunday. See *Sunday.

cantator (kan'ta-tor), n. [L.] A male singer. [Rare.] cantatorium'(kan-

ta-tō'ri-um), n.; pl. cantatoria (-ä).
[ML.] A Roman
Catholic servicebook including the antiphons and the gradual.

cant-board. n. In carriage-making, a board upon which are placed the geo-

metrical lines that govern the framing and the exterior curved surface of a coach or other carriage-body of a similar character.

cantem, kantem (kan'tem), n. [Belgian, appar. from a Picard form of F. centime.] The Belgian centime.

canter¹, v. i.—Cantering rhythm. See *rhythm. canter⁴ (kan'ter), n. In a sawmill, a machine

placed over the carriage and used to cant or roll over the log on the carriage in making the first cuts; a canting-machine. It consists of a chain wound round a drum or shaft and carrying, at the end, a cant-hook that engages the log, the revolution of the shaft lifting the chain and hook and turning the log.

Canterburian (kan-ter-bū'ri-an), a. 1. Of or pertaining to the city of Canterbury in Engaged.

land, the seat of the Anglican archbishop who is also the Primate of all England .- 2. Of or pertaining to the archiepiscopal see itself.

Canterburianism (kan-tér-bů'ri-an-izm), Canterburian + -ism.] The High-churchism of England during the seventeenth century as represented by the see of Canterbury.

The Canterburianism of the times of Charles the First did that hapless monarch much harm.

Hugh Miller, First Impressions, xx.

Canterbury tale. See *tale1.

canteroy (kan'te-roi), n. [In Mysore Kanthiravi hun, named from Kanthiravā Rāyā, 'the lion-voiced king,' who reigned in Mysore from 1638 to 1659 (Skt. kanthirava, lion, & kantha, throat, + rava, noise).] A name in Mysore for an Indian gold coin, the sultani fanam.

canthal (kan'thal), a. [Gr. κανθός, the angle of the eye, + -all.]
1. Of or relating to a canthus, in any use of that

A black canthal and temporal streak [is] sometimes present. Proc. Zool. Soc. London, 1903,

Canthal scale, canthal shield, a scale covering or lying on the canthus rostralis, that angular part of a reptiles head which lies in front of the eye and between the top and side of the head. The relations of this scale or scales are much need in civing the observed.

cantharic acid with

Scutellation of Top of Head of Anolis.

lime. It has an odor like that of turpentine and camphor and boils at 135° C.

cantharic (kau-thar'ik), a. [canthar(is) +-ic.]
Pertaining to or derived from cantharidin.—
Cantharic acid, a crystalline, monobasic acid, C₁₀H₁₂O₄,
obtained by treating cantharidin with hydriodic acid. It
melts at 278° C.

Cantharidal collodion. See *collodion.

cantharidate (kan-thar'i-dat), v. t.; pret. and pp. cantharidated, ppr. cantharidating. [can-tharid + -ate².] To treat or impregnate with cantharides or any of its preparations.

cantharidated (kan-thar'i-da-ted), p. a. Containing cantharides.



cantharidism (kan-thar'i-dizm), n. [cantharid+ ism.] A state induced by the use of cantharides in poisonous amount, the chief symptoms of which are strangury and the passage of blood in the urine.

cantharidize (kan-thar'i-dīz), v. t.; pret. and pp. cantharidized, ppr. cantharidizing. [can-tharid + -ize.] To treat with cantharides. cantharoid (kan'tha-roid), a. Resembling a

cantharus, or large two-handled cup: said of Greek vases. See cantharus, 1.

cantharophilous (kan-tha-rof'i-lus), a. [Gr. κάνθαρος, beetle (see Cantharis), + φίλος, loving.] In bot., pollinated, or having the flowers pollinated, by beetles.

cantharus, n. 5. A chandelier used in churches. described as a disk of metal having eandles

fixed upon it.

the corner of the eye, + ἐκτομῆ, excision.] In surg., excision of a portion of the eanthus of

Cantherines (kan-the-ri'nēz), n. [NL., prop. Canthorhinus, \(\subseteq\) L. canthus, wheel (1), + Gr. \(\rho(\chi(\rho(\nu)\chi)\), nose.] A genus of file-fishes of the family Monacanthidæ, found in the tropical seas, distinguished by the smooth dorsal spine. C. sandwichensis of the Hawaiian Islands is the typical species.

cantholysis (kan-thel'i-sis), n. [NL., \langle Gr. $\kappa a \theta b \phi_{S}$, the corner of the eye, $+ \lambda i \sigma u_{S}$, dissolution.] An operation for division of the ean-

canthorrhaphy (kan-thor'a-fi), n. [Gr. $\kappa a v \theta \delta c$, the corner of the eye, $+ \frac{\delta}{\rho} a \phi \eta$, sewing, stitching.] The stitching together of the two edges of the divided eanthus of the eye.

canthotomy (kan-thot/ δ -mi), n. [Gr. $\kappa a \imath \theta \delta c$, the corner of the eye, + - $\tau o \mu i a$, $\langle \tau a \mu \varepsilon i \nu$, ent.] In surg., division of either canthus of the eye. Canthus roatralls, the angular portion of the head of a reptile in front of the eye and between the top and side of the head. of the head.

canticle, n. 5. Any song or hymn, preperly one that is brief and simple.

cantico, canticoy, n. See kanlikoy. canting, p. a. 3. Of the nature of professional cant or jargon: used by or peculiar to a particular class, profession, or subject: as, canting terms; canting language.—Canting coat. (b) A term opproblously applied in the seventeenth century to the Geneva gown worn by Presbyterian ministers, and others.

canting (kan'ting), n. [cant2, v., + -ing2.] 1. The act of speaking in a whining toue: an apparently insincere use of religious or pious phraseology.—2. The use of the terms or phraseology of a particular class, as of beggars, thieves, gipsies, tramps, etc., or of a particular profession or subject.—3. Sale by auction. canting-machine (kan'ting-ma-shēn"), n. Same as *canter4.
cantion; n. 2. Incantation; a magic spell.

The Arcane Cantion . . . harps much upon this Point, Cudworth, Intell. Syst., 1. 349.

cantline (kant'lin), n. Naut., the space between the sides or ends of barrels when they are stowed side by side. Should the bilge of one barrels be stowed so that it rests in the cantline of two other barrels, it would be said to be stowed bilge and cantline. Also calted cuttine.

canton¹, n. 6. In arch., a thickened or emphasized corner of a building, as where two pulgaters are set one on each side of the expension of the control of

pilasters are set one on each side of the extreme angle. See cantoned (with cut).

canton¹, v. I. trans. 3. In her., to furnish with a canton, or furnish a canton with: as, a eross argent cantoned with four scallop-shells.

II. intrans. To quarter one's self in a tem-

porary hut or eantonment.

cantonalism (kan'ton-al-izm), n.

[cantonal + -ism.] The cantonal system of administrative government. See canton1, n., 3.

Canton china. See *china.

speaks the Cantonese dialect.

Cantonese (kan-ton-ēs'), a. and n. I. a. Of or pertaining to Canton.

II. n. 1. A native of Canton.—2. The Chinese dialect of Canton.—3. A person who

cantonist (kan'ton-ist), n. A child born in a Russian military cantonment. N. E. D.

The so-called military cantonists, who supply a yearly milingent of recruits.

Fraser's Mag., L. 481. contingent of recruits.

cantonment, n. 3. The placing of troops in

temporary quarters.

Canton's phosphorus. See *phosphorus. cantor, n. 2. Specifically, in Germany, the music-master in a choir-school or similar insti-

[canthar- tution, or the kapellmeister of a church. See kapellmeister.

Cantorian (kan-tō'ri-an), a. Of or pertaining to Dr. Georg Cantor, mathematical professor in the University of Halle-on-the-Saale.—Cantorian ordinal number, one of a collection of designations which distinguish individually all the positions of members in each Cantorian series, the first number designating the first position both between all the numbers and all the positions and between any part of the numbers and the positions designated by them. The first class of Cantorian ordinals consists of those numbers of the series which are not preceded by innumerable others. The second class is composed of those numbers of the series only each of which is preceded by a denumeral collection of others.—Cantorian aeries, a series of objects, called its members, so arranged that every part of the series has a first member: called by Cantor himself a well-ordered collection (vohlgeordnete Menge).

cant-purchase (kant'per"chās), n. Naut., a taekle having one of its bloeks secured to the Cantorian (kan-tō'ri-an), a. Of or pertaining

tackle having one of its blocks secured to the masthead and the other to the hook in the blubber of a dead whale alongside: used for turning the whale over while it is being stripped or flensed.

cant-rail, n. 4. The top rail of a coach- or other heavy carriage-body. The outer side determines the curve lengthwise, and by it the turn-under of the standing pillars and all other curves of the body are defined. cant-splice (kant'splis), n. Same as cont-

Cantuar. An abbreviation of the Latin Can-tuarensis, 'of Canterbury': used, for example, cap-bar (kap'bar), n. In cotton-spinning, an of Canterbury.

cantuta (kan-tö'tä), n. [Also kantuta. Peruvian (Quiehua and Aymara).] A flowering shrub, Kantuta buxifolia, from the high plateaus of southern Peru and Bolivia, where it grows in clusters in altitudes not exceeding 13,000 feet. There are red, scarlet, yellow, and white varieties. The flower is often represented on ancient pottery and textiles. cant-window (kant'win''dō), n. A projecting bay- or oriel-window the sides of which are eanted, that is, sloped with relation to the main wall.

canun, n. Same as kanun.

canvas, n., 1. (c) In cricket, a sheet of white earwas stretched on the boundary as a background behind the bowler, to aid the batsman in seeing the ball. [Colloq.]-4. A painting executed on canvas.

A much damaged canvas of this subject in the Wallace collection, at Hertford House, may be the larger of these.

Claude Phillips, in Portfolio, N. S., XXV. 99.

5. Words written to an air without reference to the sense, simply to indicate to the poet or song-writer the measure of the verses he is to song-writer the measure of the verses he is to supply. [Chiefly French.]—Roofing-canvas, a thick, heavy duck used to cover the roofs of street-cars, the decks of steamboats, etc. It is nailed down on thick fresh paint and is given several coats of paint to make it water-tight.—Willesden canvas, a compact water-proof and rot-proof canvas prepared by passing ordinary canvas through a bath of Schweitzer's reagent and then drying it. It is of a green color.

caoutchouc, n. Products more or less resembling caoutchouc are obtained by the application of the vulcanizing process to colza and other oils, and are employed to mix with or partly replace real india-rubber. A substance which seems to be identical with natural caoutchouc has been obtained in the scientific laboratory by polymerization of Isoprene, a hydrocarbon derived from turpentine; but the process has not become commercially practical.—Caoutchouc naphtha, a mixture of liquid hydrocarbons obtained by subjecting india-rubber to destructive distillation.

caoutchouc-oil (kö'ehūk-oil), n. A mixture

caoutchouc-oil (kë'ehûk-oil), n. A mixture of hydrocarbons obtained by the destructive distillation of caoutchoue, and consisting of

of hydroearbons obtained by the destructive distillation of caoutchoue, and consisting of isoprene (C₅H₈), kautschin (C₁₀H₁₆), and hevene (C₅H₈), kautschin (C₁₀H₁₆), and hevene (C₅H₈).

Cap¹, n., 2. (a) (2) The calyptra of a moss. (m) A cover of leather or other material for the lens of a camera to exclude light and dust. If a shutter is not used, the exposure is osually made by removing and replacing the cap. (a) In carriage-trimming, a funnel-shaped leather pocket used to cover the lower ends of carriage-bows and the ends of the bow-irons. (o) In arch: (1) Same as capital: in common use among masons. (2) A coping or other finish of the top of a post or pier or wall, especially anything projecting slightly beyond the vertical faces. Hence—(3) The horizontal molding finishing at the top a window-trim, door-trim or architrave. (4) The uppermost member of a hand-rail, as in a balustrade or the like; that part of a hand-rail which is molded to allow the hand to grasp it. (p) One of the white spots which appear at the poles of Mars and increase and decrease with the changes of the planet's seasons. (q) In steam-skidding, a cone of sheet-iron or steel, with a hole in the end through which a chain passes, which is fitted over the end of a log before snaking it, to prevent it from catching on stumps, roots, or other obstacles. (r) In minum, a horizontal timber resting on a prop or on one or more legs, used to support the roof.—Cap and bells. (a) A head-dress consisting of a cap set with bells, worn by court fools in the middle ages. (b) Same as marotte.—Cap and gown, the cap (mortar-board) and scholastic gown worn by students in English and some American universities and colleges; hence, a scholar or professional man.—If the cap fits, if the remark applies.—Invisible

Capernaitical

cap, a cap the wearing of which is supposed to render one invisible.—Nuclear cap. In neurol., a mass of staining-substance found on one side of the meleus in nerve-cells.—Pitch cap, a firm pitch plaster applied to the scalp until it is set, and then quickly torn oft: used formerly as a rapid depilatory.—Polar cap of cold air, the mass of cold air which covers the north or the south polar region of the earth, flowing equator-ward into the westerly currents and combining with them to make the general circulation of the atmosphere.—Polar cap of Mars. See *cap1, 2(p).—To put on one's thinking or considering; cap, to pause and consider carefully before deciding or acting.

Cap1, v. t.—To cap all, to crown all; in addition to everything else.—To cap the hocks, so to injure the hocks of a horse as to cause the formation of swellings over their prominences behind.

Cap2, n.—To kisa caps with, to drink out of the same

cap1.

capa, n.—To kisa caps with, to drink out of the same cup or bowl with. [Scotch.]
capacitance (kā-pas'i-tans), n. [capacit(y) + -ance.] In elect., a term proposed for capacity resterned. eity reactance. See capacity of a conductor and \star reactance.

capacity, n. 7. The ability of a stream to transport land-waste, measured by the quan-

transport land-waste, measured by the quantity earried past a given point in a given time.

—Atomic capacity. See *atomic.—Calorific capacity, See *calorific.—Capacity for vapor, See *capor.—Capacity ratio, ratio of volume; ratio of cubic contents: used in referring to the relative volume of engine-cylinders.—Capillary storaga capacity. See *storage.—Dynamical capacity, See *caporative.—Testamentary capacity, legal ability to make a valid will.

attachment to a drawing-frame for supporting the bearings of draft-rolls.

cap-cell (kap'sel), n. See *cell.
cap-cloud (kap'kloud), n. A smooth white eloud surmounting the summit of a mountain; a cloud-eap.

a cloud-eap.

cape², n. 3. A Cape diamond.—Cape artichokeflower, Lewcadendron Cinaroides. See Lewcadendron.

—Cape bar, bass, boys, box, cart, cotton, cowslip,
honeysuckle. See *barl, ctc.—Cape diamonds, diamonds from the Cape of Good Hope (South Atrica): distinguished elliptically as Cape, fine Cape, steer Cape.—

Cape Girardeau sandstone. See *sandstone.—Cape
gum, hansom, harness. See *sandstone.—Cape
gum, hansom, harness. See *gum², etc.

Capeador (kä "pā-ä-dōr'), n. [Sp., < capear,
< capa, cape: see cape¹.] In bull-fights, the
person who excites the bull and distracts his
attention by using a red cape.

attention by using a red cape.

cape-chisel (kāp'chiz"el), n. [*cape for chape + chisel.] A narrow cold-chisel; a narrow chisel used for cutting grooves or slots in metal.

cape-cloud (kāp'kloud), n. A stationary cloud or cloud-mass above a cape or promontory, at the summit of a standing wave of air pushed up by the resistance of the cape to the wind; specifically [cap.], the cloud-bank around the Cape of Agulhas at the southern end of Africa. cape-hen (kāp'hen), n. A name given: by sailors to the giant fulmar, Ossifraga gigantca, and to the great southern skua, Megalestris antarcticus.

capellone (kä-pel-lo'ne), n. Ilt. dial., \capello, (L. eqpillus, hair.] A silver eoin of Modena, equal to 6 soldi or 8 denarii.

capelocracy (kap-e-lek ra-si), n. [Gr. κάπηλος, atradesman, huckster, chapman, + -κρατία, < κραartadesima, intester, chapman, 1 - sparm, γρα-τείν, rule.] The shopkeeping class or their in-terests. Bulwer. cape-net (kāp'net), n. [cape¹ + net¹.] A kind of netting similar to bobbinet.

caper-berry (kā'per-ber"i), n. The fruit of the common caper-bush, Capparis spinosa, or of an African species, C. decidua: sometimes used like capers.

caperer, n. 2. The caddis-fly: so named from its daneing flight.

its daneing flight. caperidin (ka-per'i-din), n. [caper(ata) (see def.) + -id + - in^2 .] A crystalline neutral compound, $C_{24}H_{40}O_{2}$, obtained from the lichen Parmelia caperata. It melts at 262° C. caperin (kā'pe-rin), n. [caper(ata) + $-in^2$.] A crystalline compound, $C_{36}H_{60}O_{3}$, found in the lichen Parmelia caperata. It melts at 243° C. Capernaism (ka-per'na-izm), n. The materialistic doctrine of transubstantiation held by the istic doctrine of transubstantiation held by the

Capernaites. Also Capharnaism.
Capernaite (ka-per'na-it), n. [NL. *Capernaites, (L. Capernaum, Gr. Καπερναοίμ.] 1. An inhabitant of Capernaum.—2. A designa-

tion applied figuratively, in the sixteenth and seventeenth centuries, to those who, from John vi. 52, 59, held to the doetrine of transubstantiation in its gross form. Also Capharnaite.

Capernaitic (ka-per-na-it'ik), a. Characterized by materialistic conceptions like those of

the Capernaites. Capernaitical (ka-per-ng-it'i-kal), a. Same as

Capernaitically (ka - pér - na - it'i - kal - i), udv. After the manner of the Capernaites.

caper-tree, n.— Florida caper-tree, Capparis Jamaicensis, a shrub or small tree of peninsular Florida and the Keys, ranging to Jamaica.

Capitolina (kap-i-tō-lī'nā), n. pl. [L.] Same as Capitoline games.

cap-fungus (kap'fung'gus), n. A fungus having an expauded pileus or cap at the apex of the stipe or stem, as an agaric or mushroom. Same as

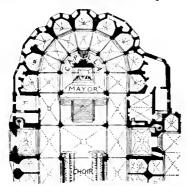
Capharnaitic (ka-fär-ng-it'ik), a.

*Capenaitic

Capias ad andiendum indicium, a writ to bring a prisoner to judgment after conviction of a misdemeanor, if he is not in court when called.—Capias ad testificandum, a writ to compel the attendance of a witness who has refused or neglected to obey a subpena.—Capias utlagatum, in old Eng. law, a writ to arrest an outlaw: when general if directs the outlaw to be brought to court on a general return-day; when special it directs, in addition to the arrest, the seizure of the property of the outlaw, and the summoning of a jury to assess its value. Bouvier, Law Dict.

Capilla mayor (kii pôl/vii mō vôy). [So

capilla mayor (kä-pēl'yā mä-yōr'). [Sp., larger chapel.] In Spanish churches, a sceondary choir, or else the eastward part of the



Capilla Mayor, Barceloua Cathedral.

ehoir, separated from the western part usually by the whole width of the transcpt, which is left open. In no other land is this feature common. The high altar stands in the capilla mayor, which is raised by steps above the aisles, while the choir proper remains on their level, as at Barcelona, Avila, and Leon. Also called back-choir.

capillaritis (kap "i-la-rī'tis), n. [NL., < L. capillaris + -its.] Inflammation of the capil-

lary vessels.

capillarity, n.—Constant of capillarity. See eapillary *constant.—Laplace's theory of capillarity, a mathematical theory of surface-tension based upon the assumption of molecular attraction, very intense at small distances, but diminishing rapidly as the distance increases. At a certain distance, called the range of molecular attraction, it becomes negligible. Laplace's work forms the basis of nearly all modern theories.

Capillary analysis. See *analysis.—Capillary circulation, the passage of blood through the capillaries from the arteries to the veins during which it gives up its oxygen to the tissues and takes from them the waste products.—Capillary depression of the barometer. See *harometer.—Capillary dimple. See *dimple.—Capillary lake, the entire mass of blood contained within the capillary vessels of the body.—Capillary navus, pulse, etc. See *mavus, *pulse|, etc.

capilliculture (ka-pil'i-kul-tūr), n. [L. capillus, hair, + cultura, culture.] Methodical eare

lus, hair, + cultura, culture.] " Methodical care

of the hair.

capischol (kap'i-skol), n. Same as *capischolus. capischolus (ka-pis'kō-lus), n. [ML., also capiscolus, a popular form of caput scholæ, head of the school 1. A survey of t

capiscolus, a popular form of caput scholæ, head of the school.] A precentor or kapellmeister. Also capiscolus.

capital³, n.—Lotus capital or column, in Egupt. arch., a capital or column the form or decoration of which is suggested by the blue lotus of the Nile. There are two common types, the open or bell-shaped and the closed or bud-shaped. See lotus, 3.

In 1885 Marcel Dieulafoy made the first systematic effort to connect the volutes of the Egyptian lotus capitals with the volutes of the Greek Ionic.

Goodyear, Grammar of the Lotus, p. 72.

Syrian capital, a corbeled capital of one of the forms used in Syria during the fourth century and later. H. C. Butler, Arch. and Other Arts, p. 29.—Tuscan capital, a capital of the Tuscan order (which ace).

capitan (käp-i-tän'), n. [Sp.: see captain.]

1. A leader; a capitain.—2. Same as capi-

capitate (kap'i-tāt). r. t.; pret. and pp. capitated, ppr. capitating. [See capitate, a.] To put a head upon; specifically, in math., to prefix to (a symbol) a number not less than the highest digit contained in it: thus 19 months. capitated into 212.

Capitelliformia (kap"i-tel-i-fôr'mi-ä), n. pl. [NL., < L. capitellum, a capital (in architecture), + forma, form.] A suborder of Polychæta. They have a conical prestomium, without prestomial processes, but with a pair of large retractile ciliated organs, no cirri, buccal region eversible, pharynx not armed, and setæ unjointed. They are blood-red burnot armed, and rowing worms.

Capitoline games.

capitol (kä-pi-töl'), n. [Pr.] The head or chief of the Félibres in the south of France. capitular, a.—Vicar capitular. See *vicar. capitulum, n. 6. In actinians, the upper part

of the column as distinguished from the scapus. cap-jewel (kap'jö'el), n. Same as end-stone. **Capnodium** (kap-nō'di-um), n. [NL., alluding to the color, \langle Gr. καπνώδης, smoky, \langle καπνός, smoke.] A genus of fungi proposed by Montagne, apparently not distinct from Apiosporium.

Sportam. Capnoides (kap-nō-ī'dēz), n. [NL. (Adanson, 1763, adopted from Tournefort, 1700), \langle Gr. $\kappa a\pi r \delta \epsilon$, smoke, the name applied by Theophrastus and Dioscorides to the fumitory plant on account of its sooty odor, + eldoc, form.] A genus of dicotyledonous plants of the family Papaveraceæ. See Corydalis.

caporal (kä-pō-räl'), n. [Sp. and F.: see corporal²] 1. A chief; a leader.—2. An overseer: one who has charge of a cattle-ranch. [Mexico.]—3. A brand of tobacco (alluding perhaps to le petit caporal, "the little corporal," a nickname of Napoleon): often qualified as sweet coporal.

Couldn't find a bit of tobacco fit to smoke till we came to Strasburg, where I got some Caporal.

Thackeray, Pendennia, II. xxxi.

capote, n. 3. A small bonnet, shaped somewhat like a nightcap.
capotement (ka-pōt'ment), n. [F. *eapotement, < capoter, upset.] A splashing sound sometimes heard in eases of dilatation of the stomach.

capped (kapt), p. a. Having a cap; covered capped (kapt), p. a. Having a cap; covered with a cap.—Capped elbow, in vet. surg., a swelling composed of fibrous tissue, occurring at the point of the elbow. It is caused by repeated injuries from lying on hard floors or with the front feet doubled under the body. See *shoe-boil.—Capped hock, a swelling at the point of the hock, due to injury.—Capped knee, in vet. surg., an abnormal condition of the knee following an injury. It consists of a awelling due first to a collection of infammatory serum under the skin, and later to fibrous tissue formation.—Capped nut. See *nut.—Capped shot or shell, a projectile to the point of which a short cylindrical piece of acit steel is fastened, to facilitate penetration of armor.

cappelenite (ka-pel'ē-nīt), n. [Named after D. Cappelen of Holden, Norway.] A borosilicate of yttrium and barium occurring in greenish-brown hexagonal crystals: found in Norway.

3. The workman who takes the capper¹, n. filled molds away from a brick-machine.

capping (kap' ing), n. 1. A cover used to finish or protect anything; in building, a coping.

—2. In mining, the rock between a vein of ore and the overlying soil.—3. In geol., the uppermost formation of an area, usually a more resistant stratum than those immediately underlying: sometimes used also to designate the Quaternary covering of drift or alluvium.

The gravel capping of the Navesink Highlands, with a maximum altitude of about 300 feet, is to be correlated with that of the other localities mentioned.

R. D. Salisbury, Geol. Surv. of New Jersey, 1893, p. 40.

Caprellidea (ka-pre-lid'ē-ā), n. pl. [NL., < Caprella + id-ea.] A tribe of amphipodous crustaceans having the maxillipeds elongated and palpiform and the abdomen obsolute.

Capri blue, green, etc. See *blue, *green, etc. Capricorn, n. 3. [l. e.] A member of the coleopterous family Cerambycidæ.

II. a. [l. c.] Of or belonging to the coleopterous family Cerambycidæ.

caprilic (ka-pril'ik), a. [capr(ic) + -il + -ic.]
Derived from a like source with capric acid.

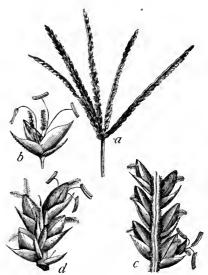
— Caprilic acid, a colorless, crystalline compound, CH₂,
(CH₂)₆COOII, found, in combination with glycerol, in
htter, cocamnt-oil, Limburger cheese, and fusel-oil. It
melts at 17° C. and boils at 237° C. Also called octoic acid.

Caprimulgi (kapri mal'is) and INI

Caprimulgi (kap-ri-mul'ji), n. pl. [NL., pl. of Caprimulgus.] The goatsuckers considered as

genus of monoeotyledonous plants belonging to the family Poacex. See Cynodon.

Caprodon (kap rō-don), n. [NL., ζ Gr. κάπρος, boar, + ὀδούς (ὀδοντ-), tooth.] A genus of fishes belonging to the family Serranidæ, found in the Pacific Ocean.



Capriola Dactylon.

a, top of a plant, showing the digitate spikes; b, a single flower; c, longitudinal section through a portion of a spike, enlarged; d, exterior view of a portion of a spike, enlarged. (Drawo from Engler and Prantl's "Pflanzenfamilien.")

Caproidea (ka-prō-id'ē-ā), n. pl. [NL., \langle Gr. $\kappa\acute{a}\pi\rho\sigma\varsigma$, a sea-fish, + -oidea.] A group of fishes containing a single family, Antigonidæ. They are probably related to the chætodonts, but their affinitiea are somewhat uncertain. Also called Caproidæ, or boar-icho.

Čaprotina limestone. See *limestone. caproylamine (kap″rō-i]-am'in), n. [capro(ic) + -yl + amine.] Same as *hexylamine.

caprylene (kap'ri-lēn), n. [capr(ic) + -yl + -ene.] Same as octylene or *octene.

caps. An abbreviation of capitals.

capsacutin (kap-sa-kū'tin), n. [caps(icum) + acute + -in².] A crystalline, neutral compound, $C_{35}H_{54}O_4N_3$, extracted from Capsicum annum, or Spanish pepper. It has a very sharp taste.

capsaicin (kap-sā'i-sin), n. The erystalline, active principle (C₁₈H₂₇NO₃) of Spanish and Cayenne pepper (Capsicum annuum and C. min-

capsitis (kap-sī'tis), n. [caps(ule) + -itis.] Inflammation of the capsule of the crystalline lens of the eye.

capsizal (kap-siz'al), n. [capsize + -all.] The act or the fact of capsizing; overturning; an upset; a eapsize. capsize, v. i. 2. See the extract.

Sometimes a wine will "capsize": the alcohol and the acid disappear and what was wine becomes an inslipid undrinkable liquid.

Encyc. Brit., XXIV. 603.

capsomania (kap-sō-mā'ni-ä), n. [Gr. κάψα, a box (taken for an ovary or pistil), + μανία, mania.] In bot., an abnormal multiplication of pistils.

cap-spinning (kap'spin"ing), n. A method of spinning worsted yarn with a cap or cup over the spindle and bobbin.

capstan, n.—Electric capstan, a dock capstan operated by an electric motor inclosed in a suitable structure below the level of the dock, the motor being geared directly to the base of the capstan. It can also be used in a railroad-yard for hauling cars for short distances.

capstan-lathe (kap'stan-lath), n. A lathe having a revolving tool-head; a turret-lathe. capstan-screw (kap'stan-skrö), n. An elevating screw; a small screw provided with a collar having holes in its periphery in which a wrench or pin may be inserted; used for leveling a plate or an instrument. There are usually three or four such screws for one plate. capsular, a. 2. In bot., having for fruit a dry dehiscent seed-vessel or capsule: as, a capsular plant.

capsulation (kap-sū-lā'shon), n. [capsulate + The act of inclosing a drug in a cap--ion.] sule in order that it may be swallowed more

easily.

easily. Capsule, n.—Auditory capsule. See *auditory.—Capsule of Müller. Same as Bowman's capsule.—Nasal capsule. Same as offactory *capsule.—Olfactory capsule, in embryol., the cartilaginous case inclosing the olfactory bulbs in sharks and in the embryos of higher vertebrates.—Optic capsule, in embryol., the cartilaginous case inclosing the eye in sharks and the embryos of the higher vertebrates.—Spermatic capsule, a capsule ejected by the males of certain gamasid mites in copulation, containing a liquid and also minute apermatopherea or spermatocysta. Michael, 1892.—Stinging capsule. Same as urtecating capsule and stinging-cell.

capsule (kap'sūl), v. t.; pret. and pp. cap- car¹ (kār), v. I. trans. To carry or transport suled, ppr. capsuling. [capsule, n.] To furons on a ear.

nish (a bottle, medicinal powder, etc.) with a II. intrans. To travel by car; go in a ear:

To travel by car; go in a ear:

fishes of large size, widely distributed throughout the tropics, some of them excellent as foodfishes. C. hippos and C. latus, valled horse-mackerel capsule.

(kap-sū-lij'e-nus), a. capsuligenous capsula, eapsule, + L. -genus, -producing.]

In bot., producing eapsules.

capsulotome (kap'sn-lo-tom), n. [L. capsula. eapsule, + Gr. -τομος, ζ ταμείν, cut.] A small knife used to divide the capsule of the crystalline lens in operations for cataract.

captaculum (kap-tak'ū-lum), n.; pl. captacula (-lä). [NL., ⟨ L. captare, take, + -culum, as in NL. tentaculum, tentacle.] One of the numerous ciliated, contractile filaments, swollen at the end, which spring from each side of the mouth in Dentalium. They appear to act as tactile organs for seizing the food.

captain, n., 1. (9) in archery: (1) The winner of a captaincy at a shooting-match. (2) A competitor at a shooting-match or public meeting assigned to a particular target to score for the other archers and to keep order.

— Captain of industry, an employer of many laborers; one who controls a large industrial establishment; a leader in the industrial world.

The Leaders of Industry, if Industry is ever to be led, are virtually the Captains of the World; if there be no nobleness in them, there will never be an Aristocracy more. But let the Captains of Industry consider.

Carlyle, Past and Present, iv. 4.

captaincy, n. 2. In archery, a rank or prize usually awarded to the areher who makes the most hits in a shooting-match, without regard to his score, or who first hits the innermost

cirele or the gold.

captation, u. 3. In French law, influence brought to bear upon one party by another so that the will of the former becomes subject to that the will of the former becomes subject to the latter: generally used in an oppro
Malay köraköra, etc.] A large, fast boat used malay köraköra, etc.] A large, fast boat used malay köraköra, etc.]

captioned (kap'shond). a. Headed; entitled; having the heading or title of: as, an effective poem captioned the "Song of the Innuit." Science, Nov. 22, 1901, p. 808.

captivative (kap'ti-vā-tiv), a. [captivate + -ive.] Serving or fitted to captivate.

captol (kap'tōl), n. [L. cap(u)t, head, + -ol.]
A dark-brown powder soluble in water and alcohol, a condensation-product of tannic acid and chloral; used in the form of a lotion or wash to remove dandruff.

capture, n. 3. In phys. geog., the process by which a stream, lengthening its valley by headward erosion and thus eneroaching upon a neighboring drainage-basin of greater alti-tude, eventually taps another stream, whose upper waters are thus diverted and whose lower waters are left 'beheaded': said also of

M. Mennier explains the distribution of erratics in the neighbourhood of the Alps by the "capture" of one glacier by another, the head of which was eaten back through the dividing wall, and thus tapped the ice-supply.

Geog. Jour. (R. G. S.), XI. 441.

capture, v. t. 3. In phys. geog., to divert part of (a river) to a new course: said of the action of a stream that crodes its valley headward into the basin of another river and thus captures or diverts the upper waters of the latter to its own course.

It may then have happened that whole basins, like that of Lake Mascardi, drained formerly towards Nahuelhuapi, have been captured towards the Pacific slopes.

Geog. Jour. (R. G. S.), XVI. 36.

Caput Draconis, in astrol., the ascending node of the moon; also, a figure in geomancy. See drayon's head and tail (under dragon).

moon; also, a fignre in geomancy. See dragon's head and trail (under dragon).

Call, n.—Alexandra car, a dos-à-dos pleasure-cart in which the body has a cut-under, to permit it to be hung very low without coming in contact with the axle.—Combination car, on a railroad, any car designed to be used for more than one purpose, as a combined day-coach and haggage-car, a smoker and express-and-baggage car. A combination baggage-car is one having compartments for mail or express matter.—Convertible car, an electric street or surburban car of which the sides are divided into sliding-panels which can be pushed up into pockets in the roof, thus changing it from a closed to an open car.—Donble-decked car, a car having seats on top as well as inside; one having a second or upper deck for carrying passengers or live stock. See also double-decker, 3.—Electric car, any car which is operated by electric power.—Foreign car, a railroad car which does not belong to the company operating the line, but is borrowed or lired for temporary use.—Governess car, a two-wheeled vehicle with side seats but no outside seat, the driver sitting sidewise inside; a pony-carriage. The body is generally of basketwork and the entrunce is at the back.—Pile-driver car, See *pile-driver.—Private car, a passenger- or freight-car owned by private persons or by corporations other than the railroad companies who haul them for specified payment.—Puab-pole car, a flat-car having a permanent push-pole hinged to the sill or by corporations other than the raintend companies who hand them for specified payment.—Push-pole car, a flat-car having a permanent push-pole hinged to the sill and used between the engine and the cars to be drilled by poling.—Refreshment car, a buffet or dining-car on a railway.—Tourist car. See *tourist.

II. intrans. To travel by car; go in a ear: sometimes with an indefinite it.

car⁶ (kär), n. [Perhaps another use of car³.] A yellowish brown sediment deposited from water which contains salts of iron, as in the drainage from coal-mines. Also carr. [North of Eng.

carabao (kä-rä-bä'ō), n. [Philippine Sp. carabao, Bisaya calubao, < Malay kerbau.] The



Carabio (Bos (Bubalus) buffelus).

common local name of the small water-buffalo, Bos (Bubalus) buffelus, peculiar to the Philip-

caracolillo (kä-rä-kō-lēl'yō), n. [Sp., dim. of caracol, a snail: see caracole.] seeds which are round instead of having the ordinary flat form. This is the form taken by the seed when but one develops in the berry. Also ealled peaberry coffee. - 2. A Porto Riean

Also ealted peaberry caffee.—2. A Porto Riean leguminous shrub, Sabinea punicea.

Caradoc group. See Bala *group.
caraguata (kä-rä-guä-tä'), n. [Tupi, also written earagoata, caraquata, caraota, said to mean 'serateher of wayfarers,' \(\) caranhe, serateh, priek, \(+ \) goata, oata, go.] The name in Paraguay and northwestern Argentina for a plant of the pineapple family, Bromelia Serra, which yields a long silky fiber resembling pineapple fiber. It is used by the natives

for making cordage, sacks, etc.

carambole, n. 2. [F.] The écu of Flanders

struck by Louis XIV. for 80 sols, with the
quartered arms of France and Burgundy.

caramel (kar'a-mel), v. i. and t. In candy- and cheese-making, to become burned and browned: said of the sugar dissolved in milk or syrups under the influence of heat; caramelize. See caramel, n.

The sugar in the milk caramels in baking and browns in ernst. Yearbook U. S. Dept. Agr., 1897, p. 515. the crust.

caramel-cutter (kar'a-mel-kut#er), n. In candy-making, a machine for cutting flat cakes of caramel, or other confection, into blocks, squares, dominoes, and other forms. It consists of revolving circular knives placed side by side on an arbor over a traveling apron or table.

caramousal, n. See *caramusal.

caramusal (kä-rä"mö-säl'), n. [Also caramousal, caramousal, caramuzel, caramozil, ele.: also carmousal, carmizale, carmozell, etc.: F. carmoussal; Sp. earamuzul; Cat. caramussal; lt. caramusali, caramusalino; ML. caramussallus; Turk. qurāmūsāl: ult. origin nneertain.] A Turkish merchant vessel.

When you are alongside, if you see the caramızel's mainsail being furled. Poole, Barbary Corsairs, p. 231.

carang (kä'räng), n. [Tagalog, a cover.] In carbazin (kär'ba-zin), n. [earb(on) + az(ote) the Philippine Islands, a mat woven of palm leaves, used as a cover for the banea or dug- $+-in^2$.] A hypothetical compound, CO \leq [, out cance.

Carangoides (ka-rang-gō-i'dēz), n. [NL., ζ Carangus + Gr. είδος, form.] A genus of fishes of the family Carangidæ, differing from Carangus in the weak teeth.

Carangops (ka-rang'gops), n. [NL., $\langle Carangus + Gr. \dot{\omega}\psi (\dot{\omega}\pi)$, face.] A genus of fishes of the family Carangua, allied to Carangus.

Carangus (ku-rang'gus), n. [NL., < Sp. carangue, caranga, Pg. earanga.] A genus of

fishes. C. hippos and C. latus, called horse-mackerel or cavelly, are abundant in the western Atantic. Conservation or cavelly, are abundant in the western Atantic. Conservis the ulua of the Pacific, one of the best and most valued of food-fishes. The genus is often called Caranx, but the original type of the latter, Conservations, is without teeth and belongs to a different genus.

carapacic (kar-a-pā'sik), a. Of or relating to the carapace: as, the carapacic portion of dorsal seute. Annals and Mag. Nat. Hist., 1903, p. 442.

Carapato (kä-rä-pä'tō), n. Same as garapata.
—Carapato disease, a disease of tropical Africa, probably due to the presence of a protozoan organism in the blood. Jour. Trop. Med., Nov. 2, 1983, p. 341.

Carapo (kä-rä'pō), n. [Tupi.] The Brazilian name of Giton fasciatus, a fish of the family Gymnotidæ.

Gymnotidæ.

Carapus(kar'a-pus), n. [NL., \(\) Tupi carapo.]

1. The obsolete generie name of a Brazilian fish of the family Gymnotidæ, properly Sternarchus.—2. A generie name of the pearlfishes commonly called Fierusfer.

Carasa (kä-rä'sä), n. [Philippine Sp. carusa, also caraza (Morga), also calasag, \(\) Bisaya calasug, Igorrote calata (Blumentritt).] In the Philippine Islands, a light wooden shield with fixed handles.

Carassin (ka-ras'in), n. [F. carassin carrassin.

pine Islands.

carabinero (kä-rä-bi-nā'rō), n. [Sp.]

carbineer.—2. A soldier appointed to prevent smuggling; a custom-house guard or eoast-guard. [Philippine Is.]

caracho (kä-rä'chō), n. [Porto Riean.] A kind of musical instrument made from a gourd, Lagenaria lagenaria, on which have been cut a number of grooves.

[Philippine Sp., < carachit (ka-raeh'), n. [Prop. *kharaj, < Turk. kharāj, tribute.] Tribute exacted by the Turks from their Christian subjects and from heretical Mohammedans.

diamonds which are of an average weight of about one earat each. M. Bauer, (trans.) Preeious Stones, p. 242. carau (kä-rä-ö'), n.

carau (kä-rä-ö'), n. [Tnpi caraú, otherwise recorded as coraú, carao, carao.] A South

American bird, the courlan.

caravel, n. 2. The floating marine gastropod

Ianthina. N. E. D.

caraway-worm (kar'a - wā - wèrm"), n. The larva of an American papilionid butterfly, Papilio polyxenes, which feeds on caraway, eelery, parsley, wild carrot, and other umbelliferous plants.

carballylic (kär - ba - lil'ik), a. [car allyl + -ic.] Same as *tricarballylic. $\lceil carb(on) +$

Carbamie (or carbaminie) chlorid, the chlorid of carbamic acid, NH₂COCL. Also called chloroformanide.

carbamidin (kär-bam'i-din), n. [earb(on) + anude + -in².] Same as *guandin, the amidin of carbonic acid.

carbamine (kärb-am'in), n. Same as *isocya-nide. The name was due to an erroneous belief that the isocyanides are bases. Also called carbylamine and isonitrile.

carbaminic (kärb-a-min'ik), a. Same as carbamic.

carbanil (kär'ba-nil), n. [carb(on) + anil.] The anil of carbonic acid, C_6H_5N :CO. It is an oil with a powerful, irritating edor. It boils at 166° C. Also called phenyl carbinide or carbonimide and phenyl isocyanate.

carbanilic (kär-ba-nil'ik), a. [carbanil + -ic.]

Derived from earbonic acid aniline.—Carbanilic acid, the half-anilide of carbonic acid, H0.CO. NHC_BH₂. It exists only in the form of its esters. Also called phenyl carbanic acid.

carbanilide (kärb-an'i-lid), n. [carb(on) +

anilide.] The anilide of carbonic acid, CO $(\mathrm{NHC_6H_5})_2$. It is crystalline and difficultly soluble in water. It melts at 235° C. Also The anilide of carbonic acid, CO called symmetric diphenyl urea.

carbazide (kär'ba-zīd), n. [carb(on) + az(ote) + -ide².] A crystalline, volatile, and very explosive compound, $CO(N_3)_2$, formed by the action of sodium nitrite on the hydrochlorid of carbohydrazide.

whose derivatives were once supposed to have been formed by the action of phosgen on de-

been formed by the action of phosgen on derivatives of phenyl hydrazin.

carbazol (kär' ba-zōl), n. [Also carbazole; < carb(ou) + az(ote) + ol.] A substance, C₁₂

H₈.NH, which occurs in colorless, easily sublimable plates obtained in the distillation of coal-tar in the fractions between 320° C. and $360^{\rm o}\,{
m C.-Carbazol}$ yellow. See \star yellow.

carbazoline (kär-ba-zō'lin), n. [carbazol + carbolxylol (kär-bōl-zī'lōl), n. [carbol + xy-carbonist (kär'bo-nist), n. carbonist (kär'bo-nist), n. duction of carbazol with hydriodic acid and phosphorus. It melts at 99° C. and boils at 296° C.

Carbide black. See *black.—Carbide of iron. Sec *iron.—Iron carbide, a chemical compound of iron with alternative carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of present time there are very few in the carbonic acid of the carbonic acid control of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbon correctly at the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbon carbon; specifically, and the term exbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term exbonic acid should be restricted to the product of the carbonic acid (ll₂Co₃) by union with the elements of water, and the term

Carbide black. See *black.—Carbide of iron. See *iron.—Iron carbide, a chemical compound of iron with carbon. More than one such compound exists in ordinary cast-iron and in steel.

carbimide (kär'bi-mid), n. [carb(on) + imide.] Isocyanic acid or the imide of carbonic acid, CO:NH. It is uncertain whether free cyanic acid has this or an isomeric structure, or is a mixture of both forms. The esters of isocyanic acid are derivatives of a compound of the structure given. Also called carbonimide.

Carbinol (kär'bi-nōl), n. [carb(on) + -in + -ol.]
Methyl alcohol. CH₃OH. The name is used almost exclusively in designating derivatives methyl alcohol: as, triphenyl carbinol,

 $(C_6H_5)_3COH$.

carbinyl (kär'bi-nil), n. [carb(on) + -in + -yl.]
A designation for an alkyl or aryl corresponding to a earbinol: as, triphenyl carbinyl,

carblot (kär-blo'), n. A cartridge containing

calcium carbide for use in acetylene lamps. Sci. Amer., April 15, 1899.
carbo, n. 2. In phor., charcoal.—Carbo animalis, animal charcoal; bone-black, or ivory-black.—Carbo ligni or vegetabilis, wood charcoal.

carbo-azotin (kär-bô-az'ô-tin), n. [carbo(n) + azote + -in².] A trade-name for an explosive designed to be used in blasting. It consists of potassium uitrate, sulphur, lampblack, sawdust, and ferrous sulphate.

carbocyclic (kär-bō-sik'lik), a. [carbo(n) + cyclic.] Containing a ring of carbon atoms: used especially of carbon compounds, which contain rings composed exclusively of carbon atoms, as distinguished from heterocyclic compounds, which contain rings composed of the atoms of two or more elements. Also called isocyclic compounds.

The second part of the work is concerned with stereo-chemistry unaccompanied by stereoisomerism, under which head are treated such matters as the stability of carbocyclic and heterocyclic chains.

Nature, Aug. 11, 1904, p. 341.

carbodynamite (kär-bō-dī'na-mīt), n. bo(n) + dynamite.] A patented explos dynamite.] A patented explosive for use in blasting, consisting of 90 parts (or less, for lower grades) of nitroglycerin and 10 parts of a very absorbent charcoal made from cork, to which are added for each 100 parts of the explosive 11 parts of sodium or ammonium carbonate

carbogelatin (kär-bō-jel'a-tin), n. A low-grade dynamite containing from 37 to 40 per cent. of nitrocellulose and nitroglycerin.

carbohemoglobin (kär hō hem-ō-glō bin), n. [carbo(n) + hemoglobin.] A compound of carbon dioxid with hemoglobin. Also carbohæm-

carbohydrazide (kär-bō-hi'dra-zīd), n. [car-bo(n-) + hydr(ogen) + az(ote) + -ide¹.] Same as *carbazide.

carbolate (kär'bō-lāt),n. [carbol(ic) + -ate1.]

A salt of carbolic acid.

carbol-broth (kär'bol-broth), n. A medium occasionally used in testing water for sewagebacteria. It consists of ordinary meat-broth to which about one tenth of one per cent. of carbolic acid is added. The carbolic acid inhibits the growth of many common water-bacteria and permits the development of *Bacillus*

carbol-fuchsin (kär"hōl-fök'sin), n. A solution of basic fuchsin in which the staining power of the dye has been enforced by the addition of carbolic acid. As a rule, the solution has the composition: 1 part of fuchsin, 100 parts of a 5-per-cent. aqueous solution of carbolic acid, and 10 parts of absolute alcohol.

carbolineum (kär-bō-lin'ē-um), n. + L. -eum.] Anthracene oil which has been heated and treated with chlorin. It is used, especially in Germany, for preserving wood. Sei. Amer., Jan. 31, 1903, p. 73.

carbolism (kär'bōl-izm), n. [carbol(ic) + -ism.]
Poisoning with carbolic acid.

carbolite (kär'bō-lit), n. [carbol + ite².] A product obtained by the interaction of blast-furnace slag and coke in an electric furnace, patented as a mixture of the carbides of caleium, aluminium, and silicon: a substitute for calcium carbide.

bonic acid (H₂CO₃) by union with the elements of water, and the term earbonic acid should be restricted to the product of such union.—Carbon disulphid.—Carbon monoxid. Same as carbonic or carbonous oxid.—Carbon pencils. Same as carbon-points (which see under carbon).—Carbon stars. See **star1.—Carbon temper. See temper.—Carbon tetrachlorid. CCl₄ a compound of great value as a non-inflammable solvent for grease, paint, etc.: used also as a surgical anesthetic, though not as available for this purpose as chloroform or ether.—Carbon theory, in biol., the theory that living substance or protoplasm arose from inorganic carbonates.—Carbon wool, a material, composed of a mass of the thread-like filaments of carbon, which is obtained as a by-product from some forms of coke-furnaces.—Combined carbon, carbon in a state of chemical combination with some other element or elements; specifically, the bined carbon, carbon in a state of chemical combination with some other element or elements; specifically, the carbon of iron carbide (see *cementite). If the carbon exists in solid solution in iron or steel it is not usually designated as combined carbon, although the state of solution is in one sense a form of chemical combination. The dissolved state is distinguished from the chemically combined state by the fact that the carbon may be in any proportion from zero to 2 per cent, and sometimes up to 4 per cent, or slightly more, under special conditions, while cementite has a constant percentage of carbon and iron. The combination is effected either by heating the iron in contact with gaseous fuel, or by exposing it to a high temperature in contact with solid carbon. Pig iron containing carbon chiefly in the combined form is known as 'white iron'; if free earhon, or graphite, is predomicontaining carbon chiefly in the combined form is known as 'white iron'; if free carbon, or graphite, is predominant, it is called 'gray iron.' In some varieties of iron the carbon is partly combined and partly free, and the fractured iron has a speckled appearance and is known as 'mottled iron.'—Effect-carbon, flame-carbon. See electric *arc.—Graphitic carbon, carbon crystallized in rhombohedral forms and having the other properties of natural graphite. It separates from solution in metallic iron on cooling, and hence is found in gray cast-iron, and often in masses of considerable size in the slag of blast-furnaces: now manufactured on a commercial scale by intensely heating amorphous carbon in an electric furnace.—Retort-carbon. Same as gas-carbon (which see, under carbon).

carbon (kär'bon) v. t. [carbon, n.] earbons in (an arc lamp). W. L. Dibdin, Publie Lighting, p. 445.

carbonate, n.—Lead carbonate, the chief constituent in white lead as used by painters: this pigment contains also lead hydroxid.

carbonating-column (kär'bo-nā-ting-kol/um), A part of the plant for making carbonate carbon-printing (kär'bon-prin#ting), n. Same of soda from common salt by the Solvay or ammonia process. It consists of an iron cylinder, 40 or 50 feet high and 6 or 7 feet in diameter, containing a number of dome-shaped partitions perforated with small holes. It is filled with strong hrine charged with ammonia, and carhon-dioxid gas is then forced in at the bottom, which forms and precipitates the acid carbonate of soda to be afterward converted by heating into the normal carbonate,

carbonating-tower (kär'bo-nā-ting-tou#er), n.

Same as *carbonating-column.

carbonation, n. 2. In the Leblanc process for the manufacture of carbonate of soda, the carborudite (kär-bō-rū'dit), n. [L. carbo(n-), treatment with carbon-dioxid gas of the crude liquor obtained by leaching the black ash, or, fragmental rock of carbonaceous matter; a after evaporation of this crude liquor to dryness, the roasting of the residue, to which saw-dust has been added. The object of the pro-

carbonatization (kar"bo-nā-ti-zā'shon), n.
The process by which, from the action of circulating and the control of circulating and the circulating and cir silicates are replaced by calcite, dolomite, or

some other carbonate.

carbonemia (kär-bō-nē'mi-ä), n. [NL., carbonemia, \(\) L. carbo(n-), coal (carbon), + Gr. aiµa, blood.] Poisoning with carbonic oxid. carbonero (kär-bō-nā'rō), n. [Sp., charcoalman, coal-man.] A Cuban name of the fish Caranaus ruber

Carangus ruber.

Serbonic acid. This gas, liquefied by pressure and continuous is now prepared on Carbonic acid. This gas, liquefied by pressure and transported in strong steel cylinders, is now prepared on a commercial scale, chiefly as a hy-product of brewing, and is used in rendering beverages effervescent, as a means of extinguishing fire, in making aërated bread, and for various other purposes.—Carbonic-acid apparatus. See *apparatus.—Carbonic anhydrid. Same as *carbonicd.—Skatol carbonic acid, [2,10]5,NO₂, a product of albuminous putrefaction: a derivative of ekatol. carbonification (kär"bo-nif-i-kā'shon), n. Conversion into carbon or coal.

carbonify (kär-bon'i-fi), v.t. [carbon + -i-fy.] Same as carbonize.

carbolutite (kär-bō-lū'tīt), n. [L. carbo(n-), coal, + lutum, elay, mud, + -ite².] A clastic rock of very fine grain and carbonaceous composition; a bed of coal-dust or mud.

carbonigenous (kär-bo-nij'e-nus), a. [carbon + L. -qenus, -producing.] Producing carbon. carbonimide (kär-bo-nij'mid), n. [carbon + imide.] Same as *carbimide.

[carbon + -ist.] One who holds a certain theory with regard to carbon; specifically, an advocate of the theory that the hardness of quickly cooled steel is due altogether to the carbon contained therein, as opposed to an *allotropist (which see). At the present time there are very few metallurgists who are either allotropists or carbonists; the majority agree that the hardness of quickly cooled steel is due both to allotropic modifications of iron and the influence of carbon. Nature, May 5, 1904, p. 2.

carbonite (kär'bo-nit', n. [carbon + -ite2.] A trade-name of an explosive for use in blasting, consisting of nitroglycerin, sodium nitrate, wood-meal, and a little sodium carbonate.—2. Same as native *coke.

carbonitride (kär-bo-nī'trid), n. [carbo(n) + nitr(ogen) + $-ide^1$.] A compound of carbon and nitrogen with some other element: as, silicon carbonitride, Si₂C₂N, which is formed by heating silicon, earbon, and nitrogen together.

carbonizable (kär'bo-nī-za-bl), a. [carbonize +-ablc.] Capable of conversion into charcoal.

carbonization, n. 4. In cytol., a method of reducing the cell-wall in plants by charring.

carbonize, r. t. 4. To destroy (the vegetable

matter mixed with wool or other animal fibers) by chemical means (as a dilute solution of sulphuric or hydrochloric acid) and high temperature (210° F.).—Carbonizing-furnace. (b) A gas-furnace used for carbonizing the filaments of electric lamps. The filaments are placed in an air-tight fire-clay retort which is put in the furnace and raised to a high temperature by the gas-flames.

carbonizing (kär'bo-nī-zing), n. Specifically, in the treatment of textile materials, the proccss by which wool and similar animal fibers are freed from vegetable matter such as cotare freed from vegetable matter such as cotton, burs, straw, etc. It consists in saturating the material with a solution of some acid (as sulphuric acid) or other chemical compound (as aluminium chlorid), and drying it at a high temperature while thus saturated. As a result the vegetable matter becomes carbonized and drops away from the wool as a gray powder. This sknown as vet carbonizing. Dry carbonizing consists in subjecting the material for some time to the action of dry hydrochloric-acid gas at a temperature of 100° C. Dry carbonizing is chiefly employed for the carbonization of rags in the preparation of shoddy.

as carbon process (which see, under carbon). carbonyl, n.—Iron carbonyl. See ★iron.—Nickel carbonyl. See ★nickel.

carbopyridic (kär*bō-pi-rid'ik), a. [carbo(n) + pyrid(inc) + -ic.] Pertaining to pyridine and carbon. - Carbopyridic acid. Same as *pyridinecarboxylic acid.

carbora (kär bō'rä), n. [Native Australian.] A wood-burrowing worm which lives between high and low water in a tidal river. [Aus-

coal-breecia or conglomerate. carborundum (kär-bö-run'dum), n. Silicon

carbide, SiC, a product of the electric furdust has been added. The object of the process is the conversion of some caustic soda and sodium sulphid present into sodium carbonate.—3. In petrog., the union of carbonic acid and a base, or the substitution of carbonic acid for another combined acid, in either case producing earbonates.

The process by which, from the action of circulating subterranean waters containing carbonates, the feldspars and other rock-forming carbonates, are replaced by calcite dolomite, or a fused materials and an abrasive material. The reaction ace used as a na brasive material. The reaction ace used as a na brasive material. The reaction ace used as a product of the clinic substance is manufactured in powerful electric furnaces upon a large scale. It is used as a powder of various degrees of fineness and is also consolidated into blocks for grinding wheels. Carborundum is substituted for ferrosilicon in steel-making and is mixed with a strong solution of water-lanking and is mixed with a st

name for a fused material consisting of silicon and silicon carbide (carborundum), possibly combined, more probably merely mixed with each other. It is compact and very hard and tough.

carboxid (kär-bok'sid), n. [carb(on) + oxid.] In chem., a compound consisting of earbonyl or carbon monoxid united to an electropositive metal.

carboxylic (kär-bok-sil'ik), a. [carboxyl + -ic.] Containing earboxyl, CO.OH.—Carboxylicacid, an acid containing the carboxyl group.

carbuncle, n.—Contagious carbuncle. Same as malignant pustule.

carbunculo (kar-bön'kö-lō), n. [Sp.: see car-buncle.] A fabulous animal, the existence of which is generally believed in some parts of which is generally believed in some parts of South America. The myth is of Spanish introduction, but the Indians believe in it even more than the mestizos. The animal is represented as a large wildcat having in its forehead a carbuncle-stone of large size, or a red gem of great value. This gem the animal covers up at will with a lid. At night the stone, when uncovered, is believed to emit a brilliant light like that of a red carbunculosis (kär - bung- kū- lō'sis), n. [NL. carbunculus + -osis.] The morbid state characterized by the occurrence of carbuncles.

carbunculus (kär-bung' kū-lus), n.; pl. carbunculi (-lī). [NL.] Same as carbuncle.
carburant (kär'bū-rant), n. [carbur(et) + -ant'.] A substance, supplied as gas or vapor,

serving to add carbon to a gaseous mixture to be burned, with a view to either the production of light or, as in internal-combustion engines, the production of mechanical energy.

carburation (kar-bu-ra'shou), n. [carbur(et) + -ation.] The process of impregnating with a mist of particles of liquid hydrocarbon, which vaporize in their finely divided state either at atmospheric temperatures or on heating. Atmospheric sir so impregnated forms a gas which may be ignited and used in internal-combustion motors. See *carbureter.

may be ignited and used in internal-combustion motors. See *carbureter, n. 1. Carbureters are also used for impregnating a current of atmospherie air with a mist or vapor from a liquid hydrocarbon so that it becomes a combustible or explosive mixture suitable for use in internal-combustion motors. In the early forms of (carbureter the air moved over a surface like a wick, by the capillary action in which gasolene was evaporated into the air. In later forms the air was caused to bubble through a thin layer of liquid gasolene, or was blown over the surface of the latter. In those now in use a small jet of gasolene is forced through a needle-hole, by difference of pressure, into the current of moving air at each aspiration of the working cylinder. In the float-carbureters the jet is controlled by a valve actuated by a float. As the float rises, when the float-chamber fills, the needle-hole is closed. In others the gasolene inlet is opened by the same difference in air-pressure which causes the airvalve to lift. The same valve-surface may control and close both inlets. Carbureters may use slochol or kerosene as sources of carbon, but with the less volatile liquids the carbureters must be vaporizers as well as atomizers, that the fuel may not separate from the air by liquation or condensation. This vaporization is effected by using heat above that of the atmosphere, either from an ontside flame or by conducting waste heat from exhaust gases. When the carbureter supplies too much fuel, the mixture burns badly in the cylinder, and unburned fuel in the exhaust gases makes them visible as smoke and produces an offensive odor. When the needle-hole becomes clogged, the motor gets no fuel and will not run.—Compensating carbureter, a carbureter which sutomatically regulates the amount of fuel supplied to the engine as the demand for fuel varies with speed or power of the motor.

carbylamine (kär-bil-am'in), n. [carb(on) + -yl + amine.] A basic substance found in the venom of toads.

carcake (kär'kāk), n. [Also carecake, kercake: \(\) care, as in Care Sunday, \(+ \) cake. \[A \) small cake baked on a griddle and eaten on Shrove Tuesday in parts of Scotland.—Blood carcake, a cake made of blood and oatmeal, formerly used in the south of Scotland. Jamieson.

carcana (kär-kä'nä), n. [Also carconna, kar-kana; < Hind., kärkhäna < Pers. kärkhäna, < kār, work, business, + khāna, house.] A workshop; a departmental establishment in the

military service. [Anglo-Indian.]
carcass (kär'kas), r. t. To erect or set up the
eareass or framework of a building or a ship.

carcel (kär-sel'), n. [See Carcel lamp.] A French unit of illuminating power, equal to the light emitted by a standard lamp with a flame 40 millimeters high and burning 42 grams of colza-oil an hour.

carcel-hour (kär-sel'our), n. A unit of luminous energy; the quantity of light-energy emitted in one hour by a source whose light-flux

equals that from a Carcel standard lamp. carcel-meter (kär-sel'me"tér), n. A unit of illnmination in which the source of light is the flame of a Carcel lamp placed at a distance of one meter. The carcel-meter is approximately 10.9 luxes. See *illumination.

carcel-second (kär-sel'sek"und), n. A unit of luminous energy in which the Carcel lamp is taken as the standard of intensity.

carcer (kär'ser), n. L. pl. carceres (-ēz) [L.] 1. A prison; a lock-up; especially, one in a German school or university.—2. One of the 8 to 12 stalls, closed with bars, from which races were started in a Roman circus. They were arranged with slanting axes in order not to give an unfair advantage to any competitor.

carceration (kär-se-rā'shon), n. [See incarceration.] Incarceration; imprisonment. Trollone.

Carcharodontinæ (kär-kar"ō-don-tī'nē), n. pl. [Carcharodon(t-) + -inæ.] A subfamily of sharks, including the great man-eater, typified by the genus Carcharodon.

[NL. carcicarcinemia (kär-si-nē'mi-li), n. [NL. carcinæmia, ζ Gr. καρκίνος, cancer, + αίμα, blood.]

Cancerous cachexia.

carcinoma, n. 2. In bot., a disease of trees characterized by the separation of the bark Card. An abbreviation of cardinal.

and the exudation of an acrid sap. Bot.

carcinomatoid (kär-si-nom'a-toid), a. καρκίνωμα(τ-), carcinoma, + εἰδος, ferm.] sembling carcinoma. Med. Record, Feb. 14, 1903, p. 271.

carcinomatosis (kär-si-nō-ma-tō'sis), n. [NL., \(\carcinoma(t-) + \cdot - osis. \)] Generalized cancer disseminated throughout the body. Also called carcinosis.

carcinosis (kär-si-nō'sis), n. [NL., ⟨Gr. καρ-κίνος, caneer, +-osis.] Same as *carcinoma-

carcinous (kär'si-nus), a. [Gr. καρκίνος, cancer, + -ous.] Cancerous.

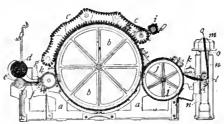
carcoon (kär-kön'), n. [Also corcon, corcone; (Mahr. kārkūn, Pers. kārkun.] A clerk. [Anglo-Indian.]

car-cylinder (kär'sil"in-der), n. The cylinder for an air-brake system in which air under pressure is stored under each car.

carcylinder (kär'sil'in-dèr), n. The cylinder for an air-brake system in which air under pressure is stored under each car.

card¹, n.—Birthday card, a complimentary card, usually of an artistic design, sent to one on the anniversary of his birthday.—Burnt card, the card which is turned face up on the bottom of the pack, in some banking games. In hacear the banker may burn two cards if he pleases.—By cards, in whist and bridge, noting the number of tricks over the book won by the same side: as, two by cards at no trump.—Card of reëntry, in whist and bridge, a winning eard in one suit which will bring the established cards of another suit into play.—Card-repeating machine, a machine for copying or repeating a set of pattern-cards for a Jacquard loom after they have been cut by the plano-machine.—Christmas card. See Christmas.—Dountful card, in whist, a card led which may or may not win the trick.—Dumb-card, a compass-card to which no magnetic needle is attached.—Easter card, a card containing snitable emblems and greetings sent to friends and presented to Sunday-school scholars, etc., at Easter.—Estahlished cards, cards which have become the best of the suit from the fact that the higher cards have been played.—Exposed card, any card played in error or dropped on the table, which must be left on the table and can be called by the adversary in a partnership game.—Faced card. See *faced.—Falsecard, any card played with the object of deceiving the adversary as to the true holding in the suit: as, to win a trick at bridge with the ace while holding the king.—Glass card, a transparency of gelatin in the form of a card.—Hockelty-card. See *sad* *card.—Indifferent cards, cards of the same value, so far as winning tricks is concerned: as the king and queen.—King-card. See master *card,—Long cards, all the cards of a suit to the tree holding in the suit: as, to win a trick at bridge with the ace while holding the king-card. See master *card,—Long cards, all the cards of a suit to the ace of the means of the means of atta

card², n.—Revolving-flat card, a cotton-earding machine in which the top flats revolve or travel over the top



Revolving-flat Card.

a, frame; b, main cylinder; c, flats; d, lap of cotton; c, lap-roller; d, fish-plate; g, feed-roll; h, taker-in; i, brush; j, doffer; k, comb; d, calender-rollers; m, coiler; m, can; e, shiver.

the main cylinder.-Roller-and-clearer card, or the main cylinder.—Roller-and-clearer card, a cotton-carding machine equilpped with revolving rollers or eylinders for working the stock: chiefly used for carding cotton waste and coarse yarns.—Set of cards, a series of two or more carding-engines consisting, if of three (which is the usual number), of a breaker, a second breaker or intermediate, and a finisher. This series is the statistical unit or unit of capacity of a woolen-factory.—Stationary flat card, a cotton-carding machine having its top carding-surfaces or flat stationary.

Treas. cardamine, cardamin (kär'da-min), n.

plant of the genus Cardamine (which see).

[Gr. Cardan joint, shaft. See *joint, *shaft!

Re- Cardanic (kär-dan'ik), a. Of, pertaining to, or devised by Cardan (Girolamo Cardano, 1501– 1576), a noted physician, mathematician, and astrologer of Italy: as, Cardanic suspension

(suspension from gimbals).

card-board² (kärd bord), n. A thin board, with a short handle, 5 inches wide and 12 inches long, to which is fastened card-clothing for carding wool, cotton, and the like by hand.

cardboard-press (kärd'bord-pres), n. endering-rolls for surfacing and finishing pressboard or smooth, hard cardboard used for book-covers and Jacquard cards.

card-case, n. 2. A case of drawers in which catalogue-cards are arranged.

card-cheat (kärd'chēt), n. One who cheats at cards.

card-cradle (kärd'krā"dl), n. A curved metal frame secured beneath the card-cylinder of a Jacquard loom to receive the cards as they are discharged from the cylinder.

card-cutter, n. 2. One who operates a machine for cutting pattern-eards for a Jacquard loom. card-cylinder (kärd'sil"in-der), n. Same as eylinder, 2 (h). cardenal (kär-de-näl'), n. [Sp.] See *car-

dinal-fish.

carder², n. 3. Same as carder-bee (which see). card-gatherer (kärd'ga\text{#H"er-er)}, n. A gatherer of teazels or carding-thistles.

erer of feazels or earding-thistles.

Cardiac diuretic, dropsy, etc. See *diuretic, *dropsy, etc.—Cardiac inadequacy. Same as *cardiac insufficiency.—Cardiac insufficiency, inability of the heart to perform its function of maintaining the circulation of the blood in an adequate manner.—Cardiac neuralgia. See *neuralgia.—Cardiac sac. (b) In Annuluta, a bullb-like contractile portion of the dorsal blood-vessel.—Cardiac valvule, in entom., an invagination of the esophagus into the proventriculus, producing a valvule which prevents the larger bits of food from passing into the chylific stomach. A. S. Packard, Text-book of Entom., p. 312. p. 312

Cardiacea, n. pl. 3. A suborder of Eulameltibranchiata, having the gills much folded, foot eylindric and more or less elongate, and sihons generally lacking. It contains the families Cardiidæ, Tridacnidæ, Chamidæ, and others.

cardiacean (kär-di-ā'sē-an), a. and n. I. a. Having the characters of the Cardiacea.

II. n. A bivalve mollusk belonging to the suborder Cardiacea.

cardiagraph (kär'di-a-graf), n. Same as cardiograph.

cardial (kär'di-al), a. [Gr. καρδία, heart, + -all.] Of or pertaining to the heart; cardiac. cardialgic (kar-di-at'jik), a. Relating to or suffering from cardialgia.

cardiameter (kär-di-am'e-ter), n. Same as

cardianeuria (kär-di-a-nū'ri-ä), n. [NL., < Gr. καρδία, heart, + ἀνευρος, without sinews or nerves, < ά- priv. + νεῦρον, sinew, nerve.] In pathol., lack of tone in the heart.

cardiant (kär'di-ant), n. [Gr. καρδία, heart, + -ant.] A remedy which acts upon the heart. cardiataxia (kūr-di-a-tak'si-ā), n. [Gr. καρδία» heart, + άταξία, disorder: see ataxy.] Irregular action of the heart.

cardiatrophy (kär-di-at'rō-fi), n. Same as cardiatrophia.

cardinal. I. a.—Cardinal area, in the structure of the shells of the Brachiopoda, a flattened or curved triangular area between the hinge-line and the beaks of the valves, specially prominent on the ventral valve, and medially divided by the delthyrial opening. A true cardinal area is not present in all orders of Brachiopoda, but in the orders Atremata and Neatremata it is represented by a posterior flattening of the valves termed a false cardinal area.—Cardinal number. (b) Multitude; the degree in which the members of a collection are many: so used erroneously by some logicomathematicians.—Cardinal points. See *point1.—Cardinal porcess, in brachlopeds, a projection at the posterior edge of the dorsal valve which interlocks with the hinge-teeth on the ventral valve, thus forming the hinge.—Cardinal septa. See *septum.—Cardinal value. See *calue.

II. n.—Alizarin cardinal. Same as alizarin *gar-

II. n_* —Altzarin cardinal. Same as alizarin $\star gar$ net.—Cardinal in petto, one whom the Pope intends to create a cardinal, but whose name has not been formally published.

cardinal-fish (kär'di-nal-fish"), n. the family Apogonidæ, the red species of which is called eardenal in Spanish: they are found

cardinalic (kär-di-nal'ik), a. Of or pertaining to the office of a cardinal; like a cardinal.

cardinalism (kär'di-nal-izm), n. [cardinal + -ism.] The system of the college of eardinals; the theory of the institution of the college of eardinals.

cardinalist (kär'di-nal-ist), n. 1. An advocate or adherent of the system of the college of cardinals.—2. A follower of Cardinal Antoine Perrenot, prime minister to Margaret of Parma in the sixteenth century.

cardinalitian (kä di-na-lish ian), a. Same as cardinalitial.

card-index (kärd'in "deks), n. An index consisting of eards arranged alphabetically. carding-scale (kär'ding-skål), n. A seale or

table, used by those who eard wool on commission, giving the amount of earding to be

done and the relative price. carding-stock (kär'ding-stok), n. A bench, upon one end of which is nailed eard-clothing, the other end serving as a seat for the operator in carding fibrous material, as wool and cotton, with hand-cards in conjunction with the fixed eard.

carding-surface (kür'ding-ser"fās), n. In textile-manuf.. the extremities of the eard-elothing teeth on the carding-machine that card the stock

cardio-arterial (kär di-ō-är-tē'ri-al), a. Relating to both the heart and the arteries.

— Cardio-arterial interval, the difference in time, sometimes quite appreciable, between the apex-beat of the heart and the pulse at the wrist or elsewhere.

— Cardio-late (kix'di ō hlast) — I.Gr. 1904 (a.

cardioblast (kār'di-ō-blast), n. [Gr. καρδία, heart, + βλαστός, germ.] In insect embryol., any one of a long row of eells bordering the mesodermal layer of the primitive band and affording the first indication of the dorsal vessel. A. S. Packard, Text-book of Entom.,

cardioclasis (kär″di-ok′la-sis), n. [Gr. καρδία, heart, + κλάσις, breaking.] Rupture of the heart.

cardiocœlomic (kär "di-ō-sē-lom'ik), a. In insect anat., pertaining to the pericardial coloma or heart-eavity.

These openings, called cardio-cælomic apertures, are visible to the naked eye, being situated on eonical papille of the walls of the heart.

A. S. Pac.ard, Text-book of Entom., p. 400.

cardioconch (kär'di-ö-kongk), n. [Gr. $\kappa a \rho^{\delta i a}$, heart, $+ \kappa \delta \gamma \chi \eta$, a molluscan shell.] One of the so-ealled Cardioconch x.

Cardioconchæ (kär-di-o-kong'ke), n. pl. factitious group of pelecypod mellusks charaeterized by their tenuous shells and the absence of dentition and other critical structures. It was conceived by Neumayr that this apparently primitive condition was actual, and he designated the group by the name *Palæoconchæ*, which was subsequently changed by Benshausen to *Cardioconchæ* because shells of this type are not of primitive age. Clarke has shown that the *Cardioconchæ* or *Palæoconchæ* represent merely a condition of degeneration or convergence largely due to relate his and cinvillery effecting generated diverses to pelagic life, and similarly affecting genera of diverse phylogeny. Such pelecypods are specially characteristic of the Bohemian Upper Silurian and of the lower Upper Devonian throughout the northern hemisphere.

cardiogram, n. Electric cardiogram, a tracing showing the electric currents which traverse the animal body with every heart-beat.

cardiographic (kär"di-ō-graf'ik), a. Of or per-cardiovisceral (kär"di-ō-vis'e-ral), a. taining to eardiography.

cardio-inhibition (kär di-ō-in-hi-bish on), n. Slowing of the action of the heart. Trans. Roy. Soc. (London), ser. B, 182. 242.

cardiokinetic (kär "di - ō - ki - net 'ik), a. [Gr. καρδία, heart, + κινητός, < κινείν, move.] Causing or accelerating the action of the heart.

cardiolith (kär'di-ō-lith), n. [Gr. καρδία, heart, + λίθος, stone.] A calcareous deposit in or upon the heart.

 $\begin{array}{lll} \mathbf{cardiolysin} \ (\text{k\"{a}t-di-el'i-sin}), n. & [\mathit{cardiolysis} + \\ -\mathit{in}^2] & \mathbf{A} \ \ \text{cytotoxin} & \mathbf{directed} \ \ \text{against} & \mathbf{heart-} \\ \mathbf{musele} \ \ \text{tissue}. & \end{array}$

cardiolysis (kär-di-ol'i-sis), n. [NL., ζ Gr. καρδία, heart, + λύσις, dissolution.] Resection of a portion of the sternum and of the costal eartilages in the cardiac area, in order to permit of greater freedom of movement in cases of adhesions following chronic mediastinopericarditis. Lancet, July 18, 1903, p. 188.

cardiometer (kär-di-om'e-ter), n. [Gr. καρδία, heart, + μέτρον, measure.] 1. An instrument for measuring the intracardiac blood-pressure. -2. An instrument for recording the extent and frequency of the cardiac pulsations.

in tropical waters, and are especially abundant cardiometric (kär"di-ō-met'rik), a. Of or per-card-lacing (kärd'lā "sing), n. The act of taining to cardiometry. Nature, May 26, 1904, tying together the pattern-cards of a Jacquard

cardiometry, n. 2. Measurement of the bloodpressure.

cardiopathy (kär-di-op'a-thi), n. [Gr. καρδία, in 1685. heart, + -παθεια, < πάθος, disease.] Disease of card-nippers (kärd'nip'erz), n. pl. A hand-the lieart. Phil. Mcd. Jour., Jan. 31, 1903, punch for making holes in the pattern-eards

cardioplegia (kär"di-ō-ple'ji-ä), n. [Gr. καρδία, heart, + πληγή, stroke. Cf. apoplexy.] 1. Paralysis of the heart muscles.—2. Irregular muscular contractions of the esophageal orifice of the stomach.

cardioptosis (kär-di-op-tō'sis), n. [NL., \langle Gr. $\kappa a \rho \delta' a$, heart, $+ \pi \tau \tilde{\omega} \sigma \epsilon_{\ell}$, falling.] Downward dislocation of the heart. $Med.\ Record$, Jan.

24, 1903, p. 157. cardiopuncture (kär/di-ō-pungk'tūr), n. καρδία, heart, + L. punctura, puncture.] Same as eardiocentesis.

A beneh, **cardiorespiratory** (kär"di-ō-rē-spīr'ä- or res'-d-clothing, pi-rā-tō-ri), a. [Gr. καρδία, heart, + E. repi-rā-tō-rī), a. [Gr. καρδία, heart, + E. respiratory.] Relating to change in the rhythm and frequency of respiration dependent upon varying heart-action; relating to or caused by both respiratory and eardiae movements: as. a cardiorespiratory murmur. Med. Record, Feb. 7, 1903, p. 202.

cardiosclerosis (kär/di-ē-sklē-rē'sis), n. [NL., (Gr. καρδία, heart, + σκλήρωσις, hardening.] Overgrowth of fibrous connective tissue in the

walls of the heart.

cardiospasm (kär'di-ē-spazm), n. [Gr. καρδία, + σπασμός, contraction: see spasm.] Irregular muscular contractions at the esophageal opening of the stomach.

Cardiospermum (kär"di-ō-sper'mum), n. [NL. (Linnæus, 1735-53), ζ Gr. $\kappa a \rho \delta i a$, heart, + $\sigma \pi \epsilon \rho \mu a$, seed. The name alludes to the heartshaped aril on the seeds of some species.] genus of plants of the family Sapindaceæ, which comprises about 30 tropical American species of climbing herbs, with alternate biternate leaves, coarsely serrate leaflets, and small white flowers. The most popular species is the balloon-vine (C. Halicacabum), a rapid-growing, easily cultivated tender annual, curious for its inflated seed-vessels. See balloon-vine (cut), Indian-heart, and heartseed.

cardiosphygmograph (kär"di-ō-sfig'mō-grāf)
n. [Gr. καρδία, heart, + Ε. sphygmograph.] A combined cardiograph and sphygmograph

cardiostenoma (kär di-ō-ste-nō mā), n. [NL., (Gr. καρδία, heart, + στένωμα, a narrow place, ζστενδειν, make narrow, ζστενδς, narrow.] Same as cardiostenosis.

heart. + τοξικόν, poison.] Having a poisonous effect upon the heart.

cardiovalvulitis (kär"di-ō-val-vū-lī'tis), n. [Nl... < Gr. καρδία, heart, + NL. valvula, valve, + -itis.] Inflammation of the valves of the heart

cardiovasal (kär"di-ō-vā'sal), a. [Gr. καρδία, heart, + L. ras, vessel, + -all.] Same as *cardiovascular.

cardiovascular (kär"di-\(\bar{0}\)-vas'k\(\bar{u}\)-l\(\bar{a}\)r), a. [Gr. kapôia, heart, + L. vasculum, a vessel: see vascular.] Relating to both the heart and the blood-vessels. Med. Record, March 28, 1903,

visceral vessel, in ascidians, a vessel arising from the dorsal end of the heart and breaking up into branches which run over the surface of the alimentary canal and other organs.

Cardita (kär-dī'tä), n. [NL., < Gr. καρδία, heart, + -ιτης, E. -ite².] The typical genus of the family Carditidæ. Bruguières, 1791.

cardite (kar'dīt), n. [NL. Cardita.] A bivalve

mollusk of the genus Cardita. carditian (kär-dit'i-an), a. Of or allied to the genus *Cardita*.

Carditidæ (kär-dit'i-dē), n. pl. INL.. \ Cardita + -idæ.] 1. A family of Peleeypoda with a cockle-like shell, external parivincular ligament, and fully developed hinge with long posterior eardinal tooth. The genera are all marine. They began their existence in the Triassic and have continued to the present.— A family of bivalve mollusks of the order E. Hamily of Siver Incomes a single mantle-fusion, branchia large and unequal, the toot keeled and often bysiferous, and the shell radiately grooved. The family includes the genera Cardita, Carditella, Venerifamily includes the cardia, and others.

Cardium clay, in geol., a late division of the Pleistocene deposits in Scandinavia containing fossila of the genua

ready for the loom.

card-money (kärd'mun"i), n. A kind of paper-currency issued by the French in Canada in 1685.

of a Jacquard loom.

cardo, n. 4. In the pelecypod mollusks, the primitive hinge: contrasted with the articulus or adult hinge.—5. One of the two interseeting central streets of the Roman military camp or eastrum, the other being the decumanus. A similar arrangement is found in tho prehistoric pile-settlements of northern Italy.

First a rectangular space was marked out with the help of two atraight lines (the Cardo and Decumanus) intersecting at right angles, their direction being probably determined by some simple astronomical observations.

F. von Duhn, in Jour. Hellenic Studies, XVI. 129.

cardol, n. 2. Tribrom-salel, made by the action of bromine, in excess, upon salol. It is a erystalline substance used for allaying gastric uneasiness, cramps, etc.

cardon (kär-dōn'), n. [Mex. use of Sp. cardón, teazel: see cardoon.] Either of two species of giant caetus, Cercus pecten-aboriginum and C. Pringlei, which in the arid cape region of Lower California form extensive leafless forests known as cardon forests. The dead wood is used for fuel, etc., and the seeds are ground to mix with meal.

card-pocket (kārd'pok"et), n. A pocket for carrying eards; specifically, a pocket in the inside cover of a book for holding the reader's library-card.

card-recorder (kärd'rē-kôr"der), n. A clock which is correlated with mechanism for recording on eards the time spent in any special piece of work: used in card-systems of indus-

trial cost-keeping.
card-room (kard röm), n. A room devoted to eard-playing or in which card-playing is ear-

card-sharping (kärd'shär ping), n. The practice of cheating at eards; the profession of the eard-sharper.

card-system (kärd'sis"tem), n. of keeping records, in which each item is entered on a separate eard. The eards for any series are of uniform size, are arranged in alphabetic order, and, in series of any length, are marked by division-eards at appropriate points. Carda (items) can be inserted or withdrawn at will.

card-teazel (kärd'tē"zl), n. The wild teazel, Dipsacus sylvestris.

cardiotoxic (kär"di-ō-tok'sik), a. [Gr. καρδία, card-thistle (kärd'this"!), n. Same as *card-

Carduaceæ (kär-dū-ā'sē-ē), n. pl. [NL. (Necker, 1770), < Carduus + -accæ.] The name adopted for the plant-family Asteraceæ by authors who take the genus Carduus as the type of the family. It has priority over all other properly formed names, but Carduus is not typical, and would require it to be called the thistle family. See *Asteraceæ, 2, and *Compositæ1.

card-wiring (kärd'wir*ing), n. The insertion of straight wires at regular intervals between

the pattern-eards of a Jacquard loom, in such a manner as to cause the cards to be suspended from the card-cradle.

careen, n. 2. The submerged figure or body which is cut off from a floating vessel by the plane of the surface of the water; the sub-merged portion of a floating vessel; a figure by the plane of the surface of the bounded water and the wetted surface of a floating body. —3. A careening or lurching motion or movement; a lurch.

The charm [of the camel] is not in the figure... no the movement, the noiseless stepping, or the broad careen.

L. Wallace, Ben-Hur, I. i.

careless-weed (kar'les-wed), r. One of several coarse species of amaranth springing up in neglected gardens, as Amaranthus retroflexus (pigweed) and A. hybridus. The spiny careless-weed is the same as the spiny amaranth,

less-weed is the same as the spiny amaranth, A. spinosus.

Careliparis (kar-e-lip'a-ris), n. [NL., < Gr. κάρα, (Ionic κάρη), head, + Liparis.] A subgenus of snail-fishes of the genus Liparis.

Caremitra (kar-e-mi'trä), n. [NL., < Gr. κάρα (Ionic κάρη), head, + μίτρα, girdle.] A subgenus of snail-fishes of the genus Careproctus.

Carenchelyi (ka-reng-kē'li-ī), n. pl. [NL., < Gr. κάρα, head, + ἐγχελνς, eel.] An order of long-necked eels found in the deep sea: distinguished by the well-developed bones of the tinguished by the well-developed bones of the

jaw, which are joined immovably to the craninm. Only one species is known, Derichthys scrpentinus, constituting the family Derichthyidæ.

Carentonian (kar-en-tō'ni-au), a. [ML. Carantonus, Charente, + -ian.] In the geology of northern France and Belgium, noting a substage of the Middle Cretaceous or Cenomanian: named from the river Charente. It is in part equivalent to the Lower Chalk of England.

equivalent to the Lower Chark of England. Also used substantively. **Careproctus** (kar-e-prek'tus), n. [NL., \langle Gr. $\kappa \dot{a} \rho a$, (Ionic $\kappa \dot{a} \rho \eta$), head, $+ \pi \rho \omega \kappa \tau \delta c$, anus.] A genus of snail-fishes, of the family of *Liparidæ*, distinguished by the attenuated body and small disk

small disk.

caress or earesses; caressing.
carette (kär-et'), n. [Irreg. \(\cdot -car^1 + -ette. \)]
1. A street-car consisting essentially of the body of an ordinary street-car mounted en wooden spoke-wheels, with crank-axles. It is low, runs easily, and does not require rails.— 2. A motor-vehicle like a wagonette. There are seats on both sides of the body, with a door at the rear, and the operator's seat is in front.

See *act. Carey act.

carferal (kär'fe-ral), n. [L. car(bo), charcoal, + fer(re), bear, + al(umina).] A trade-name for a mixture of charcoal, metallic iron, and clay intended for filtering and purifying sewage and also drinking-water.

Cargile membrane. See *membrane. cargo-book (kär'gō-bùk), n. The book in

which are entered the particulars of a ship's

cargo-port (kär'gō-pōrt), n. A large rectangular port or opening in a ship's side for use in loading or discharging earge.

car-haul (kär'hâl), n. In transportation, any short industrial railroad in which the cars, or skips, are hauled by means of endless cables or chain-belts running on sheaves laid directly on the surface between the rails. The cars are pushed or pulled along by luga on the chain that engages the body of the car. On helines, as in coal-breakers, the lug may drag the ear up the incline or merely hold it hack from running away as it is lowered by the moving chain. In standard-gage drill-yards an endless wire cable carhaul is often used in moving cars or to bring coal-cars to the elevator of a coal-storage plant. The cable runs over sheaves placed beside the track, a clip and rope or other device being used to connect the cars with the traveling-cable.—Carhaul chain, a special type of chain having lugs or projections inserted at intervals among the links. Carib basket. See *pegall.

carib-fish (kar'ib-fish), n. Same as earibe.

caribon, n. No fewer than 10 species of caribon have been described from North America, some being restricted to a comparatively limited area. Such are Rangifer ternanova of Newfoundland and R. dawson from the Queen Charlotte Islands. The most castern species is R. grantartic from Greenbard to was the support of the travelor of the surface of the control of the most castern species is R. grantartic from Greenbard to was the surface of the control of the surface of the control of the surface of the on the surface between the rails. The cars are

charlotte Islands. The most eastern species is R. grantlandicus from Greenland, the westernmost R. grantl from the end of the Alaska peniusula.

caricatural (kar'i-ka-tūr-al), a. Of the nature of caricature; caricature-like: as, a caricatural

biography.

Caricature photograph. See *photograph. caricology (kar-i-kol'ō-ji), n. [L. carex (caric-), sedge, + Gr. -λογια, (λέγειν, speak.] That department of botany which is concerned with a study of the sedge family. See caricography and caricologist.

Caricyphidæ (kar-i-sif'i-dē), n. pl. [NL., Caricyphus + -idie.] An ill-defined family of macrurous decapod crustaceans containing the genera Caricyphus, Rhomaleocaris, and Anebocaris, of which the first is the type.

Caricyphus (kar-i-si'fus), n. [NL., \langle Gr. $\kappa a \rho i \rho$, a small erustacean, prob. a shrimp or prawn, $+ \kappa v \phi \rho \rho$, bent, humped.] The typical genus of the family Caricyphidx. C. Spence Rate 1888

caridoid (kar'i-doid), α. [Gr. καρίς (καριδ-), α small crustacean, prob. a shrimp or prawn, + eidoc, form.] Resembling in form the shrimps or members of the crustacean family Carididæ.

caries, n.—Dry caries or caries sicca, molecular dis-integration of bone not attended by suppuration. carillonneur (kä-ri-lon-nėr'), n. [F., < caril-lonner, v., < carillon, a carillon.] A bell-ringer or player on a carillon or chime.

carina, n., 1. (c) [cap.] In astron., one of the four parts into which the constellation Argo is divided. See Argo.

2. One of the vertical cross-bars on the

prenetal carina of many grasshoppers. Proc. Zool. Soc. London, March, 1899, p. 340.—Carina tracheæ, the projecting ridge at the point of bifurcation

Carinate folds, in geol., isoclinal folds. carinately (kar'i-nāt-li), adv. In a keeled or carinate manner; with a carina or keel. carination (kar-i-nā'shon), n. [carin

[carinate + -ion.] A keeled condition: used in tive biology and anatomy to express the extive biology and anatomy to express on the organic A keeled condition: used in descripistence of ridges or carinæ on the organie body or test.

Behind they are long and narrow, showing a double carination with a concavity dividing them.

Amer. Nat., Jan., 1904, p. 28.

Every where you may find the selfish and the sensual, the carking and the careful, the cunning and the credulous, the worldling and the reckless. Southey, Doctor, lxv.

carline⁵ (kär'lin), n. A Russian game of billiards which employs five balls, oue of them blue and another black or yellow. It scores for both caroms and pockets and is cumulative in its counts and penalties. It was a favorite in the United States when pocket tables were in fashion.

carline-box (kär'lin-beks), n. A shallow, portable box, for storage of miscellaneous articles, secured under the deck of a ship, in the rectangular spaces between the beams and the earlines.

car-loader (kär'lo"der), n. In transportation, any machine used in loading a freight-ear with grain, coke, sand, coal, or other material in bulk. The most common form is a combined delivery and trimming spont, used in loading a box-car with wheat corn, ctc. It may be a single flexible spout or a two-way spout for filling both ends of the car at the same time. In one type a pair of fans placed at the end of the delivery-pipe is used to blow the grain in equal quantities into each end of the car, trimming the load as fast as delivered. It will load 6,000 bushels an hour. Belt-and bucket-coniveyers, fitted to a swinging-boom, are also used as carloaders. In loading flat- or hopper-cars with sand or broken stone a short conveyer may extend from the ground to the car to deliver the material to the car as fast as it is shoveled into the conveyer. Conveyers, supported on swinging-booms over a hopper-car or in the door of a box-car, are also used to load coke, ashes, coal, etc., upon cars. See *conveyer, *coaling-station, and *coal-storage.

Carlylesque (kär-lil-esk'), a. [Carlyle + grain, coke, sand, coal, or other material in

Carlylesque (kär-lil-esk'), a. [Carlyle + -esque.] Characteristic of Thomas Carlyle or -esque.]

Carmelitess (kär'mel-i-tes), n. -ess.] A member of the Carmelite order of women.

carmeloite (kär-mel'ō-īt), n. | Carmelo Bay, California, + -ite².] A name given by A. C. Lawson to eruptive rocks at Carmelo Bay, California, having the character of andesitie basalt. The texture is like that common in andesite, the phenocrysts being pyroxene, lime-soda feldspar, and olivin altered to lddingsite.

car-mile (kär'mil), n. The unit in which the

number of miles covered by the rolling-stock of a railway system within a certain time is

measured.

carmilion (kar-mil'yen), n. [carm(ine) + (verm)ilion.] A carmine preparation in which the coloring properties are not brought to a crystalline constituent, not well studied, condry state, as with other pigments.

*red.

carmine, n.—Alizarin carmine, a mordant coal-tar colorrelated to anthracene. It is the sodium salt of alizarin monosulphonic acid, and is prepared by the action of fuming sulphuric acid upon alizarin. Also called alizarin red S and alizarin powder.—Carmine lake, a pigment made from the second washing of carmine.—Carmine red. See *red!.—Orseille carmine, a dyestuff made by treating lichens with an aqueous solution of anmonia, exposing the liquid to the air until a crimson color has developed, and heating with alum.

carmoisin. carmoisine (kär'mō-i-sin). » carmine,

carmoisin, carmoisine (kär'mō-i-sin), n. [$car(mine) + (cra)mois(y) + -in^2$.] An acid coal-tar color: same as fast *red C.

carmoot (kär-möt'), n. [Ar. garmūt.] A fish, Clarias anguillaris, found in the Nile.

carnation¹, n.—Bacteriosis of carnation. See *haterroom.—Carnation disease. See *disease.—Carnation fairy-ring. See *Heterosporium.
carnelian, n. 2. The beautiful red or reddish eolor of this stone. The distinctive colors of

Cornell University are carnelian and white.

carnic (kär'nik), a. [L. caro (carn-), flesh, + ic.] Pertaining to or derived from flesh.—Carnic acid, a substance, C₁₀H₁₅O₅N₃, isolated by Siegfried from the end-products of proteolytic digestion.

septa of a coral.—4. In entom., any keel-like carniferous (kär-mif'e-rus), a. [L. caro (carn-), elevation of the body-wall of an insect, as the flesh, + -ferus, < ferre, bear.] Flesh-bearing.

There is also a milk tree; but we nowhere find a carniferous, a flesh-bearing tree.

Leigh Hunt, Seer, p. 27. N. E. D.

carniferrin (kär-ni-fer'in), n. [L. caro (carn-), flesh. + ferrum, iron, +-in².] A bland, tasteless powder said to be a compound of iron and phosphoearnic acid containing 30 per cent. of 11'01)

carnificial (kär-ni-fish'al), a. (-fic-) + -ial.] Of or pertaining to a earnifex or executioner, or a butcher.

See my poor dexter, abridged to one thumb, one finger and a stump,—by the blow of my adversary's weapon, however, and not by any carnificial knife.

Scott, Fortunes of Nigel, II. xiii.

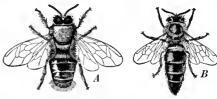
ca. resp. An abbreviation of the Latin capias ad respondendum. See capias.

caressant (ka-res'ant), a. Caressing: as, the caressant airs of heaven. N. E. D.

caressive (ka-res'iv), a. Of the nature of a caressing cares and cares are cares and cares are cares and cares are cares and cares are cares are cares and cares are care cares are cares ar

province of Austria.—Carniolan bee, one of a race of very gentle large gray honey-bees from Carniola. The abdomen presents a ringed appearance due to bands of silvery-white hairs.

Carnosa (kär-nō'sā), n. pl. [NL., neut. pl. of carnosus, fleshy: see carnose.] An order of Demospongiæ containing Tetraxonida with spicules greatly reduced in size or wanting, and no diactinal megaseleres or trienes with long rhabdomes. It contains the families Corticidæ, Plakinidæ, Chondrosidæ, and others.



Carniolan Bee (Apis mellifera) (Benton, U. S. D. A.) A, drone; B, queen.

carnosin (kär'nō-sin), n. [carnose + - in^2 .] A leucomaine ($C_9H_{14}N_4O_3$) belonging to the purin group.

carnotine (kär'nō-tin), n. [A. Carnot, a member of the School of Mines, Paris, + -ine².] Same as *primulin.

carnotite (kär nō-tit), n. [A. Carnot (see carnotine) + -ite².] A more or less impure hydrated vanadate of uranium and potash, occurring somewhat abundantly in Montrose county and elsewhere in Colorado: found as a vellow crystalline powder or in loosely coherent masses. It contains radium and is said to be highly radio-active.

caro (kä'rē), n. [Perte Riean.] Any ene of several vines indigenous to Perto Rico, be-

longing to the genus Cissus, as C. sicyoides. caroba (kä-rō'bä), n. [Braz.] The name of several Brazilian trees of the family Bignoviaceæ, especially Jacaranda process and J. Caroba. The leaves are bitter and astringent and are used in the treatment of syphilitic and scrofulous affections.

roba and J. procera), a tree native to Guiana and belonging to the family Biguoniaceæ.

caroid (kar'oid), n. [Car(ica) + -oid.] A medicinal preparation containing a proteolytic ferment, papayotin. It is obtained from the fruit of Carica Papaya (papaw).

Carolina beech-drops, locust. See *beech-drops, *locust1.

Caroline, a. II. n. [l. c.] 1. A small éclair with ceffec filling and fondant icing.—2. A Swedish silver coin of the value of about 38 United States cents.

Caroline Books. See *book.
Carolinian area, satyr. See *area, *satyr1.
carolinium (kar-ō-lin'1-um), n. [NL. Carolina (North Carolina) + -ium.] A name given by Baskerville to a supposed element of which the Baskerville to a supposed element of which the chlorid was obtained by heating in chlorin a mixture of carbon and what had generally been regarded as the oxid of thorium. A second new substance, which has been named berzelium, was at the same time separated as chlorid, so that the thorium of earlier chemistry apparently contains these two supposed elements, along with a third, for which the name thorium is retained. The atomic weight of carolinium is apparently higher than that of either of the others. The oxid is said to have a pinkish color. Carolus dollar. See *dollar.

caromata, n. Same as *earromata.

caromic (ka-rem'ik). a. In billiards, of or pertaining to caroms or the making of caroms.

carone (kar'ou), n. A ketone, C₁₀H₁₆O, prepared by the addition of hydrochloric acid to dihydrocarvene and its subsequent removal

by alcohole sodium hydroxid.

carosa (kä-rō'sä), n. [Philippine Sp. (?), <
Sulu karosah, a eart, a wagon, < Sp. carroza,
a coach: see earoche.] In the Philippine Islands, a sled for conveying goods, used partieu-

larly in the country.

carot (kä-rōt'), n. [Philippine Sp. *carot,

< Bisaya *calot (= Pampanga calut) Ilocan earot, a root eaten after steeping in water to improve it.] In the Philippine Islands, a tuber which is steeped or eooked and eaten by the

natives.

caroticum (ka-rot'i-kum), n.; pl. earotica (-kä). [NL.] In eraniom., the extreme medial or lateral point of the earotid canal on the outer surface of the skull. Von Török.

Carotid triangles. See *triangle.
carotidean (kar-ō-tid'ē-an), a. and n. [carotid

-e-an.] Same as carotid.

carotte (ka-rot'), n. [French Creole, intro-duced through Louisiana.] Same as carrot, 4. carp², n. 6. A name of varions fishes of the genus Chilodactylus in Australia, New Zealand, and Tasmania. These fishes are not related to the European earp, which is a cyprinoid fish.— Lake-carp, a sucker, Carpiodes thompsoni, found in the Great Lakes.— Looking-glass carp, a variety of the true carp having a few large scales scattered irregularly over the body.— Murray carp, a common name of Murrayia cuprinoides, a percoid fish found in the transition. in Australia.

 \mathtt{carp}^3 (kärp), $v.\ i.$ To prepare teazels for the napping-machine for dressing woolen eleth. carpaine (kār'pā-in), n. [Car(ica) Pa(paya) + -inc².] A crystalline, intensely bitter alkaloid, C₁₄H₃₅NO₂, found in the leaves of Carica Papaya, the melon-tree of South America.

It is a not very powerful poison affecting the

theart, spinal cord, and respiration.

carpal. I. a.—Carpal arches, various small arteries which supply the region of the wrist.

II. n. 2. In ichth., same as actinost.

Carpathian balsam. See stone-pine (b), under pine1 and *balsam.

carpellized (kär'pel-īzd), a. In bot., converted or transformed into earpels: said of other organs of a flower.

Carpettised stamens of the wall-flower Nature, July 28, 1904, p. 312.

carpene (kär'pēn), n. [(podo)earp(ic) + -ene.] A hydrocarbon, C₉H₁₄, prepared by distilling the calcium salt of podecarpic acid. It boils

carpenter, n. 3. In entom., same as *carpenter-

ant or carpenter-bec.—Carpenters' gage, rule of three-four-five. See *gage2, *rule1. carpenter-ant (kär'pen-ter-ant*) n. Any weed-working ant, such as Camponotus æthiops, Lasius flavus, or L. fuliginosus of Europe, or C. Pennsylvanicus of America.—Black carpenterc. Fennsylvanicus of America.—Black carpenterant, Camponotus Pennsylvanicus, a common species in the United States, where it forms large colonies in dead trees, stumps, and logs, and sometimes even in the large beams of buildings.—Pennsylvania earpenter-ant. Same as black *carpenter-ant.

carpenter-bird (kär'pen-ter-berd"), n. The California red-headed woodpecker, Melancraes formicinarys which ants boles in dead bronches

formicivorus, which cuts heles in dead branches,

in which it inserts acorns.

carpenter's-herb, n. 2. The name of several Carpolithus (kär-pol'i-thus), n. [NL. (Allioni, labiate plants, as Ainga reptans (bugle), Lyco
1757), ζ Gr. καρπός, fruit, + 2ίθος, stone.] A labiate plants, as Ajuga reptans (bugle), Lycopus Virginicus (bugleweed), and the rougeberry, Rivina humilis.

carpenter-worm (kär'pen-ter-werm), n. The wood-boring larva of a lepidepterous insect of the family Cossidæ (the goat-moths).

carper² (kär per), n. One who prepares thistle-teazels for the cloth-napping machine.

teazels for the cleth-napping machine.

carpet, n. 4. A British cellectors' name for any one of several species of geometrid moths carpomania (kär-pō-mā'ni-ā), n. [NL., < Gr. whose wings bear a carpet-like design, as the whose wings bear a carpet-like design, as the hort., the excessive bearing of fruit. [Rare.] flame-carpet (Coremia propagnata) and the hazel-carpet (Cidaria eorylata).

carpet-baggery (kär'pet-bag"e-ri), n. Same aggism.

carpet-beetle, ".-Black carpet-beetle. Same as

for pasture and lawns. applied to the *smut-grass (which see), to Panicum ciliatissimum of Texas, and probably to other grasses of a matted habit.

204

carpet-loom (kär'pet-löm), n. A loom for weaving earpets, usually having a Jacquard

equipment.

carpet-pick (kär'pet-pik), n. In weaving, a form of picking-motion directly connected with the crank-shaft for throwing the shuttle across the loom.

carpet-sewing machine. See *sewing-machine. carpet-shark (kär'pet-shärk), n. A shark, Orectolobus barbatus, ef the family Hemiseylliidæ: found in Australia.

carpet-shell (kär'pet-shel), n. A small edible clam, Tapes staminea, found along the Pacific

carpet-stitch (kär'pet-stich), n. used in sewing earpets: for ingrain an ever-and-over stitch, for Brussels a through-andthrough stitch.

carphospore (kär'fō-spōr), n. [Gr. κάρφος, a stalk, ehip, bit, + σπορά, seed (spore).] In phytogeog., a plant bearing achenes with a scaly or chaffy pappus which aids in dissemination. F. E. Clements.

Carpiodes (kär-pi-ō'dēz), n. [NL.. \(carpio.earp. +Gr. -ώδης, -like.] The generic name of the group of fishes called carp-suckers, of the family Catostomidæ. C. cyprinus is found in the Potomae, and several other species in the

branes eevering the articular surfaces of the bones of the carpus or knee-joint of domestic animals (wrist of man), eausing pain, swelling,

and lameness.

Carpoasei (kär-pē-as'i), n. pl. [NL., καρπός, fruit, + ἀσκός, a sae: see ascus.] A group of ascomycetous fungi including all those provided with a sporecarp, as the Pyrenomycetes

and the Discomycetes.
carpoascous (kär-pō-as'kus), a. [Carpoase(i) -ous.] Belonging to the fungus-group Car-

poasci.

9asci.
Asci enclosed in "fructifications," i. e., carpoascous.

Encyc. Brit., XXVIII. 558.

carpocarpal (kär-pō-kär pal), a. [carpus + a convenient platform at some distance from the machine. carp(us) + -al.] Relating to two parts of the earpus: said of the articulation between the carre, n. 2. In roulette, a bet that takes in carre, n. 2. The roulette, a part of the management of the carred of the management of the management of the management of the machine. two rews of carpal bones.

carpodermis (kär-pō-der'mis), n. [NL., \langle Gr. $\kappa a \rho \pi \delta \varsigma$, fruit, + $\delta \hat{\epsilon} \rho \mu a$, skin.] Same as pericarp. Bischoff.

carpodite (kar'po-dit), n. [ear(po)podite.] Same as carpopodite.

carpogam (kär'pō-gam), n. [Gr. καρπός, fruit, + γάμος, marriage.] In bot., the organ of a proearp which produces the cystocarp.
 carreta (kä-ra'tä), n. [Sp., a narrow eart, < carreta (kä-ra'tä), n. [Sp., a narrow eart, < carreta (kä-ra'tä), n. [Sp., a narrow eart, < carreta (kä-ra'tä), n. [Sp., a narrow eart]

carpogamy (kär-peg'a-mi), n. [Gr. καρπός, fruit, +-γαμα, ⟨γάμος, marriage.] In bot., the process in the procarp which produces the

carpogonial (kär-pē-gō'ni-al), a. nium + -al.] Of or pertaining to the carpo-gonium of the red seaweeds.

carpolith (kär pō-lith), n. [NL. Carpolithus, $\langle Gr. \kappa a \rho \pi \delta \varepsilon \rangle$, fruit, $+ \lambda i \theta o \varepsilon$, stone.] Same as

genus name for fossil fruits, originally based on specimens from the Upper Miocene of Piedment, Italy, prebably belonging to the genus Juglans, and perhaps identical with J. Nux-carretonero (kä-rā-tō-nā'rō), n. [Sp., < carretonero (kä-rā-tō-nā'rō), n. [Sp., < carretonero (kä-rā-tō-nā'rō), n. [Sp., < carretonero (kā-rā-tō-nā'rō), n

carpophalangeal (kär pō fā lan jē al), a. [carpus + phatanges + -al.] Relating to the wrist and the phalanges: as, the carpophalangeal articulation. Buck, Med. Handbook, I. 547.

The name is also carposperm (kär'pē-spērm), \vec{n} . [Gr. $\kappa a \rho \pi \delta c$, ass (which see), to fruit, $+ \sigma \pi \ell \rho \mu a$, seed.] In algæ, same as carpospore.

carposporangial (kär-pō-spō-ran'ji-al), a. [carposporangiam + -all.] 1. In algæ, bearing carpospores.—2. In mycol., having the sporogenic organs furnished with an integuation of the formula for the formula ment of hyphæ, as fungi of the family Morticrellaceæ. Cempare *exosporangial.

carposporangium (kär-pō-spō-ran/ji-um), n.; pl. carposporangia (-ā). [NL., ζ Gr. καρπός, fruit, + E. sporangium.] A specially differentiated body containing sexually formed speres in certain of the red algæ.

carposporous (kär-pō-spō'rus), a. producing earpospores, as certain red algæ.

carpostrote (kär' pō-strōt), n. [Gr. καρπός, fruit, + στρωτός, strewn.] In phytogeog., a plant in which the fruit (achene, perigynium, etc.) is the unit of distribution. F. E. Clements.

carpotropic (kär-pō-trop'ik), α. [Gr. καρπός, fruit, $+\tau\rho\sigma\pi\iota\kappa\delta\varsigma$, of or pertaining to a turn or ehange.] In bot., executed for the protection of fruit or the dissemination of seed: said of eertain changes in the position of flower-stalks made only once.

car-puller (kär'půl"er), n. In transportation, a small portable eapstan having a horizontal winding-drum, used in hauling grain-ears in the yard of a grain-elevator; a *ear-haul (which see). It is operated by means of a Mississippi valley streams.

carpitis (kär-pi'tis), n. [NL., \(\carp(us) + \)

-itis.] An inflammation of the synovial mem
carpus, n. 4. In entom.: (b) The club of the

stigmal vein in the fore wing of an insect of the family Chalcididæ. - 5. In ichth, same as actinost.

car-pusher (kär'push"er), n. 1. A hand-lever having a pivoted fulerum, used as a pinch-bar to move a railroad-ear by pinching the face of a wheel and eausing it to revolve slowly .- 2. A machine used to push heavy cars; specifi-cally, a machine used to push cars carrying very hot material, such as steel ingots which have just been poured. In its ordinary form it is a hydraulic machine having a ram or head which pushes the cars carrying the ingot-molds in front of the steel furnace. It can be worked by other than hydraulic power, electricity being sometimes used, and it is operated from a convenient platform at some distance from the machine.

four numbers in a square, the money being placed on the intersecting lines. carreau, n. 4. A kind of cushion upon which

lace is made. It has the front part lower than the back and helds from 6 to 28 pairs of small spools or spindles, the lace as it is made being wound on a cylinder. Sci. Amer. Sup., June 25, 1904, p. 23817.

carreta (kä-rā'tä), n. [Sp., a narrow eart, < carro, a ear, cart: see carl.] A rudely built eart having a long bottom-frame provided with large rings for repes that held the load in

cystocarp.
carpognathite (kär-pog'na-thīt), n. [carpus and Mexico.
+ gnathite.] In crustaceans, the fifth joint of carretela (kä-re-tā'lä), n. [Sp. *carretela (in Philippine Islands?), < carrete, a narrow eart: see *carreta.] A carriage or coach.—Carretela de Pasay, a name given in the Philippine Islands to a two-wheeled cart used by the natives of Luzen. Also called flecha.

> carretera (kä-re-tā'rā), n. [Sp., < carreta: see *carreta.] In Spanish-speaking countries,

> a wagon-road or highway.
>
> carreton (kä-re-tōn'), n. [Sp., aug. of carreta,
> a eart: see *carreta.] A heavy two-wheeled
> eart or dray used in Spanish-speaking coun-

carriage, n. 15. In saddlery, a long handle fitted at one end with a knob and at the other with a branch for receiving a small eircular tool: used for ornamenting leather.—Hydrau-lic-recoil carriage, a gun-carriage provided with one or more cylinders filled with glycerin and water, and having pistons attached to the carriage and its slide so as to take up the recoil of the gun.—Motor-carriage, an automobile carriage.

carriage-bridle (kar'āj-brī/dl), n. light bridle with square winkers and without

carpet-bug (kär'pet-bug), n. Same as carpet-beetle.

carpophyte (kär'pō-fīt), n. [Gr. καρπός, fruit, + φντόν, plant.] In bot., same as phanerogam.

carpet-grass (kär'pet-grás), n. A grass, Ax-onopus compressus, efa dense spreading growth, carpos (kär'pos), n. [NL., ⟨Gr. καρπός, fruit.]

same as carpophyte (kär'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpit-beetle.

carpophyte (kär'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpit-beetle.

carpophyte (kär'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpit-beetle.

carpophyte (kär'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpit-beetle.

carpophyte (kär'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpit-beetle.

carpophyte (kär'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or ehin-piece.

carpophyte (kār'pō-fīt), n. [Gr. καρπός, fruit, a nese-band or eh

earries the spindles.

carriage-gear (kar'āj-gēr), n. The various pieces of wood used in building a carriage, cut

te shape but not iroued.

carriage-hoist (kar'āj-hoist), n. A set of sheers for lifting lecomotives or ear-bodies from their trucks to facilitate making repairs. United States, a gauntree or traveling-crane is generally used for the same purpose.

carriage-horse (kar'āj-hors), n. A horse more lightly built than a draft-horse, and suitable for use with a carriage. The typical carriage-herse stands 15.1-15.3 hands high and weighs 950-1,150 pounds.

carriage-jack (kar'āj-jak), n. A special type of wagon-jack adapted to lifting light ear-See wagonriages: made in several forms. jack

carriage-lamp (kar'aj-lamp), n. Any form of lamp designed to be earried on a earriage. Such lamps are made, in many forms, to burn eandles, oil, or acetylene gas, or to employ electricity.

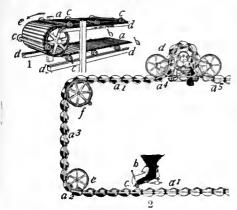
carriage-porch (kar'āj-pōrch), n. A porch projecting over the carriage-drive at the entrance-doorway of a building. It differs from the marquise in being a solid structure, usually of masonry. The ground story of a tower sometimes serves as a carriage-porch riage-porch.

carriage-robe (kar'āj-rob), n. blanket for use in earriages, made either of furs or of textile materials.

carriage-varnish (kar'āj-vär"nish), n. Any varnish used for earriages. The name does not designate varnish of a special composition. Carrickmacross lace. See *lace.

carricoche (kä-ri-kō'ehe), n. [Sp., < carro, eart, earricocne (Ka-ri-Ko'che), n. [Sp., (carro, cart, + coche, coach.] A two-wheeled vehicle common in Buenos Aires. The body resemblea the square coach. It has a door at the rear and sliding windows in the sides, and is auspended upon ropes made of untanned hidea. When used in towns it is drawn by one or two horses, with a postilion. It has accommodations for six passengers, sitting three on a side as in an omnibus.

carrier1, n., 5. (g) In transportation, a system of endless traveling-chains supporting slats, trays, or buckets, used in transporting various materials or articles in bulk or in packages over short distances, as in a factory. The most simple or platform type consists of two chains supported by flanged wheels running upon rails at each side and carrying steel or wooden slats that form a moving platform on which the load is placed. See fig. 1. The traveling-sidewalk and the ramp are carriers of this type. Another form consists of a series of platform-trucks moving upon rails, the trucks being secured to a single chain which travels between the rails, hauling the trucks in either direction, carrying them round the wheel at the turn of the carrier (see wheel in fig. 1), and, when reversed, on the return trip. Other types have broad slats which lap one over another to prevent the material from falling between them. Buckets of various shapes are used in place of slats, either fixed to the chains or suspended from plyots on the chains and free to adjust themselves to changes in the travel from a horizontal to a vertical direction. The backets, when moving in a horizontal direction, materials or articles in bulk or in packages



1. Platform-carrier, a, endless band of wooden slats fastened to link-belt chains; b, chains; c, flanged wheels in pairs; d, tracks; c, driving-wheel and point of discharge of load. Arrow shows travel of load.

2. Bucket-carrier. a, buckets protect to link-beltchain: al, moving horizontally; al, changing position and direction; al, traveling vertically; al, passing through discharger; al, inverted, returning empty; b, automatic feed; c, guide-wheel controlling feed-gate; d, automatic discharger or dumper; e, guide-wheel; f, equalizing gear controlling chains. Flanged wheels on chains travel on horizontal tracks not shown.

overlap to form a continuous series, and are of various shapes to prevent the spilling of the load when changing direction of travel. This is clearly shown in lig. 2, where the loaded buckets are seen moving in three different directions between the feeding-point and the point of dis-

charge. This use of pivoted buckets allies the carrier to both the conveyer and the elevator, and makes it possible to use one system or machine as a conveyer in a borizontal direction and as an elevator in a vertical direction. In one type of bucket-carrier, used in handling coal, the buckets are provided with a hinged bottom for convenience in unloading and a tipping device causing each bucket to open and discharge its load at any desired point. All types of carriers are fed at intervals or continuously, and by hand or by means of automatic feeders, and all are automatic unloaders or are fitted with tripping and discharging appliances. See fig. 2. Carriers are given, various names, as apron-carrier, pivoted bucket-carrier, slat-carrier, etc. See *conveyer, *elevator, *ranup, *feeder, and *discharger. (h) In tube systems for post-office or store use, the cylindrical vessel post-office or store use, the cylindrical vessel or holder in which the letters or packages are inclosed. The holder, being inserted into the tube, is forced by air-pressure to the intended point.—7. In photog.: (a) A device for holding films or sensitive paper for exposure in a camera. (b) A framework which adapts the holder for earrying a smaller sized plate than that for which the camera is intended .-

tion on the back of a pack-animal, with or without a pack-saddle.—9. Same as carriage, 13.—10. One who serves as a scout for robbers and highwaymen, and who earries information to them in regard to likely vietims; a robbers'

lookout. [Thieves' cant.]

carrier-pigeon, n. 2. A breed of domesticated pigeon, having as its most apparent characteristic a huge wattle, like a miniature cauliflower, about the base of the stout beak, and flower, about the base of the stout beak, and a small wattle around the eye. The skull is narrow, the general build slender, and the length about 17 inches. The favorite color is solid black or dun; but there are silver and blue breeds. This breed does not carry messages, being bred for points only; not only does the bird fly indifferently, but its sight is partly obscured by the wattles. The birds used during the Franco-German war were largely Antwerps, and the birds now trained for long-distance flights are homers.

carrier-pulley (kar'i - er - pul "i), n. or band-wheel, intermediate between shafts which are connected by an endless driving-belt, used to support the weight of the belt and prevent undue sagging; in belt-conveying machinery, a supporting wheel which steadies and guides the endless moving belt and its load.

Carrington's law of solar rotation. See

carriole (kar'i-ōl), n. [F.: see cariole.] A eart for passengers, used in the north of France. The body is suspended upon long poles which serve both as shafts and as springs.

carrion-beetle, n.—Beet carrien-beetle, a European sliphid beetle, Silpha opaca, which feeds on the leaves of mangelds.

carritch, n.—To give one his carritch, to put one through his catechism or give him a scolding. [Scotch.] carritch (kar'ich), v.t. To catechize: as, to carritch the bairns. [Scotch.]

carroche, carroch, n. Same as caroche. Brown-

carromata (kä-rō-mä'tä), n. [Philippine Sp. carromata (fem.), an insular form (cf. Bisaya calomáta, a brooch) of Sp. carromato,



a one-horse vehicle, a long, narrow eart, < carro, eart, + mato, rough, coarse, poor: see mate².] A light, two-wheeled covered vehicle, usually drawn by a single horse. [Philippine Is.]

Recourse [in the Phillppines] was therefore had to light native wagons, carromatas, and to litters carried by hired coolies. Buck, Med. Handbook, 1. 481.

carrot, n.— Candia carrot. Same as Candy carrot, under carrot, which is a corruption of Candia carrot.— Carrot rust-fly. See ★rust-fly.—Cuban carrot, a carrot of tobacco-leaves consisting of four hands tied with Cuba bast.—Peruvian carrot, the arracacha, Arracacia Arracacha. See arracacha. Carrot, v. t. 2. To prepare, for felting purposes plushed for on sking by subjecting it to

poses, plucked for on skins by subjecting it to a solution of quicksilver and nitric acid or



Carrot beetle (Ligyrus gib-bosus). Adult, enlarged. (Chittenden, U. S. D. A.)

chlorid of mercury, and then drying it by exposure to the open air by artificial heat, the former method of drying producing a whitish color (white carrot), and the latter method a yellowish color (yellow earrot). Sci. Amer. Sup., June 4, 1904, p. 23767. carrot-beetle (kar otbē'tl), n. A scarabæid beetle, *Ligyrus gibbosus*, whose larva damages the tubers of the carrot. carrot-disease (kar'ot-

di-zēz"), n. See *disease.

carrot-fly (kar'gt-flī), n. Same as carrot *rust-

carrotin, n. Same as carotin.

8. A local name in Australia for a water-bag carrot-weed (kar'ot-wed), n. The common so contrived as to be suitable for transportariage ed. Ambrosia artemisiæfolia: so called from some resemblance in the foliage to that of the earrot.

of the earrot.

carry, v. I. trans.—To carry down. In chem., when a precipitated saline or other solid substance is found to be accompanied by another solid, of itself soluble in the liquid, the former is said to have carried down the latter. Thus barium sulphate when formed by precipitation is apt to be accompanied by small quantities of salts of iron and other metals, although these salts are soluble when alone.—To carry up, to extend upward as by the addition of successive courses: as, the building was carried up as high as the law allows.—To carry weight. (a) To have influence. (b) To be handicapped by carrying additional weight, as in horse-racing.

II. intrans.—To carry through, in golf and tennis, to allow the bat or club, in making a stroke, to 'follow' the ball, that is, to keep it in contact with the ball as long as possible.

as possible.

carry, n. 8. In gelf, the distance from the spot from which a ball is driven to the place where it first alights. W. Park, Jr. carse-clay (kärs'klå), n. The elay deposited

at the bottom of a fen; swamp-elay. See *earse-deposit.

carse-deposit (kärs'de-poz"it), n. An estua-The chief constituents are clay and silt, and on the upstream margin they pass gradually into fluviatile deposits of sand, gravel, and silt. J. Geikie, The Great Ice Age, p.

carse-land (kärs'land), n. The land surface formed by the reëlevation of a drowned valley; an emerged earse-deposit. J. Geikie, The Great Iee Age, p. 291.

car-sickness (kär'sik'nes), n. A eonditiou analogous to seasiekness sometimes affeeting travelers on a railway.

Carstone (kür stön), n. [*Carstone, a local name.] In geol., a minor division of the Cretaceous system in Norfolk and Lincolnshire, England, constituting the uppermost member of the Neecomian or Lower Cretaceous.

cart, n.—Battlesden cart, a two-wheeled pleasure-vehicle of English origin.—Cape cart, a two-wheeled vehicle peculiar to South Africa. The body is generally of the dog-cart type, the seat being made to slide, and is provided with a canvas-covered bow-top. It is fitted with a pole for two horsea.—Cocking-cart, an English sporting-cart with a short body: originally fitted to carry spine.

ted to carry game-cocks to the pits. It was built very high from the ground and used only for tanden.

(kär-[Nacartan tän'), n. tive name. l Same as *balaustre.



Carth. An abbreviation of Carthaginian. **carthamin**, n.—Plate carthamin, the trade-name of an extract of safflower of superior quality which has been dried as a film or crust on the surface of an earthen-

ware plate.

cartilage, n.—Aertic cartilage. See *aortic.—Auricular cartilage, cartilage of the pinna of the ear.—
Branchial cartilage, See *branchial.—Calcified cartilage, cartilage, hardened by the deposition in or on it of spicules of bone, as in the aternal ribs of old mammals or the crania of sharks. It has a granular structure very different from true bone.—Cartilage of ossification.

Same as temporary cartilage.—Cephalic cartilage. Same as cranial *cartilage.—Chanial cartilage, as portion of the internal skeleton that protects the principal nerve-centers, incloses the auditory organ, and gives support to the eyes. Also called cephalic cartilage.—Investing cartilage. Same as articular cartilage.—Investing cartilage, a small independent cartilage—Jacobson's cartilage, a small independent cartilage in the nasal septum.—Luschka's cartilages, small cartilagions nodules in the vocal corda.—Nasal cartilages. See *nasal.—Nuchal cartilage, See nuchicartilage.—Reichert's cartilage, a cartilage in the fetus from which

is developed a part of the hyoid bone.—Septal cartilage, the cartilaginous portion of the masal septum.—Sternal cartilage, in man, one of the seven costal cartilages on each side articulating with the sternum.—True cartilage. Same as hyaline cartilage.

cartilage-pit (kär'ti-läj-pit), n. In the pelecy-

pod mollusks, one of the resilifers, or concave, often spoon-shaped, depressions into which are fitted the ends of the resilium or internal ligament.

cartilaginiform (kär"ti-lā-jin'i-fôrm), a. cartilago (-gin-), cartilage, + forma, form.] Same as cartiloginoid.

cartographical, cartographically. See char-

tographical, chartographically.
cartographist, n. See *chartographist.
cartridge, n. 2. A case of metal, paper, or other material containing some chemical preparation used in photography, such as magnesium mixture for flash-light or material for developing, toning, or fixing solutions.—Hydraulic mining-cartridge, a device for breaking down coal in mines by the application of hydraulic pressure, thus avoiding the danger attending the use of explosives for this purpe

cartridge-clip (kär'trij-klip), n. A light sheetmetal device for clasping several cartridges at the base and so arranged as to permit the quick insertion of all the eartridges into the magazine of a repeating firearm.

cartridge-fuse (kär'trij-fūz), n. ln elect., a fuse consisting of a conductor which at over-In elect., a load melts and so opens the circuit. It is inclosed in a cartridge-like insulating tube, usually of fiber, intended as a protection from the melted metal which, when the fuse blows out, would be thrown around. cartridge-stick (kir'trij-stik), n. In mining, a round stick on which eartridge-paper is rolled

to form a case for blasting-powder.

cart-wheel (kärt'hwēl), n. A wheel of a cart, or, figuratively, something resembling one, as, by exaggeration, the United States silver dollar (1873-1900).—To turn (or make) a cart-wheel, to move like a rotating wheel, by turning somersaults sidewise, touching alternately upon the hands and feet.

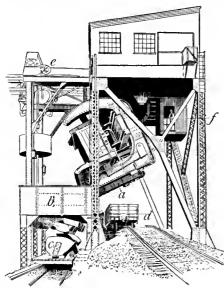
cart-whip (kärt'hwip), n. A teamster's whip, made with a short, stiff handle and heavy thong.

carua (kä-rö'ä), n. [S. Amer.] A plant of the pincapple family, Neoglaziovia rariegata, found in northern Brazil, and yielding an important fiber called by the same name

carubio (kä-rö'bē-ō), n. [Porto Rican.] Same as *bosua.

caruncle, n., 2. (b) A small horny protuberance, at the tip of a young bird's beak, which serves to break the egg-shell at the time of hatching: same as cgg-tooth. - 5. A peculiar leaf-like sense-organ found on the dorsal side of the segments at the anterior end of certain polychætous annelids, especially those belong-

ing to the family Amphinomide. car-unloader (kär'un-lō"der), n. In railroading, a machine for unloading flat- or gondolaears. Two types are in use, one in which the load is pushed or plowed off the car while it is at rest or in motion, and another in which the car itself is tilted up or



Car-unloading Machine .- End View

a, cradle containing loaded car tilted and discharging its load into the hopper; b, the hopper with chutes; c, buckets on flat-car; d, the next car to be unloaded which pushes empty car out of cradle (after it has assumed its normal position) which runs by gravity out of the machine; c, machinery handling the cradle; f, point of

turned over to discharge the load. The first type is used in railroad construction and the second to unload ore- and coal-cars. The railroad-construction machine consists of a double-share or single-share plow, as wide as the top of the car, which is drawn along the whole length of a train by means of a cable. The gondola-cars are made without end-frames and have the brake-wheel at the side, and the side-frames have doors which are hinged at the top and swing outward, a train thus forming, with the flat iron bridges between the cars, a continuous trough for its whole length. A complete train consists of a locomotive, a flat-car carrying a winding-engine (using steam from the locomotive), sixteen or more cars, and the plow and its cable. When the filled train reaches the point of discharge, it may stop to distribute the load along the length of the train, or may be kept in motion to deposit the load over a greater distance, or may be backed at the same speed as the unloading, when the entire train-load will he deposited at one point. Whatever plan is used, the operation of the machine is the same, the winding-engine by means of the cable dragging the plow along the length of the train, and the two plow-shares throwing off the load, through the swinging doors, on each side of the track. With flat-cars a plow having one share is used, which discharges the load on one side only. Another plan is to place a guide-rail on the top of a train of flat-cars and to use a double plow, the locomotive being detached and the train anchored. The engine then drags the plow along the train by means of the cable. The can-unloading machines are massive structures supporting a section of track upon a crafle. The loaded car is run into the machine, locked in the train by means of the cable. The can-unloading machines are massive structures supporting a section of track upon a crafle. The loaded car is run into the machine, locked in the crafle, and then turned over to discharge the load.

Carvel. I. trans. 71. To make a private sign

carv, r. A simplified spelling of carrc. carve¹. I. trans. 7t. To make a private sign to, at table. See II., 3.

II. intrans. 3t. To make a private sign with the little finger at table, as when one carves (def. II., 2) or pretends to carve, or raises a glass to one's lips.

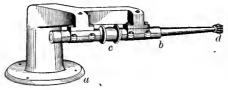
He can carue too, and lispe: Why this is he That kist away his hand in courtesie.

Shak., L. L. L., v. 2 (ed. 1623).

carvenone (kär'vē-nōn), n. [G. carve, earaway (see carvy), +-enc +-onc.] A ketone, $C_{10}H_{16}O$, prepared by dropping dihydrocarvone into cold concentrated sulphuric acid and diluting the solution with ice-water. It may also be prepared from eamphor. It is an oil which boils at 237° C.

carver, n. 3. A carving-machine.—Panel carver and friezer, a carving-or shaping-machine consisting of a table on which the work is laid and a vertical entterhead carrying the cutters, hung from a bracket over the table. See shaper, 4.

carving-machine (kär'ving-ma-shēn"), n. In wood-working, a machine for making ornamental carvings in wood.—Spindle carving-machine, the most simple form of carving-machine, consisting of a



Spindle Carving-machine. a, bench-stand supporting horizontal spindle; b, spindle; c, place where the belt is applied; d, cutter.

horizontal spindle supported in bearings at the top of a column or a bench-stand, and carrying at the end a cutting-tool which may be of any form required in carving foliage, scrolls, flutings, rosettes, etc. The cutters resemble, except in size, the cutters of a milling-machine. It may be operated at a speed of 7,000 revolutions a minute. Larger machines are practically shapers (which see).

carving-table (kär'ving-tā"bl), n. A heated table on which meats are kept warm.

carvone (kär'võn), n. [G. carve, caraway, + -one.] A ketone, C₁₀H₁₄O, which occurs in the two optically active forms—the dextrogyrate form in the oils of dill and caraway, and the levogyrate form in the oils of spearmint and kuromoji. It is an oil which smells of caraway and boils at 228° C. Formerly called carrol.

carvotanacetone (kär"vǫ-tan-as'ē-tŏn), n. [G. carve, earaway, + tan(nie), + acctone.] A ketone, C₁₀H₁₆O, prepared by the reduction of earvonehydrobromido. It is an oil which boils at 228° C.

caryatidal (kar-i-at'i-dal), a. Having the characteristics of a caryatid: as, a caryatidal figure or statue.

caryatidic (kar i-a-tid'ik), a. Same as *caryatidal.

Caryocaraceæ (kar-i-ō-ka-rā'sē-ē), n. pl. [NL. (Szyszylowicz, 1893), < Caryocar + -accæ.] A family of dicotyledonous, archichlamydeous plants of the order Hypericales, typified by the genus Caryocar (which see), and containing one other tropical American genus. It was formerly included in the family Theaceæ, from which it differs in its coherent petals and separate styles.

caryocerite (kar*i-ō-sē'rīt), n. [Gr. κάρυον, nut, + cer-ium + -ite².] A silicate of thorium, the cerium metals, yttrium, and other elements, found in Norway.

caryochrome (kar'i-ō-krōm), a. and n. [Gr. $\kappa a \rho \nu \sigma \nu$, nut, kernel (nucleus), $+ \chi \rho \bar{\omega} \mu a$, color.] I. a. In neurol., staining when treated by the Nissl method.

II. n. In neurol., a term applied to certain nerve-cells in the cerebellum, reticular membrane, and olfactory bulbs which exhibit a staining of the nucleus only when treated by the Nissl method.

Caryocrinus (kar-i-ok'ri-nus), n. [NL., \langle Gr. κάρνον, a chestnut, + κράνον, a lily.] A genus of cystid *Echinodermata* or cystideans established Caryocrinus (kar-i-ok'ri-nus), n. lished by Say and highly characteristic of the Upper Silurian beds of New York and Tennessee. They are nut-shaped bodies, the calyx plates being large and generally perforate. The summit bears a crown of short, feeble arms, and the stem is long and free caryolymph (kar'i-ö-limf), n. [Gr. κάρυον, nut,

+ L. lympha, lymph.] The liquid portion of the substance of the nucleus of a cell; the nu-clear sap. Hacckel (trans.), Wonders of Life, p. 141.

caryolysis (kar-i-ol'i-sis), n. [NL., Gr. κάρυον, nut, kernel (nucleus), + λίσις, dissolution.] Same as caryocinesis.

caryomicrosome (kar"i-ō-mī'krō-sōm), n. [Gr. κάρυον, nut, kernel (nucleus), + μικρός, small, + σωμα, body.] In cytol., one of the minute granules of which the nucleus of the cell is supposed to consist.

caryophyllic (kar"i-ō-fil'ik), a. [caryophyll-in + -ic.] Derived from caryophyllin.—Caryophyllic actd, a crystalline, bibasic acid, C₂₀II₃₂O₆, obtained by oxidizing caryophyllin with nitric acid.

caryoplasm, n. Same as karyoplasm. Caryopteris (kar-i-op'te-ris), n. [NL. (Bunge, 1835), in allusion to the wings on the fruit-carpels; ⟨Gr. κάρνον, nut, + πτερόν, wing.] A genus of plants of the family Verbenaceæ, congenus of plants of the family Verbenaceae, containing about 10 species, native in Japan, China, and the Himalayas. They are shrubby or suffrutescent, with opposite, entire or toothed leaves, and cymes of blue, violet, or red flowers situated either in the axils of the leaves or grouped opposite each other toward the ends of the branches. The four carpels of the fruit have one maugin incurved about the seed, the other forming a wing. C. incana is in cultivation under the name Japanese beni, which see, under *beni.

(καρ" 1-ō-rek'sis), n. [NL., ⟨Gr. κάρνον, nut, + ρηξις, breaking.] Rupture of the cell-nucleus. caryorrhexis (kar"i-ō-rek'sis), n.

caryotheca (kar"i-ō-thē'kä), n.; pl. caryothecæ (-sē). [Gr. κάρνον, nut, kernel (nucleus), + θήκη, case, box.] In cytol., the wall of the nucleus in the animal or plant cell. Also karyotheca.

caryozymogen (kar"i-ō-zī'mō-jen), n. [Gr. κάρυον, a nut, kernel (nucleus), + zymogen.] Small masses of nuclear material which enter into the composition of the zymogens.

C. A. S. An abbreviation of Fellow of the Connecticut Academy of Arts and Sciences.

casabe (kä-sä'be), n. [Cuban Sp., prob. (casabe, cazabe, cassava.] The Cuban name of Chloroscombrus chrysurus, a small fish of the family Carangidæ.

casanthrol (ka-san'throl), n. [cas(ein) + an-thr(acene) + -ol.] A thick, neutral, gelatinous emulsion consisting of easein ointment and certain constituents of coal-tar soluble in benzol and ether. It constitutes a water-soluble varnish applied to the skin in chronic eczema and other skin affections.

cascade1, n. 5. In manuf. chem., a series of vessels, frequently of stoneware, from one to the next of which a liquid successively overflows, thus presenting a large absorbing surflows, thus presenting a large absorbing surface to a gas with which it is to be charged.

—Cascade method, in the liquefaction of gases, the method of continuous cooling by means of a refrigerant such as carbon dioxid. The refrigerant, compressed and subsequently cooled, is caused to flow around the receptacle containing the gas to be liquefied until the lowest temperature thus attainable is reached. The final cooling, necessary to liquefaction, is then produced by the sudden expansion of the gas itself.

Cascade-hottle (kas-kād'bot"), n. In manuf.

chem., a hollow vessel, commonly of stone-ware, having an opening at the top through which passes a moderately wide tube filled with coke or other suitable porous material, over which water or some other liquid flows so as to become charged with a gas or vapor passed through the vessel.

casca-doce (käs-kä-dō'sā), n. [Pg. easca, bark, + doce, sweet, (L. duleis, sweet.] Same as *buranhem.

cascalote (käs-kä-lō'tā), n. [Sp. Amer.] Same casefy (kā'sē-fi), r. t. and i.; pret. and pp.

2,.3, 1

investigators question its identity. cascaron (käs-kä-rōn'), n. [S. Amer. Sp., appar. \langle Sp. cascarón, an egg-shell.] A tall leguminous tree of Argentina, Cascaronia astragalina, having a corky bark under which is found a red gum. Its leaves, flowers, and pods possess a strong odor of rne.

case', n. 9. In the tobacco trade, the state of the leaf, during and after the process of curing, with respect to moisture-content and pliability: common in such phrases as in case (more or less moist), in good case (with the right degree of moisture), too high case, etc. See *order, 17.

It must be stretched gently over the ends of the fingers and knuckles, and if it is in good case, i. e. plight, or condition, it will discover an elastic capacity, etc.

W. Tatham, Cult. and Com. of Tobacco, p. 37.

B. Tatham, Cult. and Com. of Tobacco, p. 37.

Case system, an inductive method of teaching law. It was first introduced at the Harvard Law School in 1869 by Professor Langdell and has since been widely adopted by various law schools. By this system students are required to deduce legal principles from the study of reported cases, rather than taught such principles by the use of text-books and commentaries. Also called Langdell system.—Leading case, a reported case which is regarded by the legal profession generally as finally establishing or settling the point or points determined in the case.—Test case. (a) One of several causes pending in the same court the determination of which will be held to apply to the several causes. (b) An action brought, usually by agreement between parties, in which the constitutionality or validity of an act will be brought in question and judicially determined.

Case¹, v. t. 2. To bring into the desired 'case' or condition; specifically, in the tobacco trade,

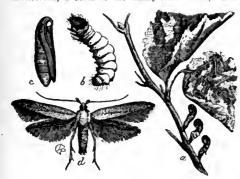
or condition; specifically, in the tobacco trade, to bring the leaf into the desired condition as to moisture and pliability, and the admixture of ingredients to give flavor, etc. See *case1, n., 9, *case1, n., and *casing2, n. Also spelled in the trade, kase.

case2, n. 16. In the postal service, a series of

open boxes or large pigeonholes in which letters are placed in assorting them for distribution. Each box is for a particular place, and the distributor, standing at a table in a postoffice or railway postal car, throws each letter
into the proper box in the case.—17. Naut.,
the outside planking of a vessel.—18. In whaling, the well or hole in the head of a spermthal which cartains in a free state the most whale, which contains, in a free state, the most valuable oil given by it. - 19. In faro, a card when it is the only one of its denomination remaining in the dealing-box.—Case examination, in civil-service examinations, a test of the ability of an applicant for the position of postal cirk to read the addresses of letters and to distribute the letters in a case rapidly and accurately.

casease (kā'sē-ās), n. [case(in) + -ase.] proteolytic ferment, found in the cell-sap of many plants and in the culture-fluids of Tyrothrix, capable of digesting casein beyond the peptone to the acid amide stage.

case-bearer, n.—Apple case-bearer, Coleophora malivorella, a moth of the family Elachistids, whose



Apple Case-bearer (Coleophora malivorella). a, cases on leaves and twigs, slightly reduced; δ_t larva; e_t pupa; a_t moth—enlarged. (Riley.)

case-bearing larva sometimes skeletonizes the leaves of the apple in the eastern United States. Also pistol case-bearer,—Cigar case-bearer, the larva of an American tineld moth, Coleophora fletcherella, which feeds on the foliage of the apple and pear and constructs for itself a cigar-shaped case which protects it from its natural

case-book (kās'būk), n. A book in which a physician keeps the medical record of his

case-fly (kās'flī), n. A caddis-fly.

cascalote (käs-kä-lō'tā), n. [Sp. Amer.] Same as divi-divi, l.

Cascara buckthorn. See *buckthorn.

cascara² (käs'kä-rä), n. [Sp. cascara, bark.]

A bark canoe. [Spanish America.]

cascarin (kas'ka-rin), n. [cascara + -in².] A name given to a compound, C₁₂H₁₀O₅, supposed to be found in cascara sagrada. Later investigators question its identity.

cascaron (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [S. Amer. Sp., appar. < Sp. cascarón, an egg-shell.] A tall cascarón (käs-kä-rōn'), n. [Sp. cascarón (käs-kä-rōn'), n. [Sp. cascarón'), n. [Sp

fcase(in) + -id.] A caseid (kā'sē-id), n. name given to any of those nitrogenous com-pounds contained in cheese which remain after the water and fat have been removed.

caseiform (kā'sē-i-fôrm), a. [L. caseus, cheese, forma, form.] Same as caseous.

Torma, form.] Same as caseous.

Casein lime, a preparation made from inferior skimmik cheese and used in the arts as a glue. It consists of dried and powdered cheese mixed with burnt chalk. Also called casein cement.—Casein ointment.

See

casein-dyspeptone (kā/sē-in-dis-pep'tōn), n. An insoluble substance obtained when milkeasein is digested with pepsin and hydrochloric

caseinogen (kā-sē-in'ō-jen), n. [cascin + L.-qen, -producing.] A substance contained in milk which forms casein in the presence

of a digestive ferment. case-keeper (kās'kē"pèr), n. In faro, the player who marks the cards as they come from the dealing-box, so that the number of each card still to come shall be known. Small buttons are pushed along wires for this purpose, as in an abacus.

casement, n.— French casement, a casement or a casement-window litted with an espagnolette and opening nearly to the floor.

case-mold (kās'mold), n. In ceram., an exact replica of an original clay model, as a jug, covered dish, etc., made in clay or plaster from the

ered dish, etc., made in elay or plaster from the block-mold or hollow cast of the model. From this case or case-mold, plaster casts, or working-molds, are taken as frequently as they are needed. See *block-mold and *working-mold.

caseoiodine (kā*sē-ō-ī'ō-din), n. [L. cascus, cheese, + E. iodine.] A white powder, similar to thyroiodine, prepared from periodocasein and containing 8.7 per cent. of iodine: used internally in myxedema. internally in myxedema.

caseone (kā'sē-ōn), n. [L. cascus, cheese, + -one.] A name given to those compounds in cheese which are extracted by strong alcohol and by water. A recent authority proposes to apply the name to the compounds extracted by alcohol only. The amount of these compounds is an indication of the progress of the ripening of the cheese.

caseose (kā'sē-ōs), n. [casc(in) + -ose.] An albumose resulting from easein.

caseoserum (kā "sē-ō-sē 'rum), n. serum which results on immunization with easein.

Caseous pneumonia. See *pneumonia. caser (kā'sėr), n. [Also spelled, in the trade, kaser; ⟨ case¹, v. t., 2, + -er¹.] In the tobacco

trade, a device for moistening the tobacco leaf. See *case1, r. t., 2. and *casing2.

case-smoother (kās'smö"Thèr), n. A machine which passes glued cloth and its stiffening-board between calendering-rollers, and firmly attaches them together.

 \cosh^2 , n.—Spot eash, eash paid or to be paid on the spot, upon actual or constructive delivery of the thing sold; eash 'on the nail.' See nail.

cash. An abbreviation of cashier.

Cashaqua shale. See *shale2. cashaw2 (ka-shâ'). n. See *cushaw. cashew2, n. See *cushaw.

cashew-apple (ka-shō'ap 1), n. The pear-shaped edible stalk which bears the cashewnut. See Anacardium and cashew-nut.

Cashmere goat. See *goat1. cash-register (kash'rej'is-ter), n. fitted with a hand-operated mechanism for exhibiting to the purchaser the amount of his purchase, unlocking and opening the cash drawer and recording and adding up all sums drawer and recording and adding up all sums deposited in the drawer. Some machines also record and add up sums paid out. Closing the drawer locks the mechanism. The autographic cash-register is a small cabinet containing a cash-drawer and a recording-ribbon placed upon a spool in the cabinet and carried under a narrow opening in the top of the cabinet to a second spool which is controlled by a hand-lever. After a sale, or other transaction, a record is made in pencil on the ribbon through the opening; then, on moving the lever, the cash-drawer is unlocked and automatically opened and the ribbon is moved onward under a glass plate where it can be read but cannot be changed; on closing the cash-drawer the cabinet is locked and cannot be used again until a new record is made or the lever moved. In some registers, combination locks control the lever and the record may be duplicated or manifolded, one record being delivered

outside the cabinet as a receipt or bill of sale, and another being retained in the cabinet. More complicated machines have one or more drawers controlled by separate locks, for one or more salesmen. Larger machines employ keys or levers of various forms for recording sales on accounts or other data.—Cash-register bank, a steel box tor small savings in which the value of each coin is registered as it is deposited in the box, the index on the outside showing the total sum in the box.

cash-sword (kash'sōrd), n. A Chinese ornament or charm made of coins or cash tied with cord.

cash-tree (kash'trē), n. A number of Chinese coins united by connecting bands of metal, as originally east in stone or metal molds.

This, indeed, appears also to be the case with a large number of the specimens of tin cash. They are cast in the form of trees, which are called cash-trees, the three specimens of which, obtained by the expedition, are, I believe, unique in this country. The general type is that of the round cash, with a circular hole in the centre, though one kind, the half-cash of Trengganu, is a solid round coin (without the hole).

*Rep. Brit. Ass'n Advancement of Sci., 1901, p. 420.

Casimiroa (kaz-i-mir'ō-ā), n. [NL. (La Lave, 1825), 1.amed in honor of Casimiro Gomez Ortega (1740-1818), a Spanish botanist.] A genus of trees of the family Rutaceæ. There are four species, native in Mexico and Nicaragua. They have alternate digitately 3-7-foliolate leaves with staked leaflets, and small greenish flowers in short axillary panicles. For Casimiroa edulis, see ★cochilsapote.

casing² (kā'sing), n. [Also spelled, in the trade, kasing; $\langle case^1, v.t., \frac{n}{2}, + -ing^2.$] The process of putting tobacco leaf into the desired 'case' or condition, namely by moistening, and adding the ingredients used to give flavor. etc. See *casc1, n., 9.

casing-boards (kā'sing-bōrdz), n.pl. In mining, planks spiked to buntons or dividing-timbers to form a partition or brattice in a mine-shaft. C. Le N. Foster, Ore and Stone Mining, p. 238.

C. Le N. Foster, Ore and Stone Mining, p. 238.

Casino, n.—Royal casino, a variety of casino in which the king, queen, and jack have a pip-value of 13, 12, and '11, respectively, and may be combined with smaller cards, or may win them,—a jack, for instance, winning a 9 and 2.

—Spade casino, a variety of casino in which every spade counts a point and the scores are pegged as fast as made, usually on a crihbage-board, 61 points being game.—

Twenty-one-point casino, a variety of casino in which the game is twenty-one points, the points going out in order if it is a tie at the end, cards first, then spades, big casino, little casino, aces, and sweeps. If the aces have to decide it, their order is: spades, clubs, hearts, and diamonds.

casoy, n. See *kasoi.

cassabanana (kas"a-ba-nan'ā), n. A plant of the family Cucurbitacee (Sicana odorifera), a native of the American tropics, and sometimes grown as an herbaceous arbor-plant

times grown as an herbaceous arbor-plant in the Southern States. The fruit is sometimes two feet long, and squash-like, orange or crimson in color, and with a very aromatic odor. There are two or three related species, all tall-climbing by means of rendrils.

Cassage (ka-säzh'), n. The process of change known as 'casse' which wine sometimes undergoes. See ***casse', 3.

Casse2 (kas), n. [F. casse. breaking, < casser, break.] 1. A bridle for a kite; also, a checkpiece or fastener by which the string of a subordinate kite is attached to the line of the main kite.—2. A safety-line; technically, a main kite.—2. A safety-line; technically, a small copper wire inserted into the bridle of a kite by Marvin, in order that when the strain becomes too great in strong winds the wire may break and save the main structure of the kite and the line-wire. See *bridle, 10.-3. The breaking down or incipient

cassette, n. 2. In photog., a flat box holding one or two plates which are to be exposed in a camera; a plate-holder.

Cassia-flower oil. See *oil.

Cassidulina (ka-si-dū-lī'nā), n. [NL., \ Cassidula + -ina.] The typical genus of the family Cassidulinidæ. D'Orbigny, 1839.

Cassidulinidæ (ka-si-dū-lin'i-dē), n. pl. of the order Textularidea. The test consists of a scries of alternating chambers, more or less colled upon itself in a planispiral manner. It contains the genera Cassidutina and Ehrenbergia.

cassiduloid (ka-sid'ú-loid), n. and a. I. n. An echinoid or sea-urchin allied or belonging to the family Cassidulidæ.

II. a. Resembling sea-urchins of the family Cassidulidæ

cassie (kas'ē), n. [F. cassie < Prov. cacio < L. acacia; see Acacia.] In the southern United States and in France, the flower-heads of Acacia Farnesiana. See Acacia and sponge-

cassimere-twill (kas'i-mēr-twil"), n. A four-harness twill-weave. Also called blanket-, A fourerow-, Florentine, kerseymere-, serge-, swan's

down- (etc.) twill.

cassine² (ka-sēn'), n. [N. Amer. Ind.] A
ceremonial drink of the Indians of eastern North America.

States, with shining evergreen leaves and black, edible drupes. The yapon, *Ilex vomitoria*, which somewhat resembles it, is called *cassio-berry bush* in South Carolina, and that mane has been applied to the smooth winterberry, *Ilex lævigata*.

Cassonic (ka-son'ik), a. Noting a bibasic, non-

erystalline acid, C5H8O7, formed by the oxida-

tion of cane-sugar.

tion of cane-sugar.

cast¹, r. t. 21. In agri., to replow (old ridges) with the furrows all in one direction. See *casting, 13. [Great Britain.]—Casting-and-setting machine, that part of the monotype type-setting and casting machine which casts the types, sets the letters in the proper sequence to form the words of the copy, spaces and justifies the lines, and places the finished line on the galley. It weighs about 1,500 pounds, and occupies a floor space of about 4 by 5 feet—Casting of the withers, eversion of the womb in a nare after fealing—To east on end, to make (iron castings) with the long dimension vertical. This is usually done in the case of cast-iron pipes or other long, hollow pieces, because it is easier to hold the core in position than when casting on the side, and also because the castings are sounder. When castings are made in this manner, it is customary to pour the iron into a vertical gate at one side of the mold and let it flow into the mold at the bottom. This method is less liable to injure the mold than that of pouring direct, and gives a chance for air carried down by the falling iron to escape.

to escape. cast¹, n. 14. Specifically, the impression of the interior surface of the test or skeleton of an organism, usually animal: contradistinguished from mold or imprint, which is the impression of the exterior. By the removal, through solution, of the substance of the fossil the filling of the cavity from within may produce an impression of the interior carrying also some of the features of the exterior surface, and this combination is termed a sculpture-cast. 29. In archery, the act or property of throwing or propelling an arrow: thus a bow is said to have a good or a bad east .- Fatty casts, renal tube-casts containing oil-globules.

cast³, n. A simplified spelling of caste². castagnole (kas-tan-yōl'), n. [F.] The Brama

rayi. See pomfret, 3.
Castalia, n. 5. (Salisbury, 1805.) ln bot., see Nymphæa, 2.

castanean (kas-tā'nē-an), a. [Castanea + -an.] Belonging to the genus Castanea, or relating in any way to the ehestnut.

castaneopiceous (kas-tā/nē-ē-pish'ius), a. [L. castanea, ehestnut, + piceus, pitchy.] Blackish-ehestnut or blackish-brown in color. Proc. Zool. Soc. London, 1901, II, 523. castanha-nut (käs-tän'yä-nut), n. [Pg. cas-

tanha, chestnut: see chesten.] Same as Bra-

castanin (kas'ta-nin), n. [L. castanea, ehest-nut, + -in².] A globulin found in Spanish ehestnuts.

castanite (kas'ta-nīt), n. [L. castanea, a chestnut, + E. -ite1.] A hydrated ferric sulphate occurring in chestnut-brown prismatic crystals and crystalline aggregates: found in Chile.

caste2, n. 3. In entom., any one of the distinct forms found among the polymorphie seeial insects, especially the true ants and the white ants or termites.—4. Same as halfcaste.—Caste production, the producing or intensifying of polymorphism among social insects, caused by the workers through differentiation of the food given to the

Castellanos powder. See *powder.

castellate (kas'te-lāt), v.; pret. and pp. castellated, ppr. castellating. I, trans. To give a castle-like form or appearance to; furnish with turrets and battlements in the manner of a eastle.

II, intrans. To assume castle-like forms, as moving clouds.

castellate (kas'te-lat), a. Same as castellated. caster, n., 1. (e) In angling, one who casts the fly as distinguished from one who fishes with bait.

It is more successful; your fish will average larger, and although at times you will not get a long string, you will get sufficient to reward your patience and skill. The big fish is what we are all after, and the caster gets them if any one does. Forest and Stream, Feb. 21, 1903, p. 150.

6. One of the small callosities on the inner side of a horse's leg: more commonly known as chestnut.

More remarkable still are the callosities, "chestnuts" or "castors" found on the inner sides of both limbs in the

horse, but only on the forelegs of other species, which are likewise rudimentary, or vestigial, structures.

Amer. Inventor, June 1, 1904, p. 250.

caster-and-setter (kás/ter-and-set/er), n. In printing, a machine (or two mutually dependent machines) that casts and composes type, The linotype combines the two operations in one machine; the Lanston, the Goodson, and others require two separate machines. Census Bulletin 216, June 28, 1902, p. 59. Cassini division. See *division. the Lanston, the Coouson, and others require two separate meanines. Census Bulletin 216, June 28, 1902, p. 59. caster-sugar (kas'ter-shug''ar), n. Powdered burnum oboratum, of the southeastern United sugar: so called from the caster with a perforated top in which it is sometimes served. N. and Q., IX. 418. castigable (kas'ti-gā-bl), a. Worthy or de-

serving of eastigation or chastisement,

castigative (kas'ti-gā-tiv), a. Of or pertaining to eastigation or chastisement; castigatory. Castila (käs-tē'lä), n. [Philippine Sp.] Spaniard; also, any person of white race. [Philippine Is.]

castillon (käs-tel-yen'), n. [Sp.] A Spanish gold coin: probably so named from its bearing the arms of Castile.

casting, n. 10. pl. The pellets of hair and bones cast up by owls and hawks.—11. A premature shedding or falling of leaves which may be due to any one of various eauses, but es pecially to drought, crowding of plants, or the attacks of parasitic fungi. See *Lophodermium.

Casting or premature withering and fall of needles is not uncommon in nurseries of pine.

Jubeuf and Smith, Discases of Plants, p. 236.

12. In the fine arts, the arrangement of draperies and accessories.

Note, in the draped female statues, the casting of the drapery; surely that was not copied from the folds which the garment made as it was worn in daily life.

R. Sturgis, Appreciation of Sculpture, p. 25.

13. In agri., replewing old 'ridges' or 'lands. with all the furrows of each in one direction. By this method two adjoining ridges are made into a single broad one, the crown occupying the place of the old water-furrow; or each retains its form, the water-furrow water-furrow; or each retains its form, the water-furrow being kept clear. [Great Britain.] — Casting hall roller, in glass-manuf., same as running-roll (which see).—Dryfly casting. See *dry-fy.—Inlay casting, in ceram., the process of painting designs in the interior of a mold with a slip of a different color from that of the body slip. When the latter is poured into the mold it takes up the colored design, which appears in the cast piece as an inlay of a different color. See *thimble surface.—Malleable castings, small articles made by pouring into suitable molds cast-iron, which is afterward made soft and tough by heating to redness while embedded in a material, commonly oxid of iron, which furnishes oxygen to combine with and remove carbon from the casting, thus converting it into wrought-iron from the surface inward. casting-machine (khs'ting-ma-shôu'). n. 1.

casting-machine (kas'ting-ma-shēu"), n. 1. maehine for easting molten iron from a A machine for easting motien from from a blast-furnace into pigs. Severat types are in use. One is a conveyer, controlled by means of endless chains, and having overlapping, pressed-steel buckets, supported by wheels which travel on a track, each bucket being a mold for the metal. The machine may be placed in the casting-house and fed directly from the furnace, or it may be placed outside in any convenient place that can be reached by a ladle-car on an industrial railroad. When ready for operation the conveyer is set in motion, and the buckets pass under the operator to fill each in turn with the hot metal. As the filled buckets move away horizontally in the open air (under slight protection from the rain) the metal solidifies, and at the delivery end the conveyer travels up an incline until it reaches the turning-wheel where each bucket is inverted, discharging its contents as a hot yet solid casting of the general shape and size of a blast-furnace pig. The castings then slide down an incline and fall into a long and narrow tank filled with water. In the tank is a traveling apron, and the pigs fall apon this apron and are carried by it under water to the end of the tank. Here the apron travels up an incline out of the water and, turning over a large wheel, delivers the now cold pigs direct to a car. The process is continuous and comparatively rapid, and the machine saves all the hard and costly labor of casting pig-iron in sand. As the empty molds travel back blast - furnace into pigs. Several types are in use. One is a conveyer, controlled by means of endless



a, conveyer composed of molds, traveling on flanged wheels, just filled with hot metal, at right (point not shown); b, returning, inverted, empty molds; c, point of discharge to second conveyer traversing long water-tank (tocool pigs) and then upward to point of discharge to chute; c, water-tank; f, chute delivering cold pigs to car.

to the feeding-point they are passed through a smoky fire or treated by some other process to coat the inside of each with a refractory film to prevent the hot metal from clinging to the molds. The process of cooling the pigs is

also hastened by spraying the castings with cold water while in the molds. A second type employs a conveyer having sheet-steel molds. As fast as they are filled the molds are gradually submerged in water under which they travel until the pigs are aufficiently solid to be delivered. When the metal is solid, the buckets are caused to travel un an incline to the deliveryout where they they travel until the pigs are aufficiently solid to be de-livered. When the metal is solid, the buckets are caused to travel up an incline to the delivery-point where they are upset and deliver the castings directly to the car. A third type employs a large number of niolds which are placed radially on the edge of a large, horizontal turntable. The turning of the table causes the molds to pass in order under the ladle-car to be filled, when they travel in a circular path until the eastings are sufficiently solid to be discharged by the upsetting of the molds. Pig-iron cast in such machines is said to be cleaner and in better condition for immediate use than that cast by hand labor in sand. The name is also sometimes given to small machines used in casting metals in foundries. Such machines are properly called molding-machines (which see).

2. A mechanism which founds types.

The monotype produces single types cast in the order of their use, and set in automatically justified lines. It consists of two machines—a perforating device operated by a keyboard, and a casting-machine.

Census Bulletin 216, June 28, 1902, p. 58.

Casting-on (kas'ting-on), n. The process of casting iron around a wrought-iron core or of walkings a cast iron a distinct on the foreign of the statement of the set of casting the cast income distinct on the foreign and the set of casting the set of the set of

making a east-iron addition to a forging.

cast-iron, n.—Malleable cast-iron. See malleable iron-castings, under iron.

iron-castings, under iron.

Castle, n.—The Castle, Dublin Castle, the seat of the vicercy of Ireland, and of the high officials who are at the head of the administrative machinery of the country; hence, the governmental authority centered there. Frequency, and the country of hence, the governmental authority centered there. Frequently used attributively; as, Castle influence; Castle government. [Anglo-Irish.]

Castleford ware. See *ware2.

cast-line (kast'lin), n. Same as casting-line.

See line

cast-me-down (kast'me-doun), n. cast-me-down (kast'mē-doun), n. [A corruption of cassidony: see cassidony².] Same as cassidony². From this transformed name corresponding properties were ascribed to the plant.

Castner process. See *process. castor, n. 6. Glove-leather made from goat-skins. The grain of the skin is removed and it is given a very soft finish, usually gray in color. Flemming, Practical Tanning, p. 55.

Castor ware. See *ware². Castor-bean tick. See *tick². castoromorph (kas to rō-mōrf), a. [Gr. κάστωρ, a beaver, $+ \mu o \rho \phi \eta$, form.] Having characters similar to those of the beavers.

The Castoromorph characters, on the other hand, appear to be such as would indicate real relationship....

Bulletin Amer. Mus. Nat. Hist., XVI. 295.

castor-pomace (kas'ter-pum"as), n. Same as pomace, 3. Castor-pomace is sold as a nitrogenous fertilizer.

castral (kas'tral), a. [L. castra, camp.] Of, eharaeteristic of, or peculiar to, a camp: as, castral life; castral arrangements. Kinglake. castration, n. 2. In bot.: (a) The removal of anthers in the artificial crossing of plants. (b) The destruction of the pollen in the anthers of certain flowers by parasitie fungi, as in the case of Lychnis dioica and other silenaceous plants attacked by the smut, Ustilago violacea. castrator (kas'tra-tor), n. Same as castrater. Southey.

castrensic (kas-tren'sik), a. [L. castrensis, belonging to a eamp.] Of or pertaining to a camp.

cast-steel, n.—Cast-steel furnace, a furnace capable 23SI-Steel, n.—Cast-steel furnace, a furnace capable of bringing iron containing carbon to a temperature of fusion, and keeping the metal molten long enough for the chemical reactions and mechanical separation of impurities to take place.—Soft cast-steel, a form of iron made by a fusion process, such as the open-hearth or Bessemer process, in which the percentage of carbon or other hardening elements is so low that the metal is ductile or non-brittle and has a low modulus of elasticity: aultable for use where shocks or deforming strains must be resisted, rather than where hardness of surface or edge is required. required.

Casual water, in golf, any temporary accumulation of water (whether caused by rainfall or otherwise) which is not one of the ordinary and recognized hazards of the

casualty, n. 4. pl. In the military service, the losses in a command due to any cause whatsoever, as resignation, discharge, dismissal, desertion, capture, wounds, or death. casuarinaceous (kas-ŭ-ar-i-nă'shins), a. [Cas-uarinaceæ + -ous.] Belonging to the plant family Casuarinaceæ; resembling the genus

Casuarina. Also casuarineous.

Casuarinales (kas-ū-ar-i-nā'lēz), n. pl. [NL. (Britton, 1901), < Casuarina + -ales.] An order of dieotyledonous, archichlamydeous plants. It is characterized by monoecious flowers, the staminate, with two sepal-like organs and one central stamen, arranged in terminal spikes or catkins; the fertile, destitute of floral envelops, arranged in short heads at the ends of lateral branchlets. The order is coextensive with the family Cavaurinacee, which contains the genus Casuarina only, with about 23 species, chiefly Australa-

sian, but found also in tropical Asia and the Sunda and Mascarene islands. One species, Casuarina equivelifolia, has become established in many tropical countries and occurs in peninsular Florida and the Keys.

casuarineous (kas"ū-a-rin'ē-us), a. Same as

casuistics, n. 2. The record and study of individual cases of disease.

On the casuistics of malignant growths of the abdom-nal cavity. Phil. Med. Jour., Jan. 31, 1903, p. 203.

casuistry, n. 3. In med., a recent, rare, and

improper use for cassistics.

casus (kā'sus), n. [L.] In law, a chance, an accident, or an event: used frequently with accident, or an event: used frequently with other words to express some technical meaning.

—Casus feederis, (a) in international law, the precise simation, event, or occurrence contemplated by a treaty, stipulated for in a treaty, or made to come within its terms. (b) In commercial law, that which is contemplated by the parties to a contract, or that which is stipulated for or brought within the terms of the contract.—Casus fortnitus, in civil law, inevitable accident; an act of God; the happening of an event that could not be foreseen and guarded against by the highest exercise of prudence or care.—Casus major, in civil law, an extraordinary accident, as shipwreck, fire, etc.—Casus omissus, a case not provided for; an event or contingency not covered by a statute on the general subject, and which must be left to be governed by the common law.

caswellite (kaz'wcl-it), n. [After John H. Caswell of New York.] A copper-red micaceous mineral of bronze-like luster, probably derived from the alteration of biotite: found at Frauk-

cat, n. 18. In medical warfare, a machine resembling the pluteus, under the protection of which soldiers worked in sapping walls and fosses.—19. pl. In mining, burnt clay used for temping. Scotch 1 Recharges the house resemoning the pluteus, under the protection of which soldiers worked in sapping walls and fosses.—19. pl. In mining, burnt clay used for tamping. [Scotch.]—Bashaw cat, the long-jawed cathsh, Leptops olivaris.—Brown cat, a species of cathsh, Ameiurus platycephalua, of the family Siluridae, found in streams of the Carolinas and Georgia.—Cat's auricle. See *auricle. See *auricle. See *cat, a variety of cat said to have been developed by the monks of Chartereuse cat, a variety of cat with hanging cars.—Chinese cat, a variety of cat of the chance cathing the channel catifish. Ictalurus furcatus.—Gay cat, that member of a bank-burghar gang whose business it is to enter a bank as a crippled beggar, peddler, or the like, in order to ascertain if the bank is protected by burglar-alarma, etc.; a burglar's 'pathinder.' See *peggman. [Thieves' cant.]—Great forktailed cat, the great catifish of the Lakes, Ameiurus lacustris.—Little yellow cat, a common name of Noturus flavas, a catifish found in the Great Lake region and south and westward to Montana, Wyoming, and Texas.—Malay cat, a variety of cat from the Malay Peninsula having a peculiar bend, or kink in the tail as if it had been broken.—Mississippi cat. Same as chuckle-headed *cat.—One old cat, a game of ball in which only a pitcher, catcher, and batsman are necessary, though more may play.—Opelousas cat, the long-jawed catifish, Leptops olicaris.—Pled cat. Same as Opelousas *cat.—Sacramento cat, the contine habits of the northeastern United States, Ameiurus nebulosus, introduced from the Potomac into the Sacramento.—Schuylkill cat, the common horn-pont or amall catifish of the northeastern United States, Ameiurus nebulosus, introd

cat¹, r. I, trans.—To cat and fish, to lift (the anchor of a vessel) to the cat-head and draw up its fluke so that the latter rests on the rail or on the anchor-rest.

II. intrans. 2. To act after the manner of

soft clay or mortar in filling crevices.

Similar lesions cannot be produced by the injection of tuberculin into the lungs of a healthy animal; in animals, it is true, the conditions are different. The tuberculin when injected is rapidly absorbed, and produces generally toxic instead of local lesions. The material which cals here is in a state not capable of ready absorption, and must act locally. It represents the soluble products mixed with mucus, possibly with particles of tissue.

Buck, Med. Handbook, V11, 901.

An abbreviation (a) of Catalan; (b) [l. c.]

of catalogue; (c) of catechism.

cata. An abbreviation of catalogue.

catabasial (kat-a-bā'si-al), a. [Gr. $\kappa a \tau \acute{a}$, down, $+ \beta \acute{a}\sigma \iota \varsigma$, basis (see basion), +-all.] In anthrop., having a skull-base in which the basion is

to go down, ζκατά, down, + βιβάζειν, cause to go, \ \ \ \beta airew, go: see basis.] In astrol., the moon's descending node; the dragon's tail. See dragon. Lilly. catabiosis (kat" a -bî -ō'sis), n. [NL., < Gr.

καταβίωσις, passing life, living, ζ κατά, down, + βίωσις, mode of life.] In physiol., that property of living substance which enables it to make adjoining cells or structures develop adaptively or in harmony with itself.

catabiotic (kat a-bi-ot'ik), a. Of or pertaining to catabiosis.

catachthonian (kat-ak-thō'ni-an), a. [Gr. καταχθύνιος, underground, \langle κατά, down, + χθόνιος, \langle χθών, the ground: see *chthonic*.] Underground; subterranean.

cataclasm (kat'a-klazm), n. [Gr. κατάκλασμα, a breakage, < κατακλάν, break down, break off, κοτα, down, + κλάr, break.] A violent disruption or breaking up. Southey.
 cataclastic (kat-a-klas'tik), a. and n. [Gr.

cataclastic (kat-a-klas'tik), a. and a. [Gr. κατακλαστος, broken (see *cataclasm), + -ic.] I. a. 1. Of, pertaining to, or resulting from, a cataclasm.—2. In petrog., noting a structure produced in rocks by crushing or shearing, whereby the minerals are broken into fragments. Kjerulf.

II. u. A fragmental texture in a rock or mineral produced by crushing instead of sedimentation. Geikie, Textbook of Geol., p. 135.

cataclinal (kat-a-klī'nal), α. [Gr. κατακλινης, sloping, +-ul¹.] Sloping: a descriptive term applied to a dip-slope; that is, a land-surface which follows the dip of the underlying strata.

— Cataclinal valley, a valley whose course follows the dip of the strata.

cataclysmatic (kat "a-kliz-mat'ik), a. Of the nature of a cataclysm; of or relating to the

cataclysmists or their theories.

cataclysmists or their theories.

Cataclysmic theory, in grod., a theory promulgated by

Cavier, and generally accepted in the early days of the
science, which maintained that "each period in the earth's
history is marked by distinctively characteristic faunas
and floras; that no species is common to two successive
periods; that tremendous convulsions of nature (catacitysms) occurred at the close of each cycle and annihilated
the whole organic world; and that by means of special
creative acts the renovated carth became time and again
populated with new animals and plants which bore absojutely no connection either with previous or with subsequently introduced types." Zittel (trans.), Textbook of
Paleou., 1. i. Also theory of cataclysms (which see, under
cataclysms). cataclusm)

Catacrotic pulse. See *pulse1.

catacrotism (kat-ak'rō-tizm), n. [catacrot(ic) + ism.] The occurrence of a cataerotic pulse, catacumbal (kat-a-kum'bal), a. [LL. catacumba, catacomb, + -all.] Of, pertaining to, resembling, or characteristic of, a catacomb. [Rare.]

Catadicrotic pulse. See *pulse1.

catadicrotism (kat-a-dik'rō-tizm), n. [Gr. κοτά, down, + δι-, two-, + κροτος, beating, pulse, + -ism.] The condition of the pulse in which the descending line of the sphygmographic tracing is broken by an upward notch catalysotype (kat-a-lis'ō-tip), v. t.; pret. and representing a faint beat following the main pulsation.

puisation.

catadidymus (kat-a-did'i-mus), n.; pl. eata-didymi (-mi). [NL., ⟨Gr. κατά, down, + δίδυμος, double.] In teratol., a monster double below but single above.

catadromous, a. 2. In bot., having the first set of nerves (in each segment of a fern frond)

given off on the basal side of the midrib, as in

Osmunda. Compare anadromous (b), Catætyx (ka-tē'tiks), n. [NL., < Gr. καταίτυξ, a low helmet or cap of leather.] A genus of deep-sea fishes of the family Brotulidæ.

cataforite, n. Same as *cataphorite. catagenetic (kat"g-jē-net'ik), a. Of or per-

taining to entagenesis. The catagenetic energies tend to the creation of a stable milibrium.

A. Hyatt, Biol. Lect., p. 146. equilibrium.

catalase (kat'a-lās), n. [Also katalase; \catalogue (ysis) + -ase.] An oxidation-ferment which decomposes hydrogen peroxid catalytically with the liberation of oxygen.

catalects (kat'a-lekts), u. pl. [L. catalecta.]
A collection of short poems ascribed to Vergil; in general, short pieces or fragments of literature. Holland.

catalina (kä-tä-lō'nä), n. [Mex. Sp., from the fem. name Cutalina.] The Mexican name of Anisotremus tuniatus, a fish of the Pacific coast

lower under the assumed no....
opisthion.
catabatic (kat-a-bat'ik), a. [Gr. καταβατικός,
⟨κατάβασις, descent: see catabasis.] Declining: said of the stage of defervescence of an acute disease.
catabibazon (kat'a-bi-bā'zon), n. [Gr. κατα-catabibazon (kat'a-bi-bā'zon), n. [Gr. κατα-cata

2. Any of the fishes belonging to the genus Holacunthus.

catallactic (kat-a-lak'tik), a. [See catallacties.] Pertaining to exchange, or to the science of exchanges.

catalo (kat'a-lō), n. [cat(tle) + (buff)alo.]
The offspring of a cross between the American bison and domesticated cattle: in common use in the southwestern United States.

Vernon Bailey spoke on 'The Goodnight Herd of Buffalocs and Cataloes in Texas,' saying that this com-prised tifty buffaloes and about seventy catalocs, or crosses between the buffalo and domesticated cattle. Science, March 6, 1903, p. 386.

catalogd, pp. A simplified spelling of cata-

cataloger, n. A simplified spelling of cataloauer

catalogic (kat-a-loj'ik), a. Of the nature of or pertaining to a catalogue.

catalogical (kat-a-loj'i-kal), a. Same as *cata-

catalogistic (kat-a-lō-jis'tik), a. Enumerative: as. "the Sankhya, the catalogistic philosophy, W. H. Mill: so called from its numerical classifications, and the importance attached by Sankhyans to the establishment of their twenty-five principles. See Sankhya.

twenty-five principles. See Nankhya.

catalogue, n.—Argentine General Catalogue, a star-catalogue made from observations at the National Observatory of Argentina (at Cordoba), and including stars in all portions of the southern heavens: in distinction to the "zones," catalogues which are limited to certain belts of the celestial sphere.—Author-catalogue, a catalogue in which the various works composing a library are arranged alphabetically according to their authors.—Dictionary catalogue, a catalogue arranged alphabetically.—Subject-catalogue, a catalogue of books or the like arranged according to subjects.—Systematic catalogue, a catalogue which is logically arranged.

catalona (kä-tä-lô'nä), n. [Philippine Sp., taken as fem. of catalonan, which is then treated as mase.: see *catalonan.] Tagalog

sorceress or witch.

catalonan (kä-tä-lö'nän), n. [Philippine Sp. \[
 \begin{align*}
 C Tagalog cutalonan, a sorceress or witch. \begin{align*}
 Among the pagan Tagalogs, a sorceress or witch; also (in Spanish use), a male sorcerer
 \] or priest.

catalpic (ka-tal'pik), a. [catalpa + -ic.] Pertaining to or derived from the catalpa .- catalpic acid, a crystalline bibasic acid, $C_{14}\Pi_{14}O_{6}$, found the unripe seeds of Catalpa bignonioides. It melts

catalpin (ka-tal'pin), n. [catalpa + -m2.] A crystalline glucoside obtained from the seeds and bark of Catalpa bignonioides.

catalufa (kä-tä-lö'fä), n. [Cuban Sp. use of Sp. catalufa, a kind of carpet, = Pg. catalufa, a sort of woolen cloth.] A Spanish name of a bright red bass-like fish of the genus Priacunthus, known in English as the big-cyc .- Catalufa de lo alto, a name applied to species of the genus Pempheris, deep-water fishes of a red color which bear a superficial resemblance to Priacanthus.

pp. catalysotyped, ppr. catalysotyping. Same as *catatype.

catalyst (kat'a-list), n. [cataly(sis) + -(i)st.] In phys. chem. Same as catalytic agent (which

The change, however, does not occur spontaneously, but is undoubtedly dependent on the presence of a catalyst, as equilibrium is established with great rapidity if a trace of alkali be added. Nature, Sept. 3, 1903, p. 431.

catalytic, a. 2. A term applied to evolutionary stages or conditions in which organisms are degenerating toward sterility, as a result either of too wide cross-breeding or of too narrowinbreeding. Aberrant or mutative hybrids and abrupt mutative variations or sports appear in the catalytic stages. Compare *dialytic, 4, *hemilytic, and *prostholytic. O. F. Cook.

Same as catalytic agent.

catalyzator (kat "a-li-za'tor), n. [catalyze + -ator.] A substance which acts catalytically, causing by its presence chemical changes while apparently remaining itself unchanged: a catalytic agent. Also cutalysator.

Free hydrogen-ions are therefore without doubt exceedingly active catalysators of a general character.
Smithsonian Rep., 1893, p. 237.

catalyze (kat'a-līz), v. t.; pret. and pp. catalyzed, ppr. catalyzing. [Also catalyses; (catalysis (cf. analyze).] In phys. chem., to act upon by catalysis: said of a substance which accelerates a chemical reaction while it is itself left unchanged at the end of the reaction.

. . . the prevalent view that an enzyme acts as a catalyzing agent and that the action of a catalyzer is the formation

of a labile intermediate product which instantly decomposes, restoring the catalyzer to its original condition. Science, April 3, 1903, p. 338.

catalyzer (kat'a-li-zer), n. In phys. chem., a eatalytic agent: a catalyzator.

Measurements were made of the effect of catalyzers on the formation of $C_6 II_5 CI$ and $C_6 II_6 CI_6$ from benzene and chlorine.

Jour. Phys. Chem., May, 1904, p. 373.

catamaran, n. 4. In Inmbering, a small raft carrying a windlass and grapple, used to re-

cover sunken logs. [U. S.]

Catamblyrhynchidæ (kat-am-bli-ring/ki-dē),

n. pl. [NL., ζ ('atamblyrhyncus (ζ Gr. κατά,
down, + ἀμ.3Στς, blunt, + ρυχχος, snout, beak)

+ ·idæ.] A family of South American passe-

rine birds related to the sparrows.

rine birds related to the sparrows.

catan (kä-tän'), n. [Philippine Sp. catán (Morga), ⟨Jap. katana, a sword, a knife.] A kind of Japanese or Chinese cutlas.

catapetasma (kat a-pe-taz'mā), n. [Also katapetasma; ⟨Gr. καταπέτασμα, a veil, ⟨καταπέταντίναι, spread out, ⟨κατά, down, +πεταννίναι, spread out.] 1. In the Gr. Ch., the veil or curtain of the holy doors.—2. The veil which is used in Oriontal advertors to veil which is used in Oriental churches to cover the chalice and paten.—3. In the Gr. Ch., the veil which is hung on the canopy standing over the altar.

cataphebe (kat'a-fēb), n. [Origin unknown.] Hypopleetrus unicolor, a serranoid fish of the West Indies. Also called vaca.

cataphoresis (kat'a-tō-rē'sis), n. [NL., ζ Gr. καταφορεῖν, carry down, ζ κατά, down, + φέρειν, carry.] The action of conveying something downward or through something else; specifieally, electrical endosmosis, especially electrie eudosmosis employed to cause medicinal substances (such as cocaine, quinine, or the like) to pass through or into living tissues in the direction of flow of a positive electric current, or from the anode to the cathode. cndosmosis.—Anemic cataphoresis, cataphoresis in which the action of the remedy is limited to the seat of application, in consequence of the temporary arrest of the blood-supply to the part.

cataphoretic (kat"a-fō-ret'ik), a. [cataphore-sis (-ret-) + -ie.] Pertaining to or of the nature of eataphoresis; cataphoric.—Cataphoretic demedication, the withdrawal of foreign material from the tissues by cataphoresis.—Cataphoretic medication, the impregnation of the tissues of a part with any material by cataphoresis.

nation of the visual axis below the horizontal plane.

cataphoric, a. 2. Relating to *cataphoresis, to *cataphoria. See these words.

The cataphoric electrode, covered with a thickness of lintine, or similar material saturated with adrenalin, is connected with the positive pole of the battery, or other electric source.

Med. Record, March 7, 1903, p. 363.

cataphorite (ka-taf'ō-rīt), *n*. [Gr. κατάφορος, bearing or going down, + -ite².] An alkaliron amphibole near barkevikite, first described from Norway. Also written kataphorite.

cataplasis (ka-tap'la-sis), n. [NL., ζ Gr. κατά, down, + πλάσις, ζ πλάσσειν, form, mold.] In evolution, the stage of the decline or decadence

of an organic type, in distinction from the stage of its rise (anaplasis) and the stage of its full vigor (metaplasis). Haeckel.

catapophysial (kat "a-pō-fiz'i-al), a. [catapophysis + -al.] Of or pertaining to a catapophysial canal, in ornith, the Grandshall canal, in ornith, the degree or block on which slaves were by the eatapophyses and containing the carotid artery. Proc. Zool. Soc. London, 1901, 1, 370.

catapophysis (kat-a-pof'i-sis), n.; pl. cata-pophyses (-sēz). [NL., ζ Gr. κατά, down, + aπόφνοις, an outgrowth, a process.] 1. In anat., any process. usually of bone or of brain tissue. Also called hypapophysis.—2. One of a pair of processes developed on the sides of the ventral face of the cervical vertebræ in birds. They vary in size from a slight projection near the hase of a transverse process to a long incurved process that almost or quite nects its fellow of the opposite side to form the catapophysial canal. On the posterior cervicals the catapophyses may be moved downward on to the hypapophysis. *Proc. Zool. Soc. London*, March, 1899, p. 466

Catapult fruit. Same as *ballistic fruit. catapult (kat'a-pult), v. I. trans. 1. To hurl, as a missile, as from a catapult.

At last . . . the throne itself was catopulted into the square, and the last symbol of royalty reduced to a heap of ashes.

Blackwood's Mag., LXIII. 499.

2. To shoot at with a catapult: as, to catapult

II. intrans. To use a catapult in hurling nent is absolutely refuted from premises supmissiles.

cataract, n. 7. In mech., a device for regulating the number of strokes per minute in a Cornish pumping-engine, in which the velocity of a falling weight, or a spring-weighted piston, is governed by the flow of water through a variable opening, whose cross-section can be controlled at will, so that the period of the stroke or the interval between strokes can be stroke or the interval between strokes can be made longer or shorter.—Black cataract, opacity of the crystalline lens discolored by the absorption of pigment from the blood.—Cortical cataract, opacity of the crystalline lens beginning at the margin and extending toward the center.—Diabetic cataract, a cataract occurring prematurely in one suffering from diabetes.—Glacier cataract, an abrupt precipitous descent in the course of a glacier, analogous to a cataract in a river. Dana. Mannal of Geol., 4th ed., p. 238.—Lamellar cataract. Same as zonular cataract (which see, under zonular).—Senile cataract, a hard opacity in the aged.—Soft cataract, a cataract of the eye in which the opaque lens is of semi-fluid consistency, as happens when the opacity occurs before the nucleus of the lens has formed.—Zonular cataract. See zonular. cataract (kat'a-rakt), v. I. intrans. To form eataracts.

II. traus. To pour, like a cataract.

My poems have been reviewed. The Monthly has cataracted panegyric on me; the Critical cascaded it, and the Analytical dribbled it with civility.

Coteridge, Letter in Sup. Biographia Literaria, 11, 739.

cataract-box (kat'a-rakt-boks), n. A dash-pot; a damper or retarder in the form of a piston which must move a liquid whenever it changes position. The movement of the liquid through an orifice of adjusted size determines the rate at which the piston moves.

cataract-knife (kat'a-rakt-nīf"), n. A knife for section of the cornea in operations for eataract: it is so shaped as to prevent the escape of the aqueous humor while the incision is being made and the knife remains in the wound.

cataract-lens (kat'a-rakt-lenz), n. A powerful spectacle-lens used after an operation for cataract.

cataract-needle (kat'a-rakt-newdl), n. steel rod, set in a handle, with a pointed or lanee-shaped extremity: used to disintegrate a lenticular eataract and so promote its ab-

catarinite (kat'a-rin-īt), n. See *mcteorite. cataphoria (kat-a-fō'ri-ā), n. [NL., ⟨ Gr. κατάφορος v. bearing or going down, ⟨ καταφορος v. bearing or going down, ⟨ καταφορος v. bear.] Inclination of the visual axis below the horizontal cous membrane leading to atrophy: usually the underlying condition of ozena.—Autumnal catarrh, hay-fever.—Bronchial catarrh, bronchitis.—Epidemic catarrh, influenza.—Gastric catarrh, simple inflammation of the mucous membrane of the stomach.—Lightning catarrh, a severe and rapidly developing nasal catarrh.—Nasal catarrh. Same as coryza (acute form) and ozena (chronic fetid form).—Russian catarrh, influenza.—Suffocative catarrh, capillary bronchitis.—Vernal catarrh, a form of conjunctivitis which prevails in the spring.

**croup!, gastritis, jaundice. See **croup!, gastrie **catarrh, **jaundice.

Catasetum (kat-a-sē'tum), n. [NL. (L. C. Riehard, 1822).] A genus of plants of the family Orchidaceæ, several species of which are grown in shoice collections. Orcidaceæ, several species of whitch are grown in choice collections. They have globose expanded flowers and plaited membranaceous leaves; the flowers are in racemes, and the columns are provided with sensitive appendages which, when tonched, cause the pollemasses to fly out. There are some 30 species in the American tropics, either terrestrial or epiphytic. C. Bungerothi, C. macrocarpum, C. discolor, and others are under cultivation. They require a high temperature.

formerly exposed for sale.

She will be taken to Rome, and sold as a slave. And in spite of a few discomforts in the transfer, and the prejudice . . . against standing an honr on the catasta to be handled from head to foot in the minimum of elothing, she will most probably end in being far better housed.

Kingsley, Hypatia, xiii.

2. A bed or rack of torture.—3. An obsolete English name for the stocks.

catastrofe, n. A simplified spelling of catastrophe.

catastrophal (ka-tas'trō-fal), a. Same as catcatastrophical (kat-as-trof'i-kal), a. Same as

catastrophically (kat-as-trof'i-kal-i), adv. In a catastrophic manner; with the suddenness and the disastrous effect of a catastrophe.

catasyllogism (kat-a-sil'o-jizm), n. [Ml. catasavasyllogism (κατ-α-sin φ-jizm), π. [επιλ. επια-syllogismus (cf. Gr. κατασυλλογίζεσθαι, have a eonelusion drawn against one), ζ Gr. κατά, down, + συλλογισμός, syllogism.] A syllogism by which the principal contention of an oppoplied by him. Eisler attributes the introduction of the term to John of Salisbury; but, in fact, Boethius has it, the corresponding infinitive having been used by Aris-totle in the nineteenth chapter of the second "Prior Analytics

catatasis (kat-at'a-sis), n. [NL., < Gr. κατάτασις, stretching, straining, extension, ζ κατατείνειν, stretch, strain, draw tight, ζκατά, down, + τείνειν, stretch.] Extension employed in the reduction of a dislocation or of the deformity attending fracture of one of the long bones.

catatonia, n. See katatoma. catatonic, a. See *katatonic.

catatricrotism (kat-a-trik'rō-tizm), n. [Gr. κατά, down, $+\tau \rho r$, three-, $+\kappa \rho \delta \tau \sigma c$, a beating, elapping (pulse), +-ism.] A condition of the pulse in which the descending line of the sphygmographic tracing is broken by two upward notches representing two faint beats after the main pulsation.

catattut (kä-tä'töt), n. [Said to be a native name in Amboina.] The cocoanut crab, Birgus latro.

catatype (kat'a-tip), n. [Also katatype; ζ Gr. κατά, down, + τυπος, type.] In photog., a print made from a negative without the aid of light, but by the use of a chemical catalyzer or accelerator. Ostwald and Gros of Leipzig found that by flowing a negative with an ethereal solution of hydrogen peroxid the peroxid is instantly decomposed more or less completely wherever it comes in contact with the silver of the film, which acts as a catalyte, and on the evaporation of the resulting water leaves on the plate an invisible picture in unaltered peroxid which is densest where the negative is least dense, and is therefore a positive. The negative is next pressed on paper flowed with ferrous sulphate, which is then washed and developed by gallic acid to produce a dark-violet picture in writing-ink. Other chemicals, as manganese salts, may be used instead of the iron solution. A similar process is employed for the production of gelatin plates for printing in lithographic ink. Sci. Amer., Nov. 28, 1903, p. 382. or accelerator. Ostwald and Gros of Leipzig found

catatypic (kat-a-tip'ik), a. [catatype + -ic.] In photog., of or pertaining to a catatype, or to the process of inducing chemical change without the use of light.

catatypy (kat'a-ti-pi), n. [catatype + In photog., a printing process which utilizes the chemical agents which act as does light to accelerate changes of a chemical character. See *catatype. Sci. Amer. Sup., Aug. 1, 1903, p. 23,055.

p. 23,030.

catavertebral (kat-a-ver'tē-bral), a. [Gr. κατά, down, + E. vertebral.] Situated below the centrum of the vertebræ.—Catavertebral element, in ichth.: (a) One of the hones attached to the sides of the vertebræ, usually surrounding the abdominal cavity. (b) The hemapophysis, or arch below the centrum of the vertebræ.

catawampous (kat-a-wom'pus), a. [A made word, from cata- + vamp-, vaguely imitative (ef. wap, whop), + -ous.] Fierce; voracious; devouring; destructive. [Slaug, U. S.].

catherry (kat'ber"i), n. 1. The mountain holly, Nemopanthes mucronata.—2. The wild

gooseberry.

catbird, n. 2. An Australian name of members of the genus Ælnrædus: so called on account of the resemblance of their notes to the calls of a eat.

The cat-bird (Ælurædus maculosus) which makes its ppearance towards evening, and has a voice strikingly like the mewing of a cat.

C. Lumholtz, Among Cannibals, vii.

catch1, v. i. 8. In agri., to germinate and grow, as a crop: as, the wheat will catch if the seed and season are good and the land

well prepared.—To catch and bowl, in cricket, to bowl the ball to a batsman and catch him out on the hit: said of the bowler.

catch!, n. 13. In agri., the extent or condition of the germination of a crop: as, a good catch of clover; if a good catch continues to the way it will result in a good stand.—14. In thrive it will result in a good stand.—14. In lock-making, a small lock-case containing a sliding bolt but having no key. The beveled- or latch-bolt is kept in an extended position by a spring or by gravity, and is controlled by a knob which slides in a slot in the case.—Dolly catch, a ball mis-hit by the batsman, which goes slowly in the air to one of the fielders; an apparently easy catch. [Cricket slang.]—Fair catch, in foot-ball, a ball so caught as to entitle the catcher's side to a free kick.—Holding-out catch, a device attached to a a free kick— Holding-out catch, a device attached to a spinning-mule for retaining the carriage in position at the end of its outward run.— Knocking-off catch, a tappet; stop: trip; part of a machine used to strike another piece at a particular time in its travel, so as to operate a stop or

catch-block (kaeh'blok), n. A block having teeth which engage with teeth on another part of the mechanism to form a temporary connection: sometimes used on the valve-gear of certain automatic cut-off engines.

which is caught by the erab or elaw. catch-boom (kaeh'böm), n. A boom fastened

across a stream to eatch and hold floating

catch-box (kach'boks), n. A clutch in which one element enters a box-like eavity and is there eaught by projections which cause one part to drive the other. Nasmith, Cotton Spinning, p. 320.

catch-cropping (kach'krop-ing), n. The employment of a eatch crop in a system of fallow-

ing. See catch *crop.
catch-fake (kach'fāk), n. Naut., an aceidental turn or tangle in a poorly coiled rope.

catch-pan (kach'pan), n. A pan, usually of thin sheet-metal, placed under a machine to eatch the oil or water which drips from it. catch-pawl (kach'pâl), n. A swinging eatch provided on a winch to hold the erank-shaft

endwise in either of its two possible positions. Also used to hold the feed-shafts of some machines in either the ahead or the reverse position.

catch-piece (kach'pēs), n. A stop; a buffer; a spring-bumper used to limit the stroke of a

Cornish pump.

catch-pit (kach'pit), n. A pit or depression in which water is collected; a deep catchbasin.

The late Devonian subsidence then culminated in the formation of a profound catchpit, where sank the coarse sand and pebbles.

Amer. Geol., Aug., 1903, p. 104.

catch-plate (kaeh'plāt), n. 1. A plate or block so placed as to be eaught by a claw when the latter reaches a certain position. Such a part is used on many forms of tripping-valve gear.—2. A small face-plate used on a lathe to carry a pin which engages a straight-tailed dog and so drives the piece to be turned.

catch-rack (kach'rak), n. A form of straight-toothed rack into the teeth of which a wheel may be slid from the side, so that the teeth engage and the wheel drives the rack, or the

catch-rod (kaeh'rod), n. A horizontal connect-ing-rod; part of the arrangement for holding the carriage of a spinning mule in position when at the end of its outward run.

catch-siding (kach'sī-ding), n. A siding along a steep railway grade so placed as to catch runaway ears. [Eng.] catch-station (kach'stā-shon), n. A railroad

way-station where mail-pouches are dropped

from passing trains.

catchwater, n. 2. In phys., a conical receiver placed beneath a bulb, flask, or other vessel to catch the water which is condensed upon its onter surface. M. W. Travers, Exper. Study of

Gases, p. 33. catch-wheel (kach'hwēl), n. A ratchet-wheel; a wheel having a eatch to prevent it from turn-

ing in one direction.

Catchword entry, an entry of a book in a library-catalogue by some prominent word in the title which can be easily remembered and which will readily eath the eye of a reader who is not quite certain of the exact title.

Catchwork, n. 2. Any mechanical appliance used to arrest motion by means of ratchets,

pawls, dogs, and friction gripping-surfaces. Such are elevator safety-appliances which come into action when cables break, overwinding safety-devices in collieries, pile-driving weight-clutches, and the like **catchy** (kach'i), a. Same as catching, 2. [Collical of the collieries of

cat-crane (kat'krān), n. Naut., an overhanging iron beam stepped like a boat-davit, sitnated on the foreeastle. It takes the place of a cat-head in eatting the anchor.

cat-davit (kat'dav*it), n. Same as *cat-crane.
catechesis (kat-ē-kē'sis), n. [LIL. catechesis, ζ
Gr. κατήχησις, oral instruction, ζ κατηχεῖν, teach
by word of mouth: see catechism.] 1. Oral instruction given in the early church to candidates for baptism. It consisted of lectures or addresses, chiefly on the ten commandments, the Apostles' Creed, and the Lord's Prayer, and formed a kind of outline or summary of Christian doctrine.

2. A book prepared for such instruction, as the sixteen books of catchetical discourses by

Cyril of Jerusalem.

Specimens of these addresses and their contents are preserved in the Catechesis of Cyril of Jerusalem (315-386 A. D.) Riddle, Christian Antiquities, p. 460.

catechin, n.—Diamine catechin B and G, two direct cotton coal-tar colors of unpublished composition which dye unmordanted cotton brown in a sait bath—An after-treatment with potassium bichromate or copper sulphate renders the brown faster.

catch-bolt, n. 2. The pin or bolt on the valve-catechizable (kat'ē-ki"za-bl), a. That may be arm of the admission-valve of a Corliss engine catechized or instructed catechetically: as, eatechized or instructed catechetically: as, catechizable persons.

catechol (kat'e-ehol), n. Same as *pyrocatechol or *pyrocatechin.

chol or *pyrocatechin.

catechu, n. It is used extensively in cotton-dyeing, under the name of eutch, for the production of tan shades. It consists chiefly of two principles, catechu-tannic acid, and catechin or catechuic acid, which are accompanied by a brown amorphous substance called japonic acid. Japonic acid is the final oxidation-product of catechuicanic acid is an intermediate oxidation-product. Bombay catechu, obtained from the heart-wood of the catechin palm. Areca Catechu, is considered the best quality for dyeing purposes; its principal constituent is catechu-tannic acid. Bengal catechu, obtained from the pods and twics of the acacia, is less soluble than Bombay catechu. Cate catechu is the same as gambier catechu, which is a product of the leaves of Ouronparia Gambier and is sold in the form of yellow cubes.—Catechu brown. See *brown.—Terra catechu.

Same as catechu.

catechumenism (kat-ë-ku'men-izm), n. The system of instruction and discipline prepara-

system of instruction and discipline preparatory to the reception of baptism.

catechumenize (kat-ē-kū'me-nīz), v. t.; pret. and pp. catechumenized, ppr. catechumenizing, [catechumen + -ize.] To instruct in the doctrines and practices of the church in preparation for baptism.

catechumenship (kat-ē-kū'men-ship), u. The state of being a catechumen.

catechu-tannic (kat "e-chö-tan'ik), a. Pertaining to catechu and tannin.—Catechu-tannie acid, a tannin, C₁₃H₁₂O₅, found in catechu and forming about one half its weight. See *catechu.

categoric (kat-ē-gor'ik), a. and n. Same as categorical.

categorico-alternative (kat-ē-gor"i-kō-al-ter'nā-tiv), a. Having for its premises an alternative proposition and a eategorieal proposition which denies one of the members of the former. The term was introduced in 1890 by E. E. Constance Jones. A categorieo-alternative inference is what is ordinarily called a disjunctive syllogism.

which denies one of the members of the former. The term was introduced in 1890 by E. E. Constance Jones. A categorico-alternative inference is what is ordinarily called a disjunctive syllogism.

CategoTy. n. 1. The categories are those general concepts or ideas which mark the most fundamental distinctions. Such are those of different attitudes of thought which may, or may not, be supposed to correspond to differences in things, regardless of how anybody thinks. The different schemes of categories that are influential in philosophy may be classified according as they make divisions into two, three, four, or more members. Of dualistic, or dyadic, schemes, those which distinguish two modes of thought have never been successfully attacked; especially the distinction between affirmation and negation, under which head are to be ranged a multitude of dyadic distinctions, such as the true and the false, the good and the bad. Other dyadic distinctions of fundamental importance depend upon special metaphysical theories, such as the distinction of body and soul. Still others are open to doubt on the ground that one of the two members may be a name for a heterogeneous collection, such as the distinction of things and thought, where, under 'thought, there may be included both physical phenomena and general agencies, not in themselves phenomena and yet not things. Of triadic systems of categories, the most remarkable is that of Hegel, which very few studenta now accept in all its details, but which is marked throughout by profound analyses. Hegel's governing idea is a philosophical unitarianism. As soon as he finds himself forced to admit that absolute reality involves a rational element, this unitarianism compels him to deny that there is any other element hut rationality in it. Accordingly, he affirms that the real is the rational, and the rational is the real. Thence (largely influenced by experiments) he is led to believe that any abstract idea, allowed to brood over itself, will hatch out of itself a flat denial of itse tity, subject and uttribute, causal relations, non-causal re-lations between different things, thought and its object; Herbert Nichols's cutegories, quality, quantity, change-ableness, lawfulwess, presentativeness, personality.

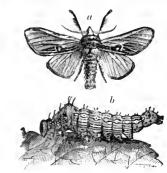
catelectrotonically (kat"ē-lek-trö-ton'i-kal-i),

adr. In a catelectrotonus manner. Buck, Med. Handbook, III. 780. catenoid (kat'ē-noid), a. and n. [L. catena, a chain, + Gr. eidoc, form.] I. a. Chain-

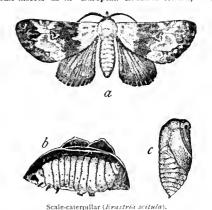
shaped; catenary. A catenoid colony of Protozoa is such as would arise from the union of cells end to end, or side to side, or through the continuous division of cells in our dead. in one plane

II. u. The surface of revolution of the cate-ary. Meusnier found (1776) that every min. imal surface of revolution is the catenoid.

catenulate, a. 3. In zoöl., same as catenate. Annals and Mag. Nat. Hist., May. 1903, p. 452. catenulate, a. 3. In zoöl., same as catenute. Annals and Mag. Nat. Hist., May. 1903, p. 452. caterpillar, n. Black caterpillar, the larva of a European saw-fly. Athalia spinarum, known as the turnip saw-fly. The larva are also known as blacks, black patiners, and niggers. They feed on turnip, chalcek, and mustard.—Blue-spangled peach-tree caterpillar, a velvety-black caterpillar, with an orange stripe along the back and steel-blue warts, the larva of the arctiid moth Haploa colona or fulvicosta, which feeds upon the foliage of peach and other rosaceous fruit-trees in the castern United States.—Bulrush caterpillar, same as *plant-caterpillar.—Geometric caterpillar, any one of very many larva of the lepidopterous family Geometricke, which, lacking abdominal prolegs, move with a looping motion as though measuring the surface over which they walk.—Harlequin caterpillar, the larva of an American arctiid moth, Eucharles eyle, which is found commonly on milkweed and is clothed with tufts of orange, black, and white hair.—Hedgehog caterpillar, the larva of an arctiid moth, Isia isabella: also called woolly bear.—Hickory horned-devil caterpillar, See wealned-moth. Also called royal horned walnut-cuterpillar.—Moth-borer eaterpillar, a name used by the planters in the British West Indies for the larva of the sugar-cane borermoth, Diatrwa seecharalis. Nature, Sept. 3, 1903, p. 423.—Orange-dog caterpillar, the larva of an American papillonid butterfly, Papilio thous, found commonly on citrus-trees in Florida and Lonisiana and also in Mexico and Central America.—Processionary caterpillar. (a) See processionary. (b) The larva of an Australian lymantriid moth, Teara unclanosticta, which forms in columns like the European Cuetho-campa processiona.—Red-humped apple-tree caterpillar, the larva of a notodontiid moth, Schizura con-



cinna. It feeds on the leaves of the apple, pear, and other rosaceous trees. Its body is longitudinally striped with slender white, black, and yellow lines, the head is coralred, and there is a coral-red hump on the back of the fourth segment, whence the popular name.—Scale-carepillar, the larva of sny phycitid moth which feeds on scale-insects as th European Erastria scitula, whose



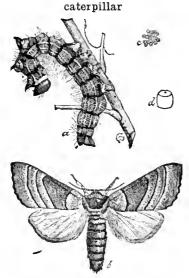
a, moth; δ , larva in case; ϵ , pupa. (All more than twice natural size.) (After Riley, U. S. D. A.)

larva preys on the black scale and which has been imported into California, and the American Lætilia coccidivora, whose larva feeds on the cottony maple-scale.—Vegetable caterpillar, a name applied to certain species of Cordigeps which grow upon caterpillars. See Cordyceps and caterpillar-fungus.

II. Hill publishes a historical and descriptive account of this fungus which has been called the vegetable caterpillar. It is found all over the North Island of New Zealand. The author has not been able to determine the species of caterpillar attacked by the fungus, and his attempts to germinate the spores on other caterpillars have been as yet unsuccessful.

Jour. Roy. Micros. Soc., Feb., 1903, p. 69.

Wheat false eaterpillar, the larva of an American saw-ily, Inderus arrennis.—Yellow-necked apple-tree eat-erpillar, the larva of a notodontid moth, Dutana munis-tra. It feeds gregariously on the leaves of the apple, and



Yellow-necked Apple-tree Caterpillar ($Datana\ ministra$), a, caterpillar; b, moth; c and d, eggs, natural size and enlarged.

has other food-plants as well. The body is longitudinally striped with black and yellow, except the neck, which is uniformly orange-yellow. The head is black.

caterpillar-fern (kat'er-pil-är-fern), n. See

caterpillar-hunter, n.—Green caterpillar hunter, an American predatory carabid beetle, Calosoma scrutator, of a metallic green color. See Calosoma, with cut. cateye (kat'i). n. A scorpsenoid fish, Helicolenus madeirensis, found in Madeira. Also boca

cat-face (kat'fas), n. In forestry, a partly healed-over fire-sear on the stem of a tree. [U. S.]

cat-faced (kat'fāst), a. 1. Full of knots: applied to sawn timber.—2. An opprobrious or contemptuous epithet used in the north of stand 1. A recent sole for holding and stand 1. A recent sole for holding and stand 1. A recent sole for holding and stand 1.

contemptuous epithet used in the north of England. [Slang.]
catfish, n. 7. In Victoria and New South Wales, a fresh-water fish, Copidoglanis tandanus. It inhabits the rivers of the Murray system, but not those of the center of the continent. Also called ecl_ish and tandan. In Sydney the same name is applied also to Cnidoglanis megastoma.—Bermuda catfish, Same ss *rabbit-jish, 4(of Madeira).—Electric catfish, Malapterunus electricus, a catfish found in the Nile, having the power of giving an electric shock. The electric organ is said to extend over the entire body.
cat-flea (kat'flô), n. See Pulex.
cat-fluke (kat'flôk), n. A trematoid worm, Opisthorchis felineus (Rivolta, 1884), from 8 to 13 millimeters long, found in the liver in cats, dogs, and men, and producing Siberian opisthorchiasis.

thorehiasis.

cat-foot (kat'fut), adv. With silent foot a cat; in the manner of a cat; stealthily; [Prov.]

He [a bear] catches the dinin'-room deserted . . . an' goes romancin' over, catfoot and surreptitions, an' cleans np the tables.

A. H. Lewis, Wolfville Nights, xv.

catgut, n.— Chromic (or chromicized) catgut, catgut impregnated with chromic acid, in consequence of which it is less quickly absorbed when used for sutures or ligatures in surgical operations.—Iodized catgut, catgut steeped in iodine whereby it is rendered aseptic and less readily absorbable.

Cath. An abbreviation (b) of cathedral.

cathamma (ka-tham'ā), n.; pl. cathammata (a-tä). [NL., ⟨Gr. κάθαμμα, a knot, ⟨καθάπτειν, fasten, ⟨κατά, upon, + ἀπτειν, touch, fasten.] In zoöl., a place at which the dorsal and ventral walls of the umbrella are grown together, as in certain jeltyfishes. cathammal (ka-tham'al), a.

- [cathamma + -all.] 1. Relating to a cathamma. -2. Of or pertaining to rudimentary endoderm. The layer of degenerated endoderm which persists in some med use, in areas where the endodermal canal-system has been obliterated, is termed a vascular lamella or cathamnal plate.

Catharistic (kath-a-ris'tik), a. Of or pertaining to the Catharists (which see); puritanical.

catharsis, n. 2. Used in English to express whatever Aristotle is supposed to have meant catholyte (kath'o-lit), n. [cath(adc) + (clectr)owhatever Aristotle is supposed to have meant by the same word. But he has been understool in five different ways. A passage of his "Poetics" to which we are referred in his "Politics" for the full explanation of his meaning does not appear in the "Poetics," as extant. The word was applied in Greek to the ritual purification of temples, etc. Plato and Xenophon (the latter using only the adjective $\kappa \alpha \theta a \rho \delta_c$, clean), both disciples of Socrates, use it to mean a clarification of the mind induced by dying and even at the near approach of death. Aristotle means by his phrase $\kappa \alpha \theta a \rho \sigma \varsigma_c \tau \omega \nu \pi \alpha \theta \eta \mu \alpha \tau \omega \nu$

(often translated 'a purging of the passions') a mental effect of the contemplation of works of high art, especially of the choral but severely simple and solemn Greek tragedies. He has been supposed to mean a cleansing from sin; but it is certain that he does not mean this or any strictly moral effect. On the other hand, he was of a medical family, and himself compares eatharsis to the effect of a cathartic. He probably means the brightening and clearing of the emotional state by relieving the thoughts of the burden of sordid cares and of sensual desires; and something like this is now usually understood by the word.

cathartic, a .- Compound cathartic pills. See

cathartin (ka-thär'tin), n. [cathart-ic + -in2.] 1. A name once given to a mixture of substances obtained from senna.—2. A bitter substance found in buckthorn berries, Rhamnus cathartica.

cathartogenin (kath-är-toj'c-nin), n. [cathar-

tic + -yen + -in².] Same as cathartic acid. cat-head, n. 4. An attachment to a latho to assist in supporting long bars when they are being turned. It is a ring having set-screws that bind the work, when not circular, and hold it in a *centering-rest (which see).

cathedralesque (ka-thē-dra-lesk'), a drat-like: as, cathedralesque churches.

cathedralism (ka-thē'dral-izm), n. tem that arises from the administration and regulations of a diocese,

cathedralist (ka-thē'dral-ist), n. 1. An advocate or supporter of cathedralism .- 2. A clergyman attached to a cathedral church.

cathedralized (ka-the'dral-izd), p. a. Converted into a cathedral: as, a cathedralized church.

cathedratically (kath-ē-drat'i-kal-i), adv. With the authority of one who speaks ex cathedra; authoritatively.

catheter, n.—Elbowed eatheter, a catheter with an angular bend near the tip: used in cases of enlarged prostate.—Female catheter, a short, nearly straight catheter for passage into the female bladder.—Prostatic catheter, a catheter with a wide curve, employed in certain cases of enlarged prostate.

καθετήρ, catheter, + στατός, < ίστάναι, place, stand.] A receptacle for holding and sterilizing catheters. Buck, Med. Handbook, II. 754. cathetometric (kath-e-tō-met'rik), a. Of, pertaining to, or obtained by means of a cathetometer.

cathion (kath'i-on), u. An erroneous form of

Cathode photograph. Same as sciagraph, 2.— Cathode photography, rays. See *photography, *ray1.—Cathode streams. Same as cathode *rags. Cathodic, a. 2. Of or pertaining to the cathode:

as, the cathodic discharge in a vacuum-tube. Also spelled kathodic.—Cathodic dark space, the dark space in a vacuum-tube traversed by the electric discharge which surrounds the cathode. See Crookes's

cathodograph (ka-thō'dō-graf), n. [cathode + Gr. γράφειν, write.] A photograph taken with the X-rays. See *ray¹.

cathodography (kath-ô-dog'ra-fi), n. [catho-dograph + -y³] The taking of seiagraphs by means of the Röutgen, or X-, or cathode rays. cathodo-luminescence (ka-thō/do-lū-mi-nes'ens), n. A phosphorescent or fluorescent glow excited by the action of cathode rays. See *luminescence.

cathography (ka-thog'ra-fi), n. An erroneous form for *cathodography.

Catholic Epistles, a title given to a group of seven epistles Catholic Epistles, a title given to a group of seven epistles in the New Testament, namely, the first and second epistles of Peter, the first, second, and third of John, and those of James and Jude. The term 'catholic 'probably refers to the destination of the epistles as encyclical letters, addressed to the church universal or to scattered readers. — Christian Catholic Church, a church organized in 1836 by John Alexander Dowie, a Scotchman, who claimed to be the promised Elijah, come to establish the kingdom of God on earth. The characteristic tenets of the church are faith-healing, literal interpretation of the Bible, strict morals, and abstinence from the use of to-bacco, alcohol, and medicinal remedies.

catholically (ka-thol'i-kal-i), adv. In a catholic manner; as a Catholic.

The Duchess . . . stated expressly that Angustus of Saxony was to consent that his niece "should live Catholically after the marriage."

Wetley, Dutch Republic, 1, 304.

Motley, Dutch Republic, I. 304.

lyte.] In phys. chem., that portion of the electrolyte which adjoins the cathode. Electrochem. Industry, March, 1904, p. 99. cat-hop (kat'hop), n. In faro, two cards of the

same denomination left in the dealing-box for

the last turn. See faro. cathoscope (kath'ō-skōp), n. [catho(de) + Gr. σκοπείν, view.] A machine for exhibiting

the optical effects of the X-rays. It comprises a fluoroscope, a vacuum-tube, batteries, etc. cativa (kä-te'vä), n. [Panama.] The large cdible seeds of *Prioria copaifera*, a leguminous

tree of Jamaica and Central America. catjang (kat'jang), n. [A Dutch spelling of kāchang, a pulse plant, as Malay katjan, the Cajan Cajan, etc. See Cajanus.] 1. The pigeonpea or Kongo pea, Cajan Cajan. See *Cajan and dholl.—2. The cow-pea or chowlee, Vigna

Sinensis. See Vigna, and cow-pea, under pea.

Sinensis. See Vigna, and cow-pea, under pea. Catlin's River series. See *series. catmon, n. See *katman. catnep (kat'nep), n. Same as catnip. Catocala (ka-tok'a-lä), n. [NL., ζ Gr. κάτω, below, + καλός, beautiful.] A notable genus of noctuid moths containing many very beautiful speaks. tiful species. They are known as underwing noths, from the fact that the hind wings are often striped and colored in striking contrast to the fore wings. The genus is widely distributed, but North America is its metropolis, more than 100 species occurring on that continuent

catoctin (ka-tok'tin), n. [Catactin, a local name in Maryland, of Indian origin. Cf. monad-A boss of rock which rises above the nock.] general level because of its greater resistance to erosion.—Catoctin schists. See *catoctin type.—Catoctin type, the type of ore-deposit occurring in the Catoctin schists, a belt of metamorphosed basic volcanic rocks of Algonkian age, forming the mountain-core of Maryland and Virginia.

Catonic (kā-ton'tk), a. [NL. Catonicus, & L. Catonic experiment of catus segrections]

Cato, a Roman cognomen, (catus, sagacious.] 1. Of or pertaining to, or having the character of, Cato the Censor, a type of old-fashioned, prejudiced, pragmatical, ungracious, hard Roman virtue.—2. Of or pertaining to Cato of Utica, a type of stubborn but impractical virtue. - 3. In the style of a medieval book of apothegms which goes by the name of Cato or Caton.

catoptromantic (ka-top-trō-man'tik), a. [ca-toptromancy.] Of, pertaining to, or of the nature of catoptromancy. cat-piece (kat'pēs), n. In lagging, a small

stick, in which holes are made at regular insetter, in which holes are made at regular in-tervals, placed on the top of uprights firmly set in floating booms. The uprights are fitted to enter the holes in the cat-piece so as to narrow or widen the space between the booms at the entrance to a sluice-way or sorting-jack. The cat-piece is held by the up-rights high enough above water to allow logs to float freely under it.

cat's-blood (kats'blud), n. Same as *bloodberry.

cat's-claw, n. 3. See *bayag-kambing.
cat's-eye, n. 3. In pathol., an opalescent appearance of the eye in certain cases of amaurosis.—4. See *tiger's-eye.—5. The operculum of a marine mollusk, Turbo smaragdus. [Australia.]—Cat's-eye shutter. See *shutter.

Cat's-head molding, in Romanesque arch., s molding, as that under the cornice, adorned with the heads of beasts or grotesque monsters. Compare *bird's-beak.

cat's-nose (kats'nez), n. 1. A strong, cool, dry northwest wind which pushes under and lifts up a warmer southwest wind. Dunwoody, Popular Phrases, p. 30. - 2. The cloud at the front of such a wind. [Colloq. Eng., in both senses.] cat's-tail, n., 3. (b) A form of cirrus in which the delicate cloudy filaments resemble a bushy, curved cat's tail.

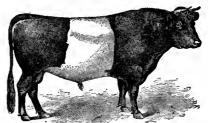
cat-stitch (kat'stich), n. A variety of ornamental stitching used in fancy sewing-machine work.

cat's-tongue (kats'tung), n. A slender, worthless oyster: also called strap-ouster.
cattail, n. 5. In cotton-manuf., any corded,

cattail, n. 5. In cotton-manuf., any corded, stringy tuft of cotton, due to faulty setting of a machine.

Cattaraugus beds. See ★bed1.

cattle, n.—Banded cattle. See Dutch belted *cattle.—Cattle and game disease. See *disease.—Devon



Dutch Belted Bull, Duke of Ralph, 255. Age, three years,

cattle, a breed of small-sized, compactly built cattle of a rich red color, raised mainly for beef, though latterly for dairy purposes.—Dutch belted cattle, a Dutch breed

causticize

of cattle, noted for their milk-giving qualities. They are of a fet-black color, with the exception of a broad belt or blanket of pure white around the middle of the body. Hence also called blanket or banded cattle.—Holstein-Friesian cattle, a breed of dairy-cattle of large size, from North Holland and Friesland, reputed to be of great antiquity. Its most evident color-character is the striking mixture of large blotches of pure white and jet-black. They have been variously called Dutch cattle, Holland cattle, North Hollanders, Holsteins, and Dutch-Friesians, but the name now adopted is Holstein-Friesian, as above.—Malarial fever of cattle. Same as Texas fever.—Pandolian cattle, an Italian breed of long-horned cattle.—Red polled cattle, a red, hornless breed of cattle. It is the only hornless English breed, and was formerly known as East Anglian polls.

Anglian polls.

Cattle-trade (kat'l-trad), n. The rearing, buying, selling, or transportation of cattle. cattle-way (kat'l-wa), n. See *cattle-track. cattle-way (kat'l-wa), n. See *cattle

cattle-bush (kat'l-bush), n. An Australian shrub or small tree, Atalaya hemiglauca, belonging to the Sapindaccæ. The leaves are Caucasic (kâ-kā'sik), a. and n. Same as Caugreedily eaten by cattle and are utilized for

cattle-camp (kat'l-kamp), n. A halting-or mustering-place for cattle; a rounding-up place. [Australia.]

cattle-car (kat'l-kar), n. A stock-car (which

cattle-duffer (kat'l-duf"er), n. Oue who alters the brand on cattle and steals them; a cattle thief who 'duffs' the cattle by altering the [Australia.]

cattle-farm (kat'l-färm), n. A farm on which

cattle are raised; a ranch. cattle-fever (kat'l-fe"ver), n. Same as Texas fever .- Southern cattle-fever. Same as Texas fever. cattle-gate (kat'l-gat), n. In Eng. law, right of pasturage in the land of another. It is a distinct and several interest in land, and passes by lease and release.

The right [a right of common in gross] is then generally known as a cattle-gate or beast-gate.

Encyc. Brit., XXVII. 168.

cattle-louse (kat'l-lous), n. Any one of several pediculid or mallophagous insects which infest eattle: as, (a) Hæmatopinus curysternus, sometimes called short-noscd ox-louse; (b)

Hæmatopinus rituli, sometimes called longnoscd ox-louse; and (c) Trichodectes scalaris.

cattleman (kat'l-man), n. One who is engaged

iu rearing cattle on a ranch; a ranchman.

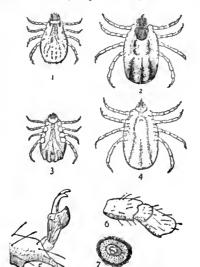
cattle-ranch (kat'l-ranch), n. A rauch or farm

on which eattle are reared. cattle-scab (kat'l-skab), n. A contagious skin disease of cattle, caused by a parasitic mite and characterized by the loss of hair and the formation of crusts or seabs.

cattle-station (kat'l-sta'shon), n. A cattle-run with a homestead and all the necessary build-

ings. [Australia.]

cattle-tick (kat'l-tik), n. Same as *cowtick.—Australian cattle-tick, an Australian ixedid, Boophilus australia, common throughout Australasia, and especially abundant in Australia and the Philippine Islands, where ft attacks cattle.—Southern cattle-tick, an American ixedid, Boophilus bovis, that carries the



uthern Cattle-tick (Boophilus borns Riley).

r, male, from above; z, female, from above; z, male, from below; female from below; z, claw and pulvillus; & lower surface of st, second, and third segments of leg; z, spiracle or peritreme, fter Curtice.) Enlarged.

blood-inhabiting parasite of Texas fever from Texas cattle to non-inmune cattle in northern States.

cattle-track (kat'l-trak), n. A route formed merely by the treading of herds: used in contradistinction to cattle-way, a road formed by man for the use of his cattle.

213

Caucasian, n.—Black Caucasians, the dark people of North Africa who resemble in features the Caucasian race. In this group are included the Gallas, the Abyssinians, and many tribes of the Sudan.

Caucasoid (kâ'ka-soid), a. and n. Same as Caucasian, including Huxley's divisions melanochroic and xanthochroic. Encyc. Brit., XXV, 372. 25

caucho (kä-ö'chō), n. [Peruvian cahuchu: see caoutchouc.] A commercial variety of rubber prepared on the Peruvian rivers tributary to prepared on the Peruvian rivers tributary to the Ainazon, and particularly on the Juruá. It comes to market in the form of balls, strips, or slabs, and is not cured by smoking as is the Para rubber, to which it is inferior, although it is included in the exports of rubber from the Amazon region, which are generally known as Para rubber. Caucho is obtained from several species of trees belonging to the genus Sapium of the spurge family, and from Castilla Ulei of the mulberry family. The rubber obtained from the latter species is usually distinguished as caucho negro, and that from the species of Supium as caucho blanco.

species of Sapium as caucho blanco.

Cauda, n.—Cauda draconis, in astrol., lit. 'dragon's tail,' the descending node of the moon; also, a figure in geomancy. See dragon's tail, under dragon.

Caudal artery, in lower vertebrates, as the fishes, the continuation of the aorta into the tail.—Caudal gland, peduncle. See *sland, *peduncle.—Caudal ray, a ray of the posterior fin, or tail-fin, of fishes.—Caudal style, one of the long processes borne by the anal segment of certain arthropods, as Apus.—Caudal vertebræ. **exertebræ.—Caudal vesticle, the posterior, swollen end of a cysticercus, forming the 'bladder' of a bladder-worm.—Caudal vomer. Same as pagostyle.

caudally (kâ'dal-i), adv. Toward the tail: eandad.

caudate, a. II. n. A member of the amphib-

ian order Caudata; a tailed batrachian. caudiciform (kå-dis'i-form), a. [L. caudex (caudie), caudex, + forma, form.] In bot., having the form of a caudex.

caudiform (ká'di-fôrm), a. IL. canda, a tail, + forma, shape.] Resembling or having the shape of a tail.

caudle-pot (kå'dl-pot), n. Same as *caudle-

caudle-urn (kû'dl-érn), n. A vessel with a lid, handles, and spout, for holding caudle, made by English potters in the seventeenth and eighteenth centuries: usual in tin-enameled ware or Delftware. See caudle.

caudodorsal (kâ-dộ-dôr'sal), a. Relating to the tail and the back.

caudofemoral (kâ-dō-fem'ō-ral), a. Relating to the tail and the thigh: as, the caudofemeral membrane of a bat, which is the membrane between the tail and the leg.

so-ealled mushroom bodies in the brain of certain insects. See mushroom *body. Packard, Textbook of Eutom., p. 233.

caulifloral (kâ'li-flô-ral), a. Same as *cauli-

In caulifory the flowers appear sometimes only on main stems, sometimes only on branches, sometimes, and this is most usual, on both main stem and branches alike.

A. F. W. Schimper (trans.), Plant Geog., p. 336.

cauliflower, n. 2. A cloud (especially a volcanic cloud) having the form of a cauliflower.

The reddish dust 'cauliflowers' accumulated about every half-hour and rolled down the gorge of the Rivière Blanche from the cone. Sometimes this phenomenon was followed by a low rumbling roar. Amer. Jour. Sci., Jan., 1904, p. 34.

Cauliflower ear, pyralid, ware. See *ear1, *pyralid, *ware2.



Cauliflower Cloud. Eruption of Mont Pelé in 1902.

cauline2 (kâ'- $\lim_{n \to \infty} u$. [Also caulin; $\langle L$. caulis, a stalk, cabbage, + -inc².] The coloring matter of red cabbage. It is largely used in the coloring of bogus wines.

caulkage, n. See *calkage. caulobulb (kā 'lō-bulb), n. [L. caulis, Gr. Gr. $\kappa a v / \delta \varsigma$, stem. + L. bulbus, bulb.] The bulbous base of stem.

caulomic (kâlō'mik), [cautome -ic.] Of or pertaining to a caulome.

causa (kâ'zại), n. [L.]

causans, a causing cause, that is, a primary cause; the first cause.—Causa causing cause, that is, a primary cause; the first cause.—Causa causata, a caused cause, that is, a secondary cause; an effect which has in turn become a cause.—Causa sui, literally, the cause of itself; in the philosophy of spinoza, that whose essence involves existence.—Honoris causa, for the sake of honor; in order to honor; out of respect; as, a university degree conferred honoris causa.—Vera causa, a true or real cause.

Causability (kàz-a-bil'i-ti) — Turn

causability (kaz-a-bil'i-ti), n. The capability of being caused.

Causal conjunction, in gram., a coordinate conjunction that implies cause, such as for, because, since, therefore, etc.—Causal sequence, the succession of events in the order of causation.—Causal treatment. See ★treatment.

cause, n.—Accidental cause, in med., a cause of disease which acts only occasionally and which does not always then give rise to the same morbid condition.—Cause of itself. See *cansa sui.—Centrifugal cause, in biol., the interaction between a cell and the other cells of the body, considered as a cause of its development. Hertwig, who holds that all the cells of the body of a multicellular organism are identical, attributes the specialization and differentiation of a cell during development in part to centrifugal causes, or the interaction between it and its fellow cells, and in part to centrifugal causes, or the interaction between it and the external environment.—Centripetal cause, in biol., the external environment of a cell, or of an organism, considered as a cause of its development. See centrifugal *cause.—Short cause, in law, a cause which may be advanced for hearing by either party, under a rule of the court allowing such advancement upon proof that the trial will not occupy more time than that specified in the rule.—Testamentary cause, in law, a cause within the jurisdiction of a probate court. It relates to the probate of wills, the granting of administration, and generally to any proceedings necessary to the settlement and distribution of the estate of a decedent.—Title of a cause. See *title.

caudolateral (kå-dō-lat'e-ral), a. Behind and toward the side of the body.

cauliculus, n. 3. In insect anat., the larger of the two elements of the double stalk of the double stalk of the sion and criticism, such as the Causcries du lundi ("Monday Chats") of the French critic and essayist Sainte-Beuve (1804-69). Sainte-Beure in the Century Cyclopedia of Names.

caulifloria (kâ-li-flō'ri-ä), n. Same as *cauliflory.

cauliflorous (kâ-li-flō'rus), a. [NL. *eauliflorus, ⟨ L. caulis. stalk, + flos (flor-), a flower:
see flower.] Bearing flowers on trunk or
branches. See *cauliflory.

"cauliflory (kâ'li-flō-ri). n. [NL. *caulifloria, ⟨
"cauliflory (kâ'li-flō-ri). a. [NL. *caulifloria, ⟨

II. n.—Canquoin's canstic. Same as Canquoin's paste.—Cream caustic, a particular grade of caustic soda, made by the Leblanc process, of a finit yellowish tinge and usually containing from 60 to 70 per cent. of real sodium hydroxid.—Mitigated caustic, nitrate of silver which has been fused with an equal amount of nitrate of potassium in order to lessen the caustic effect.

causticize (kâs'ti-sîz), v. t.; pret. and pp. Causticized, ppr. causticizing. [caustic + -ize.]
Same as caustify. G. Lunge, Sulphuric Acid
and Allied Industries, II. 465. causticly (kâs'tik-li). adv. Like eaustic; in cavernous, a. 3. In petrog., porous or vesicuthe manner of caustic.

cauterant, n. II. a. Having a caustie or cauterizing action.

cautery, n.—Solar cautery, a lens for concentrating the heat-rays of the sun and directing them upon any part where a cauterizing effect is to be produced.—Virtual cautery, cautery by means of a caustic substance, as distinguished from actual cautery. Also potential cautery.

cautery-knife (kâ'têr-i-nīf), n. A knife the blade of which is connected with an electric battery, so that it can be made incandescent and thus sear the tissues, preventing bleeding while cutting.

Cautionary signal. See *signal.

Cautivos, n. pl. [Sp., pl. of cautivo, \langle L. eaptivus, captive.] 1. The name of an order (Orden de la Merced) established in Barcelona, Spain, by Sau Pedro Nolasco (1189-1256) for the purpose of liberating the Christian captives from the Saracens. It was confirmed by Pope Gregory IX. (1230).—2. The name given to a fund established at a later date among Spanish Jews, having for its object the ransom of their brethren captured by Mohammedan pirates under Barbarossa.

Cav. An abbreviation of cavalry.

cavaletta (kav-a-let'ä), n. Same as cabaletta. cavalla (kä-väl'yä), n. [Cf. cavally.] A scombroid fish, Scomberomorus cavalla, found section from the stress of the stress of the stress of the American South Atlantic coasts, and ranges southward to Africa and Brazil.

Cavalry bone. See *bone1.

cavate (kā'vāt), a. [L. eavatus, pp.: see caratte, v.] That has been made hollow; hollowed;

hollow; produced by excavation. The term has been applied somewhat specifically to a class of prehistoric habitations, in the southwestern parts of the United States, consisting of an artificial cave dug into the face of a cliff, the entrance often closed with masonry, but the side-walls, rear wall, and roof formed of the natural rock.

cavation, n. 2. (b) In modern fencing, also a side blow, delivered after quitting the oppoent's blade, carrying the guard to left or right in an effort to reach around his position. The move exposes the fencer dangerously, and should be employed only with careless oppopents.

cavel, n. 7. A cave-in.—Cave period. See *period.—Trophonian cave. See *Trophonian. cave-beetle (kāv' bē"tl), n. One of the blind

or partly blind beetles which live in caves.

Many of them belong to the silphid genera Bathyscia and Adelops and to the carabid genus Anophthalmus.

cave canem (kā'vē kā'nem). [L.] Beware of the dog! A warning frequently inscribed at the entrances of Roman houses, as in the

at the entrances of Roman noises, as in the Casa del Poeta Tragico in Pompeii.

cave-drawing (kāv'drā'ng), n. One of the specimens of rude pictorial art which have been found in caves in different parts of the world. They are supposed to be the work of the pre-historic cave-dwellers; some of those found in France are thought to have been preglacial.

cave-dwelling (kav'dwel"ing), n. 1. A cave used as a dwelling by primitive, prehistoric, and recent tribes.—2. In Colorado and the adjoining region, a cliff-dwelling.

cave earth (kav erth), n. In gool, the earthy deposit on the floor of a cave, including traces and remains of animals which have made it a shelter or a home. The use of such natural retreats by primitive man has led to numerous

That position in care-earth under thick stalagmite beds does not of itself alone necessarily imply great age. Keane, Ethnology, p. 76.

cave-hunter (kāv'hun"ter), n. A student of prehistoric archeology who pays special attention to the remains of the cavemen and makes tion to the remains of the cavemen and makes to the cayenne (kī-en'), v. t.; pret. and pp. cayenned, ppr. cayenning. To season with Cayenne

It is more than probable that they offer as wide a field for the research of the *cove-hunter* as caves do in any other country, and from them a rich harvest of facts relating to prehistoric times has yet to be reaped.

Keane, Ethnology**, p. 94.

cave-in (kāv'in), n. A caving in of the roof strata of a mine, or of the sides of a shaft or pit, sometimes extending to the surface. Also cave.

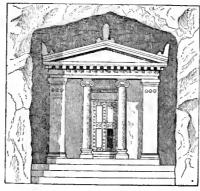
If inspection of the vault roof reveals displacements

Cavern period. Same as cave *period.

lar: applied to rocks some of whose minerals have been removed by solution. Geikie, Textbook of Geol., p. 133.—Cavernous angioma. See *angioma.—Cavernous voice, in auscultation, a hollow sound heard when the patient speaks, indicative of a cavity in the lung substance or of a dilated bronchus.

cavernously (kav'er-nus-li), a. In a cavernous manner.

cavernulated (ka-vėr'nū-lā-ted), a. [cavernule + -ate¹ + -ed².] Formed with cavernules or minute cavities: as, a cavernulated structure. cave-tomb (kāv'tom), n. A tomb cut directly



Lycian Cave-tomb.

ruins of many early eivilizations, the Mycenæan in Greece, the Egyptian, and the Indian. The cave-tombs in the hills of Asia Minor are especially interesting.

Cavitary myelitis. See *myelitis. College.

cavitate (kav'i-tāt), v. i.; pret. and pp. cavicavitate (kav'i-tāt), v. i.; pret. and pp. cavicate (c. c. m. tated, ppr. cavitating. [cavity + -ate².] To form tholes or eavities within an agitated liquid; cedure. holes or eavities within an agitated liquid; cedure. react upon the water with *cavitation (which C. Cr. P.

see): said of a screw propeller.

cavitation (kav-i-tā'shon), n. [cavitale +
ion.] The formation of holes or cavities within an agitated liquid. Cavitation results from violent motion which breaks up the liquid into independently moving masses, each with its surface of separation, as when water is churned by the serve of a steam-vessel. The phenomenon is specially noticeable in the high-speed propellers of torpedo-boats and turbine-propelled vessels.

The devisiting card is a substruction of the content of the Distinguished Service Order.

C. d. v. An abbreviation of the French carte de visiting-card).

The name cavitation is given to the phenomenon met ith when a screw is driven in water at speeds above a crtain limiting value.

Nature, Nov. 6, 1902, p. 24. with when a serew is d certain limiting value.

cavity, n. 3. In hort. See *basin, 12.—Atrial cavity. Same as *peribranchial cavity.—Cavity tone. See *tone1.—Neural, peribranchial, peripodal, pulmonary, subgerminal cavity. See *neural, etc.

cavity, n. 3. In hort. See $\star basin$, 12.—Atrial cavity. Same as $\star peribranchial$ cavity.—Cavity tone, see $\star tone1$.—Neural, peribranchial, peripodal, pulmonary, subgerminal cavity. See $\star neural$, etc.

Cavoscope (kav' \tilde{o} -sk \tilde{o} p), n. [Improp. cavascope, $\langle L. eavus$, bollow, + Gr. $\kappa \sigma \tilde{o} r \tilde{o}$ facilitate its examination.

this is modernized Carton type.

Caxtonian (kaks-tō'ni-an), a. and n. I. a. Of or pertaining to William Caxton, the printer (1422-91).

II. n. An admirer of Caxton, his books, devices, or methods.

retreats by primitive man has led to numerous **Cay-cay butter**. See *butter¹. discoveries of human remains in these deposits. **cayenne** (kī-en'), n. 1. Same as **Cayenne** pepper. That position in cave-earth under thick stalagmite beds does not of itself alone necessarily imply great age.

**Reque: Ethnology n. 76. the suits, but not as a trump.—Cayenne cherry. Same as Surinam *cherry (b).—Cayenne whist. See *whist2.

Cayleyan, n. II. a. Of or pertaining to Arthur Cayley, an English mathematician (1821-95).

2. cayman, n. A gobioid fish, Dormitator naculatus, found in great abundance on both coasts of America. It lives in fresh and brackish water, ranges from South Carolina, through the West Indies, to Pará, Cape San Lucas and Panama, and is much used for food. See sleeper1, 8 (c).

In inspection of the vault roof reveals displacements and fissures therein, the only thing to be done is to done it of done is to done it of such as the chamber, which will thus become unworkable because cayolac (ki'ō-lak), n. [Sp.] Same as cay. cayolac (ki'ō-lak), n. [Malay kāyu, wood, + lāka, the name in western Java for the tree have many chances of extending to the surface and of involving the ruin of the entire work as well as that of the hoisting machines installed above on the surface.

Sci. Amer. Sup. Dec. 6, 1902, p. 22512.

Sci. Amer. Sup. Dec. 6, 1902, p. 22512. Myristica incrs.] A fine red wood, especially cecily, n. Same as cicely. the aromatic heart-wood, of Myristica incrs. a cecomorphous (sē-kō-môr'fus), a. Same as tree of the Dutch East Indies: used as incense. Cayugan (kā-yū'gan), a. and n. In geol., noting Cecropia chalcis-fly. See *chalcis-fly.

a period or group of New York formations which includes the Salina beds at the bottom, the Cobleskill limestone, Rondont water-lime, and the Manlius limestone, and constitutes the uppermost division of the Ontaric or Upper Silurian.

cazadores (kä-thä-dō'res), n. pl. cazador, hunter.] Certain nomadic ants of Peru. They lead a nomadic life, entering the houses of the natives in immense armies, killing rats, mice, snakes, and all sorts of vermin, playing the part of scavengers, and passing on, when the dispossessed natives return. The Atlantic, Feb., 1892, p. 179.

in the solid rock. Such tombs are abundant in the conference of Chief Baron (of the Exchequer) (see baron, 2); (d) of the Latin Chirurgia Baccalaureus, Bachelor of Surgery: a degree conferred by certain institutions at the end of the third year of a four years' course for the degree of M. D.; (e) of Common Bench; (f) Milit., of confined to barraeks.

C. B. S. An abbreviation of Confraternity of

the Blessed Sacrament.

the Bicssea Sacrament.

C. C. An abbreviation (b) of Caius College; (c) of Catholic clergyman; (d) of cepi corpus; (e) of Chancery cases; (f) of Circuit Court; (g) of City Court; (h) of Civil Code; (i) of Civil Court; (j) of consular clerk; (k) of contra credit; (l) of county clerk; (m) of county councilor; (n) in ceram, of cream colored; (o) of cilor; (n) in ceram., of cream-colored; (o) of Cricket Club; (p) of crown cases; (q) of crown clerk; (r) in Freemasonry, of Celestial Canopy. c. c. An abbreviation (a) of the French compte courante (account current); (b) of cubic centi-

C. C. A. An abbreviation of Chief Clerk of the

An abbreviation of Cornus Christi

An abbreviation of Code of Civil Pro-An abbreviation of Code of Criminal

Procedure. C. C. S. An abbreviation for Ceylon Civil Ser-

An abbreviation (b) of Canada East. ceanothine (se-a-no'thin), n. [Ceanoth-us + -ine².] A difficultly crystallizable alkaloid contained in redroot, Ceanothus Americanus.

facilitate its examination.

cawdyt (kâ'di), n. An obsolete form of caddie.

Caxton, n. 2. A printing-type of Flemish design used by William Caxton in 1477.

Cebidæ, which includes the larger species of America; cebian: contrasted with *pithecine.

cebocephalic (sē"bō-se-fal'ik or -sef'a-lik), a.

[Gr. $\kappa\bar{\eta}\beta o c$, monkey, $+ \kappa\epsilon\phi a \lambda \dot{\eta}$, head.] "Having an ape-like head.

ceboid (sē'boid), a. [Gr. κηβος, monkey, -oid.] Resembling or pertaining to the Ccbidæ: as, a ccboid type of dentition: correlative with lemuroid and pithecoid. cecidia, n. Plural of *cecidium.

cecidiological (se-sid-i-ō-loj'i-kal), a. Of or

pertaining to cecidiology.
cecidiologist (se-sid-i-ol'ō-jist), n. A student

ceciniologis (se-sid-io-), and gall-insects. cecidiology (se-sid-i-ol' $\tilde{0}$ -ji), n. [Gr. $\kappa \eta \kappa l \phi$ ($\kappa \eta \kappa l \phi$ -), a gallnut, + - $\lambda o \gamma l a$, $\langle \lambda \ell \gamma \epsilon u v$, speak.] The scientific study of galls and gall-insects.

The scientific study of galls and gall-insects. **cecidium** (s\vec{e}\vec{-}\sid('i-\text{um}), n.; pl. cecidia (-\vec{s}\). [NL., \langle Gr. $\kappa\eta\kappa(idvov$ (found only in sense of 'ink from galls'), dim. of $\kappa\eta\kappa(ic)$ ($\kappa\eta\kappa(id)$ -), a gallnut, a dyo made therefrom, orig. anything that oozes forth; cf. $\kappa\eta\kappa(iv)$, gush, bubble, or ooze forth.] An abnormal growth in a plant caused by gall-making insects, mites, and funcii a call of a gallonia. fungi; a gall; a gallnut.

A great variety of deformations and growths produced by insects and mites as well as by fungi have been described.... The whole are now included under the term Cecidia; a prefix gives the name of the organism to which the attacks are due, e. g., Phytoptoeccidia are the galls formed by the Phytoptid mites.

Encyc. Brit., XXIX. 499.

cecidomyiid, n. II. a. Of or belonging to the dipterous family Cecidomyiidæ.

cecomorphic.

cedar, n.—Alaska cedar, the yellow cedar, Chamæcyparis Nookatensis. See yellow cypress under yellow.
—Brazilian cedar, a tall tree, Cedrela jissilis, of southern Brazil and Argentina. It yields a valuable timber of
used for building purposes, furniture, eabinct-work, and
interior decoration.—Brown cedar, a small tree of the
borage family, Ehretia acaminata, of eastern Anstralia. It yields a light-hrown coarse-grained wood which resembles that of the elm.—Cedar brakes, cedar glades, a
type of forest in Tennessee and Alsbama found on dry
limestone uplands. It consists of a dense, almost unmixed growth of red eedar (Juniperus Virginiana). C.
Mahr.—Cedar hammock. See *hammock2.—Chilean
cedar, a valuable timber-tree, Fitzyop Patagonica, of
the pine family, native in the island of Chiloe.—Cigarbox cedar, the Spanish cedar, Cedrela odarata. See
Cedrela.—Cypress cedar. Same as New Zealand
*cedar.—Ground cedar, the common juniper, Juniperus communis.—Japan cedar, Cryptomeria Japonica,
a graceful tree, of large size, a native of China and Japan,
where it is planted as an ornamental tree and also for
reforesting mountains and treeless areas. It is much
planted in Enrope and America in parks and lawns, and
la hardy as far north as New York. The wood resembles
that of the white pinc, but takes a fine polish. See
*Cryptomeria.—Moulmein cedar, a commercial name (
for the timber of the toon, Toona Toona. See tonis, (
cedar, 3, and East Indian mahogany, under mahogany.
—New Zealand cedar, Libocedrus Doniana, a fine timber-tree from 60 to 100 feet high, yielding a heavy, finegrained, useful wood. The name is sometimes applied to
another species. L. Bidwillit, which yielding a heavy, finegrained, useful wood. The name is sometimes applied to
another species. L. Bidwillit, which yielding a heavy, finegrained, useful wood. The name is sometimes applied to
another species. L. Bidwillit, which yielding a heavy, finegrained, useful wood. The name is sometimes applied to
another species. L. Bidwillit, which yieldi

pay at a specified time or on demand. (2) The notice or summons fixed to the door of a fugitive criminal requiring his appearance be-

fore the court.

cee (sē), n. 1. The name of the third letter of the alphabet, C, c. Also ce.—2. An old name in the English universities for a certain quantity of beer (probably an abbreviation of the

Latin cerevisia. beer): as, to eat cues and drink cees. See cue², 2 (b).

cefalic, a. A simplified spelling of cephalic.

cefalo (sef'a-lō), n. [Sp. cefalo (NL. cephalus (Gr. κτφαλή, hcad.] The common mullet, Mugil cephalus.

cefalopod, n. A simplified spelling of cephalo-

ceile (kyā'le), n. [Ir.; OIr. cēle.] In the ancient organization of Irish society, a free tribesman who became a vassal.

It is by taking stock that the free Irish tribesman becomes the Ceile or Kyle, the vassal or man of his chief, owing him not only rent hut service and homage.

Maine, Early Hist, of Institutions, p. 158.

ceiling, n.— Metallic ceiling, an ornamental fire-proof ceiling made of embossed and stamped sheets of metal used in place of lath and plaster.

ceiling-plate (sē'ling-plāt), n. A protective ring placed round a steam-pipe at the point where it passes through the ceiling. It is made in various ornamental forms. A plate used for the same purpose where a steam-pipe passes through a floor is a floor-plate.

ceja (tha'ha), n. [Sp., lit. 'eyebrow,' < L. cilium, pl. cilia, eyebrow: see cilium.] In phys. geog., the brow or cliffed margin of a mesa or up-laud. [Southwestern U. S.]

land. [Southwestern U. S.]

cel, n. and v. A simplified spelling of cell.

Cel., Cels. Abbreviations of Celsius.

Celadon de cuivre, a pale sea-green color in the glaze of Chinese stoneware or hard-paste porcelain, replacing the red or eopper-green color intended. It is caused by imperfect oxidization in the firing.—Celadon fleuré, a variety of Chinese stoneware or coarse porcelain with relife decoration of flowers, geometric figures, etc., covered with a celadon or sea-green glaze. Designs are frequently engraved in the paste and filled in with a paste of a different tone.

celadonite (sel'a-don-it), n. [celadon + -ite².]

A green earthy silicate of iron, magnesium, and potassium, first described from cavities in

and potassium, first described from cavities in amygdaloid near Verona: hence called green carth of Verona.

celandine, n.—Brook celandine, the jewel-weed, Impatiens biflora.—Wild celandine, the pale touch-menot, Impatiens aurea.

Celestine, n. 4. [l. c.] In mineral., same as celestite.—Celestine blue. See *hlue.

Celiac artery. Same as celiac axis (which see, under

celastrineous (sel-as-trin'é-us), a. Same as celastraceous.

celation (sǫ-la'shon), n. [NL. *celatio(n-), < semitumar gangtion (which see, under gangtion).

L. celare, conceal, hide.] In med. juris., the eoneealing of pregnancy or delivery of a child. celative (sel'a-tiv), a. [NL. *celativus, < L. celiotomy (se-li-ot'o-mi), n. [Gr. κοινια, a cavity, + -τομία, < ταμείν, cut.] Same as laparotomy. the concealment of an organism from enemies or from its prey. celebe, n. See kelcbe.

Celebesian (sel-e-bēz'i-an), a. [Celebes + -ian.] Of or pertaining to Celebes; specifically, noting a zoögeographical subregion proposed by Sclater to include only the island of

[celebrate+ celebrative (sel'ē-brā-tiv), a. Serving to celebrate

-we.] Serving to celebrate.

celelminth, n. See cælelminth.

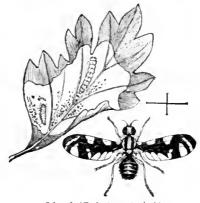
celery, n.—Wild celery. (a) Alexanders, Smyrnium

Olusutrum. (b) See l'allisnera. (c) On the Pacific coast,
an aquatie umbelliferous plant, Ænanthe sarmentosa, the
stems of which have the taste of celery and were eaten
by the Indians. The poisonous Oregon water-hemlock
is said to be sometimes mistaken for this.

celery-caterpillar (sel'e-ri-kat*er-pil-är), n.
The larva of an American papilionid butterfly,
Pamilio nolurenes. Also called nursleu-worm.

Papilio polyzenes. Also called parsley-worm. celery-cutter (sel'e-ri-kut'er), n. A knife for cutting the stalks of celery. It has a long handle and a blade placed at the end at right angles to it.

celery-fly (sel'e-ri-fli"), n. A European trypetid fly, Tephritis onoperdinis, whose larvæ mine



Celery fly (Tephritis onoperdinis). Adult, enlarged; larvæ and method of work, natural size. (After Curtis.)

the leaves of celery and the parsnip.

called parsnip-fly.

celery-hiller (sel'e-ri-hil"er), n. In agri., a
double-shovel plow used to lift the earth between two rows of celery and throw and pack

it against the plants on each side.

celery-looper (sel'e-ri-lö"pėr), n. The larva
of an American noctuid moth, Autographa
simplex, which is widely distributed throughout the United States.

the United States.

celesta (sē-les'tā), n. [Irreg. Latinized from F. celeste, < L. cælestis, heavenly.] A musical instrument, played from a keyboard of five octaves, in which the sound is produced by the blows of hammers upon steel plates placed over resonators of wood. It was invented by Martel of Poris in 1986 and heaven in the Mustel of Paris in 1886, and has been introduced into some orchestral and operatic scores. celeste (se-lest'), n. [F. céleste, heavenly: sec celest.] 1. In organ-building, same as rox angel-See vox. - 2. In pianoforte-making, a variety of soft pedal.

celestial, a.—Apparent celestial latitude. See $\star latitude$.—Celestial mechanics, sphere. See $\star mechanics$, $\star sphere$.

Celestialism (sē-les'tial-izm), n. [Celestial + -ism.] The characteristics of 'Celestial' or Chinese life.

celestialite (sē-les'ţial-īt), n. [celestial + -ite2.] A supposed sulphohydrocarbon obtained from rome meteoric irons, as those from Sevier, Tennessee, and Alais, France.

celestiality (se-les-ti-al'i-ti), n. [celestial + -ity.] 1. Heavenly quality: heavenliness.

Show me, apart from song-flash and wit-flame, A mere man's band ignobly elenched against Yon supreme calmiess.

Browning, Arlstoph. Apol., Works, V. 136.

2. [cap.] A Chinese dignitary; a dignitary of China, the 'Celestial Empire.' [Humorous.]

celestite, n. 4. [1. c.] In another, same as celestite.—Celestine blue. See ★blue.
Cellac artery. Same as celiac axis (which see, under axis).—Celiac flux, diarrhea with the discharge of undigested food and chyle.—Celiac ganglion. Same as semilunar ganglion (which see, under ganglion).

A celibate or one who favors celibacy. celiotomy (se-li-ot'ō-mi), n. [Gr. κοιλια, a cavity, + -τομία, < ταμείν, cut.] Same as laparot-

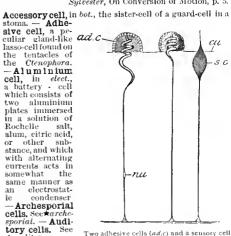
cell, n. 11. One of the water-tight compartments into which the space between the inner and outer shells of a war-vessel, or other metal ship, is divided.—12. In archæol., the inner chamber of megalithic structures, which consists of a space walled by large stones and covered with a slab.—13. In spectroscopy, a small glass vessel with parallel sides designed to hold liquids for examination by transmitted light .-14. In kinematics, a symmetrical combination of an even number of links.

A very good idea of the form and operation of a negative cell may be gained by putting together the fore-fingers and ring-fingers of the two hands, and placing one middle finger a little over the other so as to keep all six fingers in the same plane.

Sylvester, On Conversion of Motion, p. 5.

the tentacles of the Ctenophora.
—AlumInlum cell, in etect, a battery - cell which consists of two aluminium plates immersed in a solution of Rochelle salt, alum, citric acid, or other substance, and which with alternating currents acts in eurrents acts in somewhat the same manner as an electrostatcondenser

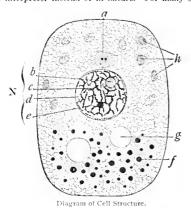
e condenser
— Archesporial
cells, See***archesporial. — Auditory cells. See
**anditory. — Auxiliary cell, a specialized cell in certain of the red algre, with



Two adhesive cells (ad.c) and a sensory cell (s.c) from one of the branches of a tentacle of Hormphora plumesa, highly magnified; en, cuticle; nn, nucleus. (From Parker and Haswell's "Zoology," after Hertwig and Chun.)

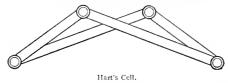
**Auxiliary cell, factoring the continuation of the branches of a tentacle of a specialized cell in certain of the rectain of the rectain of the red algre, with which the obblastem filament unites, earpospores being formed as a result of this conjugation. ─Axial cell. See ★axial. ─Bast-cells. See bastl, 2. ─Calcigerous cells. See ★calcigerous. ─Canal cell, in bot., one of the cells of the axial row in the nuck of the archigonium, which, by the disappearance of the septa, ultimately form a canal for the passage of the antherozoids. ─Cap-cell, in bot., one of the upper sister-cells of the embryo-sac in the ovule, which for a time form a cap on its apex. ─Cell-complex. See ★complex, n. ─Cell doctrine. Same as ★cell theory. ─Cells of Cort., hair-cells on the organ of Cort (which see, under organ!). ─Cell theory. Progress in our knowledge of eytology, embryology, and general biology has led to a revision of the cell theory and to a distinction between two classes of opinions in regard to the relation between the constituent cells of the body of a multicellular organism and its structure and activity considered as a whole: (a) According to one view, which is sometimes called the cell standpoint, construction ont of cells is the primary, fundamental, essential characteristic of the multicellular organism, and its unity or individuality is a secondary, dependent, incidental characteristic. The cells are regarded as the mits of construction and of physiological activity, while the unity and individuality of the whole are features that have been added. The advocates of this conception in its extreme form regard the multicellular organism as a community or aggregation of unicellular organism as a community or aggregation of valuellular organism as a community or aggregation of valuellular organism as a community or playlogenetically the unified and differentiated descendant of some remotely ancestral aggregation of unspecialized embryonic cells; as structurally or morphologically a compound of morphologically and organis

and increasing complexity of a unicellular ancestor which gradually became multicellular in adaptation to its increasing size and complexity. The unity of the egg is regarded as the same as that of the adult and as regulating instead of being controlled by cell-division, which makes no change in the grade of its individuality. Physiologically it is regarded as a coordinated whole, not as an aggregation of cells. (c) While there is much to be said in support of each of these opinions, there are grave objections to the acceptance of either of them without compromises with the other, and there is a third view which regards the distinction between the cell standpoint and the organism standpoint as dependent upon the purpose the organism standpoint as dependent upon the purpose for which the comparison is made, and as in the mind of the interpreter instead of in nature. For many of the



a, attraction-sphere inclosing two centrosomes; N, nucleus: (b, plasmosome or true nucleolus; c, chromatin-network; d, linin-network; c, karyosome, netknot, or chromatin nucleolus;), passive bodies (metaplasm or paraplasm) suspended in the cytoplasmic meshwork; g, vacuole: h, plastids lying in the cytoplasm. The network of dotted lines represents the cytoreticulum emeshing the more fluid ground substance or cytoplasm. (From Wilson's "The Cell.")

purposes of the histologist, the pathologist, the embryologist, and the physiologist the multicellular organism is best considered as a cell-community, while for other purposes it is best considered as a cell-community, while for other purposes it is best considered as a unit or coördinated whole. From the morphological standpoint the cell may properly be regarded apart from the organism, as an individual, but it is not to be forgotten that it is by obstraction that this is done. Physiologically the cell is an individual only when actually isolated and independent of an organism. From this point of view every abstraction is a blunder.—Columnar cell, in histol., an epithelial cell which is higher than broad.—Companion cell, in bot., a cell which accompanies another cell and is cut off from it, such as the cells in plants which lie in contact with the segments of the sieve-tubes and communicate with these by means of delicate protoplasmic strands.—Conducting cells, in bot., long, narrow cells with perforated walls, associated with sieve-tubes.—Contractile cell, in sponges. Same as anyweyte.—Cuboid cell, in histol., an epithelial cell in which the vertical and transverse diameters are caual: distinguished from columnar and pavement *cells.—Digestive cells, in *Hydromeduse*, certain large cells of the endodermal epithelium, in the protoplasm of which particles of food and masses of exerctory matter are sometimes found. They are often ameboid at the outer or free end and contain vaccoles filed with an albuminous fluid.—Dry cell, in elect., a voltaic cell for open-circuit work the electrolyte of which is entirely contained within the interstices of some mert prorous substance such as plaster of Paris, there being no free mass of liquid.—Emigrated cell, a leucocyte which has passed through the wall of a hilod-vessel into the surrounding tissue.—Endothelial cell. See epithe-lium.—Ethimoidal cells, the cavities, lined with mucous membrane, in the ethmoid bone.—False cell, in enton, the posting a carglion; cells which n



tremities, the alternate sides of which are equal.—Interstitial cell, specifically, one of the small rounded cells which occur in the ectoderm of hydroid polyps and give rise, in some cases, to the nematocysts.—Jacques cell, a battery-cell which consists of earbon, fused sodium hydrate, and iron; supposed to act as an oxygen-hydrogen gas cell.—Mounted Peancellier cell, a linkwork which consists of a Peancellier linkage, the extra link of which pivots a third vertex of the rhombus to a fixed point. See Peancellier cell, under redl.—Parietal cells. See oxyntic cells (under oxyntic) and *delomorphic.—Parement cells (under oxyntic) and *delomorphic.—Parement cells, the flattened polygonal cells composing pavenent cells, in insect anat., any one of a row of cells which are arranged along the heart on both sides and whose function is supposed to be the purification of the blood. A. S. Packard, Text-book of Entom., p. 405.—Polarization cell-nesting (sel'nes*ting), n. The formation

cell, in elect., an electrolytic cell, or any cell containing liquid and developing polarization of the electrodes when traversed by an electric current.—Polyhedral cell, in histol., any cell of polyhedral shape, as distinguished from spherical or spheroidal cells.—Proteid cell, in hot., a parenchyma cell with abundant proteid contents, such as the cells connected with the sieve-tubes in plants.—Provost cell, in the Pritish service, a prison for military prisoners guilty of minor offenses.—Psychle cells, the cells in the cortex of the brain upon whose functional activity the mental processes are believed to depend.—Pyramidal cell, in neurol., one of the large multipolar neurons or gauglion-cells in the cortex of higher vertebrates.—Round cell, in histol. any spherical or spheroidal cell.—Royal cell, a cell in which a young queen-hee is reared; a queen-tell.—Ruhmer cell, an exhansted glass hulb containing two conductors separated by a film of selenium which under the influence of light increases in electric conductivity, and so can be used for signaling by light rays.—Scavenger cells, lymph-cells in nervous tissue. They are supposed to remove waste material.—Schwann cell, in neurol. and histol., one of the cells composing the 'sheath of Schwann,' a delicate envelop inclosing the axis-cylinder or neuraxon of certain nerve-cells in vertebrate animals.—Sensory cells, nerve-cells found in the peripheral sense-organs.—Somatic cell. See **sumatic.—Skellate-cell, a cell with a star-shaped body or cytoplasm: a common name for mesenchyme cells in or neuroglia cells, etc.—Supporting cells, Deiters's cells in the organ of Corti.—Sustentacular cells fain or neuroglia cells, etc.—Supporting cells, Deiters's cells in the organ of Corti.—Sustentacular cells in cell supported so as to rock to and fro periodically, by means of the flow of the mercury, which forms one of the electrodes, an interrupted or internitted electrolytic action is thus produced.—Transition cell, in insects, one of the cells which represent the transition

cellared (sel'ard), p. a. 1. Kept in a eellar.

The greater part of the cellared fish are exported.
C. A. Johns, Week at Lizard, p. 54. N. E. D.

2. Housed in a cellar.

Cellared wretchedness and disease.
I. Taylor, Restoration in Belief, p. 298. N. E. D. cellate (sel'āt), a, and n. [NL. cellatus, \langle cella,

eell.] I. a. Having eells. II. n. A cellate structure. See quotation.

We have already found that the earth has a cellate structure, in the air, the sea, the land, and the nucleus; the elements of this structure we have called spheres or cell-ates. We call the structural elements of the cell, the seed and the plant, blasts or cellates.

Powell Truth and Error p. 140. Powell, Truth and Error, p. 140.

cellated (sel'ā-ted), a. [$ecllate + -ed^2$.] Same

cell-division (sel'dı-vizh "on), n. The division cell-division (sel'dı-vizh"on), n. The division of a cell, especially in the process of growth.

—Differential cell-division, division of cells into daughter-cells which are different from one another in their hereditary tendencies; *heterokinesis (which see).

—Direct cell-division, in cytol., division of the cell without karyokinetic figures. Same as *akinesis, *nonitosis, and *karyokenosis.—Qualitative cell-division, *heterokinesis (which see).—Quantitative cell-division, that in which the daughter-cells do not differ in quality from the mother-cell; homeokinesis.

cellepore (sel'e-por), n. [NL. cellepara.] One of the Celleporidæ.

celleporite (se-lep'o-rit), n. [cellepore + -ite2.]

Same as *celleporc.

cell-formation (sel-fôr-mā'shon), n. Same as

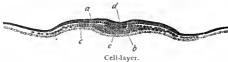
cellicolous (se-lik'ō-lus), a. [L. cella, cell, +

collete, dwell.] Living in cells.

cellifugal (se-lif'\(\psi\)-gal), a. [L. cella, cell, +
fugere, flee.] In neurol., moving away from
the body of a cell along one or more of its processes: said of the nerve-currents in a ganglion-cell.

cellipetal (se-lip'e-tal), a. [L. cella, eell, + petere, seek.] In neurol., moving toward the body of a cell along one or more of its proeesses: said of the nerve-currents in a ganglion-eell.

cell-layer (sel'lā"er), n. In embryol., a layer of cells; specifically, the same as germ-layer, or one of the embryonic layers of cells—ecto-



of epithelial pearls. Buck, Med. Handbook,

cellobiose (sel-\(\bar{0}\)-\(\bar{0}'\)\(\bar{0}\)s), n. \[cell(ulose) + biosc.\] A biose, $C_{12}H_{22}O_{11}$, obtained from cellulose by the action of acetic anhydrid and sulphuric acid and subsequent saponification. When heated, it decomposes at 225° C. It reduces Fehling's solution, is dextrorotatory, and gives glueose on hydrolysis.

celloid (sel'oid), a. [L. cella, cell, + Gr. είδος, form.] Cell-like; cellular. celloidal (se-loi'dal), a. Same as *celloid. celloidin (sel'oi-din), n. [celloid + -ιn².] A pure form of pyroxylin (guncotton). Dissolved in ether and absolute aleohol in varying proportions, it is extensively used in the histological laboratory for the purpose of embedding tissnes for sectioning.

celloxin (sel'ok-sin), n. [cell(ulose) + ax(ygen) + $-in^2$.] A compound, $C_6H_{10}O_6$ or $C_6H_8O_6$, supposed to be formed by the oxidation of cellulose with hydrogen peroxid and forming a constituent of oxyeellulose. The latter is sup-posed to consist of one molecule of celloxiu with one to four molecules of cellulose.

cell-plate (sel'plat), n. In cytol., a plate aristoward the close of cell-division, from a thickening of the spindle-fibers in the equatorial or division plane. The eell-plate is well developed in plant eells, but small or vestigial in those of animals. See cut under *dispireme. cell-spot (sel'spot), n. A color-spot within the area of the wing-eells of certain lepidopterons insects.

The black cell-spots on the primaries are considerably larger and the apical area is black with scarcely a trace of metallic scaling. Proc. Zool. Soc. London, 1902, 1. 49.

of metallic scaling. Proc. Zool. Soc. London, 1902, 1, 49.

cellular, a. 2. Filled with eavities, as pnmice.

Geikic, Textbook of Geol., p. 133.—Cellular bottom. Same as double *bottom.—Cellular cancer.

Same as encephaloid cancer.—Cellular cooler, a box which is divided into a series of small cells to increase its radiating surface, so that the material which is to be circulated through it to be cooled will give up its heat quickly. These cells are usually of hexagonal copper pipe through which air is allowed to pass.—Cellular digestion. See *autolysis.—Cellular pathology, the doctrine of Virchow that the cells are the seat or point of origin of all vital processes.—Cellular system. (b) In ship-building, a system of framing, in fron and steel ships, in which the bottom is divided up into a number of water-tight cells or compartments. See double *bottom.—Cellular texture, in petrog., the texture produced in volcanic lavas by gas-bubbles, which may be of various shapes and sizes. When the eavities are comparatively few and small, the texture is called vesicular; when they vary much in size and shape and are about equal in volume to the solid part of the rock, it is *secriaceous*, when they are minute and very abundant, it is *pumiceous*.

cellularity (sel-ū-lar'i-ti), n. [cellular + -ity.]
The state or condition of being composed of

cellulase (sel'ū-lās), n. [cellul(osc²) + -asc.] A ferment which eauses the decomposition of cellulose. Jour. Roy. Micros. Soc., Feb., 1905,

cellulate (sel'ū-lāt), a. Same as cellulated. cellulation (sel- \bar{u} -la'shon), n. [cellulate + -ion.] The development or production of cells. cellulic (sel'ū-lik), a. [cellulc+-ic.] Derived from cells or cellules.—Cellulic acid, an acid of doubful composition, supposed to have been produced by the action of acids or bases on cellulose.

cellulicidal (sel/ū-li-sī'dal), a. [L. cellula, a little cell, + -cīda, < cædere, kill.] In pathol., eell-destroying or -killing: said of substances in the blood-serum or of other substances nox-

ious to living protoplasm.

cellulicolous (sel-ū-lik'ō-lus), a. [L. cellula,
a little cell, + colerc, dwell.] Living in little cells, as the spiders of the group Cellulicolæ.

cellulifugal (sel-ū-lif'ū-gal), n. [L. cellula, eell, + fugere, flee, + -al.] Moving away from the cell.—Cellulifugal current, nervous influence which proceeds from the body of the neuron through the axis-cylinder processes.

cellulifugally (sel-ū-lif'ū-gal-i), adv. In a cellulifugal manner

cellulipetal (sel-ñ-lip'e-tal), a. [L. cellula, eell, + petere, seek, + -al.] Moving toward the cell.—Cellulipetal current, a nerve-current which proceeds toward the body of the neuron.

cellulipetally (sel-ū-lip'e-tal-i), adv. In a cellulipetal manner.

cellulith (sel'ū-lith), n. [L. cellu(la), cellule, + Gr. λίθος, stone.] A material made by continuing the beating of paper pulp, usually wood-pulp, with water until all trace of fibrons structure has disappeared, adding coloring-material if desired, heating, and gradually evaporating the viscid liquid product to dryness. The material has the mechanical character of

horn or ebonite, and may be worked like either of these. It has the advantage, as compared with celluloid, of burning with difficulty.

cellulofibrous (selfū-jō-fi'brus), a. [L. cel-lula, cell. + NL. fibrosus, fibrous.] Same as fibrocellular. Buck, Med. Handbook, II. 106. celluloid² (sel'ū-loid). a. [L. cellula, a cell,

+ Gr. eldos, form.] Having the shape or sendblance of cells.

2. A light material used as a cellulose2, n. packing in coffer-dam compartments of warships in the vicinity of the water-line. In the United States navy, cellulose from the husk of the cocoanut and that from the pith of cornstalks have been used for this purpose. See **coffer-dam, 3.— Cellulose nitrates. Same as nitro-cellulose.— Corn-pith cellulose, the pith of corn-stalks. It swella rapidly in water and is therefore sometimes used at the back of the armor of battle-ships to prevent water from entering through a shot-hole.

cellulosin (sel' \hat{y} -los-in), n. [cellulose $^2 + -in^2$.] A carbohydrate, $C_6H_{10}O_5 + l_{\frac{1}{2}}H_2O$, formed in small amount by the action of the butyric-acid ferment on starch. It is crystalline and will not ferment, but gives glucose on hydrolysis. cellulosity (sel-ū-los'i-ti), n. [NL. *cellulosicellulosity (sel-ū-los'i-ti), n. [NL. *cellulositas, < cellulosus, full of cells: see cellulose1.] The state or property of consisting of cells;

the state of having a cellular structure.

cellulous (sel'ū-lus), a. [NL. cellulosus: see cellulose!.] Consisting of cells; cellulose.
celluvert (sel'ū-vėrt), n. [cellu(lose²) + L. rertere, turn.] A trade-name for a plastie material used for the casters of household furniture

celo (se'lo), n. [L. cel(cr), swift, + -o, after relo.] An acceleration of one foot per second per second. The celo has been proposed as the unit of acceleration in the system of which the foot is the measure of length, and the velo (a velocity of one foot per second) the unit of velocity.

celsianite (sel'si-an-it), n. [Named after Anders Celsian, a Swedish naturalist.] A rare silicate of aluminium and barium, occurring in cleavable masses at the manganese-mines of Jakobsberg, Sweden. It is related to the feldspars.

foldspars.

Celtic architecture, cross. See *architecture, *crossl.

— Celtic ornament, a peculiar style of decoration found in the Irish manuscripts and in the early monumental crosses of Great Britain. Its chief peculiarities are the entire absence of follage or other phyllomorphic ornament, and the extreme intricacy and elaboration of interlacing and geometrical patterns.

Celtindic (selt-in'dik), a. The same as *Indo-Celtin' (critic the elaboration recurrent).

Celtic (with the elements reversed).

Celtologist, Keltologist (sel-, kel-tol'o-jist), n. One who studies the Celtic languages and peoples.

Celtologue, Keltologue (sel'-, kel'tō-log), n. Same as *Celtologist.

Celtomaniac, Keltomaniac (sel-, kel-tō-mâ'ni-ak), n. One who is over-enthusiastic about the Celtic languages and peoples, ascribing to them a disproportionate importance, influence, and antiquity, in disregard of evidence.

Celtophil, Keltophil (sel', kel'tō-fil), n. [L. Celtæ, Celts, + Gr. \$\phi(\text{if})\circ_0\c studies and interests.

Celto-Slavic, Kelto-Slavic (sel-, kel-tō-slav' ik), a. and n. I. a. Of or pertaining to both the Celts and Slavs.

II. n. The type of man inhabiting the re-gion of the Alps and the districts to the east and to the west, which in olden times were inhabited by Slavic and Celtic peoples. Also

called Alpine. See *Alpine, 2. Celto-Teuton, Kelto-Teuton (sel-, kel-tō-tū' ton), n. An individual of mixed Celtic and

Teutonie descent.

cembalo, n.—Cembalo d'amore, a musical instrument of the elavichord species, having unusually long strings that were struck at their middle points, so that both halves vibrated. It was sparingly used in the eighteenth eentury. Not to be confused with the clavicembalo, which was a harpsichord.

which was a harpsichord.

Cement, N.—Beeswax cement, a cement made of 5 parts of beeswax, 8 parts of rosin, and a varying proportion of Venetian red: used for uniting glass to metal, as in chemical apparatus.—Diamond cement, cement used in setting diamonds. That used by American jewlers is composed of gum mastic and isinglass dissolved in spirits of wine. G. W. Cox, Cyc. Com. Things, p. 117.—Keene's cement, a cement made by calcining very pure gypsum, treating with a solution of alum, drying, recalcining at a high temperature, and grinding to a fine powder: used as stucco, and capable of a high polish.—Parian cement, a cement made by a process similar to that for Keene's cement, substituting borax for alum: used as stucco.—Pozzuolana: an early form of hydraulic cement.—Rust cement, a material used for making tight joints in cast-iron construction, as in lines of iron pipe, socketing iron pillars into their bases of the same metal, etc., which consists of

iron turnings moistened with a watery solution of sal ammoniae or with dilute hydrochloric acid, a little sulphur being sometimes added. The turnings rapidly rust and soon set into a compact mass—Silictous cement, a mixture of soluble glass, in syrupy solution, and chalk, marble dust, or other materials.—Slag cement, hydraulic cement made from blast-furnace slag and lime.—Sorel's cement, a builders' cement produced by mixing thoroughly caleined magnesia with a concentrated solution of magnesium chlorid, the mixture soon setting to a hard, solid mass, which may be polished. It consists essentially of magnesium hydroxy-chlorid.—Sorel's magnesia cement, an oxychlorid of magnesium: used as stucco.

cementation, n. 3. In petrog., the cementing of fragments or grains of a porous or incoherent rock by infiltration and deposition of mineral matter from solution. The commonest eementing-materials are earbonates, silica (usually as quartz), and silicates.—4. The solid fixation to extraneous objects by the substance of the shell or test, as in the entire substance of the shell of test, as in the entire class of corals and sporadically in the Bruchi-opoida, Pelecypoida, Vermes, etc. Cementation is the cause of, or is followed by, symmetrical growth accompanied by a high development of loose cellular calcareous tissue. Brachiopoids and pelecypoids thus attached assume an obconical form and often present the aspect and structure of a coral, as they bear similar relations to the surrounding medium. rounding medium.

5. In bot., the growing together of the hyphæ of fungi. Same as concrescence, 4,-6. A process in which two solid substances in contact, upon being heated, pass into and penetrate one another without melting.

cementation-steel (sem-en-tā'shon-stēl), n.

Steel made by the process of cementation.

cement-gland, n. 2. A gland which serves to fasten its possessor to a foreign body. Specifiearly -(a) in platyhelminths, one of the glands whose secretion causes the eggs to adhere to-gether or to a foreign body, or incloses them in a cocoon; (b) in entom., one of a pair of eement-secreting glands occurring in the bees and ants and discharging their secretion through the sting. They correspond to the tubular glands of the Orthoptera.

cement-gold (sē-ment'gold), n. Gold precipitated in fine particles from liquid solution.

cementing-machine (se-men'ting-ma-shen' n. In shoc-manuf., a machine for distributing hot cement upon the soles of shoes, removing the surplus, and pressing the pieces of leather together: a cementer.

cementite (se-ment'ît), n. [coment + -ite2.] All unhardened steels (except a few alloy steels) contain more or less cementite, and all the carbon of unhardened more or less cementare, and an time carroin or immardened steels (omitting certain alloy steels) is present in the form of cementite. Cementite confers strength and hard-ness on steel and lessens its ductility. It is the hardest, strongest, and most brittle of all the constituents of steel now known. It crystallizes in thin white plates and may strongest, and most britate of all the constituents of steep now known. It crystallizes in thin white plates and may be isolated by chemical means or distinguished under the microscope. The name cementite was given to this compound by H. M. Howe, because what used to be called 'cement carbon' or 'carbon of cementation oc-curred in the form of Fe₃C.

cementoblast (sē-men'fô-blast), n. mentum, in NL. cement, + Gr. βλαστός, germ.] In embryol., one of the cells which take part in producing the cement-layer of the developing tooth.

cementoma (sē-men-tō'mā), n.; pl. eemento-mata (-ma-tā). [NL. *eementoma, <eæmentum, cement, + -ama.] A tumor resembling in structure the dental cementum.

cementome (sem'en-tôm), n. [L. cæmentum, in NL cement, + -oma.] In pathol., one of the neoplasms or odontomata derived from the eement-organ of a tooth. Sutton, 1893.

cement-organ (sē-ment'ôr-gan), n. bryot., the mass of cells which gives rise to the cement-layer of the developing tooth.

cement-silver (se-ment'sil"ver), n. Silver precipitated by cementation.

cement-steel (sē-ment'stēl), Same as *cementation-stèel.

Cement-stone group. See Tuedian.

cement-tester (se-ment tes ter), n. A testing-machine especially designed to test samples of cement which have been molded in certain standard molds so as to make a specimen of a definite cross-section. The machine is provided with shackles to grasp the specimen

cen. An abbreviation (a) of central; (b) of

cenacle (sen'a-kl), n. [L. cenaculum, a diningroom, usually in the upper story, hence an upper room; (cena, dinner.] A dining-room; specifically, the room in which the Last Supper was eaten.

cenacolo (che-nä'kō-lō), n. [It., < L. cenacu-lum.] The Italian name for the last supper

of Jesus and his disciples, a favorite subject or desus and his disciples, a favorite subject with painters. Important examples are the pictures by Leonardo da Vinci at the church of Santa Maria delle Grazie in Milan, by Andrea del Sarto at the convent of San Salvi in Florence, and by Tintoretto in the Church of San Giorgio Maggiore in Venice.

Cenangiaceæ (sē-nan-ji-ā'sē-ē), u. pl. [NL., \(Cenangiam* + -aeeæ. \)] A family of discomy-

cetous fungi characterized by dark-colored, leathery ascomata and more or less clongate one-eelled or many-eelled spores.

Cenangium (sē-nan'ji-um), n. [NL. (Fries), ⟨Gr. κενός, empty, + ἀγγείον, vessel.] A large genus of discomycetous fungi, type of the family Cenangiaceae, having the ascomata ses-



a, several plants growing on a dry decorticated branch of the common English elm, Ulmus campesters, showing the liabit; b, spore-cases and paraphyses, magnified. (From Engler and Prant's "Pflanzentamitien.")

sile, more or less irregular in shape, darksile, more or less irregular in snape, units colored, and of a leathery or waxy texture. The spores are hyaline and one-celled. The species are widely distributed, and occur mostly on woody plants. Many are regarded as parasitic cenobian (sē-nô'bi-an). a. and n. [canobi(um) + -an.] I. a. Pertaining to the life of a

cenobite.

The cenobian rule to which many of the monasteries still adhere was established by St Athanasius, the founder of the great monastery of Laura, in 969.

Encyc. Brit., XXX. 399.

II. n. A monk living in a community under

cenocyte (sen'ō-sīt), n. [Gr. $\kappa\sigma\nu\delta c$, eommon, together, $+\kappa\iota\tau\sigma c$, a hollow (a cell).] In bat, a vegetative body consisting of a number of nuclei with the surrounding protoplasm and other cell-constituents inclosed within a cellwall. The Phycomycetes among the fungi and the Siphonales among the algae are common examples. cenocytic (sen-ō-sit'ik), u. [cenocyte + -ic.]

In bot., of or pertaining to, or of the nature of, a cenoevte.

cenogenesis, cenogenetic, etc. See kenogenesis, kenogenetic, etc.

cenogenic (sen-o-jen'ik), u. Same as *keno-

Cenomanian (sen-ō-mā'ni-an), a. [ML. Cenomania, now Le Mans, in France, ∠ L. Cenomani, Gr. Kενομανοί, a Gallie people of northern Italy.] 1. Of or pertaining to the ancient Celtie tribes of Ganl known as the Cenomani (which see in the Century Cyclopedia of Names.)-2. In geol., noting a subdivision of the Upper Cretaceous period represented in France by the gravels of the department of Perche, the ehalk of Rouen, and the gray ehalk of Boulogne, corresponding in Great Britain to the Lower Chalk and Upper Green-sand, and in the United States to the Dakota

cenopsychic (sen-ō-sī'kik), a. [Gr. καινός, re-eent, + ψυχή, mind.] In psychol., of recent or late appearance in mental evolution: opposed cenopsychic (sen-ō-sī'kik), a. to *palwopsychie. G. S. Hall, Adolescence, II. 358.

cenopythagorean (sen/ō-pi-thag-ō-rē'an), a. [Gr. καινός, recent, + Ε. Pythagorean.] Of or ertaining to a modern doctrine which resembles Pythagoreanism in accepting universal categories that are related to and are named after numbers.

cenorescent (sen-ō-res'ent), a. [Appar. irreg. (Gr. kauróg, recent, new, + (flu)orescent.] Same as fluorescent. [Rare.]

[Irreg. ζ Gr. καινός, re cenosite (sen'ō-sīt), n. eent, + -ite2.] A silicate and carbonate of the yttrium metals and calcium, occurring in yellowish-brown prismatic crystals: found in Norway and Sweden. Also camosite and kuinosite.

cenotaph (sen'ō-taf), v.t. [cenotaph, n.] To honor or commemorate with a cenotaph. J.H.Boner, Poe's Cottage, st. 7.

cenotaphic (sen'ō-taf-ik), a. Pertaining to or an annual or biennial flower-garden composite of the nature of a cenotaph.

cenote (se-no'te), n. [Yucatan Sp., < Maya A natural underground reservoir of water, such as is found in the limestone of Yueatan, used by the natives for drawing water: the presence of such reservoirs determines the location of the larger viltages.

The most notable examples of sacrifices of this general class are recorded by explorers of Central and South America, where offerings of gold and precious things of various kinds were cast into lakes, streams, springs, and the deep cenotes, or natural wells, to appease the gods believed to dwell therein.

Amer. Anthropologist, Jan.-March, 1902, p. 128.

cenozoölogy (sē no-zō-ol'ō-ji), n. [Gr. καινός, reeent, + E. zoölogy.] That branch of biological science which treats of living, as contrasted with extinct, animals. Also cæ-

nozoölogy and cainozoölogy.

cenquad (sen'kwod), n. [L. cen(tum), hundred,
+ quad(rus), four-sided.] A quadrilateral

whose diagonals bisect each other. censor (sen'sor), v. t. To subject to the examination, revision, or expurgation of a censor: as, to censor a book, periodical, play, or the like; especially (milit.), to subject (press despatches, etc.) to scrntiny with a view to sup-pressing information which, if made public,

might embarrass military operations. censored (sen'sord), p.a. Passed upon, revised, or expurgated by a censor: as, censored war

censorize (sen'sor-īz), v. t. To subject to the inspection and revision of the censor.

census, n. 3. In topical geom., a number referring to a geometrical figure and formed by subtracting the sum of the cyclosis and apeiry of the figure from the sum of the choresis and of the figure from the sum of the choresis and periphraxis. If the figure is composed of parts of different dimensionality, the census should be taken separately for the points, lines, surfaces, and solids, and the final census formed by subtracting the sum of the censuses of the lines and the solids from the sum of the censuses of the points and the surfaces. This use of the word was introduced by J. B. Listing.—Burean of the Census, See *hureau.

news

introduced by J. B. Listing.—Burean of the Census. See ★bureau.

cent, n. 5. A name of various coins reckoned as the hundredth part of a dollar. (n) A current subsidiary coin of British North America, British Guiana, British Honduras, the Danish West Indies, Hawaii, Flij, Liberia, Cuba, Guam, the Philippine Islands, and Porto Rico, equal to one United Statescent. (b) A current subsidiary coin of North Borneo, Hong-Kong, Labuan, Sarawak, and Straits Settlements, equal to about one half of a United States cent. (c) A current oin of Ceylon, Mauritius, and Seychelles, the hundredth part of a rupee, equal to about thirty-two hundredths of a United States cent. (d) A current subsidiary coin of the Netherlands and the Dutch colonies, the hundredth part of a forin or gulden, equal to forty hundredths of a United States cent. (d) A current subsidiary coin of Spain and the Spanish colonies, the hundredth part of an escudo.—Cent de pescta, a subsidiary coin of Spain and the Spanish colonies, the hundredth part of an escudo.—Cent de pescta, a subsidiary coin of Spain and the Spanish colonies, the hundredth part of a pescta.—Cent de pesco, a subsidiary coin of the Spanish colonies, the hundredth part of a pescta.—Cent de pesco, a subsidiary coin of the Spanish colonies, the hundredth part of a pescha.—Cent de pesco, a subsidiary coin of the Spanish colonies, the hundredth part of a pescha.—Cent de pesco, a subsidiary coin of the Spanish colonies, the hundredth part of a peschart.—Subjict of the Carolinas.—Franklin cent, ring cent, sun-dial cent. Same as Ingio *cent.—Fugli cent, a copper coin struck by act of Congress in 1787: so called from the inscription ("Fugio"). Also called Franklin cent, ring cent, sun-dial cent, etc.—Silver-center cent, a pattern cent struck in 1792, with a small silver plug in the center.—Wreath cent, a copper cent of the United States first struck in 1793: so called from the wreath on the reverse. Cent. An abbreviation (b) of central; (c) of centural; (d) of centuru.—Gent per cent, a hun-An abbreviation (b) of central; (c) of centigrade; (d) of century.—Cent. per cent., a hundred for every hundred; interest equal in amount to the principal.—Three per cents., four per cents., five per cents., etc., public securities bearing that rate of interest.

interest. Cental system, the system of buying and selling grain by the cental, in use in the Liverpool corn-market since 1859, approved by an Order in Council in 1879, and proposed for general use in the United Kingdom. centare (sen'tar), n. Same as centiare. centaurdom (sen'tar-dum), n. [centaur +

-dom.] The union of two diverse natures as typified by the centaur of classic mythology.

There are here and there certain literary and intellectual heresies and heretics refusing to recognize Centaurdom as the highest of human good.

W. J. Stillman, in The Century, Oct., 1883, p. 826.

centauresque (sen-târ-esk'), a. [centaur + In the style or manner of a centaur; -esque.] In the centaur-like.

Something centauresque and of twofold nature.

Mrs. Browning, Greek Chr. Poets, p. 160. N. E. D.

centauric (sen-tâ'rik), a. [centaur + -ic.]
Of, pertaining to, or of the nature of the cen-

Centauridium (sen-tâ-rid'i-um), n. [NL. (Torrey and Gray, 1841), \(\int \textit{Centaurea} + \text{Gr.}\) cidoc, form; from the resemblance of the flowerheads to those of some species of Centaurea.] The old generic name of Xanthisma Texanum,

with large yellow heads. It is known to florists as Centauridium Drummondii. There is only one species, and this is native to the southwestern region of the United States,

centaurin (sen'tâ-rin), n. [$Centaur(ea) + -in^2$.] Same as *erythrocentaurin.

Centaurion (sen-tâ'ri-on), n. [NL. (Adanson, 1763, adopted from Tournefort, 1700), < Gr. κενταύριον, a plant said to have cured an arrowwound in the foot of the centaur Chiron.] genus of dicotytedonous plants belonging to the family Gentianaceæ. See Erythræa.

centaury, n. - Californian centaury. Same as can-

centavo, n. 2. A current coin of Bolivia, the hundredth part of a boliviano. - 3. A current coin of Ecuador, the hundredth part of a sucre, equal to forty-nine hundredths of a United States cent.

centenarial (sen-te-nā'ri-al), a. [centenary + Of or pertaining to a centenary, or space of a hundred years; completing or commemorating the completion of a hundred years: as, a centenarial day; a centenarial celebration. centenier, n. 2. A police officer in the island of Jersey

centenionalis (sen-ten"i-ō-nā'lis), n. [LL. (se. nummus), (*centenio(n-), (centeni, a hundred each: see centenary.] A Roman silver coin of Constantine the Great.

centennial, n. 2. A dice game in which the object is to secure pips, or multiples of pips, which will make the figures from I to 12, and theu from 12 to 1, in numerical order.

centennium (sen-ten'i-um), n.; pl. centennia (-ii). [NL. centennium.] The space of one (-ä). [NL. contennium.] hundred years; a century.

center¹, n. 13. A point so situated with regard to a locus that all chords of the locus, drawn through the point, are bisected in it. The pole of a straight at infinity with respect to a certain conic is the center of the conic.

The center of a hyperbola lies without the curve, since

e figurative straight crosses the curve.

Merriman and Woodward, Higher Mathematics, p. 95. 14. In foot-ball, roller-polo, basket-ball, hockey, and other games, the one who plays in the middle of the forward line; in foot-ball, the snap-back.—Accelerating center, a point in the medulla oblongata whence pass nerve-fibers stimulation of which causes increased rapidity of the heart's action.—Apperception center, an inhibitory cortical center, hypothetically placed by Wundt in the frontal lobes, subserving the elementary function of apperception. W. Wundt (trans.), Physiol. Psychol., l. 315.—Association center, auditory-center. See *association, **auditory.—Brain center. (a) A cortical center; a region or area of the cerebral cortex, more or less sharply delimited by structure and function. (b) Any group or collection of cells, within the brain, that subserves a single function.—Broca's center. Same as *speech-center.—Center of action, in meteor., a large area of high or low barometric pressure which forms a prominent feature of the daily weather-map.—Center of aspiration, in meteor., the region in a cyclonic storm where air is ascending, toward which the lower air rushes or is being pushed, and near which it also will ascend, cool, and become a center of condensation and a new center of aspiration or 'center of power.'—Center of Budge, a nervous center existing in the spinal cord in the region of the second lumbar vertebra. In the male it is the erection center, in the female the parturition center. Also called genital or genitospinal center.—Center of compressive forces can act without disturbing the equilibrium of the system of forces; the center of gravity of the compressive forces can act without disturbing the equilibrium of the system of forces; the center of gravity of the compressive forces conter of contact. See *contact.—Center of floation, the geometrical center of a body.—Center of inversion.

Same as center of buoyancy.—Center of inversion.

Same as center of buoyancy.—Center of inversion.

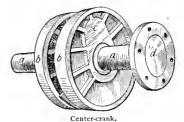
Same as center of service.—Center of power, a term applied by Ferrel tothat region in a storu-area or ln foot-ball, roller-polo, basket-ball, hockey, and other games, the one who plays in the middle of the forward line; in foot-ball,

center-line

of the retina, where sight is keenest. Also called the yellow spot. See macuda lutea, under macuda and also under retina (10).—Center stroke. See *strokel.—Curve of centers of buoyancy. See *strokel.—Curve of centers of ship lutdea, a center of similitude, a center of similitude,—content of similitude,—content

from a side-bearing, or a fixed bearing, as in a small car having no trucks; also the place where the weight of the car-body rests upon the center-plates and where the center-pin joins the car to the truck. The center-bearing beam is the beam which supports the truck center-plate and, in six-wheel trucks, is supported by the center-bearing bridge. See body center-plate, center-plate block, and cut under car-truck.

center-crank (sen'tèr-krank), n. double crank in which the arms are replaced by two solid disks, coupled together by the crank-pin on which the connecting-rod is fitted. Such crank-shafts have bearings on each side of the double crank.



e, engine-shaft journals ; δ, δ, crank-disks ; ε, end of crank-pin ; α, flange to couple crank-shaft to generator-shaft.

centering-chuck (sen'ter-ing-chuk), n. A form of face-plate for a lathe, which carries three or ince-plate for a fathe, which earries three or four jaws for holding work. These jaws are so connected by gearing as to move radially together equally from or toward the center, so that work in the jaws is automatically brought into the axis around which they revolve. Also used for holding drills in drill-presses. centering-machine (sen'ter-ing-ma-shēn"), n. A daying for marking or drilling the balanter.

A device for marking or drilling the holes for the centers of a lathe, so that these holes shall be in the center of figure of the piece to be marked or drilled.

centering-rest (sen'ter-ing-rest"), n. A V-rest made of two straight pieces placed at an angle to one another, used in a lathe for marking to one another, used in a lathe for marking centers in cylindrical pieces. It is fastened to the tool-carriage, the piece to be centered resting in the angle formed by the straight sides. A cutting-tool in the tail-stock marks the center exactly concentrically with the outside as the piece is revolved.

center-line (sen'tèr-lin), n. 1. A line dividing any symmetrical plane figure or surface of problems of the content of th

revolution into two symmetrical halves.—2. The line around which any figure may be revolved to generate a volume of revolution. 3. The line in a drawing on each side of which points in the diagram or figure lie at equal distances. In all designing of symmetrical constructions the center-lines are drawn first, and from these all dimensions are laid off.-4.

pl. The lines through the center of mass or centime, n. 2. A current money of account centrangulate (sen-trang'gū-lāt), a. eenter of gravity of a body parallel to the three in Haiti, the hundredth part of a gourde or trum, center, + NL. angulatus. ang ecordinate axes used in analytical geometry.

5. The line joining the centers of two parallel shafts in the same plane, or perpendicular to both axes if they are not in the same plane, in the design of toothed gearing.

line of center, under line².

center-plate, n. 2. One of the metal plates fastened to the ends of jointed patterns to furnish a suitable bearing for the lathe-centers and to hold the pattern together while it is

being turned.

center-square (sen'tér-skwar), n. An instrument used for finding the center of a circle or of an arc of a circle. It comprises two straight-edges which make about a right angle with one another and a third straight-edge one side of which bisects the angle between the other two. When the two outer edges are placed against the circumference of a circle, the bisecting edge points to the center. By drawing a line along the bisector and then shifting the instrument to a new position and drawing another line along the bisector, intersecting the former line at a considerable angle, the center of the circle will be determined by the intersection of the two lines. center-square (sen'ter-skwar), n.

center-tester (sen'ter-tes"ter), n. An appli-ance for finding the exact center of any piece of work in a lathe or for testing the accuracy of lathe-centers. It consists of a fine steel center-tester (sen'ter-tes"ter), n. needle pivoted to a steel plate that fits the toolpost of the lathe.

centesis (sen-te'sis), n. [NL., < Gr. κέντησις, puncture, < κεντείν, puncture, prick.] Same

as paracentesis.

centgener (seut'jē-nėr), a. and n. [L. eentum, hundred, + genus (gener-), kind.] I. a. Concerning or pertaining to one hundred or any considerable number of representatives of a race, variety, or strain of domesticated animals or cultivated plants, when considered as a type or pure sample of the whole.

The American tretter is being rapidly improved, because distance does not hinder the transmission of individual records, of centgener records (here the number of progeny which each sire or dam has in the fast trotting list).

1. Tearbook U. S. Dept. Agr., 1901, p. 230.

II. n. 1. One hundred or any considerable number of representatives of a race, variety, or strain of domesticated animals or cultivated plants, considered as a type or true sample of the whole.

The second year 100 plants, called for convenience a centgener, from each of the 100 mother plants chosen as above, are similarly grown in the nursery plats.

*Fearbook U. S. Dept. Ayr., 1901, p. 225.

2. Specifically, the separately planted seminal or klonal progeny of a single parent, as a nursery-plat from one wheat plant, or the progeny of an animal so raised that their -al.] Of the nature of a cento. progeny of an animal so raised that their average values may be secured as a measure of the breeding-value of the parent.—Centgener power, the hereditary power of parents expressed in the terms of the average values of their progeny; for example, the average progeny of one wheat plant is 8.4 grams of seed, of another 7.7 grams of seed, or the progeny of one flax-plant stands 26 inches high, of another, 35 Inches; one horse produces colts weighing 1,500 pounds, another, colts weighing 1,250 pounds.—Centgener tests, tests of the centgener powers, or breeding ability, of numerous parents; as, by planting, under like conditions, centgeners of wheat, corn, etc.; comparing the average of the progeny of ene animal with the progeny of another; or contrasting the speed of the colts of a racing stallion, or the producing-power of the heifers of dairy sires or dams.

centig. An abbreviation of centigrade. centigraph (sen 'ti-gráf), n. [L. centum, a hundred, + Gr. γράφεν, write.] An addingmachine having a figure-wheel with serial numbers (0 to 100, inclusive) and a dial which indicates hundreds. It is operated by a wound spring escapement and fingered keys.

centile (sen'til), n. [L. centum, a hundred, + -ile.] An object or term occupying a place whose ordinal corresponds to 100 or a multiple

or 100.

centillion (sen-til'ion), n. In the French enumeration, used also in the United States, the hundredth power of 1,000; in the United Kingdom, the hundredth power of 1,000,000.

centillionth (sen-til'ionth), n. and a. I. n.

One of a centillion equal parts; the quotient of unity divided by a centillion.

II. a. 1. Coming last in a set of a contillion.

II. a. 1. Coming last in a set of a centillion terms: an ordinal numeral.—2. Being one of

a centillion equal parts.

centim (sent'im), n. [centim(eter).] A centimeter; the second metret or decimal submultiple of a meter in the scheme of magnitudes, devised, about 1860, by G. J. Stoney. The decim or decimeter is the first metret, and the millim (or millimeter) the third. See *metro and *metret.

dollar, equal to ninety-seven hundredths of a United States cent.

dollar, equal to ninety-seven hundredths of a United States cent.

Centimeter-gram-second system. In elect., two systems of such units exist, namely, the electromagnetic system, based on unit magnetism as that magnetism which acts upon an equal amount of magnetism at unit distance with unit force, and the electrostatic system, based on unit electric quantity as that quantity which acts upon an equal quantity at unit distance with unit force. The electromagnetic system of absolute units is commonly used. Many of its units, however, are inconveniently small or inconveniently large, and therefore decimal multiples or fractions are used as practical units. These practical units are named after famous scientists: as, ampere, volt, etc.—

Cubic centimeter. (a) A unit of volume equal to a cube whose edge is one centimeter. (b) More commonly, the thousandth part of a liter. The liter was intended to equal one thousand cubic centimeters and the weight of one liter of distilled water at the temperature of its maximum density was intended to equal the kilogram definitely adopted differs from the intended mass by one or more parts in a hundred thousand: since the liter is always determined by weighing, it also differs from its intended volume by a similarly small fraction. When this small fraction is negligible, the thousandth part of a liter is commonly called a cubic centimeter. The name milliliter is preferred by many for the thousandth part of the liter.

centimo (then 'tē-mō), n. [Sn.: see centime.]

1. A current subsidiary coin of Costa Rica, the hundredth part of a colon, equal to forty-six hundredths of a United States cent. Sil-

the hundredth part of a colon, equal to fortysix hundredths of a United States cent. Silver pieces of 5, 10, 25, and 50 centimos are coincd.—2. A current subsidiary coin of Venezuela, the hundredth part of a bolivar, equal to nineteen hundredths of a United States -3. A subsidiary coin of the Dominican Republic, the hundredth part of a franco, or franc, equal to seventeen hundredths of a United States cent.

centinormal (sen-ti-nôr'mal), n. [L. centum, hundred, + E. normal.] In chem., containing in each liter, as a solution, a number of grams of the dissolved substance numerically equal to one hundredth part of its molecular weight,

or, in some cases, of its equivalent weight. centiplume (sen'ti-plūm), a. [L. centum, hundred, + plūma, feather.] Having a hundred feathers: applied to most of the moths of the

family Pterophoridæ (which see).

centoism (sen'tō-izm), n. Same as centonism. centoize (sen'tō-iz), v. t.; pret. and pp. centoized, ppr. centoizing. [cento + -ize.] To make into a cento.

Eudocia . . . wife of Theodosius, and empress of the world, thought good to extend her sceptre . . . over Homer's poems, and cento-ize them into an epic on the Saviour's life.

Mrs. Browning, Greek Christian Poets, p. 66.

centonize (sen'tō-niz), r. t. [L. cento(n-), a cento, + -ize.] Same as *centoze. centractinate (sen-trak'ti-nāt), a. [Gr. κέντρου,

eenter, $+ \dot{a}\kappa \tau \dot{u}$; $(\dot{a}\kappa \tau u^2)$, ray.] In sponge-spicules, having a projection or actine at the center: as, a centractinate sigma.

centradenia (sen-tra-dê'ni-ā), n. [NL., ζ Gr. Philos. Trans. Roy. Soc. (London), ser. B, 1900, p. 76. κίντρον, center, + ἀδήν, a gland.] A cellular centrifugate (sen-trif'ῆ-gāt), v.; pret. and pp. mass, the so-called liver or central organ, found in certain Siphonophora. E. R. Lankester, Treatise on Zoöl., ii. 4.

central, a. 4. In anat., of or relating to the centrum of a vertebra.—5. In neurol., pertaining to a nerve-center: opposed to peripheral, or pertaining to the nerve-fibers or to the nervous pertaining to the nerve-fibers or to the nervous terminations in sense-organs and muscles.—Central arteries of the brain, branches from the circle of Willis which pass to the central ganglia.—Central body, disk. See *body, *disk.—Central granule, in bot, one of the slime-globules or -granules in the cytoplasm of certain algaecils, Cyanophycew.—Central gyri, nervous system. See *aprus, *nervous.—Central particle, in cytol., same as *entrosome.—Central reaction.—See *reaction.—Central symmetry, in yeom., symmetry with respect to a center.

II. n. In a telephone system, the office from

II. n. In a telephone system, the office from which the public and private lines radiate and in which the connections are made between the different lines, by means of a central switchboard.

central2 (sen-träl'), n.; pl. centrales (-trä'las). [Sp.] Cane-grinding apparatus which serves for several sugar plantations. [Cuba and Porto Rico. 1

centrale, n. 2. In crinoids, same as centrodorsal

centralistic (sen-tral-is'tik), a. Of, pertain-

ing to, or favored by the centralists.

centrality, u. 2. In the Hegelian logic, firstness; native character; the total character which belongs to an object regardless of anything else.

trum, center, + NL. angulatus, angled.] In sponge-spicules, having a bend or angle at the center: as, a centrangulate sigma.

centraporia (sen-trä-pō'ri-ä), n. pl. [NL., \langle Gr. κέντρον, center, + άπορος, without passage: see aporia.] Organisms that are without fixed axes or planes, and are hence irregular in shape: example, the sponges. Haceket.

centraxonia (sen-trak-sō'ni-ä), n. pl. [NL., ⟨Gr. κέντρον, eenter, + ἀξων, axis.] Organisms. of radial structure, having a median axis represented by a line, like the Calenterata. centraxonial, a. 2. Of or pertaining to the

centric, a. 3. In petrog., applied by Becke (1878) to rock fabrics formed by the grouping of crystals about a center, radially or concen-

centricality (sen-tri-kal'i-ti), n. [centrical + Central position or situation.

centrifugal. I. a. 4. Obtained (as milk er cream) by the *centrifugal method (which see).

Fresh butter, made from sweet centrifugal cream. Yearbook U. S. Dept. Agr., 1900, p. 613.

Centrifugal concentrator, governor, machine. See *concentrator, governor, 6, *centrifugal, n., 3.—Centrifugal method, in dairqing, the separating of cream from milk by means of a separator (centrifugal), as distinguished from the separation of cream by allowing the milk to stand and then removing the cream by skimming.

II. n. 3. A trade-name for any machine which employs contrifugal forces to contribute the contribute of the contribute of

which employs centrifugal force to separate a which employs centrifugal force to separate a liquid from a solid or to separate liquids of different specific gravities. In all, the liquids to be separated, or the liquids and solids, are placed in a vessel which is rotated at a high speed, the lighter liquids being thrown off to the sides of the vessel where they overflow and escape, or the liquids mingled with the solids being thrown outward through perforations in the sides of the vessel. The cream-separator is an example of the first and the laundry extractor an example of the second method. Machines which are essentially centrifugal are given different names in different trades, as centrifugal extractor, in many extractor, honey-extractor, centrifugal drer, hydro-extractor, backock's centrifugal. See Babeck's *milk-tester. Centrifugal-i-zā'shon), centrifugalization (sen-trif" ligal-i-zā'shon),

centrifugalization (sen-trif" u-gal-i-za'shon), n. [centrifugalize + -ation.] The process of centrifugalizing.

Our examinations were made on very fresh organ juices, blood, etc., taken at various stages of the disease, with and without centrifugalization, and on specimens haed and without centrifugacianton, and stained in appropriate ways. Science, March 29, 1901, p. 513.

centrifugalize (sen-trif'ū-gul-īz), v. t.; pret. and pp. centrifugalized, ppr. centrifugalizing, [centrifugal + -ize.] To subject to centrifugal action; cause the separation of two liquids, or of solids suspended in a fluid, by rapid rotation in a centrifugal machine. See *centrifugal, n., 3.

He also centrifugalized dogs and rabbits. When the feet were directed outwards the rabbits died in 6-15 minutes, and dogs in 10-15 minutes. When the head was placed outwards death took place after a period more than twice as long.

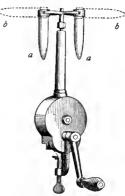
Philos. Trans. Roy. Soc. (London), ser. B, 1900, p. 76.

centrifugated, ppr. centrifugating. [centrifuge + -ate².] I. trans. To drive from the center or from the circumference; specifically, to expose to centrifugal action in a centrifuge.

The fluid should be centrifugated, the sediment spread a cover slips.

Buck, Med. Handbook, 1, 564, on cover slips.

II. intrans. To fly off from the center; seatter or disperse in all directions. Mrs. Whitney, Sights and Insights, vii.



Centrifuge for the sedimentation of urine, blood, and other animal fluids: a, a, tubes holding the fluid to be examined; b, b, position of the tubes when the machine is in action.

centrifugation (sen-trif'ū-gā'ū - gā'-The shon), n. The driving of anything from the center or circum ference; specifi-cally, the separa-tion of two immiscible liquids of different densities, or of suspended solid solid particles from a liquid, by the use of a centrifuge or centrifugal machine.

An hour later the mixture was expressed, 30 cm. of this quantity taken, the solid particles separated by centrifugation and the

amount of the nitrogen in the solid and liquid parts determined by Kjeldahl's method.

Phil. Med. Jour., Jan. 31, 1903, p. 201.

centrifuge (sen'tri-fūj), n. [NL. centrifugus, adj.: see centrifugal.] A centrifugal machine; specifically, a form of centrifugal machine employed to separate the solid partieles suspended in a fluid, such as the blood or urine.

centrifuge (sen'tri-fūj), v. t.: pret. and pp. centrifuged, ppr. centrifuging. To submit to very rapid rotatory motion in a centrifuge or centrifugal machine in order to separate suspended solid partieles from a liquid, or two immiscible liquids of different densities from one another.

By mixing bacteria with the white cells of the blood obtained by centrifuging and adding blood scrum (a) unheated, i. e. in the natural condition, (b) heated to 60°-65°C for ten to fifteen minutes, it is found that, under the same conditions, phagocytosis is much more active in the presence of the nuheated than of the heated scrum.

Xature, Dec. 3, 1903, p. 111.

centriole (sen'tri-ōl). n. [NL. centriolum, dim. of L. centrum, center.] In cytol., a minute granule in the center of the astrosphere of the dividing-cell.

Centripetal canals. See *canal*. centripety (sen-trip'e-ti), n. [NL. centripetus, eentripetal, + -y³.] A centripetal tendency or condition; a state opposed to rotular diffusion from a center. This term has been employed in descriptive paleontology to designate the absence of any manifestation, in a plane-coiled cephalopod shell, of a tendency to become evolute or to broaden its umbilicus.

centroclinal (sen-tro-kli'nal), n. [Gr. $\kappa i \nu \tau \rho \sigma r$, center, $+ \kappa \lambda i \nu e v$, bend, + -al.] In geol., a dome: a quaquaversal; an area with dips radiating from it as a center of uplift.

centrode (sen'trod), n. [Gr. κέντρον, eenter, + $\delta\delta\delta\varsigma$, path.] In math., a locus of the instantaneous center of no velocity, for motion in taneous center of no Velocity, for motion in two dimensions.—**Fixed centrode.** For motion in two dimensions, the group of fixed lines, indicating the position which each instantaneous axis will occupy as its turn arrives, constitutes a cylindrical locus, fixed relatively to the reference-system. Its intersection with the guideplane is the fixed centrode.—**Moving centrode.** As motion in two dimensions proceeds, different lines in the solid become in turn the instantaneous axis, each at its own epoch. This group of lines may be determined in advance as a cylindrical locus moving with the solid. Its intersection with the guide-plane is the moving centrode.

centrodesmus (sen-tro-des'mus), n.; pl. centrodesmi (-mi). [NL., \langle Gr. κέντρον, center, + δεσμός, a band.] In cytol., the delicate bridge which connects two centrosomes or eentrioles in the cell and is supposed to give rise to the central spindle.

centrodeutoplasm (sen-tr\(\tilde{0}\)-d\(\tilde{1}'\)t\(\tilde{0}\)-plazm). u.

[Gr. $\kappa \ell \nu \tau \rho \sigma \nu$, eenter, $+ \delta \epsilon i \tau (\epsilon \rho \sigma \zeta)$, second, $+ \pi \lambda \dot{a} \sigma \mu a$, anything formed.] In eytol., the granular substance of the testis-eells which may contribute to the formation of the idio-

zome. Erlanger, 1897. centrodorsal, n. 2. In paleont., a pentagonal plate found in many non-pedunculate erinoids (for example, *Uintacrinus*) at the base of the eup and probably representing an atrophied

centrogen (sen'trō-jen). a. [Gr. κέντρον, eenter, + γειγς, -produced.] Proceeding or radiating from the center, as, specifically, the skeleton of acantharians, which radiates from the cen-

tral eapsule.

centrogenesis (sen-trō-jen'ē-sis), u. [Gr. κέν-τρον, center, + γένεσις, genesis.] 1. Histor-ical progress or evolution through the acquisition and elaboration of axial or central organization .- 2. The radiate or peripheral type of form assumed by plants and also by some of the lower forms of the unimal kingdom; dis-tinguished from dipleurogenesis or bilaterality prevailing in animals.

We may, therefore, contrast these two great lines of ascent, which, with so many vicissitudes, have come up through the ages, as Diplemogenesis and Centrogenesis.

L. H. Bailey, Survival of the Unlike, p. 17.

centrogenetic (sen-tro-je-net'ik), a. Originated or developed on the rotate or peripheral type: pertaining to centrogenesis.

centrogenic (sen-trô-jen'ik), u. Characterized by eentrogenesis: as, a centrogenic structure. **Centrogenys** (sen-troj'ē-nis), n. [Gr. κέντρον, center, + γέννς, ehin.] A genus of serranoid fishes of the Indian and western Pacific oceans. centroid, n. 2. In kinematics, same as *centrospore (sen'trō-spōr), n. [Gr. $\kappa \epsilon \nu \tau \rho \sigma v$, trode. Reaulcaux.—3. A point of emphasis or increased energy in a series of speech-sounds, plant whose fruit is provided with spines which increased energy in a series of speech-sounds, or in any series of impulses. Also used attributively.

Just as in the case of an irregular solid body, we are driven to pick out points at which we can consider the whole mass to be located without altering the result under discussion. This is the centroid theory of the auditory and motor nature of speech that corresponds to the centroid that the speech that corresponds to the centroid that the speech that corresponds to the centroid the speech that corresponds to the centroid that corresponds to the centroid the speech through the speech that corresponds to the centroid that corresponds the centr troid theory of the course of thought.

Scripture, Exper. Phonetics, p. 448. Centroid of a coil, the curve formed by the axis of any closed coil, such as a coil wound upon a ring where the axis is a closed curve.

centroidal (sen-troi'dal), a. [centroid + -al.]

Pertaining to or of the nature of a centroid. Stud. Yule Psych. Lab., IX. 19. centrolecithal, a. 2. In embryol., noting that type of cleavage in which the dividing nuclei pass to the surface of the ovum, leaving the yolk in the center. This form of cleavage is characteristic of the Arthropoda, especially of the insects.

Centrolepidaceæ (sen#trō-lep-i-dā'sē-ē), n. pl. [NL. (Hieronymus, 1873), \(\sigma\) Centrolepis + -aeca.] A family of monocotyledonous plants of the order *Myridales*; the bristlewort family, typified by the genus *Centrolepis* (which see). It enbraces 6 genera and about 38 species, all natives of Australasia, small herbs chiefly growing in swamps, having bristle-shaped leaves and distichous flower-spikes or heads.

centrolepidaceous (sen'trö-lep-i-da'shius), a. Belonging to the plant-family *Centrolepida-

ceæ (which see).

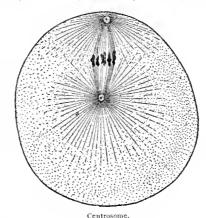
centroplana (sen-trō-plā'nā), n. pl. [NL., ζ Gr. κέντρον, L. centrum, eenter, + planus, plane.] Organisms that are symmetrical with reference to a median plane, that is, that are bilateral. Haeckel.

centroplasm (sen'trō-plazm), n. eenter, $+\pi\lambda\dot{a}\sigma\mu a$, anything formed.] In cytol., the substance of the eentrosphere; the proto-plasm which forms the attraction-sphere or central portion of the aster.

central portion of the aster.

centrosoma (sen-trō-sō'mā), n.; pl. centrosomata (-ma-tā). [NL., \langle Gr. κ évr ρ ov, eenter, + σ õ μ a, body.] Same as *ccutrosome.

centrosome (sen'trō-sōm), n. [NL. centrosoma, \langle Gr. κ év τ ρ ov, eenter, + σ õ μ a, body.]



Structure of the centrosome in the polar asters of a gasteropod taulula. Mitotic figure, formation of the first polar body lacFarland.) (From Wilson's "The Cell.") (MacFarland.)

In cytol., a body of indeterminate nature in the center of each astrosphere of the dividingeell.—Cleavage centrosome, the centrosome of the cleavage nucleus or that which forms the poles of the spindle for the division of the egg into the first two blastomeres.—Sperm centrosome, a centrosome supposed to be brought into the egg by the spermatozoon during fertilization.

centrosphere (sen'trǫ-sfer), n. [Gr. κέντρον, eenter, + σφαῖρα, sphere.] 1. In cytol., a spherieal, differentiated mass of cytoplasm surrounding the centrosome and constituting a pole of the karyokinetic spindle during cell-division. Also called attraction-sphere.—2. The central or interior portion of the earth, beginning at a somewhat indefinite depth, involving materials and pressures of which we have no actual experience; contrasted with the successive outer shells, lithosphere, hydrosphere, and atmosphere.

The Earth consists of three parts: there is the vast unknown interior, or "centrosphere," concerning which physicists have not come to any unanimous decision, some saying that it is throughout solid and rigid, others that it is partly fluid, and others again that it is partly gaseous. Geog. Jour. (R. G. S.), XIII. 228.

aid in dissemination by attachment. F. E. Clements.

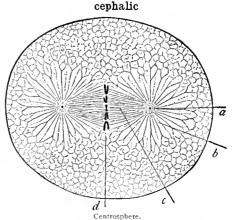


Diagram of the dividing cell, showing the mitotic figure and its re-lation to the cytoplasmic meshwork.

a, centrosphere containing the centrosome; b, aster: c, spindle; d, chromosomes forming the equatorial plate. (From Wilson's "The Cell.")

centrostomatous (sen-tro-sto'ma-tus), a. [Gr.

κέντρον, center, + στόμα, mouth.] Having the mouth placed centrally, as a starfish. centrosymmetrical (sen"trō-si-met'ri-kal), α. [Gr. κέντρον, center, + σναμετρικός, symmetrical.] Having symmetry with respect to a point or eenter: said of erystals.

centrosymmetry (sen-trō-sim'e-tri), n. [Gr. κέντρον, center, + συμμετρία, symmetry.] Symmetry with respect to a point or center, as in most crystals. See *symmetry, 6.

centroxylic (sen-trok-sil'ik), a. [centroxyl-y + -ic.] Relating to centroxyly.

+ -ic.] Relating to centroxyly.
centroxyly (sen-trok'si-li), n. [Gr. κέντρον, eenter, + ξίλον, wood.] In bot., primary centrifugal woody structure. Van Tieghem.
centrum, n. 3. In geol., the focus or place of origin of an earthquake.
centuplicate (sen-tū'pli-kāt), a. and n. [LL. centuplicatus, pp. of centuplicare, increase a hundredfold, < centuplex, a hundredfold.] I.
a. Hundredfold. a. Hundredfold.

II. n. One of a hundred things which correspond in every respect to one another.

*centuplication (sen-tū-pli-kā'shou), n. [NL. *centuplicatio(n-), < centuplicare, increase a hundredfold: see centuplicate.] The act of centupling; reduplication a hundredfold.

centuply (sen-tū'pli), adv. A hundredfold. century1, n. 4. In bot., a set of dried plants eontaining a hundred sheets.—To score a century, in cricket, to score a hundred runs or more in a single

The M. C. C. give a bat to every amateur or professional who scores a century for them. Encyc. Brit., XXVII. 276.

cèpe (sep), n.; pl. cèpes (sep). [F., & L. cepa, onion.] A name sometimes given to edible species of *Boletus*.

To this genus [Boletns] belong the fungi known in France as cèpes, under which name they are imported into this country, but not in any great quantities.

Yearbook U. S. Dept. Agr., 1897, p. 465.

cephaëline (se-fā'e-lin), n. [NL. Cephaëlis, a genus of plants, +-ine².] An alkaloid, $C_{14}H_{20}NO_2$, found with emetine in ipecacuanha. It crystallizes in needles which melt at 96-102° C. The salts are amorphous.

cephalalgia, n.—Cephalalgia periodica, megrim.—Cephalalgia spasmodica, sick-headache.

cephalanthine (sef-a-lan'thin), n. [Cephalanth-ns + -ine².] A white, amorphous, very bit-ter glueoside found in Cephalanthus occidentalis. It is dextrorotatory and melts at about 180°C.

cephalanthous (sef-ā-lan'thus), α. [Gr. κεφαλή, head, + $\dot{\alpha}\nu\partial\phi_c$, flower.] In bot., having the flowers in heads, as composite plants. cephalematocele (sef-a-le ma-to-sel), n. [Gr. $\kappa\epsilon\phi\alpha\lambda\dot{\eta}$, head, + $a\dot{\gamma}\mu\alpha$ (τ -), blood, + $\kappa\dot{\gamma}\lambda\dot{\eta}$, tumor.]

An effusion of blood between the skull and the sealp; communication with one of the cerebral

sinuses.

cephalhydrocele (sef-al-hī'drō-sēl), n. [Gr. κεφαλή, head, + iσροκήλη, hydroeele.] A collection f serous fluid beneath the sealp.

cephalic. I. a.—Cephalic eye. See *eyel.—Cephalic race, a race whose kinship is indicated by the form of the head: as long, dotichoeephalic, or broad, brachycephalic. Negroes are long-heads; Mongolians, broadheads; the Mediterranean and Baltic whites of Europe, in general long-heads; the Alpine whites, in general broad-heads. See *ethnic race, *ylottic race, and *chromatic race. Giddings, Inductive Sociol., p. 53.—Cephalic silts, a peculiar pair of organs, of unknown function, found on most nemerteans. They usually have the form

'cerebral' sound. Whitney, Sansk. Gram., § 45. cephalin (sef'a-lin), n. [Gr. κεφαλή, head, + -in².] One of a group of organic phosphorized bodies obtained by Thudichum from brain tissue

Cephalina (sef-a-lī'nā), n. pl. [NL., < Gr. sepah, head, +-ina²] A group of Gregarinida, consisting of Eugregarinæ, which always possess an epimerite either as a transitory or as a permanent portion of the body. The body is divided typically by a septum into protomerite and deutomerite, but it may be non-septate. The group includes forms which are chiefly parasites of Arthropoda.

cephalism (sef'a-lizm), n. [Gr. κεφαλή, head, + -ism.] In anthrop., characterization by the form of the head, particularly by the cephalic

index

cephalium (se-fal'i-um), n.; pl. cephalia (-ä). [NL., ζ Gr. κεφάλιον, dim. of κεφάλη, head.] The woody enlargement at the summit of the stem of some Cactaccæ, from which the flowers are developed.

cephalization, n. 2. A supposed tendency to a gradual increase in the size of the brain correlative with cultural development. Amer. An-

thropologist, N. S., 1, 410.

cephalo-auricular (sef a-lō-â-rik'ū-lär), a. Relating to the skull and the external ear.—

cephalo-auricular angle, the angle which the plane of the auricle makes with the side of the head.

cephalocathartic (sef a-lō ka-thär tik), a and n. [Gr. κεφαλή, head, + καθαρτικός, purging: see cathartic.] I. a. Occasioning discharges from the nose; errhine.

II. n. A remedy which promotes the discharge of watery mucus from the nose.

cephalocentesis (sef a-lo-sen-te sis), n. [NL., (Gr. κεφαλή, head, + κεντησις, puncture.] Puncture of the skull to give exit to accumulated fluid.

fluid.

Cephalocerens (sef a-lō-sē'rē-us), n. [NL. (Pfeiffer, t838), ζ Gr. κεφαλή, head, + cercus.]

A genus of plants of the family Cactacee, elosely allied to Cercus. It is characterized by a globular or cylindrical enlargement, together with the presence of copions hairs or bristles in the fruiting area. They are all Mexican. C. sentils is the familiar old-man cactua, so named from the white hair-like covering.

cephalocyst (sef'a-lō-sist), n. [Gr. κεφαλή, head, + κὐστις, bag (cyst).] A cestoid worm. Cephalodiscus (sef'a-lō-dis'kus), n. [NL., < Gr. κεφαλή, head, + δίσκος, disk.] A remarkable colonial deep-sea animal associated by some with Balanoglossus and Rhabdopleura in the

Adeloclass class Adelo-chorda. It re-sembles Balano-glossus in having the three regions of the body (pro-bosels, collar, and trunk), and in the presence of a struc-ture resembling a notochord with the same relations to same relations to the nervous sys-tem as in Balano-glossus. It differs from the latter in having the alimentary canal so bent upon itself that mouth and anus are in close proxare in close proving the probability, in having tentacles on the cotlar, in the small size of the proboscis, and in the present of only one



Cephalodiscus. Entire zooid. (From Parker and Haswell's "Zoology," after McIntosh.)

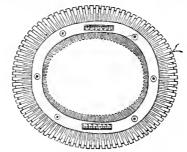
ence of only one ence of only one pair of openings that can be regarded as gill-alits. The individuals in the colony are not in organic connection but are surrounded by a common gelatinous sheath.

cephalofacial (sef a-lō-fā'shal), a. [Gr. κεφαλή, head, + L. facies, face, + -all.] Pertaining to the head or, more particularly, the cranium and the face.—Cephalofacial index, the ratio of the capacity of the skull to that of the orbits, masal Iossæ, and accessory sinnses.

cephalogaster (sef "a-lō-gas ter), n. [Gr. κεφαγή, head, + γαστήρ, belly.] A sac-like expansion of the alimentary canal in the females of many parasitic isopod erustaceaus, as Portunion mænadis, in which the inner wall projects into the lumen in the shape of numerous long processes covered with chitinous intima. In this region the absorption of food takes

cephalogram (sef'a-lō-gram), n. [Gr. κεφαλή, head, + γραμμή, a liue.] In anthrop., an out-

cephalograph (sef'a-lō-graf), n. [Gr. κεφαλή, the head, + γράφειν, write.] In anthrop., an



Harting's Cephalograph.

instrument designed for drawing outlines of the head, particularly the horizontal contour of the head.

cephalohemometer (sef "a-lō-hē-mom'e-ter), n. [Gr. $\kappa \epsilon \phi a \gamma$, head, $+ a t \mu a$, blood, $+ \mu \epsilon \tau \rho \sigma v$, measure.] An instrument for measuring bloodpressure in the head.

cephalolateral (sef a-lō-lat'e-ral), a. [Gr. κεφαλή, head, + L. lateralis, of the side: see lateral.] Toward the head and to the side.

cephalomancy (sef' a · lō · man · si), n. [Gr. κιφα'ή, head, + μαντιία, divination.] Divination by means of a head. See also *cephalonomancy.

cephalomere (sef'a-lō-mēr), n. [Gr. κεφαλή. head, + uépoc, part.] One of the segments of

the head region of arthropods.

cephalon (set'a-lon), n. [Gr. κεφαλή, head. Cf. encephalon.] The head region; the eephalic region; specifically. (a) In the Trilobita, the cephalic shield together with that part of the animal which it covers. (b) The anterior

portion of the body of certain crustaceans, as the Malacostraca. C. Spence Bate. cephalone (sef'a-lōu), u. [Gr. κεφαλή, head, +-onc.] In anthrop., a skull or head of unusually large capacity, but without pathological characteristics. cal characteristics; also, a person having a head or skull of unusually large capacity.

cephalonoid (sef'a-lo-noid), a. [cephalone + -out.] In anthrop., similar to a cephalone, or a healthy skull of extraordinary size.

cephalonomancy (sef-a-lon'o-man-si), n. [Gr. κεφαίη, head, + διος, ass, + μαντεία, divination.]
Divination by means of an ass's head.

cephalopathy (sef-a-lop'a-thi), n. [Gr. $\kappa \epsilon \phi a \lambda h$, head, + - $\pi a \theta \epsilon \iota a$, < $\pi \dot{a} \theta o c$, disease.] Disease of the head, especially of the brain.

cephalophyma (sef "a-lō-tī'mā), n.; pl. cephalophymata (-ma-tā). [NL., ζ Gr. κεφαλή, head, + οίνα, a tumor.] A tumor of the head. cephalopodal (sef-a-lop σ-dal), a. [Cephalopo-

da + -all.] Pertaining to or having the characters of the Cephalopoda.

Cephalorachidian fluid. Same as cerebrospi-

cephalosome (sef'a-lō-sōm), n. [Gr. κεφαλή, head, + σῶμα, body.] In arthropods, the head region.

cephalostyle (sef"a-lō-stil), n. \Box Gr. $\kappa\epsilon\phi a\lambda\dot{\eta}$, head, $+\sigma\tau\dot{\nu}\lambda\dot{\rho}$, pillar.] The anterior or evanial end of a notochord.

Cephalotaceæ (sef-a-lō-tā'sē-ē), n. pl. [NL. (Lindley, 1835), ⟨ Cephalotus + -aceæ.] A family of dicotyledonous archieblamydeous plants of the order Rosales, found in the swamps of King George Sound in western Australia. It contains the monotypic genus Cephalotus. This anomalons plant was regarded by Lindley as related to the pitcher-plants on account of the sac-like radical leaves. Later authors placed it in the Saxifragaece. Engler restores it to Iamily rank, chiefly on account of its rudimentary (applochlamydeons) flowers.

cephalotic (sef-a-lot'ik), a. [Gr. κεφαλή, head, + ανς (ά--), ear.] In bool., of, pertaining to, or exhibiting the presence of the ears on the mid-dle line of the head.

Dareste also declares that the cephalotic state is simi-Dareste also declares that the *cephalotic* state is similarly first indicated by a premature union of the folds in the region of the medulla, taking place before this part of the brain has widened out. In this way the auditory involutions are approximated. *Bateson*, Study of Variation, p. 458.

cephalotractor (sef a - lō - trak'tor), n. [Gr. κεφαλή, head, + NL. tractor.] An obstetrical

cepnanc

of lateral furrows or pits situated on the head and in close connection with the brain.

If n O In phonetics, a so-called 'head' or lograph. Amer. Anthropologist, Jan.-March, 1992, p. 153.

Cepheid (sē-fē'id), a. and n. [L. Cepheus, a mythical king, whose name was given to a constellation, + ·id².] name was given to a constellation, + .id2.]

I. a. Pertaining to or resembling the star d Cephei. — Cepheid star, one of a class of variable stars of punctual periodicity which in the character of their variation resemble & Cephei.

II. n. A variable star of the type of δ Ce. ohei

cepotaph (sep'ō-taf), n. [Gr. κήπος, garden, $+ \tau a \varphi o \varphi$, tomb.] A cinerary urn deposited in a garden. C. Maitland.

ceppo (chep'pō), n. [It., a stump, block, < L. cippus, a stump.] The cemented fluvioglacial gravels of northern Italy.

The presence however of the highly dennded 'ceppo nuderlying the great terminal moraines of Ivrea, Como, etc., shows that these latter cannot be the product of the second and greatest extension of the alpine glaciers.

J. Geikie, The Great Ice Age, p. 562.

ceptor (sep'tor), n. [L. -ceptor in acceptor, receptor, etc., a form, in comp., of captor, taker: see captor.] Same as *huptine.

Cera alba, white or bleached wax.—Cera flava, yellow

ceradia (sē-rā'di-ā), u. [NL. Ceradia (see def.).] A yellow oleoresin obtained from Ceradia furcata.

ceradin (ser'a-din), n. [Ceradia + -in².] An amber-colored eleoresin obtained from Ceradia

furcata. It has the odor of elemi. ceragate (ser'a-gat), n. [L. cera, wax, + E. agate². The normal form would be *cerachagain. A vellow variety of earnelian: generally produced artificially by impregnating or dyeing

chalcedony with a chromium solution. ceraginous (sē-rā'ji-nus), a. Of the nature of

cerago or bee-bread.
ceral, a. 2. Pertaining or relating to wax.
ceram. An abbreviation of ceramics.

ceramiaceous (se-rā-mi-ā'shius), a. Of or pertaining to the Ceramiacea.

Ceramic photography. See *photoceramics.— Ceramic stone, a trade-name for a building-material made from broken glass ground to powder, devitrified, and in a second furnace softened by heat and pressed into any desired form.

cerasin1, n. 2. A name of two coal-tar colors, otherwise known as fast red A and Bordeaux B.—Cerasin erange. See *arange1.—Cerasin red.

 $cerasin^2$ (ser'a-sin), u. [Appar. based on cer(cbrin)?] A compound, $C_{70}H_{138}O_{12}N_2$, obtained in small amounts by warming cows' cerasin² (ser'a-sin), n. brains with a solution of barium hydroxid. It is neutral and resembles cerebrin in its prop-

cerasinose (ser'a-sin-ōs), n. [ccrasinc + -ose.] A sugar, $C_5H_{10}O_5$ (?), formed by the action of dilute acids on cherry gum. It is crystalline, very hydroscopic, and reduces Fehling's solution.

cerat. An abbreviation of Latin ceratum, (ointment).

ment).

Cerate¹, n.—Blistering cerate, a mixture of spermaceti cerate and cantharides.—Goulard's cerate, cerate containing subacetate of lead.—Hufeland's cerate, cerate containing oxid of zinc.—Spermaceti cerate, a mixture of spermaceti, olive-oil, and white wax.

ceratectomy (ser-a-tek'tō-mi), n. [Also keratectomy (and kercetomy); < Gr. κέρας (κερατ-), horn (ἐμην κερατοειδής, the cornea), + ἐντομή, excision.] Excision of the cornea.

cerated, a. 2. In oranth., same as cerate¹.

ceratenchyma (ser-a-teng'ki-mä), n. [NL., < Gr. κέρας (κερατ-), horn, + ἐγχυμα, infusion.] In bol., the tissue which consists of effete sieve-tubes and has a horny texture.

tubes and has a horny texture. Ceraterpetum (ser-a-tér') pê-tum), n. [Gr. $\kappa \epsilon \rho a \varphi$ ($\kappa \epsilon \rho a \tau$ -), horn, $+ \epsilon \rho \pi \epsilon \tau \delta v$, a reptile.] A genus of extinct microsaurian amphibians with a pair of large backward-pointing horns attached to the posterior cranial bones. It has been found in the coal-measures of Ireland and Ohio.

ceratiasis (ser-a-ti'a-sis), n. [NL., also keratiasis; \langle Gr. $\kappa \epsilon \rho a \epsilon$ ($\kappa \epsilon \rho a \tau$ -), horn, + - $\iota a s i s$.] A condition in which there are a number of warts

of horny consistence on the skin. ceratina, n. [cap.] 3. A genus of dicotyle-denous plants belonging to the family Solanaccæ. See Solandra.

Ceratinidæ (ser-a-tin'i-dē), n. pl. [NL., < Ceratina + -tdæ.] Ä family of true bees.

Ceratinization (ser*a-tin-1-zā/shön), n. [Also keratinization; < ceratinize + -ation.] The act of becoming of horny hardness.

ceratinize (se-rat'i-niz), v. i.; pret. and pp. ceratinized, ppr. ceratinizing. [Also keratinize; < ceratin-ous + -ize.] To become of a horny

tous fungi having the spores white or yellowish and developed on the outside of the plasmodium. C. mucida occurs on logs, producing small tufted, branched white fractifications.

Ceratiomyxaceæ (se-rat"i-ō-mik-sā'sē-ē), n. pl. [NL., \ Ceratiomyxa + -aceæ.] A family of myxomycetous fungi named from the genus Ceratiomyxa. Same as Ceratiaceæ, which is an invalid name.

Geratitida (ser-a-tit'i-dā), n. pl. [NL.] A division of the ammonoid cephalopods or ammonites represented by the family Ceratitidæ and genus Ceratites.

ceratitis, n. Specifically -2. An infectious ceratometer (ser-a-tom'e-ter), n. [Also keradisease of the eyes of cattle and sheep, characterized by an intense inflammation of the conjunctiva, swelling of the eyelids, and an early opacity with later ulceration of the cornea.

In certain localities great numbers of cows were found dead or dying, all of them exhibiting symptoms of suppurative keratitis and conjunctivitis.

Rep. Bur. Animal Industry, 1901, p. 29.

Rep. Bur. Animal Industry, 1901, p. 29.

Ceratitis bullosa, inflammation of the cornea, marked by the formation of minute blisters which break and result in ulceration.—Interstitial ceratitis, chronic corneal inflammation, with the formation of opacities in the substance of the cornea which later usually disappear more or less completely.—Mycotic ceratitis. Same as *ceratomycosus.—Oyster-shuckers' ceratitis, acute inflammation of the cornea in oyster-openers, caused by wounding of the eye with pieces of shell.—Parenchymatous ceratitis, inflammation of the cornea marked by the formation of opacities: the latter usually disappear as the disease, which is exceedingly slow in its course, subsides.—Reapers' ceratitis, inflammation of the cornea caused by the irritation of sharp spicules of grain which wound the eyes of reapers. — Vascular ceratitis, inflammation of the cornea cacompanied by a formation of new blood-vessels beneath the conjunctiva and in the onter layers of the cornea: usually a precursor of pannus.

Cerato-angioma (ser"a-tō-an-ji-ō'mā), n. [NL.,

cerato-angioma (ser "a-tō-an-ji-ō'mä), n. [NL., also kerato-angioma.] Same as *angioceratoma. Ceratobranchial of the fifth arch, one of a pair of bones, usually bearing teeth, situated just behind the gill-arches of fishes: they represent a fifth arch, the inferior pharyngeal arch. See pharyngeal. Starks, Synonymy of the Fish Skelcton, p. 519.

Ceratocampa (ser-a-tō-kam pā), n. pl. [NL.,

 ζ Gr. κέρας (κερατ-), horn, + κάμπη, caterpillar.]
 A genus of moths typical of the family Ceratocampidæ, formed by Harris to contain the regal walnut-moth, now known as Citheronia regalis.

ceratocampid (ser-a-to-kam'pid), n. One of the family Ceratocompidæ.

Ceratocampidæ (ser -a-tō-kam'pi-dē), n. pl. [NL., < Ceratocampa + -idæ.] A family of American moths, containing only a few genera, but very striking forms, like the regal walnutmoth, Citheronia regalis, whose larva is known as the hickory horned devil.

ceratoconus (ser"a-tō-kō'nus), n. [NL., also keratoconus; < Gr. κέρας (κερατ-), horn, + κῶνος, cone.] A form of staphyloma corneæ, of the same nature as buphthalmos, in which the bulging of the cornea has a conical shape.

Also called conical cornea.

ceratoderma (ser"a-tō-der'mā), n. [NL., also keratoderma; (Gr. κέρας (κερατ-), horn, + δέρμα, skin.] Disease of the skin marked by horny thickening of the epiderm's.

threkening of the epiderm's. ceratodermia (ser"a-tō-der'mi-ā), n. [NL., also keratodermia.] Same as *ceratoderma. ceratohyalin (ser"a-tō-hī'a-lin), n. [Also keratohyalin; \langle Gr. $\kappa \ell \rho a \varepsilon$ ($\kappa \epsilon \rho a \tau$ -), horn, + $\nu a \lambda o \varepsilon$, glass, + $-i n^2$.] A peculiar substance which forms the granules in the stratum granulosum of the substance which seridermia. of the epidermis.

ceratohyaline (ser "a-tō-hī'a-lin), α. [Also keratohyaline; ⟨ Gr. κέρας (κερατ-), horn, + ναλος, glass, + -inel.] Of glassy appearance and horny consistence, as the cells in the stratum grannlosnm of the skin.

ceratoid. I. a. 3. Shaped like a horn. II. n. Same as coruca.

ceratolysis (ser-a-tol'i-sis), n. [NL., also ker-atolysis; ζ Gr. κέρας (κέρατ-), horn, + λέσις, loosening.] 1. Loosening and partial separation of the epidermis from the deeper layers of the skin. 2. At reply of the horn, 1 see 2. Atrophy of the horny layer of the skin. of the epidermis.

ceratoma (ser a -tō'mä), n.; pl. ceratomata (-ma-tä). [NL., \langle Gr. $\kappa\epsilon\rho\alpha\varsigma$ ($\kappa\epsilon\rho\alpha\tau$ -), horn, + -oma.] A horny growth. Also spelled keratoma.

ceratitic (ser-a-tit'ik), a. [ceratite + -ic.] ceratomalacia (ser"a-tō-ma-lā'si-ā), n. [NL., Pertaining to or having the characters of the genns Ceratites.

| Ceratite + -ic. | ceratomalacia (ser"a-tō-ma-lā'si-ā), n. [NL., Pertaining to or having the characters of the also keratomalacia; ζ Gr. κέρας (κερατ-), horn, μαλακία. softness.] Softening of the cornea. ceratomania (ser"a-tō-mā'ni-ā), n. [NL, \langle Gr. $\kappa\epsilon\rho ac$ ($\kappa\epsilon\rho a\tau$ -), horn, + $\mu avia$, madness.] In regetable teratol, the abnormal production of horn-like or hooded structures in flowers.

> tometer; ζ Gr. κέρας (κερατ-), cornea, + μέτρον, measure.] A device for determining the irregularities in curvature of the cornea, and the resultant astigmatism.

ceratomycosis (ser"a-tō-mi-kō'sis), n. [NL., also keratomycosis; 〈 Ġr. κέρας (κερατ-), horn, + μύκης, fungus, + -osis.] Inflammation of the cornea associated with a fungoid growth.

Lancet, July 11, 1903, p. 101. ceratophore (ser 'a - tō - tōr), n. [Gr. κέρας (κερατ-), horn, + -φορος, < φέρειν, bear.] An organ or a region bearing cerata, as in certain worms

ceratophyllaceous (ser/a-tō-fi-lā'shius), a. Belonging to the plant-family Ceratophyllaceæ; resembling or pertaining to the genus Ceratophyllum

ceratophyllin (ser-a-tof'i-lin), n. [Ceratophyll-um + -in².] Same as *atraric acid. ceratophyllous, (ser"a-tō-fil'us), a. [NL. ceratophyllus, ⟨ Gr. κέρας (κερατ-), horn, + φίλλον, leaf.] In bot., horn-leaved; having long, slender. der, pointed léaves.

Ceratopogon (ser-a-tō-pō'gon), n. [NL. (Meigen, 1803), ζ Gr. κέρας (κερατ-), horn, + πώγων, beard.] Α nota-

ble genus of midges, of the family Chironomidæ, containing verý minute species which bite severely. C. nocivum is the punky, well known to hunters and fishermen in the north woods of New England and in Canada See mulky. See punky.

Ceratopogon stellifer, highly magnified. (U. S. D. A.) Ceratops (ser'a-

tops), n. [Gr. $\kappa \epsilon \rho a \epsilon$ ($\kappa \epsilon \rho a \epsilon$ ($\kappa \epsilon \rho a \epsilon$ ($\kappa \epsilon \rho a \epsilon$), horn, $+ \delta \psi$, face.] A genus of dinosaurian reptiles from the Laramie Cretaceous beds of America. The skull carried a pair of large horn-cores and the body was covered with dermal scutes.—Ceratops beds, in geol., a name given by Marsh to deposits of the Laramie Cretaceous in Wyomme, hecause of the abundance of the dinosanrian reptiles Ceratops contained in them.

Ceratopsia (ser " a-top'si-ä), n. pl. [Gr. κέρας (κερατ-), horn, + όψις, view, appearance.] The Ceratopsidæ considered as a suborder.

ceratopsid (ser-a-top'sid), a. and a. I. a. Pertaining to or having the characters of the Ceratopsidæ.

II. One of the Ceratopsidæ.



Skull of Triceratops, a typical member of the family Ceratopsida.

ceratinoid (se-rat'i-neid). a. [ceratin + -oid.] ceratoiditis (ser"a-toid'tis), n. [NL., also kesembling ceratin or horn in physical or chemical structure. Also keratinoid.
ceratinose (ker'a-ti-nôs). n. [Also keratinose; (ceratin + -ose.] An albumose derived from ceratinous (ser-at'i-nus). a. [Gr. κεράτινος, of horn, ⟨κερας (κερατ-), horn.] Having a horny structure or consistency.

Ceratiomyxa (se-rat'i-ō-mik'sā), n. [NL. (Schröter, 1889). ⟨ Gr. κεράτινο, dim. of κέρας, (κερατ-) horn. + μίξα, slime.] A genus of myxomyvetous fungi having the spores white or yellowish and developed on the outside of the plasmodium. C. mueida occurs on logs, producing small tufted, branched white fructifications.

Ceratinoid (se-rat'i-neid). a. [ceratin + -oid.] ceratoiditis (ser"a-toid'itis), n. [NL., also Ceratopsidæ (ser-a-top'si-dē), n. pl. [NL., also cerato-iridocyclitis; ⟨ Gr. κέρας (κερατ-), horn, + μις (ipid-), iris, + κίκλος, circle, + -itis.] Inflammation of the cornea, tries, and ciliary body.

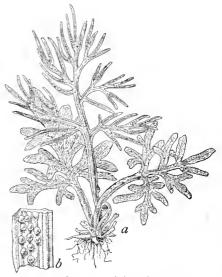
Ceratiomyxa (se-rat'i-ō-mik'sā), n. [NL. (Schröter, 1889). ⟨ Gr. κεράτιον, dim. of κέρας, horn, + μίξα, slime.] A genus of myxomycetous fungi having the spores white or yellowish and developed on the outside of the plasmodium. C. mueida occurs on logs, producing small tufted, branched white fructifications.

Ceratopida (ser-a-top'si-dē), n. pl. [NL., also cerato-iridocyclitis; ⟨ Gr. κέρας (κερατ-), horn, + μίμς, μίτς, dim. of κέρας, length (κερατ-), horn, + μίμς, μίτς, lind and cornea. (ceratopterida) + -aceæ.] A family of annual alarge horn over each eye. There was sometimes a striceratops, Torosaurus, and Algathaumas.

Ceratopida (ser-a-top'si-dē), n. pl. [NL., also ceratoinis such species as Triceratops, Torosaurus, and Algathaumas.

Ceratopida (ser-a-top'si-dē), n. pl. [NL., also ceratopterida (ser"a-top-iritis; (Gr. κέρας (κερατ-), horn, + μίμς, μίτς μίτς (lind) (ser"a-top-iritis; (Gr. κέρας (κερατ-), horn, + μίμς, μίτς (lind) (ser"a-top-iritis; (Gr. κέρας (κερατ-), horn, + μίμς, μίτς (lind) (ser"a-top-iritis; (Gr. κέρας (κ

Ceratopteris (ser-a-top'te-ris), n. [NL. (Brongniart, 1821), ζ Gr. κέρας (κερατ-), horn, +



Ceratopteris thalictroides.

a, an entire plant showing habit; b, portion of a fruiting branch enlarged to show the sori. (Drawn from Engler and Prantl's "Pflanzenfamilien.")

 $\pi \tau \epsilon \rho i \varsigma$, a fern. The allusion is to the antierhke appearance of the fertile fronds.] A genus of floating ferns, constituting the family Ceratopteridaeeæ. C. thalietroides, the only species, occurs in Florida and Louisiana and widely in the tropics.

ceratopycnidium (ser"a-tō-pik-nid'i-um), n.; pl. ceratopycnidia(-ä). [Gr. κέρας (κερατ-), horn, + NL. pycnidium.] A horn-shaped pycnidium such as is produced by species of Apiosporium.

Ceratosaurus (ser *a-tō-sâ'rus), n. [Gr. κέρας (κερα--), horn, + σαίρος, lizard.] A genus of dinosaurian reptiles of great size, from the Upper Jurassic rocks of Colorado. They were characterized by a large skull with a median horn and over-hanging prefrontals, very short and small fore legs, large hind legs, and extended tail. The animal had the aspect of a kangaroo, standing erect on its hind legs with the help of its tail. It attained a length of 20 feet.



Nose-horned Lizard (Ceratosaurus). After a restoration by Knight

ceratoscope (ser'a-tō-skōp), n. See *kerato-

ceratoscopy (ser-a-tos'kō-pi), n. See kera-

Geratostomella (ser″a-tō-stō-mel'ā), n. [NL. (Saccardo, 1879), ζκέρας (κερατ-), horn. + στόμα, mouth, + dim. -ella.] A genus of pyre-

nomycetous fungi having small globose, mostly superficial perithecia provided with slender elongate necks. The asci are ovoid and the spores one-celled and hyaline. The name refers to the resemblance of the neck of the perithecium to a horn. The species are saprophytic on timber. C. pilifera causes a blue color on lumber. See *bluing, 4.

ceratotrich (sē-rat'ō-trik), n. [NL. ceratotrichium, (Gr. κέρας (κερατ-), horn, + $\theta \rho i \xi$ ($\tau \rho (\chi -)$, hair.] A horny, flexible, fibrous, unjointed, and usually unbranched fin-ray of Elasmobranchii and Holocephali.

ceratotrichium (ser"a-tō-trik'i-um), n.; pl. ceratotrichia (-ä). [NL.] Same as ★ccratotrich.

ceratorrichia (-a). (AL.) Same as *cratorrichia. In the Elasmobranchii and Holocephali, and probably also in the Acanthodii and Ichthyotomi, these rays [dermal fin-rays] are unjointed, occasionally branched and composed of a fibrous substance of horny consistence without bone-cells. When placoid scales are present, they are quite independent of the rays and more superficial. The author calls these rays "Ceratorrichia." Their origin is unknown, but for the present they must be considered as special developments of the connective tissue.

Jour. Roy. Micros. Soc., Oct., 1904, p. 519.

ceraunian (se-râ'ui-an), a. Same as ceraunic. ceraunograph (se-râ'nō-grâf), n [Gr. κεραυνός, thunder, + γράφειν, write.] An instrument by means of which the occurrence of a thunderstorm or of lightning is chronographically recorded.

recorded.

In the Annual Report for 1901-02 of St. Ignatius College, Cleveland, Ohio, the Reverend F. L. Odenbach publishes an appendix on the work of his meteorological observatory during the past year. This begins with an account of his new lightning recorder, or ceraunograph.

The various parts of the instrument were a relay, a telegraph sounder, a coherer, choking coil, two hatterles, a recording drum, or chronograph, a copper collector on the roof of the college, and a copper wire leading from it down to the instrument in the observatory.

U. S. Monthly Weather Rev., June, 1902, p. 313.

ceraunophobia (se-râ-nō-fō'bi-ä), n. [NL., Gr. κεραυνός, thunder, + -φοβία, ζ φοβεῖν, fear.] A morbid fear of thunder-storms.

ceraunoscopy (se-râ-nos'kō-pi), n. [Gr. κεραυνοσκοπία, < κεραυνός, thunder, + σκοπεῖν, view.] Divination by observation of lightning.

Cerberic (ser'be-rik), a. Of or pertaining to Cerberus; resembling or befitting Cerberus. cerbiretin (sér-bi-re'tin), n. [eerberin.]

amorphous citron-yellow compound formed by the hydrolysis of cerberin.
cercarial (ser-kā'ri-al), a. [cercaria + -all.]

Of or pertaining to a cercaria or larval distome. **cercocystis** (ser-kō-sis'tis), n. [Gr. κέρκος, tail, + κύστις, bladder (cyst).] A tailed cysticercoid.

cercopid (sér'kō-pid), a. Of or belonging to the homopterous family Cercopidæ.
cercopod (sér'kō-pod), n. [Gr. κέρκος, a tail, + ποίς (ποδ-), a foot.] In the phyllocarid and allied forms of Crustacea, one of the two caudal spines addicing and activalists. spines adjoining and articulated to the terminal segment or telson.

Cercosporella (sér'kō-spō-rel'ā), n. [NL. (Saccardo), 〈Gr. κέρκος, tail, + ΄ σπορά, seed (spore), + dim. -ella.] A genus of parasitic hyphomycetous fungi having simple or branched hyaline fertile hyphæ and elongate many-celled hyaline conidia. C. persica attacks

peach-leaves. See frosly *mildee.

cerealism (sē'rē-al-izm), n. [cereal + -ism.]

The practice of eating nothing or little but

cereals.

cerealist (sē'rē-al-ist), n. [cereal + -ist.] One who makes a special study of cereals; a botanist or agriculturist who is versed or engaged in the production of edible grains: as, A. B., cerealist of the United States Department of Agriculture.

cerealose (se're-a-los), n. [cercal + -ose.] mixture of dextrin, maltose, and glucose

formed by the action of glucose on starch. cereal-rust (se're-al-rust'), n. Any one of the species or varieties of rust which attack the cereals, wheat, oats, rye, etc., especially Puccinia graminis and its varieties.

Gerebellar gait, an irregular gait associated with disease of the cerebellum.

cerebellic (ser"ē-bel'ik), a. Same as cere-

cerebellifugal (ser"ē-be-lif'ū-gal), a. [L. cerebellum, cerebellum, + fugere, flee, + -al.] Moving in a direction away from the cere-

cerebellipetal (ser "ē-be-lip'e-tal), a. [L. cerebellum, cerebellum, + peterc, seek, + -al.]
Moving in a direction toward the cerebellum. cerebellopontile (ser-\(\bar{c}\)-bel-\(\bar{c}\)-pon'til), u. [L. cerebellum, eerebellum, + pans (pont-), bridge, + ile.] Relating to the cerebellum and the pons Varolii. The occurrence of a tumor in the cerebellopontile angle in many of these cases of sarcomatosis was mentioned, and the question of operation was raised.

Med. Record, July 11, 1903, p. 77.

Cerebral apophysis, diabetes, flexure, meningitis. See *apophysis, etc.—Cerebral neurasthenia. Same as cerebrusthenia.—Cerebral organ, one of the sensorgans in nemertcans and gephyreans. It is a ciliate neuroglandular pit found at the side of the head, in close relation to the hinder part of the brain.—Cerebral pneuronia stunger. monia, sinuses. See *pneumonia and *sinus.-bral trigone. Same as fornix cerebri.

bral trigone. Same as fornix cerebri.
cerebralgia (ser-ē-bral'ji-ā), n. [NL., < L. cerebrum, brain, + Gr. ἀλγος, ache.] Severe

and deep-seated headache.

cerebrational (ser-e-brā'shon-al), a. [ccre-bration + -ul.] Relating to cerebration or brain-action.

cerebration + -ist.] One of a former school of philosophers who, at a time when the anatomy of the brain was but little known, held that the brain is the seat of all mental processes. Buck, Med. Handbook, II. 300.

cerebriform cancer. See *caneer. cerebrifugal (ser-\varrho-irifugal), a. [L. cerebrum, brain, + fugere, tlee, + -al.] Passing from the brain: said of nervous impulses and nerve-fibers.

cerebripetal (ser-\(\bar{c}\)-brip'e-tal), a. [L. cere-brum, brain, + petere, seek, + -all.] Passing toward the brain; said of nervous impulses Passing and nerve-fibers.

cerebrobuccal (ser e-bro-buk'al), a. [L. eere-brum, brain, + bucea, mouth, + -al.] Pertaining to the cerebral and the buccal ganglia: as, the cerebrobuccul connective in mollusks. Parker and Haswell, Text-book of Zool., 1, 679. cerebrology (ser-ē-brol'ō-ji), n. [L. cerebrum, brain, + Gr. -λογία, < λέγειν, speak.] The science of the brain in its anatomical, functional,

and pathological relations. cerebromalacia (ser*ē-brō-ma-lā'si-ā), n. in pairs and devoid of muscle-banners.

[NL., < L. eerebrum, brain, + μαλακία, softness, < μαλακός, soft.] Same as softening of rived from wax.—Ceric acid, an amorphous acid. the brain.

cerebromeningeal (ser "ē-brō-me-nin' jē-al), a. [L. cerebrum, brain, + Gr. μήνιγξ, membrane, + -e-ul.] Relating to the brain and its membranes. Med. Record, Feb. 7, 1903, p. 226,

cerebromeningitis (ser"ē-brō-men-in-ji'tis), n. [NL., < l. cerebrum, brain, + NL. meningitis.] Inflammation of the brain and its membranes. cerebrometer (ser- \hat{e} -brom'e-ter), n. [L. exrebrum, brain, + Gr. $\mu\hat{e}\tau\rho\sigma\nu$, measure.] A device for recording variations in the volume of the brain under special conditions. cerebropleural (ser "ē-brō-plö'ral), a.

cerebrum, brain, + NL. pleura + -al.] A term applied to the ganglion formed by the union of the cerebral and the pleural ganglia in cer-

of the cerebra and the prema gangia in certain lamellibranch mollusks.

The supra-esophageal ganglion of Anodonta is usually regarded as representing both the cerebral and pleural ganglia, and is commonly spoken of as the "cerebro-pleural."

Nature, Oct. 29, 1903, p. 623.

cerebropsychic (ser/e-bro-si/kik), a. [L. cerebrum, brain, $+ \psi v \chi \dot{\eta}$, mind.] Relating to the cerniture (ser'ni-tūr), n. brain as the organ of the mind, together with -iture. The right word we its functions as such.

Victims of spinal injury concussion and cerebro-psychic hock.

Alien. and Neurol., Feb., 1903, p. 21.

cerebroscopy (ser-\(\bar{e}\)-bros'(\(\bar{e}\)-pi), n. [L. cerebrum, brain, + Gr. -\(\sigma\)core (\sigma\)core (\(\delta\)core (cerografy, n. A simplified spelling of cerogram, brain, + Gr. -\(\sigma\)core (\sigma\)core (\(\delta\)core (or cerografy, n. A simplified spelling of cerogram, traphy.

Examination of the fundus of the eye for the purpose of obtaining data concerning the circle (cerolin (ser'\(\bar{e}\)-lin), n. [Gr. \(\delta\)p\(\delta\)core (wax, + -ol + -in^2.] A fatty substance found in yeast. purpose of obtaining data concerning the circulation of blood in the brain.

cerebrose² (ser'ē-brōs), n. [L. cerebrum + -08c.] A variety of sngar, isomeric with glucose, found in brain-tissue.

cerebroside (ser'ē-brô-sīd), n. [cerebrose + -ide¹.] One of a group of decomposition-products of protagon, of the type of cerebrin.

cerebrospinant (ser "ē-brō-spi nant), n. [Cere-brospin(al) + -ant.] A therapeutic agent which acts upon the brain and the spinal cord. cerebrosuria (ser″ē-brō-sū'ri-ā), n. [NL, ζ cerebrose + Gr. σὐρον, urine.] A form of diabetes in which the urine contains cerebrose.

Cerebrum abdominale, the abdominal brain or solar

ceremonial. I. a.—Ceremonial stone, in archaeol., a somewhat indefinite term applied to any one of a large class of variously shaped stone implements, many of which are finely finished and show great care in their manufac-ture. They have been variously classified and subdivided, but their use is almost entirely conjectural.

The so-called *ceremonial stones* are variously subdivided and named by different writers. They are supposed to have been devoted to religious, superstitious, medical, emblematic, or ceremonial purposes; to be badges of authority, insignia of rank, tokens of valorons deeds, or

perhaps some sort of heraldic device; in short, the uses to which they might, in their different forms, be assigned, are limited only by the imagination.

Smithsonian Rep., 1892, p. 115.

3. A prehistoric stone implement supposed to have been used for ceremonial

He (Mr. Moorehead) called attention to the necessity of an archeological nomenclature for the various 'unknown forms' in slate and granite which have hitherto been called 'eremonials' — a meaningless term in the opinion of the author.

Science, Jan. 24, 1902, p. 124.

ceremonialist (ser-ē-mō'ni-al-ist), n. [cere-monial + -ist.] One who favors or is given to eeremonial observances in religion; one who lays stress on external forms in religious worship; a ritualist.

ceremonialize (ser-ē-mō'ni-al-īz), v. t.; pret. and pp. ceremonialized, ppr. ceremonializing. [ceremonial + -ize.] To make ceremonial or ritualistic.

Ceremony, *n*.—To stand upon ceremony, to be punctilions or insistent on the due observance of polite usages, or formalities.

Vou know I never stand upon ceremony with such peo-le. Jane Austen, Northanger Abbey, viii.

cerer (ser'er), n. [cere, v., + -cr1.] One who ceres a corpse, or wraps it in cereeloth.

ceres a corpse, or wraps it in cerecion.

cerevisial (ser-ç-vis'i-al), a. See *cervisial.

ceria³ (se'ri-ā), n. [NL. ceria, < cerium (which

see).] Cerium oxid: used in small proportion,
with thoria or thorium oxid, in the mantles of Welsbach incandescent gas-lamps.

cerianthid (ser-i-an'thid), n. One of the Cerianthidæ, as the vestlet.

Cerianthidea (sē"ri-an-thid'ē-ä), n. pl. (1. cera (Gr. κηρός), wax, + Gr. ἀνθος, flower, + -id-ea.] An order of Zoantharia. It consists of solitary forms which retain the primitive bilateral symmetry of the zoöid, without a skeleton, and with numerous mesenteries which are arranged symmetrically in pairs and devoid of muscle-banners.

rived from wax.—Ceric acid, an amorphous acid, $C_{42}H_{68}O_{13}$, formed by the action of nitric acid on cerin. cerigerous (sē-rij'e-rus), a. [L. cera, wax, + gerer, bear.] 1. Producing wax.—2. lu ornith., having a cere: same as cerate. cerilla (thā-rēl'ya), n. [Sp., < L. cera, wax: see cere.] A match; a wax taper. [Spanish

America.]

cerinin (ser'i-uin), n. [Gr. κήρινος, ζ κηρός, wax, +-in².] A wax-like or fat-like substance obtained from the lignite of Gerstewitz near Merseburg in Germany.

cermatiid (ser-mat'i-id), a. and n. I. a. Of or belonging to the myriopod family Cermatiidæ.

II. u. One of the Cermatiidæ.

cern² (sérn), v. i. [L. cernere, decide, judge:
see concern, decern, discern, etc.] To elect
and make known an intention to enter upon an inheritance: a modern term used in reference to Roman law.

cernier (ser-nya'), n. [F., connected with Sp. cherna.] The stone-bass.

[lrreg. cern, v., -iture. The right word would be cretion, \langle L. cretio(n-).] The act of formally resolving to enter upon an inheritance: a modern term used in reference to Roman law.

thas laxative properties.

ceroline (ser o-lin), n. [Prob. < L. cera, wax, + ol(cum), oil, + -inc². The allusion would be to the waxy or oily character of these plants which prevents water from adhering to their leaves.] Either of the two American jewel-weeds, *Impations aurea* and *I. biflora*.

Ceromya (ser-o-mi'ā), n. [NL., \langle Gr. $\kappa \tilde{\eta} \rho$, heart, $+ \mu \tilde{\nu} c$, a musele.] A genus of extinct pelecypods with elongate-cordate inflated valves and edentulous hinge: abundant in Jurassie rocks.

ceroplast (sẽ τρ-plast), n. [Gr. κηρός, wax, + $\pi \lambda \omega \sigma \tau \delta \varsigma$, $\langle \pi \lambda \dot{\alpha} \sigma \varepsilon \omega v$, form.] A mold, properly in wax, but sometimes in other substances. De Morgan.

ceroplasty (sē-rō-plas'ti), n. Samo as ceroplastic.

cerosic (se-ro'sik), a. [ceros(in) + -ic.] Derived from cerosin.—Cerosic acid, a crystalline acid, $C_{24}H_{48}O_2$, obtained by heating cerosin with soda-lime. cerosiline ($s\bar{c}$ - $r\bar{o}$ 'si-liu), n. [cerose + -il + - inc^2 .]

Palm-tree wax from the common Andes waxpalm, Ceraxylon andicola, or from the Klopstock palm, Klopstockia cerifera. It softens easily, but melts only at a temperature above 102-105° C. It is used for candles.

cerotene (ser'ō-tēn), n. [cerote + -cnc.] A solid hydrocarbon, C₂₇Il₅₄, obtained by the distillation of Chinese wax. It melts at 57-

cerotin (ser'ō-tin), n. [ccrot(ic) + -in².] Same as *ccryl alcohol, C₂₇H₅₅OH.
cerotype (ser'ō-tip*), n. [Gr. ληρός, wax, + τεπος, type.] The art or process of engraving through a coating of prepared wax spread over a smooth plate from which a printing

surface can be produced by the plaster process

of stereotyping or by electrotyping.

cerous (se'rus), a. [cer(ium) + -ous,] In

chem., containing the metal cerium with apparent triad valence: as, cerous sulphate, ecrous oxid, etc.

cerro (ther'ro), n. [Sp. Pg., a hill, ridge.]

hill; a ridge; a hogback.
cert., certif. Abbreviations (a) of certificate; (b) of certify; (e) of certified.

(b) of certify; (c) of certificed.

Certainty, n.—Objective certainty, properly, certainty in sense l. It consists in the accordance of the real facts with an assertion that might be made. Venn (1834-83) uses the term, in a sense closely approaching that of reality, for that character of a fact which consists in its not only being independent of our opinion as to its truth (which constitutes its reality), but also in its heing independent of our spatial and temporal relation to it.—Of a certainty, assuredly; beyond doubt. Dam. it is.

certifiable (ser'ti-fi-g-bl), a. Capable of being certified or attesfed: as, certifiable results. certificate, n. 2. (b) An official written representation that some act has or has not been done, or that some event has occurred, or that some formal legal requirement has been fulfilled. It usually issues from some court for the purpose of giving notice of things done in the court, or to anthorize or warrant some act upon the part of some other court or judge. (c) A document used in the British custom-house by which certain goods formerly imported can be exported and the duties merly imported can be exported and the duties paid upon importation refunded.—Attorney's certificate. See *attorney!.—Andt certificate. See *audit. Certificate of merit, a certificate issued to an enlisted man who has distinguished himself in service. It is granted by the President of the United States upon the recommendation of the corps or regimental commander and entities the hearer to extra pay. His name is also enrolled in the annual Army Register.—Certificate of service, a certificate issued by the War Department to replace a certificate of discharge lost by a soldier. Judge's certificate, in Eng. law practice: (a) A written statement of the indge presiding at a trial that a party is entitled to costs. (b) The opinion of the court, signed by the judges, upon a question of law submitted to them by the charactlor for their decision.—Tax certificate. Same as tax deed or tax lease (which see).

certificator (sér'ti-fi-kã-tor), n. One who certifies; one who makes or gives a certificate.

certificatory (ser-tif'i-kā-tō-ri), a. and u. I. a. Of the nature of a certificate; that serves to certify: as, a letter certificatory, or written testimonial.

II. n. A letter certificatory.

cerulean, a. II. n. 1. Blue; cerulean color,-2. A blue-stocking. [Humorous.]

Oh! ye, who make the fortune of all books! Benign Ceruleans of the second sex! Who advertise new poems by your looks, Your "imprimatur" will ye not annex?

ceruleite (sē-rö'lē-īt), n. [cerule(an) + -ite2.] A hydrated arseniate of aluminium and copper, occurring in bright blue clay-like masses: found in Chile.

cerulic (se-ro'lik), a. [L. cærul(us), blue, +
ic.] Of a blue color. Cerulic aetd, an acid of
doubtful identity supposed to be formed by the oxidation of caffetannic acid by the alr.

sup-chafter.

cet. par. An abbreviation of the Latin ceteris
paribus (which see).

cetylid (se'til-id), n. [cetyl + -id².] A deriv-

cerulignol (sē-rō-lig'nōl), n. [L. cærul(us), blue, + lign(um), wood, + -ol.] The methyl ether of 3, 4-dihydroxypropylbenzene, $110.\tilde{C}_6$ $11_3(C_311_7)OC11_3$. It is an oil with an odor which resembles that of creosote; it boils at

cerulin, n.

ceruminal (se-rö'mi-nal), a. [cerumen (min-)

Certuninal (Se-Fo mi-init), a. [certunen (min-) + -all.] Same as extinations.
 Cervical canal. See *eanott. Cervical cross, a structure, on the embryo of Pentastona Iranioides, shaped like a raised cross and situated in a cup-shaped groove. It is the trace of the so-called 'dorsal cone' which connected the two chifmons thickenings surrounding the embryo. Cervical flexure, glands, ligaments, pregnancy. See *hexure, etc. Cervical triangles. See anterior triangle of the neck, under triangle. Cervical vertebræ. See vertebra. 1 (b).

cervico-axillary (ser″vi-kō-ak'si-lō-ri), a. Per- C. G. S.

taining to both the neck and the axilla.

cervicodorsal (ser*vi-kō-dôr'sal), a. [L. cercir, neck, + dorsum, back, + -all.] Relating Chinese; (c) of check (in chess).

to the neek and back. The cervicodorsal region comprises the neek and back; the cervicodorsal vertebre are those of the neek and thorax considered collectively. Cervicoscapular (ser*vi-ko-skap*n-lir), a. [L. have to a life to be a life to

cerrix, neck, + scapida, shoulder-blade.] Pertaining to both the neck and the scapula.

cervicothoracic (ser vi-ko-tho-ras'ik), a. ecrrix, neck, + thorax, chest, thorax.] Relating to the neck and thorax, considered collectively. Proc. Zoot. Soc. London, 1903, p. 272. cervisial, cerevisial (ser-, ser-ē-vis'i-nl), a.

L. cervisia, beer.] Relating or pertaining to heer.

cervisious (ser-vis'i-us), a. Same as *cervisial. cervisious (ser-vis '-iis), a. Same as *cerrisant. cervoid (ser'void), a. [3], cerris, a deer, + Gr. libog, form.] Deer-like; resembling a deer, Ceryl alcohol, a white crystalline alcohol, Cerli₅₅, Gl, occurring in Chinese wax as the ester of cerotic acid. It melts at 79° C. When fused with caustic potash it yields cerotic acid. Also called ecrotin.—Ceryl ester, an ester derived from ceryl alcohol and an acid. Chinese wax, or cerotin, is the ceryl ester of cerotic acid.

Cespitellose (ses-pit'e-lös), a. Somewhat tufted.

cespitin (ses'pi-tin), n. [L. cæspes (cæspit-), turf, + -in².] An oily base, C₅H₁₃N, found in coal-tar and peat-tar.

Cessation of arms. See *arm2.

cession, n.—Benefit of cession. See *benefit.—Treaty of cession, a treaty by which territory is ceded or made over by one country or sovereign to another.

cestid (ses'tid), n. A ctenophoran of the family Cestida

Cestodariidæ (ses-tō-da-rī'i-dē), n. pl. \(\begin{align*} \text{"Cestodaria} + -ide. \] \(\text{ A family of \$Platyhelemintha}, \) of the order \$Cestoda, having the body
\(\text{ and } \text{ body}. \)
\(\text{ and } \text{ and } \text{ body}. \)
\(\text{ bod unsegmented and the generative organs not repeated. The family includes the genera Amphilina Archipetes, Caryophylleus, Gyrocotyle and Wageneria. Same as *Monazoa, 2.

Cestoidea, n. pl. 2. A group of tentaculate Ctemphora having a compressed, bandlike

body and containing the single family Cestidæ. cetane (sē'tān), n. Same as *hexadecane. C16-

ceteosaur (sē'tē-ē-sâr), n. [NL ceteosaurus, cetiosaurus, q. v.] Same as cetiosauriau.

Ceteosauria, n. See *Cetiosauria.

ceterach, n. 2. [cap.] A genus of small pin-

natifid polypodiaceous forns related to Asplenium. There are 3 or 4 species of like habit, the best known being C. Ceterach (Ceterach of the old herbalists, Aspleaium Ceterach of Linneus, or C. officinarum of most later writers), an Old World species long regarded as officinal.

cetiosaur (sē'ti-ē-sâr), n. [NL Cetiosaurus.] Same as cetiosaurian.

Cetiosauria, Ceteosauria (sē"ti-, sē"tē-ō-sâ'-[NL.: see Cetiosaurus.] An orri-li), n. pl. der or suborder of Dinosauria, which contains the largest members of the group. Synonymous with Sauropoda, Seeley, 1888, and Marsh;

mous with Sauropada, Seeley, 1800, and Marsh, antedated by Opisthocarlia, Owen, 1860.

Cetomimidæ (sē-tō-mim'i-dē), n. pl. [NL., < Cetomimus + -idæ.] A family of deep-sea fishes of uncertain relationship. Two species are known, each represented by a single specimen taken in the North Atlantic at a depth of over 1,000 fathoms.

Cetomimus (sē-tō-mi'mus), n. [NL., ⟨ Gr. κητος, whale, + μίμος, mimic.] A genus of deep-sea fishes. See *Cetomimidæ. A genus of

Egron, Don Juan, iv. 108.

[cernte(an) + -ite2.]

luminium and copper, ne clay-like masses:

[cels on overripe fruit and sometimes on Indian corn. Also called the brown fruit-chafer.—Melancholy ceto-ma, an American beetle, Euphoria melancholica, formerly placed in the genus Cetonia. Also called the melancholy placed in the genus Cetonia. Also called the melancholy san-chafer.

ative of cerebrin, of composition C₆₄H₁₂₀O₇₅. **Cevenole** (sev'ē-nōl), a. [F. Cérennes (mountains).] Of or pertaining to the Cévennes, in tains).] Of or pertaining to the Covenies, accounted France; specifically, relating to a type found in its most of man of western Europe, found in its most characteristic form in the Cévennes. The type The type is dark, very short-headed, and of short stat-

Ceylon borage. See *horage.
C. F. An abbreviation (a) of canto fermo, and (b) of chaplain to the forces.
cf. An abbreviation (h) of ealf (binding).
C. F. and I. An abbreviation of cost, freight, and insurance (which see, under *cost*).

An abbreviation of commissary-general

An abbreviation (a) of China; (b) of

An abbreviation (c) of clearing-house. chaboetra (cha-bö'trā), n. [Hind. chabūtrā.]
A paved or plastered terrace-platform attached a house or in a garden. [Anglo-Indian.] Yule and Burnell.

chabot (shii-be'), n. [F. chabot, dial. cabot, OF. cabot, lit. 'big-headed,' < 1.11. *capum, 1... caput, head: see chief.] The miller's thumb or bullhead: sometimes used in heraldry as a bearing.

chac-chac (ehäk'chäk), n. [Imitative of a light rattling sound.] A rude rattle, consisting of a bladder filled with loose objects, used by the negroes of the West Indies.

chackur (châk'er), n. [Also chauker, < Hind. Pers. chākar.] A servant; a menial servant; not now in use in India except in the (Hind.) phrase naukar-chackur, meaning 'the whole body of servants from the highest (naukar) to the lowest (chackur).' Yule and Burnell.

chacu-ayllu (chä "kö - ä ' ē - lyö), n. [Quichua chacu, the taking of wild animals by surrounding them; aylln, clan.] A dance of the indians of Pern and Bolivia, symbolizing the capture and killing of the viengna; also a rain-dance. chætigerous (kē-tij'e-rus), a. Bearing or provided with chata: as, the chatigerous seg-

ments of an annelid. Chætochloa (kë-tōk'lō-li), n. [NL. (Scribner, 1897), \langle Gr. $\chi u i \tau \eta$, mane, $+ \chi \lambda o \eta (\chi \lambda o a)$, grass.]

A genus of monocot-

yledonous plants of the family Poacea. See Setaria. chætoderm (ke'toderm), n. [NL. chietoderma.] One One of the Chætodermatidæ.

chætodontiform (kē-tộ-don fôrm), a. Having the form of a chætedenteid fish.

Chætomiaceæ (kö"tō-mi-ā'sē-ē), n. pl. [NL., < Chætomium + -aeeæ.] A family of pyrenomyeetous fungi named from the genus Chato-mium, and charac-terized by membranous superficial perithecia having the upper portion, especially, cov-ered with elengated, more or less branched hairs and simple dark-eol-ored spores.

a, a spike; b, mature spikelet with scales partially removed to show the grain; a flower-showing the plumose stigmas; d, a spikelet with brisdles, showing a second rudimentary standard flower. (Drawn from Engler and Prantl's "Pflanzenfamilien.") chætophoraceous (kē"tō-fō-rā'shius), a. [Chætophoraecæ

+ -ous.] Belonging or pertaining to the Chætonhoraceæ.

chætopodan (kē-top'ē-dan), a. [chætopod + -an.] Having the characters of the Chætopoda, Encyc. Brit., XXV. 452.

chætopterin (kē-top'te-rin), n. [Chætopter + -in².] A pigment found in Chætopterus. I Chaetonter-us Chætostroma (kē-tō-stro'mi), n. [NL. (Corda, 1829), ζ Gr. χαίτη, mane. bristle, + στρῶμα, covering.] A genns of hyphomycetous fungi having the conidiophores arranged in black pulvinate masses surrounded by black septate brist les. The conidia are one-celled and dark-colored. C. Sacchari occurs on withered spots on leaves of sugar-

chætotaxy (kē'tē-tak-si), n. [NL.,*ehætotaxia, \langle Gr. $\chi ai\tau \eta$, bristle, $+ \tau \dot{\alpha} \dot{\xi} i \zeta$, order.] The arrangement of bristles on the different parts of the body of dipterous insects.

This contains a careful exposition of the chætotaxy of the Muscidæ, which Dr. Hough considers one of his principal contributions to entomology.

Entomological News, 1903, p. 247.

chaf, r. and n. A simplified spelling of ehaff. C. G. An abbreviation (c) of captain-general; chafant (chā'fant), a. [chafe + -ant.] In her., (d) of captain of the guard; (e) of coast-guard, chafing; enraged; furious; applied to an energy. An abbreviation of centigram.

chafe-iron (chaf'i"ern), n. An iron affixed to the body or gear of a vehicle to protect it from injury by the wheel when the vehicle is turning.



chaff¹ (ehâf), v. t. [chaff¹, n.] **1.** To eut into chaff. See chaff¹, n., 2.

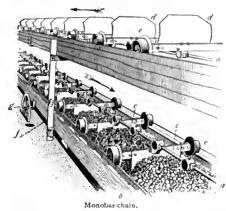
How long does it take to chaff a ton of ensilage? Return of [British] Ensilage Commissioners (1885), 1. 5.

2. To mix with chaff .- 3. To furnish with chaff.

chaguar (chā-guār'), n. [Native name.] A chain-cover (chān'kuv"èr), n. In an arithname in northwestern Argentina for the *caraguatà (which see).

chai (chī), n. [Also chy; Gipsy.] A Gipsy girl or woman.

chain, n. 8. Arns of recurved feathers adorning the neck of some breeds of pigeons, such as the jacobin.—9. An abbroviation of mountain-chain and volcanic chain,—10. A collection or continuum which has reference to a certain mode of correspondence such that no one individual or point corresponds to more than one individual or point, this mode of correspondence being thought of as a sort of mapping such that one part of the map may coincide with another, but no part of the collection or continuum mapped is represented twice over on the map. If the map is a part or the whole of what is mapped, that which is mapped is called a chain. Moreover, if P is any part of what is mapped, there may be many parts of the whole collection or continuum mapped, each of which contains P and is a chain. Now that chain which forms a part for the whole) of every possible chain that contains P is called the chain of P. The term (G. kette) was introduced by R. Dedekind, who restricted it to collections; but the idea had long before been derived by Ganss by generalizing the ordinary concept of a map. See *mapping. It is evident that if to P be joined the representation of P on the map, and also the representation of that on the map and so on endlessly, the sum of all these will be the chain of P.—Closed chain, in chem., several atoms united in such a manner ast of orm a ring. See *wyelfe compounds.—Ladles' chain [F. chaine des dames], a part of the second figure in a quadrille.—Lateral-chain theory. See *immunity and *receptor.—Monobar chain, a conveyer-chain composed of a series of straight bars foined together by flexible knuckle-joints which allow a certain amount lection or continuum mapped is represented



a a, chain; b, conveyor; cc. flights, pushing load; dc returning inverted; c, flanged wheels supporting flights an M dumping point in conveyor trough; g. control of dumper arrow, working direction; upper arrow, idle direction.

of lateral play in passing wheels and curves, while preserving a rigid connection in line with the movements of the conveyer. It is used with conveyers that employ flights to push the load along a fixed trough, the chain supporting the weight of the flights in both positions. See *conveyer and *flights in both positions See *chains stone under the form a chain in cends of which are not further united to form a ring.—St. Peter's chains. See *saint1.—Side-chain. Same as *receptar.—Silent chain, a trade-name of a power-transmission chain composed of a series of links placed in groups side by side and riveted to form a broad band; so-catled because of its noiseless action in passing over a sprocket-wheel.—Steeple-top chain, a conveyer-chain in which each link has a hood or cover. Two or more chains placed half-way between two front rivets are in singulated half-way between two front rivets as in staggered riveting. chain-road (chān'rōd), n. An underground wagon-way worked by an endless chain.

chain-tackle (chān'tak'l), n. A tackle in which a chain is used in place of a rope; a

chain-block (chan'blok), n. A trade-name of a hand-power hoist for lifting heavy weights; a chain-hoist. It is essentially a hoisting-tackle which employs blocks or gearing operated by hand or hy means of an endless chain. Two or more blocks are used for the hoisting-chains, and different types of gearing are used in the dozen or more types of block in common use. Some ferms of block are self-locking, and others use a rope instead of a chain—Chain-block crane. See *crane*2.

chain-board (chan'bord), n. In an arithmachine, a flat surface composed of flat, parallel, movable, endless chains bearing numbers in relief, and actuated manually by the use of a stylus.

chain-brake (chān'brāk), n. An early form of power train-brake in which the levers attached brake-shoes against the wheels were actuated by chains which were wound up on drums driven by the revolution of the axles of the chair, n. 2. (c) The office or dignity of chief driven by the revolution of the axies of the cur, These drums were made to revolve and wind up the chain on them by throwing in a friction-clutch which compelled them to turn with the revolving wheel and axie. The wheel was thus made to retard its own motion. When the claims were wound up tight, the clutch slipped enough to prevent breakage.

machine, a movable metal strip used to cover any one of the chains in the chain-board. See *cham-board.

chain-drive (chan-driv), n. A method of transmitting power from the motor of a motorcar or motor-eyelo to the driving-axle or drivingwheels by means of chains the links of which engage the teeth of sprocket-wheels: distinengage the teeth of sprocket-wheels: distinguished from belt-drive or shaft-drive. The chains are usually of the flat or block-claim type. Roller-chains are also much used, the plus passing through the center of short rollers which, by turning as the links pass on and off the teeth, greatly prolong the life of the chain and prevent wear on the elements which carry the stress of driving. Chain-drives may be single, when one chain only is used to connect the two shafts; or double, when one chain is used on each side, and cach wheel is separately connected by its chain to the differential or countershaft. The dexibility yet positiveness of the chain-drive adapts it for high-speed and high-powered cars, but it is much exposed to mud and dirt in service.

chain-feed (chān'fēd), n. In mach., a feed consisting of an endless chain running over sprockets: used for a great variety of purposes, such as feeding balks of timber to framesaws, hoisting ice, coal, etc., on inclined runways, and feeding metal pieces to tempering furnaces.

chain-fern, n.— Giant chain-fern, Woodwardia spi-nulosa, a western American ally of the old-world W. radicans.

chain-grapples (chân'grap"lz), n. pl. Sec $\star grapple$

chain-hoist (chān'hoist), n, 1, A lifting or hoisting apparatus in which the stress of lift-1. A lifting or ing the load is borno by a chain over pulleys or winding-barrels instead of by a rope. A form of power- or hand-hoist using a chain instead of having either hydrautic or pneu-matic pressure lift the load directly without pulleys or winding-barrel,

chaining-machine (chā'uing-mg-shēn"), n. machine for forming into links a long cotton warp or chain of yarn, to facilitate the handling of it in the processes of bleaching or dyeing. Sometimes called a chain-warping machine.

chainless, a. 2. In mach., without a chain: used to describe machines or vehicles in which at one time a chain-gear or chain-drive was used, but in which it has been replaced by direct gears and shafting: as, a chainless bicycle, a chainless motor-car, etc.

chain-oiler (chan'oi"ler), n. A device for the continuous oiling of a shaft, consisting of a loose, endless chain which hangs from the shaft, reaches down into a reservoir of oil, and, as it revolves with the shaft, carries oil up upon it as long as the shaft revolves.

chain-pillar (chān'pil'ar), n. In mining, a pillar of coal left to protect the gangway and

edge of the plate, instead of the second rivet chall (chal), n. [Gipsy.] A gipsy boy; a lad;

which a chain is used in place of a rope; a chain-hoist: a small hoisting-device much used in shops for raising heavy pieces by man-It is usually a differential-geared nal labor. tackle.

chain-tender (chān'ten "dèr), n. Same as \star sled-tender.

chain-trace (chān'trās), n. A chain used in place of a leather trace. In addition to a hook and ring at each end, it has, at a central point, a swivel which serves to keep it from becoming twisted.

chain-wall, n. A method of mining coal similar to that called variously pillar and breast, (which see under pillar), room and rance, pillar and stall, stoop and room, etc.

to the brake-beams and acting to press the chain-work, n. 3. Metal-work consisting of interlacing or intertwined rings or loops, as in chain-mail.

magistrate of a city or corporate town in England, especially of the City of London: as, an alderman below the chair is one who has not yet served as lord mayor.

The Lord Mayor, Alderman, and Principal Officers of the City of London. . . . All the above have passed the Civie Chair. Whitaker's Almanack, 1885, p. 251.

7. In glass-blowing, a seat of special construction in which the glass-blower sits, using the elongated and horizontal arms as supports for the pontil as he rolls it backward and forward; hence, the gang of men who work in and about

the point as he rous it buckward and forward; hence, the gang of men who work in and about such a chair, -Boatswain's chair, see *hontswata.

— Double chair, a short sofa long enough to seat two persons.— Electric chair, a chair designed to be occupied by a condenned criminal when put to death by electricity.— Locomotive chair, a wheel-chair or invalid's chair which can be operated by the occupant. See acheel-chair.

— Morris chair, a low, deep-seated chair, with that, almost straight arms which are continued backward for a little distance beyond the body of the chair and there notched on top, and a hinged back which may be placed at any angle and kept in position at that angle by a movable cross-bar or rod which rests in the notches. The cushions for the seat and back are separate and thick. So called because devised, as is alleged, by William Morris, the poet.—Obstetrical chair, a chair of special construction formerly in use for women during continement.—The Chairs!, the chairman and deputy chairman of the East India Company.—To appeal from the chair. See *appeal.—To take the chair, to assume the duties of pressiting officer at a meeting.—Whirling chair, a pivoted chair into which, formerly, unruly insane persons were sometimes strapped and whirled round rapidly to confuse and subdue them.

Chair-balance (chair bal*ans), n. A weighing

chair-balance (char'bal"ans), n. A weighing apparatus in which a chair-sent is suspended from the hook or movable part of a springbalance. The person to be weighted is scated in the chair, while the balance is supported overhead at a convenient height.

chair-board (char'bord), n. Same as chair-

chair-car (char'kar), n. A railroad-car fitted with reclining chairs, often used on night trains instead of a regular sleeping-car.

chairmaker (chār'nuā®kèr), n. A maker of chairs.— Chairmaker's bulrush. See American ★bulrush.— Chairmaker's saw. See ★sawl.

chairman, n. 3. One who wheels an invalid's or other similar chair.

or other similar chair.

Chaise, n.—Boston chaise, a two-wheeled carriage invented by Channecy Thomas of Boston, Massachusetts. The body, which is of the chaise-type, is suspended at the rear end upon leather braces attached to the ends of the shufts, which are bent to bulf-circles back of the shufts. These hulf-circles are attached to the axle by long, flat, half-elliptic springs. The portions between the spring-attachments pass under the axle without being connected with it.

chakanani (chā-kā-nā'ni), n. [Aymará of Bolivia.] A society of Indian dancers represent-

ing originally the warriors.

chakra (chā'krā), n. [Skt. chakra, a wheel, circle, etc.; see cycle.] A circle; a discus or mystic circle placed in the hands of pictured

Hindu gods. Also chackra. chakravartin (chä-krg-yär'tin), n. ISkt. chatravartin, turning on wheels, < chakra, wheel, + vartin, being, abiding, etc., < \sqrt{vrt}, turn, be, abide, etc.; see verse.] In Sanskrit myth., a universal sovereign, 'the wheels of whose chariot roll everywhere without obstruction.

> The portents troubled, till his dream-renders Augured a Prince of earthly dominance, A Chakravartin, such as rise to rule Once in each thousand years. Edwin Arnold, Llyht of Asia, i. 86.

a fellow.

chal² (châl), n. [Beng.] In India, husked rice. Chal., Chald. Abbreviations (a) of Chaldaic; (b) of Chaldean; (c) of Chaldee; (d) [1. e.] of chaldron.

chalana (chă-lă'nă), n. [Argentine.] A long, shallow, flat-bottomed boat used on the rivers of Argentina.

There were, besides, three chalanas, 22 feet long by 7 feet beam by 1 foot 9 inches deep.

Geog. Jour. (R. G. S.), XV, 599.

Chalarothoraca (kal-a-rō-thor'a-kā), n. pl. [NL., ζ Gr. χαλαρός, löose, + θώρας, breastplate, breast.] An order of Hetozoa in which the skeleton is composed of loosely arranged, isolated sificious spicules. It includes the genera Raphidiophrys, Acauthocystis, and Also chalarathoracida. others.

chalazian (ka-jū'zi-on), a. In bot., resembling or pertaining to a chalaza. See chalaza, 1. chalazodermia (ka-lạ-vō-dèr'mi-ä), n. (NL..

chalazodermia (ka-la-vō-dɨr/mi-ä), n. (NL.. ζ Gr. χάναζα, a hailstone, knot, inberele, + δέρμα, skin.] Same as dermatolysis.

chalazogam (ka-laz'ō-gam), n. which fertilization takes place through the chalaza, as in Casuarina.

chalazogamic (ka-laz/o-gam'ik), a. Character ized by chalazogamy.

chalazogamy (kal-a-zog'a-mi), u. [NL. ehalaza, chalaza, + Gr. -> $\alpha\mu u a$, $\langle \gamma \dot{\alpha} \mu o c$, marriage.] In bot., fertilization through the chalaza.

Chalcas (chal'kas), n. [NL. (Linnæus, 1767) prob. (in reference to the markings of the wood) \langle Gr. $\chi a \lambda \kappa \delta \varsigma$, copper.] A genus of dicotyledonous trees of the family Rulaceæ. The wood of C. paniculata, which shows brown veins and spots, is highly prized for knife-handles by the Malays. See Murrell 1997.

chalcedonize (kal-sed'ō-nīz), r. t.; pret. and pp. chalcedonized, ppr. chalcedonizing. [chalcedony + -ize.] To preserve in or replace by chalcedony: a term frequently applied to the fossils, especially the sponges, of the Chalk

chalchal (chäl-chäl'), n. [Argentine.] The name in Argentina of a tree of the soapberry family, Allophylus edulis, or of its edible fruit. It is found from southern Brazil to Argentina and yields a wood suitable for carpentry, cabinet work, and turning.

chalchuite (chal'chö-īt), n. [Nah. ehalchihuitl.] The bluish-green turquoise of New Mexico.

chalcidian², n. Blue yellow-cloaked chalcidian, a minute hymenopterous parasite, Signiphora flavopatiata, of the chalcidoid family Enegridae, which destroys the eggs of the purple seale of the orange, Lepidosaphes

chalcidid (kal'si-did), n. Of or belonging to the hymenopterous family Chalcididæ.

chalcidoid (kal'si-doid), n. and u. I. n. A member of the hymenopterous superfamily Chalcidoidea.

II. a. Of or belonging to the hymenopterous superfamily Chalcidoidea.

Chalcidoidea (kal si-dō-id ē-ā), n. pl. The Chal-

Chalcidoidea (kal'sl-qo-iu e-a), n. p. Alconicidide eonsidered as a superfamily. chalcis-fly (kal'sis-fl), n. A hymenopterous parasitic insect, usually minute, belonging to the family Chalcidide.—Cecropia chalcis-fly, a large black and yellow American chalcidid parasite, the chalcidid parasite, and the chalcidid parasite. the family Challeddiae.—Cecropia chalcis-fly, a large black and yellow American chalcidid parasite, Spilochalcis marice, which attacks many large eaterpillars, and especially the cecropia, polyphenus and promethea larvæ.—Clover-seed chalcis-fly. Same as clover-seed vorm (which see, under **seed-vorm*). Chalcography, n. 2. A collection of engraved plates and prints. The chalcography of the Louvre was established by Louis XIV, and contains now, chart 6.00 relates from which

contains now about 6,000 plates from which impressions are still made and sold.

impressions are still made and sold. chalcoite (kal'kō-īt), n. [Irreg. $\langle \text{ Gr. } \chi a \lambda \kappa b \varsigma, \text{ copper, } + -i t^2 \rangle$] Same as chalcocite. chalcolamprite (kal-kō-lamp'rīt), n. [Gr. $\chi a \lambda \kappa b \varsigma, \text{ copper, } + \lambda a \mu \pi \rho o \varsigma, \text{ shining, } + -i t e^2.$] A niobate and silicate of zirconium, the cerium metals, calcium, and other metals. It occurs in dark brown to red octahedrons in southern Croscolard. Greenland.

chalcolite (kal'kō-līt), n. [Gr. χαλκός, copper,

+ $\lambda i\theta \omega c$, stone.] Same as torbernite. **chalcolithic** (kal-kō-lith'ik), a. [Gr. $\chi a \lambda \kappa \delta c$, copper, bronze, + $\lambda i \theta \omega c$, stone, + -ic.] Pertaining to the bronze age, as the third of the four periods of man's development, namely, the paleolithic, the neolithic, the chalcolithic, and the iron.

The Neolithic vase-types, the oldest of which is the well-known red and black ware, gradually progress until they merge insensibly into those of the earliest dynastic period, which was Chalcolithic in character, i.e. copper had then come into general use. Nature, Sup., Nov. 6, 1902, p. iii.

chalcosin (kal'kō-sin), n. [Gr. $\chi a \lambda \kappa \delta c$, copper, + -ose + -in².] Same as chalcocite. chalcotheca (kal-kō-thē'kä), n. [Gr. $\chi a \lambda \kappa \delta$ -

considering (kal-kō-thē'kā), n. [Gr. $\chi a\lambda κ b$ - $\theta \eta κ \eta$, $\langle \chi a\lambda κ b c$, bronze, $+ \theta \eta κ \eta$, depository.] In Gr. antiq., a depository for bronzes. The chalcotheca on the Acropolis at Athens is known from inscriptions of the fourth century B. c. Traces of the building are supposed to have been found immediately west of the Parthenon. It contained the bronze treasures of Athena, and various arms and other objects belonging to the state. There were similar buildings at Delos and elsewhere.

chalet, n. 4. [Short for F. chalet de nécessité.] A more or less ornamental structure placed at convenient points in cities, containing urinals, lavatory, etc., for public convenience; a mod-

ern street 'necessary.'

chalice, n. 3. A cup-shaped globe for diffus-ing light. W. L. Dibdin, Public Lighting, p. 406. chalice-flower (chal'is-flou "er), n. The daffodil' so named from the cup-shaped tube of the inner perianth. chalinine (kal'i-nin), a. [Chalina + -incl.]

Resembling a sponge of the genus Chalina: as, the chalinine type of fiber. E. A. Minchin.

chalk, n., 1. In geological nomenclature the term through the chalk has been employed with a variety of meanings. In the English subdivisions of the Cretaceous system the Chalk constitutes the upper part of this system, resting on the Galt and Greensand, which in turn lies on the based division or Wealden. The Chalk is divided into (1) chalk constitutes the upper part of this system, resting on the Galt and Greensand, which in turn lies on the based division or Wealden. The Chalk is divided into (1) chalk chalk marl and the Gray Chalk of Folkestone; (2) Middle Chalk without flints, including the Nodular Chalk Chalk without flints, including many local subdivisions. The Red Chalk is a ferruginous rock lying at the base of the Chalk series in northern England. See the extract.

The White Chalk of England and northwest France forms one of the most conspicuous members of the great Mesozoic suite of deposits. It can be traced from Flam-borough Headin Yorkshire across the southeastern counties borough Headin Yorkshire across the southeastern counties to the coast of Porset. . . . Composed mainly of crumbled foraminifera, urchins, mollusks, etc., it must have been accumulated in a sea tolerably free from sediment, like some of the foraminiferal coze of the existing sea-bed. There is, however, no evidence that the depth of the water at all approached that of the abysses in which the present Atlautic globigerina coze is being laid down. Indeed, the character of the foraminifera, and the variety and association of the other organic remains, are not like those which have been found to exist now on the deep floor of the Atlantic, but present rather the characters of a shallow-water fauna. Geikie, Textbook of Geol., p. 827.

noor of the Atlantic, but present rather the characters of a shallow-water fauna. Gelice, Textbook of Geol., p. 827.

Brown chalk, umber or chalk colored with umber.—Chalk mixture, chalk suspended in flavored water, used in the diarrhea of infants, and as an antacid.—Chalk process, a process for producing a printing-surface in relief from a block or plate of prepared chalk. The design is written or painted in an ink that hardens the chalk, and the surface not to be printed is removed with a stiff brush. From the surface so prepared a stereotype is made.—Comanche Peak chalk, in geol., a subdivision of the Lower Cretaceous deposits of Texas. See Comanche **series* and Caprina **timestone.—Fullers' chalk. Same as fullers' carth.—Margate chalk, in Eng. geol., a local division of the Upper Cretaceous series, typically exposed at Margate in Kent, but attaining greater thickness (400 feet) in the Hampshire basin. It occupies about the middle of the Upper Cretaceous, being underlain by the Broadstairs and St. Margaret's chalk and overlain by the Norwich chalk. On the continent it is known as the marsupite zone from the prevalence of the crinoid Marsupites.—Red chalk. (b) [cap.] In Eng. geot., a hard, nodular chalk, tinted red-brown by iron oxids, which in Norfolk, Lincolnshire, and Yorkshire lies at the base of the Lower Chalk or Cenomanian and rests on the Upper Necomian Carstone. It is regarded as representing the Galt which is otherwise absent in this region.

chalk-body (châk'bod"i), n. white earthenware of a dry, chalky appearance, quite thin and exceedingly brittle, made by Robert Wilson at Hanley, England, toward the end of the eightcenth century. The mark was the letter C beneath a crown.

chalk-gland (châk'gland), n. In bot., a multicellular gland which deposits calcareous matter, the secretion escaping through a special channel called a water-pore. Such glands are found in some saxifrages and other plants. challenge, n. 10. In the East Indies, an exception taken by a ryot to the assessment of a neighbor's holding when it is less than that of his own poorer holding, accompanied by an offer to take over the neighbor's holding at a higher assessment, and a claim for the assessment on his own to be correspondingly re-

duced.—Challenge for cause, in law, same as principal challenge (which see, under challenge, 9).

challie (chal'i), n. [Ceylon.] A subsidiary copper coin of Ceylon, equal to one twelfth of

an anna or one pie.

Chalmers, superintendent of the mine, in Brazil. where the mineral was found.] A sulphid of iron and copper of a bronze-yellow color, re-

in general. See charqui.
chaloupe (shä-löp'), n. [F.: see shallop.]
Same as shallop.

chaluka, n. Same as *halukah.

Chalukyan architecture. See *architecture. chamæcephalous (kam-ệ-sef'a-lus), a. Same as chamæecphalic.

chamæconchic (kam-ē-kong'kik), a. Characterized by or exhibiting chamæconchy. Biometrika, Aug., 1902, p. 460.

chamæconchous (kam-ē-kong'kus), a. Same as *chamæconchic.

chamæconchy (kam-ē-kong'ki), n. [Gr. χαμαί, low, $+ \kappa \delta \gamma \chi \eta$, shell.] In *anthrop*., a low form of the orbits, showing an orbital index of 80 **chameleon-moth** (ka-mē'lē-on-môth), n. and less: used by German anthropologists.

and less: used by German anthropologists. Biometrika, March-July, 1904, p. 214.

chamæcranial (kam-ē-krā'ni-al), a. [Gr., χαμαί, low, + κρονίου, skull.] Characterized by or exhibiting a low skull, of a length-leight index of 70 and less: used by German anthropologists. Biometrika, March-July, 1904, p. 240.

The chametric (ka-mel'er-in), n. [G. chamälerin, chamelerin (ka-mel'er-in), n. [G. chamälerin, n. [G. chamälerin, n. [G. chamälerin, n. [G. chamälerin, n. [G. chamælarin, n. [G.

chamæcrista (< Gr. $\chi a\mu ai$, on the ground, low, + L. crista, crest (referring to NL. Crista pavonis, 'peacock's crest,' a pre-Linnæan name of a cæsalpiniaceous plant), + E. oid.] Having the characters of Cassia Chamæerista; belonging to the section Chamæcrista of the genus Cassia.

Chamædaphne (kam-ē-daf'nē), n. [NL. (Moench, 1794, adopted from Buxbaum, 1728), ⟨ Gr. χαμαιδάφνη, dwarf laurel, ⟨ χαμαί, on the ground, + δάφνη, the laurel.] A genus of ground, + δάφνη, the laurel.] A genus of dicotyledonous shrubs of the family Ericaceæ. See Čassandra.

chamæprosope (kam-ĕ-pros'ōp), n. [Gr. χαμαί, low, + πρόσωπον, face.] A skull or a person with a broad, low face. Deniker, Races of Man, p. 60.

chamæprosopic(kam/e-pro-sop'ik), a. [Chamwprosope + -ie.] Characterized by or exhibitg chamæprosopy. Buek, Med. Handbook, VII. 231.

chamæprosopy (kam "ē-pros-ō'pi), n. [As ehamæprosope +-y³.] In authrop., a low form of face, having a facial index of 90 and less.

Biometriku, Aug., 1902. p. 434.

chamasite, n. Same as kamacite.

chamber, n. 8. The place where the moneys due the government (municipal or other) are The the government (mumcipal or other) are received and kept; the treasury; the chamber-lain's office. See chamberlain, 2.—Aqueous chamber. See chambers of the eye.—Chamber of accounts, a French court analogous to the English Court of Exchequer. It exercised jurisdiction over matters relating to the revenue of the crown.—Chamber of dais (or deas), a best bedroom. [Scotch.] Chamber process.—Jerusalem chamber, a large hall in the deanery of Westminster Abbey, noted as the meeting-place (1) of the famous Westminster Assembly of Divines (1643-52); (2) of the British and American Divines who in 1870 and following years produced the present Revised Version of the Bible; and (3) of the Upper House of Convocation of the Province of Canterbury: so named from its tapestried walls which show many scenes from Jerusalem. Here Henry IV. died.—Lead chamber, a large receptacle made of sheet-lead burned together without solder (autogenous soldering), and supported outside by wooden or iron framework; used in the manufacture of sulphurie acid.—Moist or wet chamber, a circular glass dish with a glass cover for bacteriological cultures in a moist atmosphere.—Suprabranchial chamber, in bivalve mollusks, a cavity on the dorsal side of the gills into which the water-tubes open and through which the water passes into the cloaca.—Vitreous chamber, the hollow of the eyeball between the crystalline lens and the retina, containing the vitreous lumor. received and kept; the treasury; the chamber-

chamber-acid (chām'hėr-as"id), n. and a. Sulphuric acid in the condition and of the strength at which it is removed from the lead chambers in which it is commonly produced on the large scale, before it has been purified and concentrated by evaporation.

II. a. Having the character and strength of the acid as removed from the lead cham-

bers: as, of chamber-acid strength.

Chambered fibers, ovary. See *fiber1, *ovary.—Chambered veins, mineral veins with large cavern-like development.

chamber-gas (chām'ber-gas), n. The gas, or mixture of gases, contained in the large lead chambers commonly used in the manufacture of sulphuric acid. G. Lunge, Sulphuric Acid, L 369.

chalmersite (châ'mer-zit), n. [Named for G. chamberlain, n. 3. In Great Britain, the factor or high steward of a nobleman or great landed proprietor.

chamberlainry (chām ber-lān-ri), n. The office of chamberlain; chamberlainship.

lated in form to chalcoeite.

chalona (chä-lô'nä), n. [Origin not ascertained.] In South America, sun-dried meat crown durisl-vault.

office of chamberlain; chamberlainship. [Seotch.]

chamber-tomb (chām'ber-tom), n. An underground hurisl-vault. ground burial-vault.

chameleon, n. 4. Same as chamæleon, 3. —Chameleon top. See *top3.

chameleon-fly (ka-me⁷1ē-on-fli"), n. A European black and yellow stratiomyid fly, Stratiomys ehamæleon. According to Goedart it will live nine months without food, hence the popular and specific

chameleonic (ka-mē-lē-on'ik), a. [chameleon + -ic.] Given, like the chameleon, to frequent change; inconstant; fickle.

Poets—the best of them, are a very cameleonic race. Shelley, Letter to Mr. and Mrs. Gisborne, July 13, 1821. [N. E. D.

vernacular name for a South African noctuid

chamfer-bit (cham'fér-bit), n. A bit in which a cutting-edge, set at an angle with the axis of the tool, cuts a conical entrance by chamfering the edges of the cylindrical hole. Also chamfering-bit.

chamfered joint. See *joint.
chamfering - machine (cham' fer - ing - mashen"), n. A machine for cutting the bevel on a nut or on the head of a bolt and for rounding off the end of a bolt. It is customary to use a turret-machine for this purpose.

chamfer-plane (cham'fer-plan), n. chamfer-plane (cham'fer-plān), n. A plane in which the forward section, or end, is movable np or down for convenience in making chamfers. By the use of supplementary sections, with special bits, the plane can be used

to make ornamental chamfers, chamiform (kam'i-fôrm), a. Same as chamæ-

chamois, n. 3. A very seft leather made from chamois, n. 3. A very soft leather made from sheepskin; the flesh side of split sheepskin (the grain side being used for fancy leather). This is the so-called 'chamois-skin' sold in the shops. Probably no genuine chamois-skins are used commercially.

4. In textile coloring, a name semetimes applied to iron buff because of its resemblance in color to chamois-skin. See iron buff, under things?

See **atopa.*

chamois (sham'wo or sham'i), r. t. To tan or dress by means of repeated oiling and milling. Flemming, Practical Tanning, p. 165.

chamotte (sha-mot'), n. [Origin not ascer-

ments of already burnt fire-clay, as of the old saggars of a porcelain factory, ground to pow-der and used, in admixture with fresh fire-clay, in making new vessels. The old material serves to diminish the shrinkage of the mix-ture in the burning. Thorpe, Diet. Applied Chem., I. 502.

champ (champ), a. [Related to champ¹, r.] chancellorism (chan'sel-or-izm), n. [chancellor Hard; firm: as, a good champ road. [Prov. + -ism.] Government through a chancellor,

Hard; firm: as, a good champ road. [Prov. Ebg.; chiefly Surrey and Sossex.]

champaca (chäm-pä'kä), n. [Philippine Sp. champaca (Tagalog and Bisaya sampaga), <
Skt. champaka: see champak.] A name in the Philippines of Michelia Champaca, a tree whose fragrant, magnolia-like flowers together with these of Canangium odoratum, yield an essential oil highly valued for perfumery, and when digested in coceanut-oil yield the Maeassar oil of commerce. See champak and Mi-

champacol (cham'pa-kel), n. [champaca + -ol.] A camphor-like body, $C_{15}H_{26}O$, found in the oil of champaca wood, and in guaiacum

wood. Also called quaiol. Champagne frappé. See frappé.—Whey champagne an effervescing alcoholic beverage made from the whey of milk by fermentation of the lactose or milk-sugar which it contains. S. P. Sadtler, Handbook of Indust. Chem., p. 265.

champagnize (sham-pān'īz), v. t.; pret. and pp. champagnized, ppr. champagnizing. [champagne + -ize.] To impart a champagne quality to (other wines).

A very interesting apparatus [has been invented] by which wines are rapidly champagnized without resorting to the compileated processes that have hitherto heen employed. The apparatus is christened the "Monssogène" ("froth-generator"), and is used by the inventor for champagnizing his wines in order to render them salable at more remunerative prices.

Sci. Amer., Dec. 31, 1904, p. 477.

champana (chām-pā'nā), a. [Pg. champana, also champao. = Sp. champan, < Malay sam-

pan.] Same as sampan, champart (shan-part), n. [F.: see champerty.] In French law, a particular estate in land granted upon condition that the grantee shall share crops with the granter.

champi (ehäm'pē), n. [Quichua champi, a club (of wood, lead, etc.).] Copper, bronze, and brass. [Bolivia.] champion¹, n. 4. An animal or a plant to

which, or to its owner, the first prize has been awarded in any general competition, as at a horse-, cattle-, bench-, or other show, or which has taken a number of prizes.—5. Some variety of vegetable, fruit, implement, or the like, for which the highest excellence is claimed.

II. intrans. To play the champion.

championship, n.—Amateur golf championship, open golf championship. See *nolf.

Champlain epech. Same as *champlain period.—Champlain period, in Amer. geol., a term introduced by E. Hitchcock, and adopted and proundigated by bana, for the period of general northern continental depression concomitant with or effecting in part the final hreaking np of the ice-sheet of the glacial period, and characterized by high level deposits and beaches and terraces on the margins of present active or extinct waterways and the sea. It is one term in the Quaternary, Post-plicoene, or Pleistocene era, as employed in America, being equivalent to the post-glacial or terrace epoch, but graduating imperceptibly into the recent or human period.

Champosaurus (kam-pō-sā/rus), n. A genus of extinct rhynchoeephalian aquatic reptiles of large size, with elongate sneut and double-

of large size, with elongate snout and doubleheaded eervical ribs. Its remains have been found in the Lower Eocene of Europe and America and also in the Laramie Cretaceous beds.

champy (cham'pi), a. [champ + -y1.] Made miry and soft through much trampling by eattle

or the like: as, a champy way. chamsin, n. See khamsin.

Chan., Chanc. Abbreviations of chancellor.

chance, n.—A fighting chance, a possibility of succeeding by putting forth great effort. [Colloq.] chanceable, a. 2. Non-essential; merely inei-

dental and subsidiary; accidental or of the nature of an accident.

Reason . . . thinketh pleasuer a chanceable thing to onestee. Cheke, Matt. xvi. 68. N. E. D. honestee.

chancellorate (chan'sel-or-at), n. Same as

chancellorshin. chancelloress (chan'sel-or-es), n. A chancellor's wife. [Nonee-word.]

'Is it pleasing to go to bed . . . and have your wife nag-nagging you because she has not been invited to the Lady Chancelloress's soirée? Thuckeray, Lovel the Widower, iii.

+ -ism.] Government through a chanceller, as in Germany.

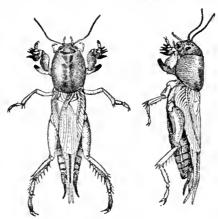
chancre, n. 2. In bot., a disease of the tobaccoplant attributed to Bucillus æruginosus.

On a bacterial disease of tobacco chancre or "anthrac-nose," by M. G. Delacroix. This disease is due to a bacillus, not previously described, and to which the name of Bacillus æruginosus is given, on account of the color-ation it develops in certain culture media. Nature, Sept. 17, 1903, p. 492.

chancred (shang'kerd), a. Affected with a chanero

chancriform (shang'kri-fôrm), a. Of the nature of a chancre; having the form of a chanere.

changa (chan'gä), n. [Porto Rico.] A mole-erieket of Porto Rico, Scapteriscus didactylus,



Changa (Scapteriscus didactylus). Adult, somewhat enlarged. (Chittenden, U. S. D. A.)

which is very injurious to cultivated crops. It also occurs in Georgia.

also occurs in Georgia.

The "changa"... a kind of a mole cricket, which has become very troublesome. It is helieved this insect was introduced from South America in gnano. It is very destructive to a wide range of plants during the period of their early growth, being especially troublesome to vegetables on sandy soils; it is also destructive on the sugar and tobacco plantations, often necessitating numerous replantings.

Yearbook U. S. Dept. Agr., 1901, p. 510.

chamelognathous (kam-ē-log'na-thus), a. [Gr. γαμηλός, low, + γνάθος. jaw.] In anthrop., having a low face, with reference to the distance from alveolar point to nasion. Sergi.
 championize (cham'pi-on-īz), v.: pret. and pp. championizing. [champion is as, to championized, ppr. championizing. [champion is as, to champion is as, to champion is as, to champion is as to champion is

Any disturbance in a given portion of the lithosphere of the equilibrium thus existing must result in shearing movement if the disturbance be small, and in flow in a given direction if the relief in that direction from pressure is great and rapid enough. In the former case we should get "metataxic change," in the latter schistosity.

Nature, May 4, 1905, p. 8.

Rayless change, in radioactivity, a transformation of matter following the same law as other radioactive changes, but unaccompanied by the emission of α or β -rays.—Secondary change, specifically, in biol., a modification of a life-history that is new or kenogenetic as contrasted with one that is ancestral or paleogenetic.

When these things are so, who shall determine which developmental process is ancestral and which is due to secondary change?

Bateson, Materials for the Study of Variation, p. 9.

change, r. f.—To change front. (a) To change, by military movement, the direction in which the men of a command face. (b) To change, radically, one's views on any question.—To change the rounds, in golf, to play the course the reverse way, in order to preserve the greens. This is done at St. Andrews every alternate week during the active season. the active season.

wheels, or the train of them, by which the speed of the feeding or cutting apparatus of a lathe or other machine-tool is adjusted relatively to the speed of the spindle or the work. In screw-cutting on cylindrical pieces, the work must turn as many times, while the tool is moving laterally through one inch, as it is desired that there shall be threads to the inch. This adjustable relation is secured by the characteristics. by the change-gear.

change-house, n. 2. In mining, a house in which miners keep their mine clothes and make the necessary changes of clothing before entering and on leaving the mine: usually provided with facilities for bathing, and for drying the mine clothes.

change-pinion (chānj/pin/yon), n. One of a train of gears, on a roving- or spinning-machine, which is substituted for another of a different size to effect a change in the speed

of the drafting-rolls. change-point (chanj'point), n. Any point in the movement of a mechanism where the motion is not constrained and where it is therefore possible for a part of the mechanism either to stand still or to take some other motion than that which is desired or intended, An tion than that which is desired or intended. An example of this is the dead-center of a single-crank engine. The usual method of constraining the meckanism is to duplicate as much of it as is necessary, and so to place the duplicate parts that they are completely constrained while the other similar parts are at a changepoint; for example, an engine baving two cranks on the same shaft at right angles to each other.

changer, n. 4. One who keeps a change-house.

[Seetch.] change-speed (chānj'spēd), n. 1. The mechanism by which a constant speed of rotation in a motor may cause a varying speed of the driva motor may cause a varying speed of the driving-wheels, and hence of the whole of the motor-vehicle. While the speed of the motor can be varied, the range of limits is not very wide, and when the speed diminishes at the motor the power diminishes also. The change-speed gearing gives greater leverage to the motor for hill-elimbing while exerting its maximum effort; it enables the same motor on a level to drive the car at a high rate of speed when developing the same power as on the grade. Usually in motor-cars there are three speeds forward and one speed backward, the latter a slow and powerful combination. In motors where the motor fluid drives the piston by expanding at constant pressure up to a point of variable cut-off, change-speed gears are not required. auired

The train of wheels used in feedmechanisms for lathes and similar tools, by which changes can be made in the relative number of turns per minute for the driving and driven shafts. Sometimes called *change*getr.—Change-speed gear, a mechanism for changing the speed of a motor-car or other machine.—Change-speed lever, a lever for operating the speed-changing device of a motor-car or other machine.

change-valve (chānj'valv), n. A valve for

admitting water under pressure into one or more cylinders of a hydraulic crane or lift, in more cylinders of a hydraulic crane or fift, in order that the power used shall be proportional to the load. In its usual form it is a slide-valve which by continual motion in one direction opens successively all the ports, but which, being under the control of the operator, can be stopped at will. changing-note (chān'jing-nōt), n. See *note1. Chanidæ (kan'i-dē), n. pl. [NL., < Chanos, typical genus, +-idæ.] A family of large isospon-

channel1, n. 9. A tubular passage or duct, such as the pancreatic duct, for liquids or fluids: as, the poison *channel* of a snake's fangs. Sometimes called *canal*.

channel-bar (chan'cl-bar), n. Any bar rolled so as to have a lengthwise channel or groove: thus an 1-beam is a channel-bar channeled on both sides. Channel-bars are much used in steel structural work for columns, and in shipbuilding for frames and deck-beams.

channel-board, n. 2. In organ-building, same

as *argore-board.

channeling-machine, n.—Rounding-and-channeling machine, a channeling-machine which also automatically rounds and shapes the sole; a sole-fitting and channeling machine.

channel-iron, n. 3. In a vehicle, the concave channel-iron, n. by the concerns the parish, attached to it in repute.—Proprietary chapel, a private chance consecrated, it may be converted to accular time.

metal tire of a wheel which is used with rubher tires

channelization (chan "el-ī-zā'shon), n. Same as *canalization, 3.

paced by churchwarden. N. E. D.

The problem is how to give normal emotional channelization, the safety valve of this biological heredity.

C. J. France, Amer. Jour. Psychol., M11. 405.

channel-turner (chan'el-tèr'nèr). n. In shocmanif., a machine for turning back the flap of the channel cut in the leather to leave it open for the sewing machine; a channel are pecially of L. bicandalis of the family data. channel-turner (chan'el-ter"ner). n. In shocopen for the sewing-machine; a channel-flap turner or opener. After sewing, the channel-flap is turned back and cemented down by a channel-laving machine.

channelway (chan'el-wa), n. 1. A streamway; a stream-course.

At Aswan, foundations had to be laid across *channel-ways* through which, in times of flood, the river rushed with a speed of 15 miles an hour.

Sci. Amer., Feb. 28, 1903, p. 148.

2. The pipe which connects a condenser with

an air-pump and through which the condensed steam and air are drawn off.

chant, n.— **Mountain chant,** a ceremonial of the Navaio Indians connected with their Shamanistic rites. Smithsonian Rep. 1891, p. 434. **chantage** (shän-täzlı'), n. [F., a fig. usc of chantage, a method of fishing in which the and destructive inflammation of the joints.

Smithsonian Rep. 1891, p. 434.

chantage (shāň-tizh'), n. [F., a fig. usc of chappar(shāň-tizh'), n. [F., a fig. usc of chappar(shāň-tizh'), n. [F., a fig. usc of chappar(shāň-tizh'), n. [Perhaps N. Amer. Indian.] Same as ★squaw-fish.

fish is seared within reach by means of noise, chapper (cha-pē'), n. [Hind. chhāṇ, chhāṇā, a chanter, sing, etc.: see chapt, r.] The exmark, stamp, impression: see chop⁴.] In India, tortion of money under threat of making public charges of misconduct or the like; blackmail.

chanterelle, n. 3. In the hurdy-gurdy, one of the two strings which may be stopped by keys and on which inclodies are played. proper tone is usually the G above middle C.

chantey, n. Specifically, a song sung by sailors when at work together, as in hauling or heaving, etc., the better to secure a united pull at the proper moment, which is indicated by the ictus or heat of the music. See **chan-**

chantey-man (shan'ti-man), n. The leader of a chantey, who usually sings one or two lines while the men get their breath and a new hold, the crew singing the chorus and pulling together when the accented syllable is reached. chantier (shan-tyā'), n. A Canadian-French equivalent of shanty².

chaogenous (kā-oj'e-nus), a. [Gr. xáoç, chaos, -γενής, -born.] Chaos-born: as, chaogenous

deities.

chaos, n. 5. [cap.] The void of unformed matter personified and deemed by some among the Greeks as the oldest of the gods.

chaotheistic (kā"ō-thē-is'tik), a. [Gr. χόος, chaos, + θεός, god, + -ist-ic.] Identifying chaos or the primordial unformed matter with God. F. Hall. N. E. D. chaotical (kō-ot'i-kal), a. Same as chaotic.

chap⁵ (chap), n. The act of picking and choesing; selection: as, 'chap and choice.' [Scotch.] See chap⁵, v. t.

An abbreviation (b) of chaplain. chapao (chā-pou'), n. [Turki chapāo, a plundering, chapāul, a plundering raid, a charge of cavalry, llind. chkāpā, a raid, a night attack.]
A raid, foray, or night attack (of Baluchis or Afghans).

The chapaos of the Baluchis have been checked by the division of Baluchistan between Persian and British rule.

Nature, Aug. 28, 1902, p. 418.

chaparejos (chä-pä-rā'hōs), n. pl. [Mex. Sp.] Strong leather breeches or overalls worn by horsemen, particularly by cow-boys, in the Western States, for protection against bushes and thorns. Generally abbreviated to chaps.

A bit farther on we saw some cowpunchers, or what seemed such, for they sat in cow saddles and wore chaparejos.

Forest and Stream, Feb. 21, 1903, p. 147.

chaparreras (chā-pā-rā'rās), n. pl. [Mex. Sp.] Same as *chaparcjos.

Same as *chaparcios.

Chapeau chinois, a jingle of small hells, mounted on a staff and frame, occasionally used in military music; a chinese pavilion (which see, under pavilion).

Chapel royal. (b) The body of clergy and assistants, including singers, attached to a royal count. The chapel royal of England dates from at least the fifteenth century.

— Minion chapel, a chapel which has never been consecrated, and which may be used, therefore, for other than religious purposes. — Mortuary chapel, an oratery or small chapel connected with a tomb and forming a part of the memorial structure; also, less properly, the chapel of a public cemetery. — Parochial chapel. (a) A chapel belonging to and within a parish, but apart from the parish church. (b) The place of worship of an ancient division of a parish, attached to it by custom or repute. — Proprietary chapel, a private chapel. Though consecrated, it may be converted to secular uses at any time.

holds the same office in a chapel (of the established church of England) as a churchwarden holds in a church: now commonly replaced by churchwarden. N. E. D.

pecially of L. bicaudalis, of the family Ostraciidæ, found in tropical seas.

chapl. An abbreviation of chaplain.
chaplet¹, n. 12. In foundry-work, a sheetmetal form used in adjusting the core in a
mold and fused into the casting when the metal flows into the mold.

chapmanship (chap'man-ship), n. The occupation or business of a chapman; buying and

selling; merchandizing.

chappa (chap'ā), n. [Origin not ascertained; perhaps W. African.] A disease of some natives of West Africa, characterized by multiple cutaneous nodules, which later ulcerate, and destructive inflammation of the joints.

a marked rupee.

chaps (chaps), n. pl. An abbreviated form of *chaparejos. [Western U. S.] chaptalization (chap*tal-ī-zā'shon), n. [chap-

talize + -ation.] In wine-making, a process of adjusting or correcting the percentages of free acid and sugar in the mnst of any vineyard in which, as in 'bad years,' the proportion has changed. Chaptal's method was to add the calculated weight of sugar and to neutralize the excessive acid by means of powdered marble. See *gallization. Sadtler, Handbook

marne. See *gantzanon. Sanaer, Handbook of Indust. Chem., p. 205.

chaptalize (chap'tal-īz), v. t.; pret. and pp. chaptalized, ppr. chaptalizing. [Chaptal, a French chemist, + -ize.] In wine-making, to adjust, improve, or correct the proportions of free acid and engage in the must. See *chaptal. free acid and sngar in the must. See *chaptalization.

chapter, n. 9. A division of the acts of Parliament of a single session .- 10. Head; subject; category: as, to have much to say on some

chapters.—Patristic chapters. See*patristic, a. chapter-house, n. 2. The house or building which a chapter of a college fraternity uses as

a club-house. [U. S.] chaqueta (chä-kā'tä), n. [Sp.: see jacket.] A jacket, particularly a leather jacket, worn by cow-boys as a protection when traveling through the chaparral. [Western and sonth-

western U. S.]
char², v. I. trans. 3. To scoreh; burn;
'singe' (liquids): as, to char the wort in brew-

II. intrans. To become charcoal.

Billets that blaze substantial and slow;
Pine-stump split deftly, dry as pith;
Larch-heart that chars to a chalk-white glow.
Browning, Heretic's Tragedy, at. 4.

char², n. 2. In sugar-manuf., concentrated sweet water or liquor highly charged with dis-

solved sugar.

char⁴, n.—Greenland char, the European char, Salvetinus alpinus.—Oregon char. Same as Dolly Varden

characetum (kā-ra-sē'tum), n.; pl. characeta (-tä). [Charac(cæ) + -ctum.] A zone of vegetation found in the cold deeper waters not far from shore, characterized by the Characcæ.

dylous fishes found in the warmer parts of the Chaparral lily, millet, pea. See *lily, *millet, characine2 (kar'a-sin), n. [Charac(ex) + -ine2, so called from the odor of Chara which it exhales.] A kind of camphor obtained from certain terrestrial algæ, as Palmella and Oscil-

charact, n. 2. A magical sign or emblem.

Dig under thy feet and thou shilt find a bow of brass and three leaden arrows, inscribed with talismans and haracts.

R. F. Burton, Arab. Nights, I. 125. characts.

character, n.—Acquired character, a change of structure or of function that is brought about in an organism during its individual life, as contrasted with one that comes to it from its parents through the egg from which it is born which it is born.

By acquired characters I mean those which are not preformed in the germ, but which arise only through special influences affecting the body or individual parts of it.

Weismann (trans.), Germ plasm, p. 392.

special influences affecting the body or individual parts of it.

Meismann (trans.), Germ plasm, p. 392.

Aggressive character, a peculiarity of color or form or marking that serves to favor an animal in its aggressions, namely, one that serves to conceal it from its prey, as contrasted with one that is protective and serves to hide it from its cnenics. — Aposematic character. See *aposematic.—Compound character, in biol., according to Bateson, a character which may either be transmitted entire as a single character, in inheritance, or broken up into its integral constituent characters or hypallelomorphs. See *hypallelomorph.—In Character. (a) With costume etc., appropriate to the rôle or part assumed: as, to sling a song in character. Hence—(b) Appropriate; fitting.—Out of character, a variance or out of keeping with the character or part assumed.—Protective character, in zoöl,, any peculiarity of form, color, markings, or habit which serves to hide its possessor from enemies.—Pseudaposematic, pseudepisematic, pseudosematic, recessive, sematic character. See *pseudaposematic, etc.—Signaling character, any characteristic of a dangerous, poisonous, or unpalatable organism which, when displayed, serves to warn or alarm enemies; an aposematic character. See *aposematic.—Wedge-formed characters, cuneiform characters. See cuneiform, 1 (a).

Characterial (kar-ak-tē 'ri-al), a. Pertaining to the characters of a darget of a characteristic power of a characteristic brows to enter our output of a drama).

One of Shakespeare's most wonderful gifts was his unlimited power of a *characterial* invention to suit any kind of plot.

Halliwell, Life of Shakespeare, p. 116.

characterist (kar'ak-ter-ist), n. [character + -ist.] 1. One who employs characts or magical signs.—2. One who depicts character, as distinct from a mere caricaturist or funmaker.

Mr. Du Maurier, characterist rather than caricaturist, gives this sheep face to his typical Duchess of Stilton, and to her two daughters

R. G. White, England Without and Within, p. 205, note.

characteristic. I. a.—Characteristic geometry.

See *yeometry.

II. n.—Characteristic of a surface, the curve of intersection of a surface with a neighboring aurface of the

characterology (kar*ak-ter-ol'ō-ji), n. [Gr. χαρακτήρ, character, + -λογια, < λέγειν, speak.] The science of character; the study of types, genesis, etc., of character; ethology.

In the process of emancipation from traditional and untenable views of man, an iconoclastic attitude towards all attempts at practical characterology and theories of constitution was probably the only safe procedure.

Amer. Jour. Psychol., July-Oct., 1903, p. 356.

character-plant (kar'ak-ter-plant), n. In phytogcog., that species, or one of the species, in a given plant-formation to which it owes its physiognomic character; a facies. charadriiform (ka-rad'ri-i-fôrm), a. Belong-ing to the order of birds known as Charadrii-

formes.

Charales (kā-rā'lēz), n. pl. [NL. (Lindley, 1833), < Chara + -ales.] An order of cryptogamons plants which contains the family Cha-

raceæ or Charaphyceæ only. See Characeæ. Charaphyceæ (kar-a-fis'ē-ē), n. pl. [NL., ζ Chara + φύκος, seaweed, + -cæ.] Same as Characeæ.

charbon, n. 3. In bot., a name formerly applied to the smut of wheat; also, sometimes applied to the black rot of the grape, especially

in France.—Charhon roux. See red *charcoal. charco (char'kō), n. [Sp. Pg.; origin unknown.] A pond or pool of standing water; a small lake.

charcoal, n.—Red charcoal, a kind of charcoal of a dark reddish-brown color, made by heating wood with the exclusion of air to a lower temperature than would produce ordinary black charcoal. The volatile matter is produce ordinary black charcoal. The volatile matter is not entirely removed. It is used in France in the manu-facture of sporting gunpowder, and recently in England in cocoa-powder for heavy artillery service.

charcoal (char'kol), v. t. [charcoal, n.] 1. To blacken, write, or draw with charcoal; execute in charcoal: as, to charcoal one's eyebrows.

And I decipher still Half a lame couplet charcoaled on the wall.

Thackeray (trans.), The Garret, st. 2.

2. To suffocate with the fumes of charcoal.

A shoemaker who was jealous of a young girl . . . because she wouldn't shut herself up in an air-tight three-pair of stairs, and charcoal herself to death with him.

Dickens, Nicholas Nickleby, xxxvii.

charcoaler (chär 'kō-lèr), n. A charcoal-burner; one who deals in charcoal.

Ah! friendless in death! Rude forest-hands fling On the *charcoaler's* wain What but now was the king F. T. Palgrave, Death in the Forest, st. 6.

charcoaling (char'kō-ling), n. Killing by means of the fumes of burning charcoal.

The other day the papers contained an account of a "wholesale charcoaling," in which a father, mother, and two children sought death in this way.

2 uck, Med. Handbook, VII. 555.

charcoal-pencil, n. 2. A little stick molded from a mixture of wood charcoal in powder. sain, or scarce paste, and a small quantity of saltpeter. When lighted at one end it continues to burn, and the red-hot point is used to lead a crack in thin glass, as of a tube or beaker, in any required direction, broken pieces of chemical apparatus being thus adapted to new uses. gum, or starch paste, and a small quantity of

charcoal-pig (char'kol-pig), n. A kind of pigiron made by using charcoal as a fuel to reduce or smelt the ore in the blast-furnace. It was formerly considered the best grade of iron, being free from sulphur and some other inpurities usually found in iron made with coal or coke as a fuel. Other forms of iron or steel, purified in the process of manufacture, have largely taken its place.

Charcot-Leyden crystal. See Charcot's crystals, under erystal.

Charcot's arthropathy. See *arthropathy. charcuterie (shär-küt-re'), n. [F., < charcuter, a pork-batcher, earlier chaircutier, charcutier, < chair cuite, cooked meat: chair, < L. caro, flesh, meat; cutte, CL. cocta, cooked.]

1. The occupation of a pork-butcher; the curing and dressing of pork in its various salable forms—liams, bacon, cutlets, sausages, etc.—2. Table delicacies of pork or into which pork largely enters.

charcutier (shär-kü-tyā'), n. [F.] A pork-

Chardonnet silk. See *silk.
Charegite (kar'ē-jīt), n. [Ar. khārijiyah, aliens, < kharaja, go out.] A member of a puritanical Mohammedan seet which dates from the seventh century.

The Charegite, for such was the seeming Marabout, dealt the Nubian a blow with the dagger.

Scott, Talisman, xxi.

charge, v. t. 16. To paint too heavily; to

over-express.

charge, n. 23. In ordnance, the powder contained in a bag or case in quantity suitable for charlatanish (shar'la-tan-ish), a. [charlatan + -ish1.] Savoring somewhat of the charlatan. loading a gun, or the powder filling the interior of a projectile. A service or ordinary charge is that ordinarily used in the gun. A reduced charge, containing less powder, is sometimes used in target practice to save expense. A bursting or shell charge is the explosive in the interior of a shell.—Effective charge, the amount of money required for or expended on the effective militant forces of a country, that is, on those fit for or actually engaged in service as distinguished from non-effectives, such as the retired, the pensioned, etc. Macaulay. chargé (shār-zhā'), n. Short for chargé d'affaires. charged, p. a. 3. In art, heavily painted; overexpressed.

chargé d'affaires. n. 3. An officer or other

chargeling (charj'ling), n. [charge + -ling1.] A young charge. See charge, n. 10.

At this period Jesuits stamp the future of their charge-ng flocks.

G. Meredith, Richard Feverel, xii. ling flocks.

chargeman (chärj-man), n. A workman who has charge of the men engaged in doing a cerlain piece of work; a foreman. In some establishments the chargeman is given a contract for the work which he directs, so that he will have the greatest possible interest in the speedy and economical performance of it. charging-box (charjing-box), n. A box in

which ore, scrap, pig-iron, fluxes, etc., are con-**charnockite** (chär'nok-it), n. [Named after veved to the furnace by means of a charging-Job Charnock, associated with the early hisveyed to the furnace by means of a chargingmachine.

charging-current (chär'jing-kur'ent), n. In elect., the current used in charging a storage

battery, condenser, or cable.

charging-machine (char' jing-ma-shēn"), n. A machine for delivering coal, ore, or metals to a furnace, gas-retort, or coke-oven. It is made in many different forms, all essentially loading-machines which take up the material snd push it by means of a ram into the furnace, retort, or oven; the ram distributes it, and is then withdrawn to permit the closing of the door. In gas charging-machines steam is some-

times used to blow the coal into the retort. In one sense a mechanical stoker is a charging-machine, but it is not usually classed as such. See mechanical stoker.

charging-scale (char'jing-skal"), n. A scale for weighing the various materials used in a blast-furnace. It has a series of beams, one for each kind of material. To obtain the right proportion, each beam is weighted to the amount required, and each load is made to balance the weight of its special beam, the object heing to mix the materials in the right proportions and weight and deliver each as rapidly as possible without disclosing the formula on which the combined proportions are based.

charging-spoon (char'jing-spon"), n. In mining, a hollow half-cylinder of copper or zinc at the end of a copper or wooden rod, used for introducing loose gunpowder in blast-holes nearly or quite horizontal. C. Le N. Foster, Ore

and Stone Mining, p. 161. charging-tube (charjing-tub"), n. Any tube for charging a chamber or tank with a fluid under pressure; specifically, a tube for chargunder pressure; specifically, a tune for charging an air-chamber on a pump with air. Water under a pressure greater than the atmospheric takes up air very readily; hence, some means should be provided for supplying air to the air-chamber on the discharge side of a pressure-pump.

Chari group. See *group!. chariotry (char'i-ot-ri), n. [chariot+-ry.]

1†. The art of charioteering.

Chariotry is one of the antiquated Modes of Chivalry. Heretefore, as it was used in Triumphs, so in field service and Games.

Aubrey, Remaines of Gentilisme and Judaisme, p. 120.

2. The soldiers who fought from chariots.

And deep ruts are yet visible on all the bogs, moors and mosses . . . indented . . . by the wheels of Fingal's chariotry.

Blackwood's May., XXIV, 260.

charismatic (ka-riz-mat'ik), a. [charism + -atic.] Of or pertaining to charism or charis-

charisticary (ka-ris'ti-kā-ri), n. [NL. *charisticarius, < Gr. χαριστικός, given of grace, freely given, < χάρις, grace, favor.] Originally, the recipient of a prebend, the allowance of food which a monk or cleric received from the common storo: same as prebendary.

charityless (char'i-ti-les), a. [charity + -less.]

Devoid of charity.

Such people there are living and flourishing in the world—Faithless, Hopeless, Charityless,
Thackeray, Vanity Fair, viii.

charivari, n. 2. [cap.] The name of a satiri-eal journal founded in Paris in I832.—The Lon-don Charivari, the secondary title of "Punch," a humor-ous weekly journal published in London. charivari (shar-i-var'i), r. t. To treat to a

charivari.

a tendency to charlatanism; inclined to quack-

ery; somewhat quackish.

Charley, n. 2. A small pointed beard such as that worn by Charles I. of England and by men of his time: hence the name. It extended

from the under-lip and ended in a point just below the chin.—3. The fox.

charlock-weevil (chär'lok-we''vil), n. An English gardeners' name for a Enropean curculionid beetle, Couthorhynchus contractus,

person left in charge of any business or office during the temporary absence of the chief.

charge (chār-jē'), n. [charge + -cel.] One who holds, as security, a charge upon property: analogous to mortgagee.

analogous to mortgagee.

The charge in geot, a division of the chief is a security and switzer.

The charge of any business or office which feeds on charlock.

Charlton white. See *white!.

Charmouthian (chār-mouth'i-an), a. Of or pertaining to Charmouth, in Dorset, England.—Charmouthian stage, in geot, a division of the chief is a security of the charge of the charge in geot, a division of the chief.

The heart, which I will keep so charge is geot, a division of the chief is a security of the chief is a security of the chief.

The heart which I will keep so charge is geot, a division of the chief is a security of t land.—Charmouthian stage, in geol., a division of the Lower Jurassic rocks or Lias of France and Switzer-land; it corresponds essentially to the Middle Lias of England.

charnel² (char'nel), n. [Cf. carnel.] 1. A inge, as of a door, window, chest, etc.—2. The pivot or hinge on which the beaver or vizor of a helmet moved.

charneled (char'neld), p. a. [charnel2 + -ed1.] Hinged; jointed.

The bassenet pece whereunto the Barbet . . . is char-ald Hall, Chron., p. 674.

by T. H. Holland (1893) to a group of phaneric igneous rocks in India, which range from a large in containing dead absence of the solution of acid to basic varieties and agree in containing hypersthene; the type rock is hypersthene-

Charonic (kā-ron'ik), a. Of or pertaining to Charon, the ferryman, in Greek mythology, of the lower world.

Charrinia (ka-rin'i-ä), n. [NL. (Viala and Ravaz, 1894), named for Dr. Charrin, a French

physician.] A genus of pyrenomycetous fungi. The single species, *C. Diphodiella*, is said to be the aseigerous form of *Coniothyrium Diphodiella*, which causes the white rot of the grape. See *Coniothyrium, grape-rot and rot of th

rot of the grape. See *Coniothyrium, grape-rot and rot, 2 (b).

Chart, n.—Astrographic chart, a chart of a region of the stars, specifically, one of the star-charts of the systematic astrophotographic survey of the heavens.—Cosmogony chart, a birch-bark chart on which a pictographic record of the creation myth is engraved; used by the Ojibwa Indians in connection with their religious ceremonials.—Cotidal chart. See **cotidal.—Halley's chart, a chart showing the curves of compass variation.—Heliographic chart, a chart which shows the sun's spots at any particular time and their physical peculiarities.—Hydrographic features of the ocean, such as the depth of water, the currents at the surface and beneath, the density or saltness of the water, the temperature, and the changes of these with the seasons.—Meteorological chart. See **weather-map.**—Physical chart, a map or diagram designed to illustrate certain features of physiography or physical geography.—Thermal chart, a chart showing the temperature of the air or land or water, usually by means of isothermal lines.

Charta, n. 2. In **pharm.**; (a) A folded paper containing a powder: also, a dose of any medicinal powder. (b) A piece of bibulous paper impregnated with some medicinal sub-

paper impregnated with some medicinal subpaper impregnated with some medicinal substance.—Charta cantharidis or epispastica, blistering-paper; a paper spread with a mixture of cantharides, Canada turpentine, and olive-oil, used for counteriritation or to make a blister.—Charta potasil nitratis. Same as *asthma-paper.—Charta sinapis, mustand-paper or -leaf; a paper spread with a mixture of black mustard and gutta-percha solution, used as a substitute for a mustard-plaster, to produce counter-irritation. Charter colony, a colony under charter government.—Charter government, government of a colony under authority of a written charter granted by the sovereign power.—Charter member, one whose name spieans in the charter of pardon, in Eng. law, an instrument under the great seal by which a pardon is granted to a man for felony or other offense.

Chartered accountant. See *accountant.

Chartered accountant. See *accountant. charterer, n. 3. A freeman of a chartered borough.

charter-school (chär'ter-sköl"), n. One of the schools established in Ireland by a society chartered in 1733 to provide a Protestant edueation for the Roman Catholic poor. These schools were of two kinds, day-schools and boardingschools were of two kinds, day-schools and boarding-schools; the boarding-schools were supported by Parlia-ment after 1745, when a special tax was devoted to them. The charter-schools failed in their purpose and came to an end in 1825

chartographist (kär-tog'ra-fist), n. [chartograph-y + -ist.] One who is versed in chartography, or is engaged in map-making; a chartographer

chartology (kär-tol'ō-ji), n. [Gr. χάρτης, a leaf (L. charta, a map), + -λογία, < λέγειν, speak.]

The science of map-making.

chartreuse, n. 3. In cookery, a preparation usually of game, fillets, etc., incased in a mold of rice; also, fruits inclosed in blane-mange or puddings. These preparations were invented, it is said, by the monks of the monastery of Grande Chartreuse to disguise meat.—Chartreuse cat. See $\star cat1$.

Chartreux (shär-trè'), n. [F., earlier charteus, < ML. Carthusius: see Carthusian.] A monk of the Carthusian order which was founded by St. Bruno in the eleventh century. The name was derived from the valley of the Chartreuse, where the order's first monastery was founded. charvolant (shär-vo-lan'), n. [F. *ehar colont, 'flying car.'] A four-wheeled vehicle with a kite attachment, designed to be propelled by the force of wind: patented in England in

Thy heart, which I will keep so chary
As tender nurse her babe from faring ill.
Shak., Sonnet xxil.

Great thanks, mighty Lucifer!
This will I keep as chary as my life.
Murlowe, Faustus, ii. 2.

chase¹, v. I. trans. 4. To push the bottle toward one and thus call upon him to fill up his

glass. "Above all, why, when I fill this very glass of wine, cannot 1 push the bottle to you, and say, 'Fairford, you are chased'!" Scott, Redgauntlet, Letter i.

II. intrans. 4. To exceed a given customary standard of production. -{Workmen's

chase2, n. 7. The conical apex of a spinningmachine cop or bobbin, or the extent of the traverse of the winding-faller wire on a spinning-mule. Sometimes called the nose.

The apex of the cop is the nose or chase; this extends from the shoulder of the cop to its apex. The shoulder acts as a good support to the chase of the cop in winding.

Hannan, Textile Fibres of Commerce, p. 124.

8. In carp., a score or shallow cut in a mortise.

[Local, Eng.]

chasee (chās-ē'), n. One who is chased. [Rare.]

chaser¹, n. 4. The sip of water or mild drink

with which tipplers 'chase' or wash down their

dram of spirits. [Slang.]

chaser2, n. 3. Same as edge-runner mill (which see, under mill1). Also called chaser mill,

chasmal (kaz'mal), a. [chasm + -al1.] Of

the nature of a chasm; chasm-like: as, a chasmal difference.

chasmantherous (kaz-man'ther-us), a. [Gr. xasua, opening. + NL. antheru, anther, + -ous.] In bot.. hemiclistogamous with the stamens exserted: said of a class of flowers.

chasmoclistogamous (kaz/mo-klis-tog/a-mus), a. [Gr. χάσμα, an opening, + clistoyamous.]
 ln bot., bearing both open and closed flowers. chasmogamous (kaz-mog'a-mus), a. [chas-mogam-y + -ous.] Exhibiting the phenomenon of chasmogamy.

chasmophyte (kaz'mō-fīt), n. [Gr. χάσμα, an opening, + φντόν, plant.] In phytogeog., a plant inhabiting the crevices of rocks. Schimper. (trans.) Plant Geog., p. 178.

chasse (shas), n. [F., short for chasse-eafé, lit. chase coffee.'] A small glass of brandy or liqueur taken after coffee, at dinner, to remove its taste or odor or as a digester. See pousse-

chasse2 (shäs). n. [F. chásse: see chasc2, n.] A shrine or receptacle for relics of a saint.

chassé (shā-sā'), r.; pret, and pp. chasséd, ppr. chasséung. [Also chassée, chassey, and orig. chassez, < F. chassez (used as a direction in teaching dancing), impv. of chasser, chase: see chase!. The spelling chassé (as if from the . pp.) appears to be a mistake. See the uoun. which is much later in English. Cf. the F. nouns ehassez-dechassez, and chassez-huit, nouns chassez-dechassez, and chassez-huit, names of dance steps.] I. intrans. 1. In dancing, to execute a step or gliding motion (known as the *chassé*) in which one foot is kept in advance of the other .- 2. To move or make one's way with gliding steps, as across a crowded room: as, before long he chassed up

chassé (shä-sā'), n. [Also chassez; from the verb. The F. chassé in the same sense is late, and may have been suggested by the E. use of mobile. the spelling chassé.] In dancing, a step or chauffeuse (shō-fez'), n. [F., fem. of chauffeur.] gliding motion in which one foot is kept in A woman who operates an automobile. advance of the other.

chasse-café(shäs-kä-fā'), n. [F.] See *chasse1. chassis, n. 2. In fort., the foundation-frame or bed-plate upon which a gun-carriage is supported or adjusted. - 3. The frame of a motorcar or motor-vehicle, exclusive of the seats or body. It includes the structural elements, the motor and its generator of power, the tanks, transmission-gear, wheels, axles, and springs.—Carrosserie chassis [F, a carrying or supporting chassis or frame; specifically, the rear frame of a motor-car which has a frame for each

chastend, pp. A simplified spelling of chastened.

chastenment (chās'n-ment), n. The act of

chastize, chastizement. See chastise, chastisement.

chastizment, n. A simplified spelling of chastisement.

[S:oth.]—4. The point or question to be settled. [Colloq.]

Has the gentleman any right to be in this room at all, or has he not? Is he commercial, or is he—miscellaneous? That's the chat, as I take it. Trollope, Orley Farm, vi.

chat⁴, n. 3. A small potato of inferior quality. [Prov. Eng.]—4. A small piece of eoal. [Prov. Eng.]—5. In mining, a piece of ore with stone adhering to it; in the plural (also singular), ore in this state (usually called in the United States raggings): a middle product made in the concentration of ore, consisting of particles of gangue containing included grains of valuable mineral.—6. pl. The tailings or waste product from the concentration of ore.

Château d'eau, a form of fountain in which the monumental architectural setting is especially claborate. chatelainry (shat'e-lān-ri), n. [chatelain + The district or territory under a chate--ry.] The district lain; a castellany.

Chattahoochee beds. See *bed1. Chattahooga shale. See *shale.



Château d'Eau (Fontana dell' Acqua Paola), Rome. (From "Baudenkmäler in Rom," pub, by Wasmuth, Berlin.) chattelization (chat"el-i-za'shon), n. 1. The act or practice of chattelizing real property. The act or practice of chattelizing human beings; ownership of human beings; the fact

of being chattelized. chattelship (chat'el-ship), n.

being held in slavery as property. chatter-mark (chat'er-mark"), n. 1. left on a piece of metal by a cutting-tool, when the latter is so adjusted that it alter-nately cuts and is forced back, thus cutting intermittently and making a chattering noise. 2. Irregular gouges made on surfaces over which a glacier passes, by the slipping of rock fragments held in the lower portion of the ice. Chamberlin and Salisbury, Geol., I. 276.

chatterment (chat'er-ment), n. Chattering;

chattery (chat'ė-ri), a. Chattering, as with cold; shivery.

Chaucerian (châ-sē'ri-an), a. and n. I. a. Of, pertaining to, or characteristic of the English poet Chaucer or his writings: as, Chaucerian English.

crowded room: as, before long as to me. [Colloq.]

II. trans. To cause to chassé toward the door; dismiss. [Slang.]

He was chasséd on the spot.

Thackeray.

Chauffeur (shō-fer'), n. [F., a fireman, a stoker: hence, recently, the 'fireman' or controller of a steam or other automobile, \(chauffer, heat, fire up: see chafe, v. \)

The driver of an automobile.

Chauliognathus (kâ-lī-og'na-thus), n. \(\text{Gr. \chiau\lambda} \) (oδοθς), with outstanding (teeth), +
 \(\gamma\text{\psi\text{\psi}\text{\text{ofos}}} \), jaw.] An important genus of malaco dermid beetles, comprising 40 or more American species: known popularly as 'soldier-beetles.' See cuts under soldier-beetle. Hentz, 1830.

chaulmugric (châl-mug'rik), a. Derived from chaulmugra.—Chaulmugric acid, an acid, $C_{18}II_{32}O_{2}$, obtained from chaulmugra-oil expressed from the seeds of Hydnocarpus Kurzii.

chaussée² (shō-sā'), n. [F.: see causcy, causeway.] A causeway; a highway.

Way.] A causeway; a mgnway.

Two roads lead westwards from Brusa. The one, a regular chaussee with bridges, kilometre posts, and telegraph, runs about due west through the plain.

Geor. Jour. (R. G. S.), IX. 151.

chaussure (shō-sür'), n. [F., < chauser, v., shoe, \[
 \langle chousse, \text{ a shoe.} \] A covering for the feet, such as shoes, boots, sandals, etc.

Chautauqua maskalonge. See *maskalonge. Chautauquan (châ-tâ'kwan), a. and n. I. a.

1. Of or pertaining to the lake or the county of Chautauqua, in southwestern New York.— 2. Of or pertaining to the Chautauqua Literary and Scientific Circle, founded for the promotion of home reading and study in connection with the summer school which meets at Chautauqua Lake, or its courses of study.—3. In geol., noting a division of the Devonian of North America, which comprises the last period (Chemung beds) of the Neodevonian.

II. n. A member of the Chautauqua Circle, or one who takes or has taken its course of

study and examinations. Chavannesia (shav-a-në'zi-ä), n. [NL., named by Alphonse de Candolle in 1844, in honor of his friend Edouard Chavannes, a Swiss botanist.] A genus of dicotyledonous plants of the family Apocynaccæ. See Urccola. chavelleryt, n. 1. Same as cavatry.—2. The Cavaliers or Cavalier party of the seventeenth

Chayota (chā-yō'tā), n. [NL. (Jacquin, 1780), < Amer. Sp. chayote, < Aztec chayott.] A genus of dicotyledonous plants which belong to the family Cucurbitaceæ. See cheyote and Sechium. chayro (chi'rō), n. [Aymará of Bolivia.] A soup made of mutton and jerked meat. chuñu, potatoes, maize, and various condiments: a

Bolivian national dish. Ch. B. An abbreviation of the Latin Chirurgiæ Bacealaureus, Bachelor of Surgery.

Ch. Ch. An abbreviation of Christ Church.
Ch. D. 1. An abbreviation of the Latin Chirurgiæ Doctor, Doctor of Surgery.-2. See *D.

Ch. E. An abbreviation of Chemical Engineer. cheat¹, n. 7. In bot.: (a) The darnel, Lolium temulentum. (b) Same as chess².

cheater, n.—Tame cheater, a tame animal, such as a duck, used as a decoy.

He's no swaggerer, hostess; a tame cheater, i' faith; you may stroke him as gently as a puppy greyhound: he'll not swagger with a Barbary hen, if her feathers turn back in any show of resistance. Shak., 2 Hen. 1V., li. 4.

chebec 2 (chē-bek'), n. [Prob. imitative.] A name for the least flycatcher, *Empidonax min*utus: used chiefly in New England.

chebog (chē-bog'), n. [Of New England Amer. Ind. origin (Narragansett?).] A menhaden. a tan, dye, and medicine. See myrobalan and Terminalia2.

chebulic (ke-bö'lik), a. [chebule + -ic.] Obtained or derived from chebule: as, the chebulic or black myrobalan of commerce.—Chebuilc acid, a crystalline acid with a sweet taste found in the stones of Terminalia Chebula.

check¹, n. 19. A longitudinal crack in timber due to too rapid seasoning. Also called scason-check. See check¹, v. i., 5.—20. In irrigation, a small levee or dike for holding the water on irrigated fields.—21. In experimentation, a part of the material of the experiment left untreated for the sake of comparison. Thus in fertilizer-tests one or more plats are left without fertilizer in order to know what results are due to fertilization in the others.-22. Same as *checkers1, 11 .- 23. A joint having two parts which fit one into the other and so form a guide. A dowel-pin is a common example. It is customary in high-pressure hydranlic pining to check the flanges, that is, to turn a groove in the face of one flange and make a tongue to correspond on the other.

24. In card-playing and banking games, a counter sold by the banker which can be redeemed at any time. A stack of checks is 20. When of various colors, the white are always of least value, red next, and then blue and yellow.

25. In hunting, a stoppage of the hounds ow-

25. In hunting, a stoppage of the hounds owing to temporary loss of the scent.—Discovered check, in chess, a check administered by the moving of a piece and the opening thereby of the range of another piece upon the adverse king. The piece or pawn moved does not, however, check directly. See check!, n., l, and double *check.—Double check, luchess, a check from two pieces at the same time, resulting from a move which checks the king and unmasks another piece, which also checks; a direct check and a discovered check.—Perpetual check, in chess, the position of a player when he cannot parry a check without subjecting himself to another check on his adversary's next move, and when his adversary insists upon administering those checks. Under such circumstances the game is declared drawn.—Simple check, in chess, ordinary check, when the adverse king is attacked by a single piece or pawn.—To discover check, in chess, to unmask a check by moving a piece. See discovered *check.

check1, v. I. trans. 9. To fit or fasten together (two pieces) in such a manner that they can be separated only by a motion perpendicular to the plane of the joint.

II. intrans. 6. To cruck or split without

falling apart.

Wherever they have been opened the coal beds of the Washington Creek Basin show no evidence of faulting, and the coal is not crashed, but can be obtained in languices which "check" but do not break up readily on ex-

posure to the air.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 277 7. In hunting, to stop (as dogs do) because of loss of the seent.—8. To draw a check.

Had checked for nothing until the day before her death, when she took out in person the sum of 4,000 francs.

Poe, Works, I. 190.

checkage (chek'āj), n. [check + -age.] The act or process of checking (the items of an account, list, invoice, etc.), or the fact of having been checked.

check-band (chek'band), n. In textile-manuf., a device attached to a spinning-mule as a drag

or check upon the varying velocity of the spindle-carriage during its traverse. Nasmith,

Cotton Spinning, p. 275. check-bar (chek'bar), n. A metal bar with loops on each end for retaining the ends of the check-reins of a harness-bridle, and a rear loop at the center by which it is attached to the check-hook.

check-battery (chek'bat"er-i), n. In mining, a timber construction which closes the lower part of a chute, acting as a check to the flow of coal and as an air-stopping.

check-bit (chek'bit), n. A harness-bit used with the over-check, with or without a lever.
check-book, n. 2. A book in which items of

control are entered.

check-damper (chek'dam"pér), n. slide by which cold air may be admitted to the base of the flue or chimney behind the fire and without passing through or over the latter. The effect of opening the check-damper is to lower the temperature of the gases in fine and chimney, and therefore more nearly to equalize the pressure of the cool atmosphere below the fire, and hence to check the draft and diminish the rate of combustion.

check-easer (chek'e"zer), n. In a harness, a device for relieving the steady strain of the overcheck. It interposes an elastic web or spiral spring between the check and the hook-loops.

checker1, n. 11. One of many spots or markings, somewhat triangular in shape, on the wings of a pigeon. A checker is larger than a spangle. The term is generally used in combination, as blue-checker, red-checker, etc., the qualifying word refering to the general color of the bird and not to that of the spots, which are usually white. Also often check.

checker-board, n. 2. In American foot-ball, a term sometimes applied to the field of play.

See *gridiron.

3. Having the wing marked checkered, p. a. with numerous white spots, larger in size and cheekiness (chē'ki-nes), n. Cheeky conduct fewer in number than in the condition termed spangled: used in describing breeds of pigeons.

Checkered heetle. See *heetle? checkerwork, n. 2. In a regenerative furnace or water-gas plant, a mass of loose bricks inclosed in an upright cylindrical chamber and loosely piled in alternate layers to form an open mass. When submitted to a hot blast the checkerwork becomes intensely heated and, when the blast is shut off, can be used to heat an air-blast or a stream of gas passing through its open spaces. See What a humiliated, broken-down, poor cheepy wrete generator.

check-experiment (chek'eks-per"i-ment), n. A control-experiment; an experiment devised to confirm the results of other experiments: for example, an experiment made under normal conditions, the result of which enables the experimenter to estimate the effect, in a parallel series of experiments, of a determinate variation of conditions.

check-flooding (chek'flud'ing), n. In irrigation, a method of controlling water by means of low levees or dikes when flooding fields.

check-gate (chek'gāt), n. A small gate, or movable dam, placed in the low levees ex-tending across irrigated fields.

check-greeve (chek'grev), n. person who checks the weights of coal on behalf of the landlord. [Scotch.]

checking, n. 2. The assembling of the parts of a checked joint.—3. In agri., the planting of seeds or plants at regular distances apart in the row or line, to allow of cultivation both ways, instead of drilling in a continuous or solid' row.

check-out (chek'out), n. The termination of a ceal-seam by the meeting of roof and floor. check-rail, n. 2. A guard-rail; an extra rail on the inner side of the inner rail of a railway curve, so laid as to leave sufficient room for the flanges of the wheels to pass freely between the heads of the two rails. As the train rounds the curve, the inner wheels bear against this extra rail, thus relieving the pressure of the wheels against the outer rail and preventing the derailing of the train.

check-row (chek'rō), r. t. To plant (Indian again) with a sheet round.

corn) with a check-rower.

Particularly for use on growing check-rowed and listed Sci. Amer., N. S., LVIII. 298.

check-spring (ehek'spring), n. In hardware, an extension-spring used to keep a door or cheese-clack (chez'klak), n. In mining, a temgate closed, or for any similar purpose. See eut under *extension-spring.

checkstone (chek'ston), n. A small round pebbie, called in the United States jackstone and in Scotland chuckie or chuckie-stane or A small round -stone, used in the children's game of chucks

check-strap, n. 3. A leather strap, extending

from the bottom of the body of a carriage to the perch, to check the upward movement of the body.

check-system (chek'sis-tem), n. 1. A system for keeping the time of workmen, largely used in keeping the time of workmen, largely used in factories. It has many forms, but is essentially as follows: A board is placed just within the entrancegate, on which are hung numbered checks, one for each man. As each workman passes in, he takes his check from the board and places it in a box, thus showing that he has gone in to work. The timekeeper takes the checks from the box and, by means of the numbers, knows what men are at work. The checks are placed on the board in readiness for the men each half-day, and, since no man can leave without a pass signed by his foreman or at the end of the half-day, it enables the timekeeper to keep a record of the men.

2. The network or system of checks or small

2. The network or system of cheeks or small levees constructed in fields to be irrigated.

check-weigher (chek'wā/er). n. cheeks or verifies weights; specifically, in mining, the man who verifies the tally, or record of weight of the coal or other mineral which comes up from workings where the miner is paid by the ton, and who credits the output to the account of the individual worker.

checkwork (chek'werk), n. In mach., the regular release of an obstruction which takes place by means of an even-timed body; an The wheel and pendulum of an escapement. The wheel and pendulum ordinary clock are a common example.

cheek, n.—Fixed cheeks, in the anatomy of the trilo-bites, the lateral parts of the cephalon between the dorsal furrows and the facial sutures which separate them from the free cheeks.—Free cheeks, in the anatomy of the trilohites those parts of the cephalon which lie outside the facial sutures and are separated thereby from the fixed cheeks.

cheeker (ehēk'er), n. One who gives cheek or who talks inpudently, saucily, or with nu-becoming boldness and lack of respect to some one. [Slang.]

er speech; cool impudence. [Colleq.] cheek-piece, n. 3. A erank; a driving-wing; usually, a erank having parallel sides, and hence as large at its outer end as where it joins the cheft. the shaft.—4. One of a pair of curved liners for a shaft-bearing. This form of liner is fitted to the shaft and forms the actual bearing-surface, instead of being placed outside the journal-box as in the case of a

What a humiliated, broken-down, poor *cheepy* wretch I am. Condemned to live among the pots.

*Carlyle, in Fronde, Carlyle's Life in London, II. 237.

I am. Condemned to live among the pots.

Carlyle, in Fronde, Carlyle's Life in London, II. 237.

cheese¹, n.—Basswood cheese. Same as sapsago

★cheese (b).—Bondon cheese. a trade-name for a variety of soft cheese.—Cambridge cheese, a variety of soft cheese.—Cambridge cheese, a variety of soft cheese made in England.—Cantal cheese, a hard cheese made in the south of France.—Cheshire cheese, an old trade-name for a dry, pale red cheese made in England.—Coulommier cheese, a variety of soft cheese.

—Derby cheese, a local name for an old variety of English cheese.—Edam cheese, same as Dutch cheese (a).

—Emmenthal cheese, a hard Swiss cheese.—Enriched cheese, a cheese made with an excess of cream, or made from very rich cream; also, a trade-name for an adulterated or filled cheese.—Filled cheese, a trade-name for a thin cheese of only moderate weight.—Gorgonzola cheese, an Italian hard-pressed cheese. Also called Stratchinocheese.

—Gouda cheese, a small, thin, disk-shaped cheese of a mild flavor which resembles that of Edam cheese. It is made in Holland and is usually colored yellow.—Green cheese. (a) See green! (b) See sage cheese. (c) A term sometimes used to describe a poor thin cheese made from lard.—Margarin cheese, in England, a cheese made from lard.—Margarin cheese, in England, a cheese adulterated with any form of fat not derived from milk; in the United States, a filled ★cheese (which see).—Sapsago cheese. (a) See sapsago. (b) A local derisive name for any skim-milk cheese of poor quality. Also called white-oak cheese and baswood cheese.—Sim cheese, a trade-name for any variety of cheese made from skim-milk cheese, any cheese in which the coagulation of the milk is cansed by natural souring assisted by heat.—Swiss cheese, a cheese between the hard and soft varieties, made in Switzerland. It resembles Gruyère cheese.—White-oak cheese, Same as sapsago ★cheese (b).

Cheese¹ (chēz), r. i. To become cheese: as, the cheeseing of milk.

cheese1 (chēz), r. i. To become cheese: as,

the cheesing of milk.

cheese '(chēz), r. i. To stop. [Thieves' slang.]

—Cheese it! make off! run! [A warning command.]

cheese-basket (chēz'bas"ket), n. In dairying, wooden box or bowl having a perforated bottom in which curd is placed to drain.

cheese-block (chēz'blok), n. Same as chock-

porary elack-valve inserted between two pipes. Barrowman, Gloss.

cheese-cutter (chēz'kut"er), n. An implement for cutting cheese.—Computing cheese-cutter, a combined cheese-knife and price-computing machine. It consists of a revolving platform on which the whole cheese is placed, a pivoted knife designed to make radial cuts in the cheese as the platform is revolved, and a price-computing device which controls the movements of the plat-

form. When the computator is set for any particular price per pound, it can be so adjusted that the operator cuts a quantity corresponding in weight and value to the price shown on the register of the computator.

cheese-finger (chēz' fing "ger), n. Same as $\star cheese$ -stick.

cheese-grease (chēz'grēs), n. See whey *butter. cheesemongering (chēz'mung gering), n. The buying and selling of cheese; the business of a chéese-merchaut.

cheesemongery (chēz'mung ger-i), n. 1. The commodities dealt in by a cheesemonger. The shep or store in which such commodities are dealt in.

cheesery (chēz'e-ri), n. [checsc + -ery.] A cheese-tactory.

From the upper stories of these cheeseries were long wooden gutters leading to the ships in dock, and along these troughs trickled a never-ceasing rill of the ripened and matured article.

G. H. Boughton, in Harper's Mag., April, 1883, p. 692.

cheese-skipper (chēz'skip"er), n. The larva

of the cheese-fly.

cheese-stick (chez'stik), n. A strip of wholewheat bread, puff-paste, dough made of flour, bread-crumbs, or other material, with grated cheese spread on or rolled in and baked until erisp: served with salad. Also called cheesestraw, cheese-finger.

cheese-straw (ehēz'strâ), n. Same as *cheese-

cheese-trier (chëz'trī/er), n. A cheese-pale (which see)

cheesewood (chēz'wud), n. In Victoria, the hard yellowish-white wood of the Australian tree Pittosporum bicolor. It is used for turning and is prized for ax-handles, billiard-cues, etc. Also called tolosa-wood, and in Tasmania whitewood and waddywood.

cheesewring (ehēz'ring), n. 1. A cheese- or cider-press. [Coruwall, Eng.]—2. [cap.] One of the natural curiosities of Cornwall, England, which receives its name from a snpposed resemblance to the wring or press used in squeezing the liquor from the cheese or alternate layers of pounded apples and straw from which eider is made. It stands on a hill of considerable elevation near Liskeard, in that county, and consists of a pile of great tabular blocks of granite, 10 to 12 feet in diameter, heaped one upon another to a height of about 32 feet. As the blocks near the bottom of the pile are less than half the diameter of those they support, it has been likened to a gigantic mushroom.

cheesine (chēz'in), n. [lrreg. < cheese1 + -ine2.] The trade-name of a material made in imitation of cheese.

cheesy² (che'zi), a. [cheese² + -y¹.] Stylish; fine; showy; 'quite the cheese.' [Slang.] cheet², (chet), n. [Also cheat; an imitative or

dial variation of $chit^2$.] A word used in calling a cat; usually repeated, 'cheet, cheet,' like 'puss, puss.' [Scotch and North. Eng.] puss, puss.'

cheetal, cheetul, n. Same as chital. cheety (chē'ti), n. [Also cheetie; dim. of cheet'.] Pussy! See \star cheet2.

cheficat, n. See *sheficat. cheilitis, n. See *chilitis. cheirization, n. See *chirization.

Cheiroglossa (ki-rō-glos'ā), n. [NL. (Presl, 1847), ζ Gr. χείρ, hand, + γλῶσσα, tongue.] A genus of epiphytic ferns sometimes joined with Ophioglossum, from which it differs externally in having several fertile spikes, and these pendent from a palmately divided (instead of simple) leaf. There is a single species, C. palmata, of Florida and tropical America. See Ophioalossiem.

chekako (chē-kā'kō), n. [Said to be a native rendering of *Chicago* (man).] A novice or tenderfoot. [Alaskan slang.]

Same as Czech.

Chekh, n. Same as Czech.
chela¹, n. 4. In sponge-spicules, a microsclere consisting of a more or less curved shaft bearing at each end a variable number of recurved

chelem (shlem), n. [F. spelling of E. slam.]

chelem (shlem), n. [F. spelling of E. słam.] in card-playing, a słam (which see).
chelerythrin (kel-e-rith'rin).n. [Chel(idonium) + (ir. ipvtpóc, red, + in².] An alkaloid, C₂₁H₁₇NO₄, found in the plants Chelidonium majus, Stylophorum diphyllum, Sauguinaria Canadensis, Macleaga cordata, Glaucium Glaucium and other plants of the ranny family cium, and other plants of the poppy family (Papaveraceæ): colorless in the free state, but forming lemon-yellow salts on the addition of acids. It is not identical with sanguinarin, as

was once supposed. chelicerate (kē-lis'e-rāt), a. [chelicera + -ate1.] Bearing cheliceræ, or small pincers, as the appendages of the merostome erustaceans.

chelidamic (kel-i-dam'ik), a. [chelid(onic) + am(monu) + -ic.] Derived from chelidonic acid and ammonia.—Chelidamic acid, 4-pyridinol-2, 6-dicarboxyllic acid, 1100°5H2NCO2H)2 + H2O. It is prepared from chelidonic acid and ammonia. It decomposes at about 220° C.

chelidonin (kel-i-dō'nin), n. [Chelidon(ium) A white crystalline alkaloid, C₂₀11₁₉ $NO_5 + H_2O_6$ contained in the plants Chelido-

nium majus and Stylophorum diphyllum.

chelidonius (kel-i-do'ni-us), n. [l., sc. lapil-lus, ζ (Gr. χελιδόνιος, of the swallow, ζ χελιδών, swallow.] A stone from the crop of a swal-

low, worn in ancient times as a charm.

Chelidoperca (kel*i-dō-pėr'kä), n. [NL., < Gr. χελιδών, swallow, + πέρκι, a perch.] A genus of fishes of the western Pacific and Indian oceans.

chelidoxanthin (kel-i-dok-san'thin), n. [Cheli $do(nium) + Gr. \xi a \nu \theta \delta \varsigma$, yellow, $+ -in^2$.] Until recently this has been applied to a yellow crystalline bitter principle of undetermined com-position contained in the plant Chelidonium majus. It is now found to exist also in the plant—chlorid of lime or bleaching-powder. Stylophorum diphyllum and to be identical with the alkaloid berberine ($C_{21}H_{17}NO_4$). [chemicobiology + -ic.] Of or pertaining to

the alkaloid berberine (C₂₁H₁₇NO₄).

Chelifera (kē-lit'e-rā), n. μl. [NL., < Gr. χηλή, claw, + L. ferre, bear.] A small tribe of isopod crustaceans, characterized by having the first pair of trunk-limbs or gnathopods like a

forceps. It contains the families Apsendide and Innaide.

cheliferid (kē-lif'e-rid), a. and n. I. a. Having the characteristics of or belonging to the

family Cheliferidæ.

II. n. A member of the family Cheliferidæ. Chellean (shel'ē-an), a. [Also Chellian; Chelles + -an.] 1. Of or pertaining to Chelles in France, a place a few miles east of Paris, on the right bank of the Marne.—2. Of or pertaining to the earliest paleolithic period (the Chellean age) of Europe.—Chellean deposits, in ged, and archæol., paleolithic deposits of earliest date, in which the most primitive type of worked flint implements are found.

chelonite, n. 2. A turtle-stone: a name given to certain fossils supposed to resemble turtles, but which are, for the most part, teeth of fishes.

Thelopus (kel'ō-pus), n. [NL., said to be formed (if so, erroneously for *Chelypus) \lambda Gr. Chelopus (kel'ō-pus), n. $\chi\ell\lambda\nu$, a turtle, $+\pi\sigma\nu$, foot; but the first element may be $\chi\eta\lambda$, claw.] A genus of small fresh-water turtles containing the common sculptured turtle, *Chelopus insculptus*, of the eastern United States and also the spotted turtle, C. guttatus.
Chelsea-Derby porcelain. See *porcelain1.

Chelsea pottery. See *pottery. Cheltenham beds. See * bcd^1 .

chem. An abbreviation of chemist, chemistry, chemical. See *chemist, 4. chemæsthesis (kem-es-thē'sis), n. [NL., <

chem(icus), chemic, + Gr. αισθησις, perception.]
The stimulation of an organism by external or internal stimuli; the sensation of matter.

chemawinite (chē-mâ'win-īt), n. [Chemawin, Amer. Ind. name of a neighboring Hudson Bay post.] An amber-like resin found asso-ciated with woody debris on the shore of

Cedar Lake in Canada.

chemiater (kem-i-ā'ter), n. [NL. *chemiater, ⟨ chemia, chimia, chemistry, + Gr. laτρός, physician.] A medical practitioner of the Paracelsian school, according to which all the precesses of the health in the health and the schools. processes of the body in health and in disease

are of a chemical nature.

chemiatric (kem-i-at'rik), a. [NL. *chemiatricus, ζ *chemiatria, ζ MGr. χημια, alchemy, chemistry, + Gr. laτρεία, medicine. Cf. iatrochemical.] Of or pertaining to a theory of Paracelsus and others, according to which medical treatment should be directed to the chemical conditions (fermentations, which in this theory are the causes of disease.

chemiatry (kem'i-at-ri), n. [NL.*chemiatria, chemin-de-fer (shė-man'/dė-fãr'), n. ζ chemia, chimia, chemistry, + Gr. laτρεία, road, lit. 'iron road.'] A variation o medical treatment.] Treatment of disease in which each player in turn bec founded upon the Paracelsian doctrine of the banker. See baccara. chemical nature of physiological and pathological processes.

Chemin-de-ronde, n. 2. A sentry-path around a fortification, along the scarp or countersearp, logical processes.

chemic, n. Specifically—3. A solution or liquor of chlorid of line or bleaching-powder for bleaching vegetable matter, as cotton. chemical, a. 3. Versed in chemistry; engaged

in the study of chemistry or in chemical research or investigation: as, a chemical philosopher; a chemical friend. - 4t. Of or pertaining

to alchemy or alchemists. Also chymical.—Chemical actinometer. See *actinometer.—Chemical analysis. By this term is understood, sometimes the actual separation of a substance into its different constituents, and sometimes merely the ascertainment of the kinds or quantities of the constituents into which it is separable.—Chemical antidote, denudation, dynamics, engineer, equilibrium, focus, fog. See *antidote, denudation, ctc.—Chemical formula. See constitutional or structural *formula.—Chemical fuse, gilding, induction, irritability, photometer, rectifier. See **luse2*, ctc.—Chemical restraint, the quieting of the violently insane by means of narcotic drugs.—Chemical styptic, thermometer, ware. See *styptic, etc. to alchemy or alchemists. Also chumical.—

chemically, adv. 21. By alchemy or alchemical means or processes.

Ernestus Burgravius, a disciple of Paracelsus, hath pub-Efficiency Fungravius, a disciple of Paraceisus, nath pun-lished a discourse in which he specifies a lamp to be made of man's blood, ... which chemically prepared forty days, and afterwards kept in a glass, shall show all the accidents of his life. Burton, Anat. Meh., II. §ii. Mem. 4.

chemicking (kem'ik-ing), n. The process of bleaching with chlorid of lime.

chemicking-machine (kem'ik-ing-ma-shēn' A machine for bleaching cotton cloth with

chemicobiology.

The results of bacteriologic and of chemicobiologic research as applied to the pathology of midwifery.

Lancet, Aug. 22, 1903, advt.

chemicobiology (kem/i-kō-bī-ol'ō-ji), n. [NL. chemicus. chemic. + biologia, biology.] The chemicus, chemic, + biologia, biology.] chemistry of living substance.

chemicodynamic (kem/i-kō-di-nam'ik), a. Operating to transform chemical energy into the energy of motion.

chemico-electric (kem"i-kō-ē-lek'trik), a. Operating to transform chemical energy electrical energy: as, a chemico-electric change.

The hest evidence yet secured by research seems to indicate that the method of energy transformation in the vital machine is one which directly transforms the potential energy of the food, as developed by chemical combinations, into kinetic form, sometimes perhaps simply by ehemico-dynamic change, sometimes by chemico-electric transformation. transformation

R. H. Thurston, in Smithsonian Rep., 1896, p. 337. chemicomineralogical (kem "i-kō-min-e-raloj'i-kal), a. Involving both chemical and mineralogical characters: as, a chemicomineralogical classification of rocks. Gcikie. Text-

book of Geol., p. 201. chemicophysical (kem″i-kō-fiz'i-kal), a. Both ehemical and physical; relating to both the chemistry and the physics of a substance or

organism.

If a constant battery current flows continuously through a muscle or a nerve, it will so alter the *chemico-physical* condition of the living substance that its physiological properties will be greatly modified.

Buck, Mcd. Handbook, 111. 767.

chemico-physics (kem″i-kō-fiz'ikz), n. Physical chemistry. Buck, Med. Handbook, VII. 758.

 ${\bf chemicophysiological} \ ({\bf kem \#i - k\bar{o} - fiz - i - \bar{o} - loj'i - k\bar{o} - fiz - loj'i - k\bar{o} - fiz$ kal), a. Having reference to the science of physiological chemistry, or biochemistry. chemigraph (kem'i-graf), n. A print obtained

by a process of chemigraphy. igraphy, 2. See *chem-

chemigrapher (ke-mig'ra-fer), n. One who uses chemigraphy.

chemigraphy (ke-mig'ra-fi), n. 1. A process of making zine etchings without the aid of photography.—2. A process of obtaining half-tones by printing, from the same plate, in two colors, or two shades of the same color, one of which is slightly out of register.

chemiluminescence (kem"i-lū-mi-nes'ens), n. Luminescence associated with chemical changes in the luminous substance and probably due to those changes. See *luminescence.

Wiedemann has shown that the shining of Balmain's luminous paint, and generally of the sulphides of the alkaline earths, is accompanied with chemical action. A long period of luminosity after the removal of the source renders highly probable the existence of what he now calla chemi-luminescence. Smithsonian Rep., 1895, p. 121.

road, lit. 'iron road.'] A variation of baceara in which each player in turn becomes the

protected by a loopholed wall or the glacis. See covered way, under cover¹.

chemiotactic (kem"i-ō-tak'tik), a. A collateral

form of *chemotactic. chemiotaxis (kem″i-ō-tak′sis), n. [NL., ⟨ chemia, chemistry, + Gr. τάξις, order.] Same as *chemotaxis.

chemisal (chem'i-sal), n. A corrupt form of chamisal, sometimes used as a local name.

So local and strikingly characteristic are these chaparral areas that they have become jandmarks, the word chamisal, sometimes corrupted into chemisal, chemise, or chimese, being adopted as a local name. Thus, we find on the map of Humboldt County a "Chemisal Creek" and "Chimese Ridge" in the vicinity of Harria, and a "Chemise Mountain," near Shelter Cove.

U. S. Dept. Agr., Bur. Plant Industry, Bulletin 12, 1902, (p. 31.

chemise, n. 6. In mech., a sheath or covering of sheet-metal; specifically, a sheet-iron cylinder placed around the tubes in a vertical

chemist, n. 4. A degree conferred by some institutions upon the completion of a stated

institutions upon the completion of a stated course in chemistry.—5. Same as *chemialer.—Technical chemist, a chemist engaged in directing or conducting the operations of some branch of industry essentially or mainly chemical in character.

Chemistry, n. 2. Same as *chemiatry.—Bureau of Chemistry. See *hureau.—Color chemistry.—Bureau of Chemistry. See *hureau.—Color chemistry.—That department of chemistry which deals with the study of coloring matters and dyestuffs. Also known as tinctorial chemistry.—Industrial chemistry, chemistry as applied to industrial processes and operations. See chemical *engineering.—Inorganic chemistry. Although it is in the main correct to say that organic chemistry is the chemistry.—Industrial chemistry, chemistry as applied to industrial processes and operations. See chemical *engineering.—Inorganic chemistry. Although it is in the main correct to say that organic chemistry is the chemistry of the compounds of carbon and inorganic chemistry that of the other elements and their compounds, it would in many respects be inconvenient to observe this classification rigidly. Some carbon compounds such as carbon monoxid and dioxid, carbon disulphid, silicon carbide, and iron carbides which occur in east-iron and steel, are practically always treated as inorganic substances. On the other hand, a few substances which do not contain carbon, such as silicon and chloroform, are more advantageously classed as organic.—Photographic chemistry. Same as photochemistry.—Physical chemistry, the study of chemical substances and chemical processes with reference to the physical phenomena witnessed or to the physical energies concerned. Many of its chapters had been fairly developed long before the name was first used, such as those concerned with the doctrines as to atoms and molecules, or as to the solid, liquid, and gaseous states of aggregation. But other chapters, such as those on thermochemistry, electrochemistry, chemical statics, and chemical dynamics, have received most of their development since the beginning of the last quarter of the nineteenth century, and the new mane has been required to describe the fruit of a coöperation of physica and chemistry and physical has been very successfully entities.

During the past fifteen years the border-land between chemistry and physica has been very successfully cultivated, and a new department of chemistry has resulted. This is the department known as physical chemistry. Science, May 24, 1901, p. 809.

Science, May 24, 1901, p. 809.

Pure chemistry, chemistry considered as a branch of human knowledge, without reference to its practical or industrial applicationa: opposed to practical chemistry.—Sanitary chemistry, chemistry in its relations to health, especially to public health or the health of large communities.—Social chemistry, assimilation of diverse elements, especially nationalities and races, in a social population. L. F. H'ard, Pure Sociol., p. 210.—Tinctorial chemistry. See color *chemistry.

chemoæsthesia (kem"ō-es-thō'si-ä), n. [NL. (Czapek), < chem(icus), chemic, + Gr. aiothouc, perception.] In bot., the capacity of a plantorgan to respond to chemical stimuli.

organ to respond to chemical stimuli.

chemocentrum (kem "ō-sen' trum), n.: pl.

chemocentru (-trä). [ML. chem(icus), chemic,

+ L. centrum, center.] ln cytol., the nucleus

considered as the center which controls the chemical activities of the living cell: opposed to *kinocentrum.

chemokinesis (kem"ō-ki-nē'sis), n. [NL., < NL. chem(icus), chemie, + Gr. κίνησις. movement.] A state of increased activity of organisms in relation to chemical substances.

Garry finds that certain chemicals "cause the organism to become restless, very swift shooting movements being caused." As a result of these movements the organisms soon leave the area of the operation of the chemical causing the reaction. This phenomenon Garry calls chemokinesis.

kinesis. H. S. Jennings, in Amer. Jour. Physiol., April, 1900, p. 398. chemokinetic (kem"ō-ki-net'ik), a. Pertain-

ing to or exhibiting chemokinesis.

chemolyse, v. t. See *chemolyze.

chemolyze (kem'ō-līz), v. t.; pret. and pp.

chemolyzed, ppr. chemolyzing. [chemoly(sis) +

-ize.] To decompose or separate into differ
title the chemolyzing into differ
support the chem ent constituents by chemical action; subject to chemolysis.

chemoreflex (kem-ō-rē'fleks), n. [NL. chem-(icus), chemic, + E. reflex.] A response to a chemical change in the environment by a motor reaction.

[The] complicated activities of such highly developed organisms as ants and bees may be subsumed, with surprising completeness, under some such heading as the 'chemorefex.' Fop. Sci. Mo., March, 1902, p. 468.

 $\begin{array}{ll} \textbf{chemosed} \ (\text{kem'\bar{o}zd}), \ a. \quad [chemos(is) + -ed^2.] \\ \textbf{Marked} \ \text{by chemosis}. \quad N. \ E. \ D. \\ \textbf{chemosynthesis} \ (\text{kem-\bar{o}-sin'the-sis}), \ n. \quad [NL. \end{array}$ chem(icus), ehemic, + Gr. σίνθεσις, synthesis.] The formation of earbohydrates out of inorganic compounds by an organism in darkness or in the absence of sunlight: contrasted with *photosynthesis. Haeckel (trans.), Wonders of Life, p. 215.

chemotactic (kem-ō-tak'tik). a. [chemotaxis (-tact-) + -ic.] 1. Concerning or pertaining to the motion of cells or of organisms in relation to chemical substances; exhibiting chemotaxis .- 2. Inciting chemotaxis.

taxis.—2. Inciting elemotaxis.

Since Cohnheim's great discovery in 1867 we have known that the central phenomenon of what is termed by pathologists inflammation is what would now be called a chemotactic one; for it consists in the gathering together, like that of vultures to a careass, of those migratory cella which have their home in the blood stream and in the lymphatic system, to any point where the living tissue of the body has been injured or damaged, as if the products of disintegration which are set free where such damage occurs were attractive to them.

Smithsonian Rep., 1893, p. 458.

chemotactism (kem-ē-tak'tizm), n. Same as *ehemotaxis.

So with the fly. Certain chemical stimuli from meat cause a fly to lay its eggs. In the fat these stimuli are lacking. They can be produced artificially. In the shorthand Jargon of science, it is simply a chemical reaction between certain substances in the skin or sense organs of the fly and the meat, a case of chemo-tactism.

C. Snyder, New Conceptions in Sci., p. 202.

chemotaxic (kem-ō-tak'sik), a. A bad form for *chemotactic. Med. Record, March 7, 1903, p. 392.

chemotaxis (kem - o - tak 'sis), n. [NL. chem-(icus), chemic, + Gr. τάξις, arrangement.] The locomotion of organisms or of cells in relation to chemical substances, or the property of certain chemical substances to attract or repel living cells at the point of action: in the first instance there is positive chemotaxis, in the second negative chemotaxis. The peculiar response of the white blood-corpuscles to chemotactic stimulation is of fundamental importance in the defense of the animal organism against bacterial invasion.

Among stimuli acting unilaterally, perhaps none has proved more interesting, in late times, than what is known as Chemotaxis. By it is meant the property an organism endued with the power of movement has to move towards or away from a chemical stimulus applied unilaterally.

Encyc. Brit., XXXI. 51s.

chemotic (ke-mot'ik), a. Of or pertaining to chemosis.

chemotropic (kem-ō-trop'ik), a. [NL. chem-(icus), chemic, + Gr. $\tau\rho\delta\pi\sigma_{\rm C}$, a turning.] Of or pertaining to the growth or bending of organisms in relation to chemical substances; exhibiting chemotropism. Also chemotropical, chemotropically (kem-ō-trop'i-kal-i), adv. In a chemotropic manner; by and with chemotropic

chemotropism (ke-mot'rō-pizm), n. [chemotrop-ic+-ism.] The growth or bending of organisms, or of the parts of organisms, in relation to chemical substance.

The chemical effects of the diffusing molecules on certain elements of the akin influence the tension of the muscles, as the rays of light influence the tension of the muscles in heliotropic animals. The orientation of an organism by diffusing molecules is termed chemotropism, and we speak of positive chemotropism when the animal is forced to bring its axis of symmetry into the direction of the lines of diffusion and to turn its head toward the ventre of diffusion. centre of diffusion.

J. Loeb, Compar. Physiol. of the Brain, p. 186.

chêne (shān), n. [F., 'oak.'] An oak-leaf design printed on any textile fabric. chenille, n. 3. A name given to the cotton

ropism.

leaf-worm or cotton caterpillar, the larva of Alabama argillacea, by Louisiana planters of Audoama argunacea, by Louisiana planters of French descent, and adopted by many others. chenocholalic (ken" δ-kδ-lal'ik), a. [Gr. χήν, goose, + χολή, bile, + -al³ + -ie.] Same as *chenocholic (ken" δ-kol'ik), a. [Gr. χήν, goose, + χολή, bile.] Derived from goose-bile. Chenocholic acid, an amorphous bibasic acid, c₂₇11440, formed by boiling taurochenocholic acid with barium hydroxid.

(Britton, 1901), Chenopodium + -ales.] An order of dicotyledonous archichlamydeous, order of dicotyledonous arenieniamy deous, chiefly apetalous, plants. It is generally herbaceous, with hermaphrodite flowers, superior ovary, and utricular, eapsular, or baccate truit. It includes 10 families, of which the most important are the Chenopodiaceee, Amaranthaceee, Portulacaceee, and Silenaceee.

chenotaurocholic (kē * nō - tâ - rō - kol ' ik), a. [Gr. χŷν, goose, + raipor, bull, + χολŷ, bile, + -ie.] Relating to a form of taurocholic acid

present in goose-bile.—Chenotaurecholic acid, a biliary acid, C₂₉II₄₉NSO₆, found in the bile of geese. herem, n. Same as *herem.

chernites (ker-ni'tez), n. [L. chernites, < Gr

χερνίτης.] A variety of marble, resemoning ivory, used by the ancients for making sar-A variety of marble, resembling cophagi.

cherridary (cher'i-dā-ri), n. [Also cherredery, cheridary, charidares (pl.), carridaries (pl., Yule): of E. Indian origin.] An Indian cotton

fabric, usually having narrow stripes. A. M. Earle, Costume of Colonial Times, p. 83. cherried (cher'id), p. a. [cherry + -ed².] Cherry-colored: as, cherried lips. Goldsmith. Cherry-colored: as, cherried lips. Goldsmith. Cherry 1, m.—Bitter cherry, Pronus smarginata, a wild cherry of the northwestern United States which ranges from Montana to California. Its hark, leaves, and fruit are intensely bitter.—Black cherry. Same as rumcherry, and the more usual name.—Brazilian cherry, Cayenne cherry. Same as Surinam *cherry (b).—Cherry fruit-maggot. See *frait-maggot.—Cherry leaf-beetle. See *leaf-beetle.—Cherry leaf mildew. Same as cherry blight.—Cherry leaf-spot. See *leaf-spot.—Cherry-scale, an American diaspine scale-insect, Aspidiotus forbesi.—Fire cherry, the wild red cherry or pin-cherry, Pronus Pennsylvanica; so called because it springs up freely on lands recently devastated by fire. See pin-cherry.—Herbert River cherry. Same as Queens. Aspidiotus forbesi.—Fire cherry, the wild red cherry or pin-cherry, Prinns Pennsylvanica: so called because it springs up freely on lands recently devastated by fire. See pin-cherry.—Herbert River cherry. Same as Queens-tand *cherry.—Herbert River cherry. Same as Queens-tand *cherry.—Herbert River cherry. Same as Queens-tand *cherry. (a) The Carolina buckthorn. Khammus Caroliniana. (b) The service-berry, Amelanchier Canadensis.—May-cherry. Same as June-herry. Also called service-berry and *shad-busk.—Mexican cherry, the form of run-cherry, Prinus *serotina, found in Mexico and adjoining regions: by some thought to be a distinct species.—Native cherry, an Australian tree, *Exocarpus capressifornis, of the sandawood family, the edible fruit of which consists of a fleshy, cherry-like pedicel bearing a single-seeded int. See *cherry1. 3 (b).—New Mexican cherry. Same as *Mexican *cherry.—Same as *pin-cherry.
Same as *islay.—Pigeon-cherry. Same as *pin-cherry.
—Poison black cherries.—Queensland Cherry, the fruit of a shrub or small tree of the spunge family, *Antdesma Dallachyanum.* It is the size of a large cherry, and has a sharp, seid flavor resembling that of the red currant, and, like it, makes a good jelly.—Quinine cherry. Same as bitter *cherry.—Sour cherry, *Prinus Cerasis, the fruit of which is sour in a wild state.—Spanish wild cherry. Same as bitter *cherry.—Fischerry.—Sour cherry, *Prinus Cerasis, the fruit of which is sour in a wild state.—Spanish wild cherry. Same as bitter *cherry.—Fischerry.—Sour cherry, *Prinus Cerasis, the fruit of which is sour in a wild state.—Spanish wild cherry. Same as bitter *cherry, *Prinus demissa, a wild cherry of the western United States which ranges from the Rocky Mountains to the Pacific coast; it is a small tree and bears pleasantly flavored fruit somewhat resembling that of the choke-cherry, —West Indian cherry. (a) See Barbados cherry under cherry! (b) Prunss spherocarpa, a small evergreen tree which ranges from sonthern peninsular Provida to the West Indies and Braz

sular Florida to the West Indies and Brazil.—Wild black cherry, the black cherry or rum-cherry, Prunus serotina.
—Wild cherry, a name applied (a) specially to the sweet cherry, Prunus avium, in a wild state, and (b) generally to any of the native American cherries, as P. serotina, P. Virginiana, P. Pennsylvanica, etc., and particularly to the less-known species, such as P. enarginata, P. Alabamensis, and P. australis.—Wild red cherry, (a) See pin-cherry. (b) Improperly, P. angustifolia, the Chickasaw plum (which see, under plum1).—Willow-leaf cherry, Prunus salicifolia. It has willow-like leaves, and ranges from southern New Mexico and Arizona to Colombia and Peru.

cherry-aphis (cher'i-ā"fis), n. A plant-louse,

Myzus cerasi, which infests the leaves of the eherry in the early summer. cherry-birch (cher'i-berch'), n. See birch, 1. cherry-borer (cher'i-bor"er), n. The larva of an Australian tortricid moth, Maroga gigantillar which began into the truth and limbe of tella, which bores into the trunk and limbs of the cherry, plum, apricot, nectarine, and quince in Australia.

cherry-bug (cher'i-bug), n. An American coreid bug, Metapodius femoratus, which attacks the fruit of sweet varieties of cherry in the southwestern United States. Also known as the thighed metapodius (which see, under

cherry-fair (cher'i-far), n. [ME. chery feire.] A fair held in cherry-orchards, in some parts of England, for the sale of the fruit: long re-garded as typical of the shortness and uncertainty of life and the fleeting nature of its pleasures: as,

Al ia but a chery feire,

Cherry-fairs are still held in Worcestershire . . . on Sunday evenings, . . . and being almost always a resort of lovers, and the gay portion of the lower classes [they] may appropriately retain their significant type of the uncertainty and vanity of the things of this world.

cherry-louse (cher'i-leus), n. An aphidia, Myzns cerasi, which attacks the buds and young foliage of the cherry.

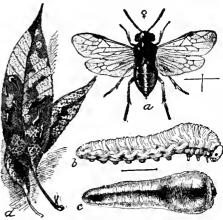
cherry-red (cher"i-red'), a. Clear, moderately dark red in color.—Cherry-red heat, a temperature higher than dull red and lower than hright red, as these colors appear in heated iron in daylight.

cherry-seeder (cher'i-se"der), n. A machine for removing the pits from cherries and other fruits. It is essentially a double-bladed knife which moves



α, knife for cutting out stone: b, handle, with return spring, for operating kulle; c, clamp.

in guides, and is operated by hand. It cuts out and removes the pits and delivers the pits and the fruit separately. cherry-slug (cher'i-slug), n. The larva of an American saw-fly, Eriocampoides limacina.



Cherry-slug (Eriocampoides limacina). a, adult saw-fly; b, c, slug; a, b, c, enlarged; d, leaves showing slugs at work, reduced. (Marlatt, U. S. D. A.)

cherry-stoner (cher'i-sto"ner), n. Same as *eherry-seeder.

*Cherry-tree bark-louse, an American lecantine, Lecanium cerasifez, which lives on the twips and small branches of the cherry-tree.—Cherry-tree plant-louse, an aphidid, Myzus cerasi, which lives on the leaves and buds of the cherry-tree.—Cherry-tree scale-insect. Same as *coral *hark-louse.—Cherry-tree thecla. Same as *coral hairstreak.—Cherry-tree ugly-nest tortricid, an American tortricid moth, Archips cerasivorana, whose larvæ make unsightly webs among the leaves of the chokecherry and sometimes of the entity and the cherry tree than the cherry and sometimes of the chitavated cherry.

Characteridae (kin-sid(ridā)) n. nl. [NL.]

Chersydridæ (ker-sid'ri-dē), n. pl. [NL., \langle Chersydrus, a genus of snakes ($\langle \chi \varepsilon \rho \sigma \sigma \rangle$, dry land, $+ \dot{v} \delta \rho a$, a water-snake), $+ -i d \omega$.] A family of ugly but harmless snakes, of aquatic habits. They have the postfrontals bounding the orbits posteriorly and extended forward to form their superior borders, to the exclusion of the frontals. The species are

cherubic, a. 2. Of, pertaining to, or exhibiting the childish innocence of the 'cherubs' or winged child-angels represented by painters and seulptors. See cherub, 2.—Cherubic friar, a Dominican friar: so called because it was assumed that the Dominicans were given especially to the pursuit of knowledge, a quality ascribed in angelology to the cherubim.

cherubimical (cher#ö-bim'i-kal), a. Same as cherubinnic.

chervil, n.-Sweet chervil. (b) Same as sweet

Cheshire cheese. See *cheese1.

chess¹, n. 2†. Dice. Pope (trans.), Odyssey, I. 143.—Blindfold chess, a game of chess conducted by a player who does not see the board. The eyes of the player are seldom or never actually blindfolded.

player are seldom or never actually blindfolded.

Chess?, n.—Red chess, a brome-grass. Bromus rubens, introduced into the Pacific States from sonthern Europe. It is noxious in sheep-pastures because its awns become entangled in wool. The panicle is tinged with reddish brown. Also called red brome.

Chessy (ches'i), a. Characteristic of good chess-play: as, chessy situations. N. E. D. Chest!, n. 6. The funds of a public institution, or the strong box, coffer, or place where such funds are, or are supposed to be, kept; the treasury: as, a military chest; the uni-

versity chest: the chest for the relief of maimed mariners; etc.—7. In organ-building, see wind-chest.—Barrel-shaped chest, a general rounded bulging of the chest which moves but little during respiration: a condition present in emphysema of long duration.—Cobbler's chest, a deformity of the chest marked by a sinking in at the lower extremity of the sternum.—Dropsy of the chest, hydrothorax.—Funnel-chest. See *fund-chest.—German chest, an inclined rectangular howased in washing ore, having several rows of holes closed by pegs, which are inserted in succession from the bottom as the chest fills up 12 a square buddle. The heads or rich mineral settle near the upper end of the box, the middlings are found at the lower end, and the tailings or waste flow out at the end holes. When the box is full the different products are shoveled out.—Keeled chest. Same as *chicken-breast.—Phthinoid chest, a narrow chest markedly flattened anteriorly.—Pigeon-chest. Same as *chicken-breast.

Chest-bars (chest bars), n. pl. A pair of fixed vertical bars used in exercising the chest and arms. They are placed parallel to each other so that versity chest; the chest for the relief of maimed chew-stick, n. 2. In Sierra Leone, the root of

arms. They are placed parallel to each other so that they may be grasped while the chest is thrown forward

between them.

chested (chest'ed), a. 2. In archery, gradually decreasing in diameter from a point between the nock and the center to both ends: said of an arrow.

Chester limestone. See *limestone

tude, or manner of a 'chesty' person; defiant self-assertiveness on the part of an ignorant and pretentious person. [Recent slang, U. S.] chest-machine (chest'ma-shen'), u. A machine used in gumpnious to d. u. the action was discovered. chine used in gymnasiums to develop the museles of the chest.

chest-mangle (chest'mang gl), n. See man-

chestnut, n.—Chestnut disease. See *disease and *Acrospeira.—Golden-leaved chestnut, the western chinkapin, Castanopsis chrysophylla. See chinkapin, 2.—Gulana chestnut, the seeds of Pachira aquatica, a large tree of Guiana and the lower Amazon.—Kafir chestnut. Same as wild chestnut.

chestnut-blight (ches'nut-blit), n. A fungus, Diaporthe parasitica, very destructive of the chestnut-borer (ches'nut-bor er), n. An in-Chicago blue, gray, orange, pool. See *blue, seet which infests the chestnut.—Two-lined chestnut-borer, the larva of an American buprestid beetle, Agrilus bilineatas.

chesty (ches'ti), a. [chest1, n., + -y1.] flated with an undue feeling of one's portance, and inclined to show it in an impudently aggressive way; ignorantly and pretentiously self-assertive. [Recent slang,

Cheval, n.—A cheval, (b) in gambling, hetting on two events at the same time.—Petits chevaux, a substitute for roulette, in places where roulette is forbidden. Nine models of horses with jockeys on them, each numbered, are rapidly revolved in concentric circles, and the players bet on the number of the horse that will have his nose nearest the wire when they all come to rest. Bets may he made on single numbers, paying 7 for 1, or on the numbers 1, 2, 3, 4, or 6, 7, 8, 9, paying even money.

Chevalet, n. 2. In gluss-manuf., a grooved beneft for holding cylinders of broad glass before they are spread out.

fore they are spread out.

fore they are spread out.

Chevalier crab. See *crab!.—Chevalier d'or, the French louis d'or which has on it a Maltese cross.—Chevalier of fortune, one who lives by his wits: same as ehevatier d'industrie.—The Chevalier, James Francis Edward Stuart, son of James 11. of England, the Old Pretender; also, Chevalier de St. George.—The Young Chevalier, Charles Edward Stuart, or Prince Charlie, the Young Pretender.

Chevered* (shev'èrd, chev'èrd), p. a. [Also erron. chivelled (in the one quot. known 1658).

erron. chivelled (in the one quot. known, 1658); a reduced form in ignorant use of chevroned (spelled chevrened in 1543): see chevroned.]
Same as chevroned. Alice M. Earle, Costume

of Colonial Times, p. 141.

Chevé system. See *system.

cheville, n. 2. A meaningless or redundant syllable, word, or phrase used to complete a verse or round off a period.

The genius of prose rejects the cheville no less emphati-

cally than the laws of verse.

Contemporary Rev., April, 1885, p. 551.

Cheviot finish, a coarse, closely curled nap given to woolen cloth, as cheviot.

chevron, v. 5. pl. In carp., a pair of rafters set up and meeting at the ridge; or two rafters held together at the foot by a tie of some kind chicken-corn (chik'en-kôrn), n. A form of and therefore ready to put into place as a truss. chevronelly (shev'ro-nel-i), a. Same as chevroné.

chevy, n. 2. The game of prisoners' base. Chevy-chase (chev"i-chas'), n. A scampering noise or chasing about; a running pursuit See Chevy Chase in the Century Cyclopedia of Names.

chew, v. t.—To chew oakum (naut.), said of a vessel when it grinds the ealking out of its seams by its working. This occurs either from weak construction or from heavy

the eola, Bichea acuminata, which is chewed for the purpose of cleaning the teeth and sweetening the breath.

ch. g. An abbreviation of chestnut gelding. Ch. hist. An abbreviation of church history. chi¹ (kī, chē), u. The twenty-second letter of the Greek alphabet, X, χ , corresponding to the

English ch. \mathbf{chi}^2 (ėliī), n. [Also chigh; appar. California

 cmi (em), n. [Also engm. appar, camorina Indian. Cf. hitch².] A fish, Lavinia exilicanda: same as *hitch².
 chiaroscuro, n. 4. A style of painting on enameled pottery practised by the Italian potters. chiasmal (ki-az'mal), a. [chiasm + -al¹.] Of the nature of a chiasm; crosswise: as, chiasmal interpositions.

chiasmic (ki-az'mik), a. [chiasm +-ic.] Same as *chiasmal. Buck, Med. Handbook, II. 252. chiaster (kī'as-ter), n. [Appar. \langle Gr. $\chi \bar{i}$, the letter X, + $a\sigma\tau\eta\rho$, star.] In sponge-spicules, an aster with slender cylindrical rays.

chiastically (ki-as'ti-kal-i), adr. In the manner of a chiasmus.

chiastoneury (kī-as-tō-nū'ri), n. [Gr. χιαστός, arranged X-wise, + νεῦρον, nerve.] The condition of having the pleuroviseeral connectives crossed, as in the prosobranchiate gastropods.

chibinite (chi'bi-nīt), n. [Finnish Chibinä, on the Kola Peninsula, Finland, + -ite2.] In petrog., a name given by W. Ramsay (1899) to a variety of nephelite-syenite containing ægirite, aemite or arfvedsonite, and eudialyte, and having a somewhat laminate texture.

chicago (shi-kā'gō), r. t. [In allusion to the assumed meaning of Chicago, namely, 'skunk' (it really means 'at the place of the skunk or skunks').] In card-playing and other games, to 'skunk' or 'whitewash' (an opposing side); that is, to prevent it from scoring any runs or points. [Slang, U. S.]

chicane, n. 3. A quibble: as, a chicane about words.—4. In bridge whist, a hand which is void of trumps; it entitles the holder to score simple honors. When the hands of two partners are both void of trumps it is called double chicane.

chicane.

chicayote (chē-kā-yō'te), n. [Also chilacayote, chilleoyote, chilicothe, etc.; Nah. chichic, bitter, + ayotli, gourd or squash.] A name in Mexico of several wild gourd-like plants, especially of Cucurbita factidissima, which is also known as calabacilla amarga ('bitter gourd'), and of Cucurbita radicans. The name appears and of Cucurbita radicans. The name appears in various forms. In California, as chilicothe, it is applied to Micrampelis macrocarpa. See *chilicothe and calabazilla.

chicharo (ehē'chā-rō), n. [Sp. chicharo, pea or pea-vine.] In Porto Rico, a name applied to a number of small leguminous vines, especially the lablab, Dolichos Lablab.

chicharro (chē-chār'rō), n. [Sp., prob. < chicharra, an imitative var. of cigarra = It. cigala, cicala, \(\chi\) L. cicada, a cicada. \(\) A carangoid fish, Trachurops crumenopthalmus, found on both coasts of tropical America. Also called goggler, goggle-eyed jack, and big-eyed

chicken-berry (chik'en-ber"i), n.; pl. chicken-berrics (-iz). [A substitution for checkerberry.]
Same as checkerberry, in both senses.
chicken-bill (chik'en-bil), n. The sora, Porzana carolina, so called from its short bill.
[Local southern U. S.]

chicken-breast (chik'en-brest). n. A condition in which the sternum projects forward, the arch of the ribs on either side being flattened. chicken-bug (chik'en-bug), n. A bug that iufests ehickens.—Mexican chicken-hug, a cimicid or bedbug, Acanthia inodora, which attacks poultry in Mex-ico and has also been found in southern New Mexico. See

durra, Andropogon Sorghum cernuus, with the densely flowered panicle abruptly bent or reeurved so as to point downward. It is largely cultivated as a cereal in Africa and to some extent in Asia, and is sometimes planted in America, its seed being valued as chicken feed. Also called white Egyptian corn. See sorghum, 2.

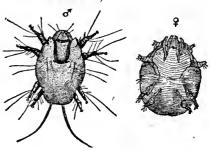
Chicken-fixings (chik'en-fik" singz), n. pl. Something niee in the way of food, or better than usual. [Colloq., U. S.] chicken-fiea (chik'en-fiō), n. A tropical and

subtropical insect of the family Pulicidæ, Sar-

copsylla gallinacca, of wide distribution. It is especially attracted to poultry but also attacks young kittens, puppies, calves, colts, and even children. Chickenhood (chik'en-hùd), n. The state or condition of a chicken.

chicken-louse (chik'en-lous), n.; pl. chickenlice (lis). Any one of several mallophagous parasitie insects, as, (a) Goniocotes abdominalis, the large chicken-louse; (b) Goniodes dissimilis, the chicken Goniodes; (c) Lipeurus hetero-graphus, the Lipeurus of the chicken and pheasant; and (d) Lipeurus variabilis, the variable chicken-louse.

chicken-mite (chik'en-mit), n. 1. A minute, almost microscopic mite, Cytoleichus (formerly Cytodites) nudus, of the family Cytoleichidæ, which infests the air-passages and air-eells, and other portions of the domestic fowl. It is called the internal chicken-mite. - 2. A similar mite of the same family, Lamniosioptes cysticola, which occurs on the skin, but commonly penetrates also the subcutaneous connective tissues, where it gives rise to a calcarcous cyst. It infests chickens, geese, and pheasants, and is called the cystic fowl-mite.—3. The itch-mite of fowls, Sarcoptes (Cnemidocoptes) mutans and gallinæ, serious enemies of domestic fowls.-4. Same as *chicken-tick, 1.



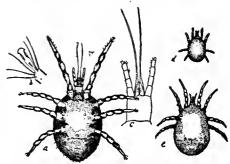
Chicken-mite (Sarcoptes mutans). Male and Female. (After Robin.)

chicken-pecked (chik'en-pekt), p. a. Ruled, eontrolled, or worried by wilful children. Compare henpecked. [Humorous, U. S.] chicken-pepper (chik'en-pep"er), n.

small-flowered crowfoot, Ranunculus abortivus, of the United States, which has numerous small achenes in globular heads.

chicken's-toes (chik'enz-tōz), n. The glasswort, Salicornia herbacca; also the coralroot, Corallorhiza odontorhiza. The allusion is to the fruiting spikes of the former and the roots of the latter.

chicken-tick (chik'en-tik), n. 1. Dermanyssus gallinæ, a mite of the family Dermanyssidæ, a most pernicious pest of the hennery, which gathers on the fowls at night and sucks their blood. Sometimes they infest human beings. causing acariasis. Also called chicken-mite.



Chicken-tick (Dermanyssus galling), a, adult; δ, tarsus; ε, mouth-parts; d, and ε, young. All enlarged. (Osborn, U. S. D. A.)

2. An ixodid mite, Argas miniata (americana Pack.) which does great damage among poultry, especially in the Southern States, where it ranges from Texas to California. Infested chickens droop, refuse to eat, and finally drop and die.

chicken-turtle (chik'en-ter"tl), n. A small, common, fresh-water turtle, Chrysemys reticulata, of the southern United States. See chicken-tortoise.

chickweed, n.—Barren chickweed, Cerastium arvense oblompifolium, of the eastern United States.—Chickweed geometer. See *geometer.—Germander chickweed, the field-speedwell, Veronica agrests.—Great chickweed. See Stellaria.—Ivy-chickweed.

Same as germander *chickweed.—Sea-chickweed. See sea-chickweed.—Star-chickweed. Same as great *chickweed.—Star-flowered chickweed. Same as star-flowered (a).—Water-chickweed. See water-chickweed. Water mouse-ear chickweed, one of the water-chickweeds,

chicle (ehik'l, Sp. ehē'klā), n. [Amer. Sp.]

Same as chicle-gum.

chico² (chè'kō), n. [Short for. Sp. chicozapote, Nah. xuotzapott.] In the Philippine Islands, the sapodilla, Sapota zapotilla, a tree of Mexiean origin. See sapodilla.

Chico group. See *qroup1 chicolar (ehik-ō-lär'), n. [Perhaps a variation of escolar.] A deep-water tropical fish. Same as *escolar.

chicot (shē-ko'), n. [F., a stump or stub.] A French-Canadian name of the Kentucky coffeetree, Gymnocladus dioica (which see, under coffee-tree).

coffee-tree).

chidra group. See *group.

chief. I. n.—Chief of ordnance, the senior officer of the ordnance department in the United States army.—

Chief of staff. (a) In the United States army, a general officer temporarily detailed by the President to exercise general supervision over all troops of the line and the staff-corps and departments of the army. (b) The senior general-staff officer on the staff of the commander of an army, army-corps, division, or department. (c) The senior officer on the personal staff of a flag-officer in command of a fleet or squadron. When practicable, he is senior in rank to all other officers under command of the flag-officer.—Chief petty officer. See *officer.—Maori chief, Natothenia corticeps, a fish of the family Trackiniate found in the waters of Australia and New Zealand.

II. a.—Chief officer (naut.), the deck-officer next he-

II. (a.—Chief officer (naut.), the deck-officer next helps the captain in rank; the first mate; the other of whom would devolve the command in the event of the disability or removal of the captain.

chiffon, n. 2. A thin gauze.—Chiffon lace, silk-embroidered chiffon.

chi-fu (chē-fö), n. Same as chih-fu. chiga (chē-gä), n. [Native name.] A tree of the senna family, Campsiandra comosa, found in the Guianas and Venezuela. Its large flat seeds contain starch and are used as food by the natives.

chigger (ehig'ér), n. A perverted form of chigge. Compare jigger2. Cambridge Nat. Hist., VI, 525.

chigh (ehi), n. Same as *chi² or *hitch. chigce, n. 2. A larval harvest-mite, as the chigce, n. 2. A larval harvest-mite, as the so-called Leptus irritans. Same as red-bug and

chigoe-poison (chig'ō-poi"zn), n. The strangler-trees, Clusia alba and C. rosea. See Clusia

and *aralie

Chihuahuan (chē-wä'wan), a. Of or pertaining to Chihuahua, Mexico: iu biogeog., inhabiting the region in the neighborhood of Chihuahua, a portion of the Sonoran subregion of the austro-oeeidental life-district of the Ameriean continent.

chi-hwan (ché-whän), n, ph. [Chinese chi, raw, untamed, + hwan, in Mandarin dial. fan, barbarians.] The aborigines of Formosa who have not been assimilated by the Chinese, or one of them. They occupy the mountainous

one of them. They occupy the mountainous portions of the island, chikore (chi-kōr'), n. [Also chickore, chikor, chuckoor, chukore, chukor (NL. chukor), prop. chakor, < Hind. chakōr, < Skt. chakōra, tho red-legged partridge.] The red-legged partridge of the Western Himalaya, Northern Puntridge of the Western Himalaya, Northern Himalaya, Northern Himalaya, Northern Himalaya jab, and Afghanistan. The name is also applied by sportsmen to the snow-cock of Ladak, Tetraogallus himaluyeusis, and Ortygornis galaris, a handsome partridge of castern Bengal.

chilacayote (ehi"lä-kä-yō'tā), n. [One of the modifications of Mex. chicayote, bitter-gourd.] A name in California and northern Mexico of several wild eneurbitaceous plants. See cala-

bazilla and *chicayote.

bazua and *cneayote.

chilarium (kī-lā'ri-nm), n.; pl. chilaria (-ā).

[Nl., ⟨ Gr. χειλος, lip, + L. -arium.] 1. Tho

stylet-shaped process behind the mouth in

Limulus.—2. In bot., a structure in the seedcoat of Phaseolus, consisting of two valves
which by hygrometric movements cause its rupture

childhood, n.—second childhood, the childishness often incident to old age; dotage. childle (child'i), n. [child + -ic².] A little

ehild: a fond diminutive.

childing dalsy. See *daisy. children's-bane (chil'dren (chil'drenz-ban), n. The American water-hemlock, Cicuta maculata: so called because its root causes death to children who mistake it for an edible root. Also called children's-death.

children's-death (ehil'drenz-deth), n. Same as *children's-bane

child-study (ehild'stud-i), n. Systematic phys-

iological and psychological study of children Chilocorus (ki-lok'ō-rus), n. [N1... < N1... and their ways, especially in regard to their educational adaptabilities and capacities, with a view to determine effective methods of teaching and of overcoming disabilities.

Chilean cedar. See *ccdar. Chilhowee sandstone. See *sandstone. chiliadic (kil-i-ad'ik), a. [chiliad + -ic.] Of or pertaining to a chiliad. chiliarchy, u. 2. The post of chiliarch. chiliastical (kil-i-as'ti-kal). a. Chiliastic; also

inclined to favor the views of the chiliasts. chiliastys (kil-i-as'tis), n. [Gr. dial. χιλιαστίς, in dialects of Ephesus and Samos, Gr. χιλιάς, a thousand: see *chiliad*.] In *Gr. antiq.*, in Ephesus or Samos, a tribe or division of one thousand eitizens. Jour. Hellenie Studies, VIII. 107.

chilicote (ehe-li-ko'ta), n. hilicote (chĕ-li-kō'tā), n. [Mex. Sp.: seo *chicayotc.] A name in northern Mexico of Erythrina coralloides, a small thorny trifoliate tree belonging to the Fabacex, the hard searlet seeds of which were formerly strung into necklaces by the Indians. They are ground to a powder and are used medicinally in some parts of Mexico, both as an external application for headache and internally as an emetic. Like other bright-colored seeds used for beads they are also called colorin and peonia.

chilicothe (chi-li-kô'thê), n. [One of the modifications of the Mex. chicayote, bitter-gourd.] A name in California of several wild cucum-A name in California of several wild cucmmbers, especially of Micrampelis macrocarpa. The fruit, when green, is a large prickly ball, but when ripe it becomes lily-like through the rolling back of the segments of the capsule, which are internally pure white. The large brown hard seeds resemble beaus. They are strung into necklaces by the Indians. This plant and others resembling it have enormous tuberous roots, on account of which they are sometimes called man-root, or old-man-in-the-ground. See *\(\phi\)ciagopte and *\(\phi\)chilicote. Chilicoyote, n. Same as chilacayote.

Chilidium (ki-lid'i-um), n.; pl. chilidia (-\vec{u}), [NL., \lambda Gr. xi'v'or, a beak, + dim. idium.] In the *Brachiopoda*, a convex plate which ap-

the Brachiopoda, a convex plate which appears in mature stages of some of the species as an outside envelop of the cardinal proeess of the dorsal valve. It is analogous to the deltidium of the ventral valve, but is not homologous therewith either in origin or function.

Chiliferidæ (kī-li-fer'i-dē), n. pl. [NL., $\langle Gr.$ Chiliferidæ (kī-li-fer'i-dē), n. pl. [N1., \ Gr. χ'νος, lip, + L. frrc, bear.] A family of ciliate Fratozoa, of the order Holotrichida. They have the month in the anterior part of the body or near the middle, the pharynx undeveloped or small, and undulating membranes at the edge of the month or in the pharynx. The family includes the genera Leucophrys, Glaucoma, Colpoda, and others.

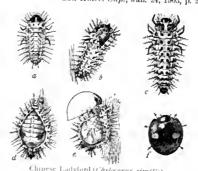
Chiliomb (kil'i-om), n. [Gr. χνισμβη, formed in imitation of καστόμβη, heeatomb.] A sacri-

in imitation of έκατόμιβη, heeatomb.] fice of a thousand (oxen). N. E. \bar{D} .

chilitis (ki-li'tis), n. [N.L., < Gr. χείλος, lip, + -itis.] Inflammation of the lip.

Chilled iron. See *tron.—Chilled meat, etc., meat, fish, poultry, and other food material kept at a moderately low temperature, but not always frozen, in a cold-storage warehouse or in the cold-room of a steamer.

Chill-harden (chil'hār"dīn), v. t. To harden (chil'hār"dīn) when the cold-room of the chil'hār dīn (chil'hār"dīn) when the chill harden (chil'hār"dīn) when the chillen is the cold-room of the chillen c



lip, + (appar.), sopos, sprout, shoot.] An important genus of coccinellid beetles, of wide distribution and comprising more than 30 species, all of which are important enemies of scale-insects. Chiral important enemies of scale-insects. Chiral series is the twice-stabled ladybird of the United States, and C. samila is the Chinese ladybird imported into the United States by the United States begantinent of Agriculture, from China, to destroy the San José scale.

chilomalacia (kī-lō-ma-lā'si-ä), n. [NL., < Gr. chiloschisis (ki-to-ma-ta si-h), n. [NL., Ntr., γείλος, lip, + μαλακία, softness.] Same as noma. chiloschisis (ki-los'ki-sis), n. [NL., ⟨Gr. χείλος, lip, + σχίσις, cleavage, separation, ⟨σγζείτ, eleave, separate: see schism.] Same as harelin.

chilostome (ki'lō-stōm), u. and u. I. u. Any member of the Chilostomata.

II. a. Pertaining to or resembling the Chilostomata.

chiltern (chil'tern), n. and a. [Chillern, a local name.] I. n. A kind of dry, open soil characteristic of certain parts of England.

II. a. Characterized by the prevalence of the soil known as chiltern: as, chiltern coun-

chimborazite (chim-bō-rā'zīt), n. [Chimborazo (where found) + $-itc^2$.] Same as arayonite. chime¹, v. t. 3. To announce, indicate, sum-

mon, or bring about by chiming or stroke of bell: as, to chime (or strike) some particular hour; to chime one to sleep, or to supper, etc. Chime-and-chime, end to end : said of harrels so ranged of one butts against the head or bottom of

chimney, n. 4. (e) A vent through which volcanic eruption has taken place.

He [De Launay] believes that since the cavities which He [Fe Launay] believes that since the cavities which contain the serpenthine pipes are in the nature of volcanie chinneys, water, penetrating to the contact of a molten metallic bath charged with various carburets, caused the sudden formation of earburets of hydrogen, and by their explosion the opening of the volcanic chinneys.

Smithsonian Rep. (Nat. Mus.), 1900, p. 505.

5. A very narrow cleft in a cliff.

I lowered myself through the *chimney*, however, by making a fixture of the rope, which I then cut off, and left behind, as there was enough and to spare.

Whymper, Scrambles among the Alps, p. 119.

chimney-sweep, n. 4. In angling, an artificial tly used in salmon-fishing: named from its black color. -- Chimney-sweep's cancer. See *can-

chimopelagic (kī"mō-pē-laj'ik), a. [Gr. χείμα, winter, + πέλαγος, sea.] Rising to the surface of the sea in winter, but living in the depths of the sea during the warm season. Many Particles of the sea during the warm season. Radiolaria, Medusa, Siphonophora, pteropods, and heteropods are chimopelagie. See *allopelagie, *bathypclagie, *nyctipelagie.

chin, v. i. 2. In gymuastics, to lift the weight of the body by the arms on a horizontal bar until the chin is brought over the bar. Also used transitively: as, to chin the bar.

Chin. An abbreviation of (a) China; (b)

storage werehouse or in the cold-room of a steamer.

Chill-harden (chil'hār'din), v. t. To harden (steel) by heating it to a cherry-red heat and cooling it suddenly by water or a jet of air. The carbon enters into combination with the iron and the saked is resistant to abussion, and has a high elastic limit. See chill-hardening and chilled casting.

Chilli sauce, a highly-seasoned tomato sauce flavored with chillies.—Chilli vinegar, vinegar flavored with red peppers and need as a sauce.

Chill-room (chil'rôm), n. A cold-storage room or refrigerator chilled by pipes in which cold brine circulates: used to chill meats, etc.

In the preservation of meat, from the time that the best sheep, or hog is killed, it is kept in cold storage or chill rooms, until the time that it is taken from the refrigerator chilled. It is kept in cold storage or chill rooms, until the time that it is taken from the refrigerator of prepared for the table.

Sci. Amer. Sup., Jan. 24, 1903, p. 22629.

Sci. Amer. Sup., Jan. 24, 1903, p. 22629.

Chinese Ludylard (Chilowarus similis).

Chinese Ludylard

ironstone.—Log-cabin china. See Columbian Star ★china.—Lovejoy china. See antislatery ★china.— Martha Washington china, French porcelain table-ware decorated with a chain of fifteen links, each contain-

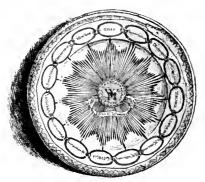


Plate of Martha Washington China.

ing the name of one of the States, and, as a central device, the monogram M. W. in a golden simburst. Around the edge of each piece is a painted serpent, forming a complete circle. This service is supposed to have been presented to Mrs. Washington by the French officers who had fought with the Continental army. The design has been extensively copied.—Masonic china, china decorated with emblems of the order of Freemasons. Hardpaste porcelain punch-bowls, jugs, and other articles so ornamented were made in China and taken to England and the United States by the East India Company. Masonic cream-ware was also produced in Staffordshire early in the nineteenth century, with transfer-printed symbols and inscriptions. Pitchers and mugs of this character, with black and green devices, were also made in Liverpool for the British and American trade, many of which survive in private and public collections.—Millenium china, plates and other pieces of a table-service bearing a printed device in color showing a lion ted by a child, surrounded by lambs, the all-seeing eye, and quotations from the Bible: a popular design produced by Staffordshire potters about 1835.—Nanking china. Same as India *china.—Stone china. Same as ironstone *china and white *granite.—Syntax china, blue china with printed designs after Rowlandson's illustrations of William Combes Tours of Dr. Syntax: made at Cobridge, Staffordshire, by James Clews, early in the nineteenth century.

(khina? (ké'nä), n. [Erroneons spelling of king.

china (kē'nā), n. [Erroneous spelling of kinu or quina, perhaps suggested by the unrelated chinchona, cinchona.] 1. Cinchona bark. - 2. Quinine.

China box, brier. See box1, *brier. chinaldine (ki-nal'din), n. Same as *quinal-

collecting china.

Like other mild forms of insanity, chinamania has its peculiar phases, and attacks different individuals in very different ways. All the Year Round, April 3, 1875, p. 11.

chinamaniac (chī'nā-mā"ni-ak), n. One who is smitten with the chinamania; one who has a craze for collecting china.

china-metal
† (chī'nä-met"al), n. An old name in Europe for porcelain and majolica ware before their true nature had become known.

Their Venice-glass, and Phrslane and China-Metal, cracks with as slight a blow as pots of coarser Clay.

A. Walker, Leez Lachrymans, p. 13. N. E. D

chinamine (kin'a-min), n. Same as quinamine. china-root, n. 3. Smilax Pseudo-China. See china *brier.

chinaseptol (kin-a-sep'tōl), n. chinaseptol (kin-a-sep'tōl), n. A yellowish, crystalline compound ($C_9H_5(OII)$, SO_3II .N) bearing the same relation to chinoline that phenol-sulphonic acid does to benzol: used as an antiseptic as a substitute for salol. Also called diaphtol.

china-steps (chī'nä-stepz"), n. pl. A pyramidal stand consisting of two or more steps on which china was formerly displayed. It was usually placed on the top of a high-boy.

China-town (chī'nā-toun), n. A section of a town in the United States occupied chiefly by Chinese and in which they live more or less in accordance with their own customs.

in accordance with their own customs. China wood-oil. See *wood-oil. Chinch-bug, n.—False chinch-bug. (a) An American anthocorid bug, Triphteps insidiosus, which resembles the true chinch-bug, but is carnivorous, preying upon plant-lice and other small soft-bodied insects. (b) An American lygacid bug, Nysius augustatus, frequently mistaken for the chinch-bug. It is wide-spread and damages grape-vines, strawberry-plants, and garden vegetables. See Nysius, with cut.—Minute false chinchbug, a bug, Nysius minutus, of the family Lygaide, somewhat resembling the chinch-bug. It feeds on crueiferous plants. eiferous plants.

chin-chin¹ (chin'chin'), n. [A corruption of Chinese ts'ing, ts'ing (or ch'ing, ch'ing), in Chinese ts'ing, ts'ing means beg, pray, request, have the Chinese. Purchas.

Deniker, Races of Man, p. 542. as snow-blindness.

Chineses. Chinese or Chineses. (kī-ǫ-nas'pis), n. [Gr. χιων, snow, + ἀσπίς, a shield.] A genus of scale-insects.

the goodness or the kindness to, please. The reduplication is much used in Chinese formal redupheation is much used in Crinese formal intercourse to introduce many polite phrases which are seldom completed: as, "I pray you" (do not stir); "allow me" (to refill your wine-eup); "please! please!" (no more for me); "1 pray you" (to allow me to take my departure), that is, "to say good-by," etc.] 1. A Pidgin-English form of salutation: as, chinatical states were made to the product of t chin! old man, what place you go?

On the thirty-sixth day from Charing Cross a traveller can . . . he making his chin-chin to a Chinese mandarin.

Pall Mall Gaz., April 15, 1885.

2. One's greetings, respects, or regards: as, please give my *chin-chins* to A when you see him.—3. A parting salute; 'good-by.' chin-chin' (chin'chin'), v. t. To greet; salute;

pay respects.

The helle of the tankas arrives first; and showing her beautiful white teeth as she "chin-chins" the captain, makes fast to our paddle-box.

All the Year Round, April 30, 1859, p. 18.

chinchin² (chin-chin'), n. [Chilean.] 1. An evergreen shrub or small tree, Azura microphyllu, of the family Flacourtiaccæ, or its hard wood. It is often cultivated as an ornamental plant and bears exceedingly fragrant small green flowers. - 2. An ornamental shrub, Polygala thesioides, native of Chile and Bolivia, bearing blue flowers. See Polygala.

A simplified spelling of chincough, chine-gall (chīu'gal), n. Rheumatism of horses and cattle which becomes localized in the muscles of the loins. Also called lumbago and chine-felon.

chinela (chē-nā'lā), n. [Sp. chinela, chancla = Pg. chinela = Cat. chinella = It. pianella, a slipper, dim. of Sp. *chano (otherwise llano) = Pg. chão = It. piano, flat, level, plane: see plane1, plain, and piano.] In Spanish-speaking countries, a slipper; in the Philippine Islands, a native slipper without a heel and with a very small upper which barely covers the toes: worn by

Chinese artichoke. See \star chorogi.— Chinese banana, brake, cat, etc. See \star banana, \star brake, \star cat1, etc.— Chinese potato, Chinese yam. See \star cinnamon-vine and yam, 1.

chin-fly (chin'fli), n. A horse bot-fly, Gastrophilus nasalis, possibly so called because its eggs are laid about the horse's mouth where they can be reached by the tongue of the horse and thence carried to its stomach.

dine. Ch'ing porcelain. See *porcelain¹. chinamania (chī'nä-mā"ni-ä), n. A craze for chinin (kin'in), n. [china² + -in².] Same as auinine.

chink 1 , n. 2. The variegated pattern shown by oak and other woods when cut across the grain.

In discussing with my agent the difference between the wood of the sweet chestnut and that of the oak, he spoke of the *chink* of these woods, meaning the variegated pattern which they present when sawn.

N. and Q., June 2, 1900, p. 432.

chink⁶ (chingk), n. [Appar. a var. of kink¹.] A sprain of the back. [Eng. dial.] Chink⁷ (chingk), n. A Chinaman. [U. S.

slang. 1

chin-key (chin'kē), n. In psychophys., an electric key which is closed or opened by the movement of the lower jaw: used in reaction experiments. Scripture, Exper. Phonetics, p.

Chinkie (ching'ki), n. [Chink? + -ie2.] A Chinaman. [Australian slang.]

The pleasant traits of character in our colonialised Chinkie, as he is vulgarly termed (with the single variation 'Chow').

A. J. Boyd, Old Colonials, p. 233.

chinkle¹ (chingk'l), n. [Var. of kinkle¹.] Naul., a turn or kink in a rope.

chinkle² (chingk'l), v. t. [Freq. of chink².] To tinkle or cause to tinkle; produce a continued 'chinking' sound: as, to chinkle the

small coins in one's pocket. chin-music (chin'mū"zik), n. Persistent chat-

ter or talk. [Slang.] chinny (chin'i), a. [chin + -y1.] Talkative; given to talk. [Colloq.]

I forgot all about the old lady, though she was more chinny than the young one.

Bread-winners, vii. Chino (chē'nō), n. [Appar. orig. Sp. chino, a

Chinese.] A person of one quarter Indian and three quarters negro blood. [Mexico.]

An Indian marrying a negress produces a "Sobo," and the latter engenders with a negress a "Chino." Deniker, Races of Man, p. 542.

The Chinoys who live at the bounds of the earth. Sir T. Browne.

chinoiserie (shē-nwoz-rē'), n. [F., < Chinois, Chinese.] 1. Chinese conduct, methods, or ways of doing things; a Chinese characteris-1. Chinese conduct, methods, or

The men occupied the carved teakwood stools about a large table. . . . The women stood by and served them. . . . The whole was a bit of bright chinoiserie worth in itself a journey to witness.

B'. H. Bishop, in Harper's Mag., May, 1883, p. 830.

2. A Chinese curio, knickknack, or product: "Japanese tea-trays, chinoiseries," Miss Braddon.

Chino-Japanese (chī'nō-jap-a-nēs or -nēz"), a. and a. I. a. Relating to both China and Japan: as, Chino-Japanese relations; Chino-Japanese trade.

II. n. The Chinese language as used and

pronounced in Japan: as, kai for Chinese hai, the sea; Tō Kiō for Chinese Tung King, Eastern capital (the city formerly known as Yedo); do for Chinese tao, road, circuit; mei or mio for Chinese ming, bright, clear, distinguished, etc. Also called Sinico-Japanese.
Chinoline blue. See *blue.
Chinologist (chī-uol'ō-jist), n. Same as sinol-

Chinology (chi-nol'ō-ji), n. [China + -ology.] Same as sinology.

Chinook salmon. Same as quinnat.

chinoral (ki-nō'ral), n. [*chino² (quina) + (-chl)oral.] An oleaginous, very bitter liquid containing quinine and chloral hydrate: used internally as a hypnotic and externally as an antiseptic. Also quinoral.

autiseptic. Also quinoral.

chinosol (kin'ō-sol), n. [*china² (quina) + -ose + -ol.] Same as *quinosol.

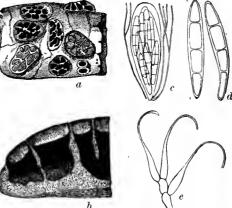
chinovic (ki-nō'vik), a. [*china² (quina) + 1. orum, egg. + -ic.] White, and derived from china (quina) or cinchona bark.—Chinovic acid, a white, finely crystalline powder of undetermined composition, contained in cinchona bark and also obtained by decomposing chinovin by boiling with dilute acids.

chinoving (ahin'ō vin) n. [ahinovi(a) + in² 1]

chinovin (chin'ō-vin), n. [chinov(ic) + -in².]
A whitish, intensely bitter glucoside of uncertain composition, extracted from cinchona bark.

chin-strap, n. 2. A strap which passes under the jaw of a horse and connects with the nosepiece and bridle-checks.

Chiodecton (kī-ō-dek'ton), n. [NL. (Acharius, 1814), so called in allusion to the white thallus,



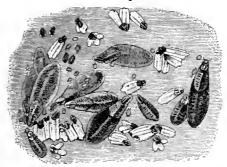
Chiodecton myrticola.

a, plants showing habit; b, section through a strona and the apothecia; c, ascus and paraphyses; d, spores; c, sporophores with pycnospores; c, d, and e greatly enlarged. (From Engler and Pflantl's "Pflanzenfamilien.")

< Gr. χιων, snow, + (appar.) δεκτός, acceptable (pleasing?).] A large genus of crustaceous lichens with Chroölepus gonidia and more or less disciform apothecia, either sunken in or seated upon a stroma. Most of the species occur upon bark in tropical or subtropical

Chiodectonaceæ (kī-ō-dek-tō-nā'sō-ō), n. pl. [< Chiodecton + -accæ.] A family of crustaceous lichens, named from the genus Chiodecton and having the apothecia mostly sunken in stromata.

chionablepsia (kī/o-na-blep'si-ä), n. ⟨ Gr. χιων, snow, + ἀβλεψία, blindness.] Same, as snow-blindness.



Orange Chionaspis (Chionaspis citri), illustrating a group of the female and male scales as they occur on a leaf. Enlarged about seven diameters. (After Marlatt.)

Orange Chionaspis, a diaspine scale-insect, Chionaspis itri, of wide distribution, which affects the foliage and bark of citrus plants.

This species (Chionaspis citri Comstock) occurs in the orange groves of the Eastern United States, and is also especially troublesome in Louisiana, as first shown by the observations of Dr. Howard, and, later, of Professor Morgan. The latter reports it as being very prevalent from New Orleans to the Gulf, and that its presence on the trees causes a bursting of the bark and very urly wounds.

Yearbook U. S. Dept. Agr., 1900, p. 270.

Chionodoxa (ki"ō-nō-dok'sä), n. [NL. (Boissier, 1844), in allusion to their early-blooming habit, \langle Gr. $\chi\iota\omega\nu$, snow, $+\delta\delta\zeta\alpha$, glory.] A small genus of hardy bulbous plants of the family Liliaccæ; the genus includes 4 species which are natives of Crete and Asia Minor which are natives of Crete and Asia Minor (Mt. Tarsus). The flowers are small and hine (running into white and red forms), with recurved, spreading, acute segments, dilated fliaments, and small or capitate stigma. They are among the best of early flowering plants, blooming in February, March, and April, according to the locality, with the early snowdrops and scillas. Since their introduction to cultivation in 1877, they have been widely cultivated under the name glory of the snow. chionophilous (kī-ō-nof'i-lus), a. [Gr. χιών, snow, + φιλείν, love.] Preferring the winter: applied specifically by Ludwig to the winter-leaves of Helleborus fatidus.

chionophobous (ki-o-nof o-bus), a. [Gr. χαών, snow, + φοβείν, fear.] Shunning the winter: applied specifically by Ludwig to the summerleaves of Hellchorus fatidus.

chip1, v. i. 4. In poker, to bet a counter of the smallest value, in order to keep in the pool until others declare.

chip1, n. 9. Specifically, in gem-cutling, cleavage which weighs less than three fourths of a carat.—Chip bark, the broken pleces and chips of cinchona bark, used principally by manufacturers of quinine and other alkaloids, in distinction from druggist's bark, which consists of the finer unbroken quills.—Saraerk, which consists of the finer unbroken quills. toga chipa, potatoes cut into thin slices, crisply fried, and dried in an open oven.

chip3 (chip), n. 1. In wrestling, a special mode of throwing one's opponent; a trick. N. E. D.

-2. A quarrel; a falling out; a 'spat.' [Prov. Eng.]

chipa (chē 'pä), n. [Quicha chipa, Aymará cchipa, cover, wrap around, as a bundle.] In South America, a not made of leather thongs, used for transporting fruit and also heavier

loads. Trunka and boxes are usu-ally covered with a chipa to protect them on long and difficult journeys. chipped (chipt),

[Also chipt, $\langle chip1 + -ed2.$ Having small pieces or flakes broken off: made by a process of chipping: said of implestone ments made of flint, obsidian, and brittle flint. jasper,



stone, small chips being taken off by pressure. The edges of stone imple-ments are also chipped by nipping.

Chippendale (chip'en-dal), n. The name of an English designer and maker of furniture, Thomas Chippendale, who published a book of designs in 1752, and whose name became attached to a style of furniture prevalent from the middle to the end of the eighteenth century. The designs were an English adaptation of contemporary French styles. The general characteristics were elaboration and delicacy, with an affectation of simplicity not founded on solidity. A style of book-plates is also known by this name. See **furniture.

The earlier examples [book-plates] of this Chippendale manner are tolerably ponderous and simple. Encyc. Erit., XXVI. 304.

chipper¹, n. 2. A large marble used by boys in Scotland to chip at and scatter a row of marbles while standing at a certain distance. Also called a plunker.—Pneumatic chipper, a small impact-machine worked by compressed air, used for chipping or cutting metal; a pneumatic hammer used for chipping. The pneumatic chipper replaces the hammer and cold-chisel and does the work more quickly and with less exertion on the part of the operator.

chipper² (chip'er), n. [From *chipper², v., freq. of chip².] Twitter; chatter. [Dialectal.]

The wreaths of foam (of the sea] . . . made a mirthful chipper and laugh under the song of the soaring larks.

E. Burritt, Walk to Land's End, p. 314.

chipper3 (chip'er), v. t. To make 'chipper'; cheer up.

Perhaps the hardest thing that Sylvia did through the day, was the setting to work to chipper her mother up.

Mrs. Whitney, Other Girls, xviii.

Chippewayan (chip-e-wā'yan), a. and n. I. a. Of or pertaining to the Chippeway, Chippewa, or Ojibwa tribe, one of the Athapaskan tribes of Canada.

II n. A member of that tribe.

chipping-hammer (chip'ing-ham"er), n. 1. hammer weighing about a pound and a half, used for striking the head of a chipping-or cold-chisel.—2. A pneumatic hammer used for chipping; a pneumatic chipper (which see, under *chipper¹).

chipping-machine, n.—Pneumatic chipping-ma-chines, hand-held machines in which the chiscl-edge is driven against the surface to be chipped by the action of air upon a piston with great frequency and intensity.

chipping-strip (chip'ing-strip), n. Same as

chip-syringe (chip'sir"inj), n. A rubber bulb with a fine nozle attached, used for blowing or washing away the dust (chips) during the exeavation of a tooth-cavity.

chiquechique (chō kā-chē kā), n. [Carib name.] In Venezuela, the bast-palm, Attalca funifera, or its fiber, piassava. See Attalea and

piassava, 1. chiral (ki'ral), a. [Gr. χείρ, hand, + -al.] Of or pertaining to the hand. See *chirality.

chirality (ki-ral'i-ti), n. [chiral + -ity.] In optics, the power possessed by certain crystals and optically active substances of turning the plane of polarization of light to the right or left hand.

The book is largely a new creation. It surveys a vast range, all the cognate subjects on which the author feels, that he has something new to communicate—laws of diffusion of gases, transparency of the sky, detailed dynamics of optical churality, motion of molecules through aether, etc.

Nature, May 5, 1904, p. 5.

chirapsia (kī-rap'si-ä), n. [NL., Gr. χειραψία, a touching or rubbing with the hands, < χείρ, hand, $+\hat{a}\pi\tau\epsilon\omega$, touch.] Friction with the hands; rubbing; massage.

chirarthritis (ki-rär-thri'tis), n. [NL. \langle Gr. $\chi_{\ell\ell\rho}$, hand, $+ \frac{\partial \rho}{\partial r} \bar{\nu}_{\ell}$, inflammation of the joints: see arthritis.] Inflammation of the joints of the hand and fingers.

chiratin (ki-rā'tin), n. [NL. chirata + -in2.] A neutral, yellow, resinous, intensely bitter + ism.] Same as chiropody. compound, C₂₆H₄₈O₁₅, found in the stalks of chiropodistry (ki-rop'ō-dis-tri), n. [chiropodistri (Swertia Chirata).

chiratogenin (kir-a-toj'e-nin), n. [NL. chirata + -gen, produced, + -in².] An amorphous, neutral compound, $C_{13}H_{24}O_{3}$, formed, together with ophelic acid, by the hydrolysis of chiratin.

Chir. B. An abbreviation of the Latin Chirurgiæ

Baccalaureus, Bachelor of Surgery. Chir. D. An abbreviation of the Latin Chirur-

giæ Doctor, Doetor of Surgery. chirivita (chế-rệ-vế'tặ), n. [Cuban Sp. chi-ribita, also chiribico, a fish so called; a West Indian fish, Pomacanthus arcuatus: ef. Sp. chiribitas, pl., floating specks in the eyos (muscæ volitantes).] A fish, the same as black *angel.

Very unlike . . . to a set of chipped instruments belonging to the . . . period of the cronflechs in France and England.

E. B. Tylor, Early Hist. of Mankind, viii.

Chirization (kī-ri-zā'shon), n. [Also cheirization] thou, $\langle *chirize(Gr, \chi i\rho, hand, + -ize) + -ation.]$ The process of development by which the bond The process of development by which the hand has become a more and more important element in human activities; also a supposed correlated process of development of mobility and of increasing importance of centrifugal over centripetal movements.

Now pedal development is one of the special processes of peripheral (or centrifugal) functioning and growth involved in the general process of cheirization, which, coordinately with cephalization, defines human progress; and this developmental process explains the specialization of the Seri along one or more lines, and connects the special development directly with environing conditions.

17th An. Rep. Bur. Amer. Ethnol., i. 157.

Chirk' (chérk). n. A perverted form of chert.

Chirl (chérl), r. [An imitative var., in freq.

form, of chirk1, chirm. The Sp. chirlar, prattle, chirriar, chirp, are imitative words of independent origin.] I. intrans. To sing warble; chirm.

II. trans. To warble like a bird. chirl (cherl), n. [chirl, v.] 1. A kind of musical warble.

His [Leigh Hunt's] voice, in the finale of it, had a kind of musical warble (chirl we vernacularly called it) which reminded me of singing birds.

Carlyle, in Mrs. Carlyle's Letters, I. 2.

2. Same as chirm, n., 2.

chirls (cherlz), n. In mining, coal which passes through a harp or screening-shovel; small coal free from dirt. Also churrels. [Scotch.] chirognomist (ki-rog'nō-mist), n. [chirognom-y + -ist.] One who tells fortunes or reads

character by an inspection of the hand or the lines on it; a palmist. chirograf, n. A simplified spelling of chiro-

araph. chirografy, n. A simplified spelling of chirog-

chirograph, n. 2. A contrivance for holding a beginner's hand in a prescribed position while he is learning to write.

while he is learning to write.

chirographal (ki-rog'ra-fal), a. [chirograph
+-al¹.] 1. Relating to chirography.—2. In
one's own handwriting; autographie.

chirographary (ki-rog'ra-fa-ri), a. [ML.
chirographarius, < chirographam, chirograph.]

Of or pertaining to, or given in, one's own
handwriting: as, a chirographary creditor,
that is, one who holds an acknowledgment of
indebtedness in the debt or's own handwriting. indebtedness in the debtor's own handwriting. chirol (ki'rôl), n. [Gr. χειρ, hand, +-ol.] An antiseptic varnish consisting of an ethercoalcoholic solution of various antiseptic oils and resins.

chiromegaly (ki-rō-meg'a-li), n. [Gr. $\chi \epsilon i \rho$, hand, $+ \mu \epsilon \gamma a \lambda i a$, largeness.] Enlargement in all dimensions of the hands.

chirometer (ki-rom'e-têr), u. [Gr. χείρ, hand, + μέτρον, measure.] An instrument used to measure slopes and angles of elevation, as the angle of elevation of a rifle, or the angle of heel when a ship rolls.

chironomid (kī-ron'ō-mid), a, and n. I. a. Of or belonging to the dipterous family Chironomidæ.

II. n. A member of the dipterous family Chironomidæ.

chiropodalgia (kī"rō-pō-dal'ji-ä), n. [NL., \langle (ir. $\chi \epsilon i \rho$, hand, $+ \pi o i \varphi$ ($\pi o \delta$ -), foot, $+ \tilde{u} \lambda \gamma o \varphi$, pain.] Severe pains in the hands and feet occurring in acrodynia. chiropodical (kî/rō-pod'i-kal), a. Of, pertain-

ing to, or involving chiropody.

As we passed rapidly over a woodland space, something hint my foot, and taking off my shoe, I found that a small *chiropodical* operation was necessary. *Geo. MacDonald*, Wilfred Cumbermede, xvii.

chiropodism (kī-rop'ō-dizm), n. [chiropod-y

chiropodology (ki/rop-ō-dol'ō-ji), n. [Gr. $\chi \epsilon i p$, hand, $+ \pi \sigma i \gamma$ ($\pi \sigma \delta$ -), foot, $+ - \lambda \sigma \gamma i a$, $\langle \lambda \epsilon \gamma \epsilon i \nu r$, speak.] 1. Same as chiropody.—2. A treatise on, or the sum of knowledge regarding, chi-

chiropterophilous (ki "rop-te-rof'i-lus), a. [NL. chiroptera, bats, + Gr. φιλείν, love, + -ous.] In bot., pollinated by the agency of bats.

Chirosaurus (kī-rō-sâ'rus), n. [Also Cheiro-saurus: NL., < Gr. χείρ, hand, + σαῦρος, lizard.] Same as *Chirotherium.

chirospasm (kī'rō-spazm), n. [Gr. xείρ, hand, + σπασμός, contraction: see spasm.] Same as Chirotherium (kī-rō-thē'ri-um), n. [Also Cheirotherium: XL., \langle Gr. $\chi \varepsilon i \rho$, hand, $+ \theta \eta \rho i \sigma v$, a wild beast.] An extinct reptile, or, as now supposed, a stegocephalian amphibian, whose supposed, a stegocephalian amphibian, whose usually five-toed tracks (indicating a large hind foot and smaller fore foot) occur in the Triassic sandstones of Germany and Great chit?, n. 3. Also used attributively. See usually five-toed tracks (indicating a large hind foot and smaller fore foot) occur in the Britain. Also Chirosaurus.

Chirotrichidæ (kī-rō-trik'i-dē), n. pl. [NL., Chirothrix (-trich-) + -idæ.] A family of extinct malacoptery gian fishes known geologically from the Cretaecous period.

chirotype (ki rō-tīp), n. [Gr. $\chi \epsilon i \rho$, hand, $+ \tau i \pi \sigma \varsigma$, type.] A specimen upon which a mauuseript name, or chironym, is based.

chirper, n. 2. A chirping cup; 'the cup that cheers.' [Colloq.]

Hand up the chirper! ripe ale winks in it;

Let's have comfort and be at peace.

G. Meredith, Juggling Jerry, st. 11.

chirpiness (eher'pi-nes), n. A chirpy state or

quality; liveliness.

He saluted us with a cricket-like *chirpiness* of manner. W. D. Howells, Italian Jonneys, p. 248.

chirping (eher'ping), p. a. 1. That which chirps (as a bird or cricket).—2. That which cheers or enlivens: as, a chirping cup or glass.

—3. Merry; hilarious; lively.

This earol plays, and has been in his days A chirping boy and kill-pot;

Kit Cobbler it is, I'm a father of his,
And he dwells in the lane called Fill-pot.
B. Jonson, The Masque of Christmas, st. 8.

4. Talkative.

He liked drink, too, which made him chirping and nerry.

Thackeray, Catherine, viii.

chirpling (cherp'ling), n. [chirp + -ling1.] A little chirper; a young bird. N. E. D. chirr (cher), n. [chirr, v.] A monotonous, sharp, stridulous sound such as that made by

the cricket or cicada.

chirrup², v. I. traus. 2. To cheer or applaud (a public singer or the like, and for pay).—3. To produce or utter chirpingly.

If part of their [ants'] building is destroyed, an official is seen coming out to examine the damage; and after a careful survey of the ruins, he *chirrups* a few clear and distinct notes.

Livingstone, Exped. to Zambesi, ix.

II. intrans. 1. To produce with compressed lips and suction a sharp explosive chirping sound by way of greeting or pleasing an infant or a cage-bird, or of coaxing and encouraging a dog or a horse, etc.—2. To converse or sing in a lively manner or in sprightly tones.

Then she is so accomplished—so sweet a voice—so expert at her harpsichord—... how she did chirrup at Mrs. Piano's concert!

Sheridan, Rivals, ii. 1.

Chirruper (chir'up-èr), n. [ehirrup². v. t., 2, + -er¹.] One who chirrups or applauds; a professional applauder.

Did poet or painter . . . ever have a chirruper in their employment? The players and singers in music-halls cannot, it seems, do without him. It is his generous office . . to inaugurate the applause.

J. Payn, in Illus. London News, March 17, 1888, p. 268.

chisel², n.—Blacksmith's chisel, a heavy hammer having a chisel-shaped peco.—Box-chisel, a double-bladed chisel for opening packing-boxes.—Cow-mouthed chisel, a round-nosed cold-chisel ground to a blunt angle, used for chipping hollows in metal.—Mortising-machine chisel, one of the special types of chisel used in power mortising-machines.

chiseled, p. a. 2. Shaped like a chisel: as, a

erowbar with a chiscled edge.

chisel-edged (chiz'el-ejd), a. Having the shape of a wedge, with the cutting edge at the base:

chisel-edged (chiz'el-ejd), a. Having the shape of a wedge, with the cutting edge at the base: of a wedge, with the cutting edge at the base: said of an arrow-head.

chiseler, chiseller (chiz'el-er), n. [chisel², v., + -er¹.] One who works with a chisel; one

who carves, cuts, or shapes with a chisel. chisel-gage (chiz'el-gāj), n. A depth-gage adapted to a chisel: used in making slivers or chips in flooring where the chips are to be turned back again and glued down to hide a nail-head.

chiseling, chiselling (chiz'el-ing), n. Chiseled work.

Do we not shun the street version of a fine melody?—or shrink from the news that the rarity—some bit of chiselling or engraving perhaps . . is really not an uncommon thing, and toay be obtained as an every day possession?

George Eliot, Middlemarch, v. 47.

chiselmouth (chiz'el-mouth), n. A eyprinoid fish, Acrocheilus alutaceus, found in the lower Columbia river and its tributaries, as far up as Shoshone and Spokano Falls. Also called chiselmouth jack.

chisel-rod (chiz'el-rod), n. A steel rod rolled

to a suitable section for the forging of cold or chivarras, chivarros (che-var'ras, -ros), n. pl. other chisels.

chit¹, n. 3. pl. Small rice.

chitty-faced2.

But no thanks to that little jilting devil, Jenny Dennison, who deserves a tight skelping for trying to lead an honest lad into a scrape, just because he was so silly as to like her good-for-little chit face.

Scott, Old Mortality, x.

chitarra (kē-tār'rā), n. [It.: see cithara and guitar.] An Italian musical instrument of the quitar.] An Italian musical instrument of the lute family, but with a flat back and wire strings, like the guitar. It was first used in the sixteenth century.

chitarrino (kē-tār-rē'nō), n. [It., dim. of chitarra.] A small chitarra, especially popular in Naples.

chitarrone (kē-tār-rō'ne), n. [lt., aug. of chitarra.] A large chitarra, usually with a double neck, much extended, very similar to that of the theorbo and archlute. For a time from the latter part of the sixteenth century the chitar-rone was much used as the bass instrurone was finen used as the bass instru-ment in groups of stringed instruments. The distinction between chitarrone and archlute is not always observed in usage. Properly the latter was a true lute, while the former was closer to the guitar.

The chitarrone with its very long open bass strings dates from 1589 and was used in orchestras in 1607.
Science, May 29, 1903, p. 870.

chitenidine (ki-ten'i-din), n. [chiten(ine) +-ul +-ine².] A erystalline alkaloid, C₁₉H₂₂O₄ N₂ + 2H₂O, formed by the oxidation of quinidine in an acid solution of potassium permanganate. It melts with decomposition at 240° C. position at 246° C.

chitenine (ki'ten-in), n. [Appar. < chi(na²) + -t + -en + -ine²] A crystalline alkaloid. -ine².] A crystalline alkaloid, $C_{19}H_{22}O_4N_2 + 4H_2O$, formed by the oxidation of quinine sulphate with potassium permanganate.
The anhydrous base melts at

chitinous, a.—Chitinous degeneration. Same as amploid degeneration.

chiton, n. 3. In zoöl., an investing membrane or sheath.

Chitonelloidea (kī-tō-ne-loi'dē-ā), n. pl. [NL., Chitouellus + -oidea.] A group of irregular chitons having the posterior valve funnelshaped and the laminæ thrown forward. contains the genera Chitonellus and Choneplax. chitosamin (kī-tō-sam'in), n. [chit(in) + -ose

tained by heating chitin to 180° C. with a very concentrated solution of potassium hydroxid.

concentrated solution of potassium hydroxid. chitosarc (ki'tō-särk), n. [Gr. $\chi\iota\tau\omega\nu$, chiton, $+\sigma\Delta\rho\xi$ ($\sigma\Delta\rho\kappa$ -), flesh.] That region of the body of protozoans, as the Sarcodina, in which the shell is formed. Wallich. chitose (ki'tōs), n. [chit(in) + -ose.] A simple sugar, $C_6H_{12}O_6$, obtained on oxidation of chitosamin (glucosymin)

chittering-bite (chit'er-ing-bit), n. A bit of bread eaten by boys who have been swimming, to prevent shivering or the chattering of their teeth with the cold; a shivering-bite. Also called chittering-crust and chittering-piece. Scotch.1

chittering-crust (ehit'er-ing-krust), n. Same as *chittering-bite.

chittering-piece (chit'er-ing-pes), n. Same as

*chittering-piece (cuit ering-pes), n. Same as *chittering-bite.

chiule (kē-ūl'), n. [ML. chiula (Nennius), cyula (Gildas), \(AS. ciol, cēol, ON. kiōll, kjōll, a ship: see keell.] An artificial term representing a Middle Latin form, in medieval British historians, of the Anglo-Saxon and Norse name for a 'long ship' or ship of war.

chivalry, n.—Age of chivalry, the period, from the eleventh to the fourteenth century, during which the system of knightly military service, with all its privileges and its high ideals of valor, generosity, courtesy, etc., prevailed.—The flower of chivalry, the more illustrious portion or most illustrious member of any company of armed knights.

[Mex. Sp.] Leggings. [Southwestern United States.]

chivo (chē'vō), n. [Sometimes erroneously read or written chiro; (Sp. chibo, a kid, in Cuba also a goat. Names of the goat are often transferred to fish.] A mulloid fish, Upeneus grandisquamis, found from Guaymas to Panama.

Ch. J. An abbreviation (a) of chief justice, (b) of chief judge.

Chlamydobacteriaceæ (klam'i-dō-bak-tē-ri- $\bar{a}'s\bar{e}-\bar{e})$, n. pl. [NL. (Migula), \langle Gr. $\chi\lambda\mu\nu\bar{e}$ ($\chi\lambda\mu\nu\bar{e}$), mantle, + Bacteriaeeæ.] A family of filamentous hacteria consisting of rod-shaped cells surrounded by a distinct sheath. Reproduction is by means of either motile or nonmotile spores.

Chlamydomonadidæ(klam"i-dō-mō-nad'i-dē), n. pl. [NL., \(Chlamydomonas (-nad-) + -idx. \)]
A family of Protozoa, of the order Phytoflagellida. They have usually a greenish body with a delicate membranous shell, 1 or 2 contractile vacuoles at the base of the flagella, and a single stigma or eye-spot. This family includes the genera Chémydomonas, Chlorogonium, Polytoma, Hæmatococcus, and others.

Chlamydomonadina (klam"i-dō-mon"ä-dī'nä), n. pl. [NL., \(\) Chlamydomonas (-nad-) + -ina.]
A suborder of flagellate Protozoa, of the order Phytoflagellida, including the families Chlamydomonadidæ and Phacotidæ.

Chlamydomonas (klam"i-dom'o-nas), n. [NL., ⟨ Gr. χλαμύς (-νδ-), mantle, + μονάς, a unit.]
The typical genus of the family Chlamydomonadidæ. Ehrenberg, 1834.

Chlamydothrix (kla-mid'ō-thriks), n. [NL. (Migula, 1900) (in allusion to the sheathed filaments), ζ Gr. χλαμίς (χλαμνδ-), a mantle, + θρίξ, hair.] A genus of filamentous bacteria consisting of cylindrical cells arranged in nonmotile, unbranched, sheathed filaments. Reproduction is by means of non-motile, spherical or ovoid spores, originating directly from the vegetative cells. C. (Cladothrix) ochracea is a common species occurring to water impregnated with iron. See iron-bacteria, under *bacterium.

Chlamysporum (kla-mis'pō-rum), n. [NL., (Salisbury, 1808), (Gr. χλαμύς, mantle, + απορά, (Salisbury, 1808), (Gr. χλαμές, mantle, + απορά, seed. The seed of the type species is hooded by an aril.] A genus of monocotyledonons plants of the family Liliaceæ. The type species, C. juncifolium, is a native of Australia and is sometimes cultivated. See Thysanotus.

Chloasma cachectloorum, discoloration of the skin occurring in the subjects of chronic disease.—Chloasma hepatleum, liver-spots; cutaneous discolorations accompanying hepatic disorders. Chloasma uterinum, brownish-yellow patches on the skin occurring in pregnant women.

nant women.

chloracid (klō-ras'id), n. [chlor(in) + acid.] In chem., an acid of which the electro-negative radical is or contains ehlorin.

Chloramida, n. pl. See *chlorhæmidæ. Chloral camphor. See *camphor.

chloral-acetophenonoxime (klō"ral-as"ō-tō-fen-ō-noks'im), n. Colorless prismatic crystals, C₆H₅.CH₃.C=ON.CH.OH.CCl₃, obtained by the interaction of chloral and acetophenonoxime at low temperatures. Upon contact with acids it decomposes into its components. Used in medicine in cases of epilepsy and tetanus.

chloralamide (klō-ral-am'id), n. [choral + amide.] A colorless crystalline compound, CCl₃-CH < OH NH₂, obtained by conducting dry

ammonia into a solution of chloral anhydrid in chloroform. It is an analgesic and hyp-notic remedy. It is official in the U. S. Pharmacopæia (eighth edition) under the name chloralformamidum.

chloral-ammonium (klō"ral-a-mō'ni-um), n. A colorless, crystalline compound obtained by passing dry ammonia gas into a chloroformic solution of chloral. It is almost insoluble in water, but when boiled with water decomposes into chloroform and ammonium formate: used as an analgesic and hypnotic.

chloralic (klō-ral'ik), a. [chlorol + -ic.] Derived from chloralose.—Chloralic acid, a crystal-line acid, $C_7 ll_9 Cl_3 O_6$, formed by the oxidation of chloral-ose. It crystallizes in needles which melt at 212° C.

chloralimide (klō-ral-ī'mid), n. [chloral + imide.] A colorless crystalline powder, (CCl₃ CII=NH)₃, obtained by heating chloral hydrate and dry ammonium acetate to boiling, and pouring into cold water. It is used as a hypnotic.

A name given to two compounds, C₈H₁₁O₆Cl₃, formed by the union of chloral and glucose.



chloraloxime (klo-ral-ok'sim), n. obtained by the action of various oximes upon chloral: as chloral-acetaldoxime (CCl₃. CHO-CH₃.CH.N.OH), chloral-benzaldoxime (CCl₃.CHO-C₆H₅.CH.N.OH), chloral-acetoxime (CCl₃.CHO-(CH₃)₂.CN.OH), chloral-camphoroxime (CCl₃.CHO-C₁₀H₁₆.N.OH), and others. When heated with water these complete the complex of the complex others. When heated with water these compounds decompose. They are used as hypnotics.

chloramine (klor-am'in), a. [chlor(in) + amine.] tains chlorin.—Chloramine *brown, *green, *orange, *yellow. See the nouns.

chloramylite (klō-ram'i-līt), n. [Gr. χλωρός, green, + άμυλου, starch.] Chlorophyl granule, derived from the transformation of starch.

chloranemia (klō-ra-nē'mi-ä), n. [Also chloro-anemia; NL. chloronæmia ζ Gr. χλωρός, green, άναιμία, bloodlessness (see anemia).] In med., same as chlorosis.

chloranemic (klo-ra-nem'ik), a. [chloranemia +-ic.] Same a book, VII. 608. Same as chlorotic. Buck, Med. Hand-

Chloranthaceæ (klo-ran-tha'se-e), n. pl. [NL. (Blume, 1830), \ Chlorauthus + -accæ.]
A family of dicotyledonous, archichlamydeous (largely achlamydeous) plants of the order *Piperales*, typified by the genus *Chloranthus*, and characterized mainly by the 1-3 stamens united with each other (when more than one) and with the ovary. There are 3 genera and about 33 species, natives of eastern Asia, India, the Paclic islands, and tropical America. They are herbs, shrubs, or trees with opposite stipulate leaves, and inconspicuous flowers in spikes or paniculate heads.

chloranthaceous (klo-ran-thā'shius), a. Belonging to the plant-family Chloranthaceæ. chlorapatite (klôr-ap'a-tit), n. [chlor(in) +

apatite.] An apatite containing chlorin. common varieties of apatite contain fluorin and are called fluorapatites. See apatite.

chlorate, n. Potassium and sodium chlorates are now manufactured on a large scale by electrolysis of strong solutions in water of the corresponding chlorids.

chloraurate (klőr-ářrát), n. [chlor(in) + aur(ic) + atel.] Same as *aurichlorud.
chlorazol (klőr-az'ől), n. [chlor(in) + az(o) + ol.] A substance containing chlorin and one or more azo- and hydroxyl-groups.-Chlorazol blue. See *blue. Chlorella (klō-rel'ä), n.

INL. (Beyerinck, 1890), < Gr. χλωρός, greenish yellow, + dim. -clla.] A genus of unicellular grass-green alge occurring in symbiotic relationship with Hydra, Paramacium, Ophrydium, and similar forms: the 'veliow cell' of Radiolaria.

chloremia, chloræmia (klō-rē'mi-ā), n. [NL. chloræmia, < Gr. χλωρός, green, + a'μa, blood.]

Same as chlorosis.

chloretone (klo're-ton), n. [chlor(oform) + -ct + -one.] A colorless crystalline condensation-product, $(CH_3)_2 : C < \frac{OH}{CCl_3}$, of chloro-

septic. Same as *acetone chloroform.

The majority of deaths occurred in rabbits, after chloretone or uretiane. The fatal dose for chloretone by stomach catheter, lies slightly above 16 cc. of a saturated solution per kilo.

Jour. Exper. Med., VI. 247.

Chlorhæma (klőr-hē'mä), n. [NL., irreg. Gr. χλωρός, green, + αιμα, blood.] The typical genus of the family Chlorhæmidæ. Dujardin, 1838.

Chlorhæmidæ, Chloræmidæ (klör-hē'mi-dē, klō-rem'i-dē), n. pl. [NL., < Chlorhæma + idæ.] A family of chætopod annelids, of the idæ.] A family of chætopod annelids, of the order Polychæta, having an elongated cylindrical body with green blood, the color being due to the presence of chlorocruorin. Also called Pherusidæ.

chlorhydrin (klör-hī'drin), n. [chlor(in) hydr(ogen) + -in².] A compound formed hydr(ogen) + -in².] A compound formed by replacing with chlorin one or more hydroxylgroups in a compound containing several such groups, especially the compounds formed from chloroform, n.—Acetone chloroform. See **acetone*.

— Methyl chloroform, the trade-name of 1,1,1- or a richborhohed chlorid chloroform. Trichborhohed chlorid on ethyl chlorid. It boils at 74.5° C. CICHCICH2CI.

chlorhydroquinone (klor-hī/dro-kwin'on), n. $\begin{array}{l} [chlar(in) + hydro(gen) + quinonc.] \quad A \ color-\\ less\ erystalline\ compound, C_6H_3Cl(OII)_2, made \end{array}$ by treating quinone with concentrated hydro-chlorogonidium (klowro-go-nid'i-um), n.; pl. chloric acid. It melts at 106° C.

One is difficultly soluble in water, is tasteless, and melts at 230°C. The other is easily soluble, tastes bitter, and melts at 180°C. Chloralose is used as a hypnotic.

chloraloxime (klō-ral-ok'sim), n. A class of crystalline compounds, employed in medicine, obtained by the action of various oximes the compounds of various oximes the compound of various oximes the compound of various oximes the compound of thiorid, n.—Alkaline chlorid, a compound obtained by the action of chlorin on alkaline bases.—Chlorid emulsion. See **emulsion.—Chlorid-of-gold cure. Same as **pade-cure.—Chlorid paper, plate. See **paper, compound obtained by the action of chlorin on alkaline bases.—Chlorid emulsion. See **emulsion.—Chlorid-of-gold cure. Same as **pade-cure.—Chlorid paper, plate. See **paper, compound obtained by the action of chlorin on alkaline bases.—Chlorid emulsion. See **emulsion.—Chlorid-of-gold cure. Same as **pade-cure.—Chlorid paper, plate. See **paper, compound obtained by the action of chlorin on alkaline bases.—Chlorid emulsion. See **pade-cure.—Chlorid paper, plate. See **paper, compound obtained by the action of chlorin on alkaline bases.—Chlorid emulsion.—Chlorid-of-gold cure. Same as **pade-cure.—Chlorid paper, plate.—Ethyl, ethylene, ethylidene, methyl, nitrosyl, stannic, stannous chlorid. See **ethyl, ethylene, chlorid paper, plate.—Ethyl, ethylene, ethylidene, methyl, nitrosyl, stannic, stannous chlorid. See **ethyl, ethylene, ethylidene, ethylidene, chlorid paper, plate.—Ethyl, ethylene, ethylidene, ethyliden

chloridation (klo-ri-da'shon), n. The act of chloridation (klo-ri-da shon), n. The act of ehloridizing or combining chemically with ehlorin. Silver is chloridized for the purpose of transforming it from a refractory compound to a compound (AgCl) which can be dissolved by suitable reagents and the precious metal so recovered. The operation of chloridizing is usually carried on in a roasting-turnace. During the operation a small amount of ordinary table salt (NaCl) is mixed with the ore, and this reagent effects the chloridation of the silver. chloridation of the silver.

Pertaining to an amine which con- chloriden (klō'ri-den), n. [chlorid + -cn for -cne.] Ethylidene chlorid or ethidene bichlorid, CH₃CHCl₂.

chlorimetry (klō-rim'e-tri), n. Same as chlo-

chlorin, n. Chlorin is now obtained on a great scale by electrolysis of a solution of common salt, the Castner process being that chiefly used. See Castner *process.—Chlorin peroxid, a dark-yellow gas, with a peculiar smell, obtained by cautionsly warming potassium chlorate with strong sulphuric acid. It decomposes with violent explosion on being heated or on contact with organic substances.—Chlorin water, water containing chlorin in solution: used in analytical chemistry.

chlorinate (klō'ri-nāt), n. [chlorin + -ate1.]
A term sometimes applied to the soluble bleaching-compounds obtained from caustic soda or potash by the action of chlorin-Labarraque's fluid and Javelle water respec- chlorophenin (klo-ro-fen'in), n. [chlor(in) + tively

chlorine² (klō'rīn or -rin), a. [Gr. χλωρός, light green, + -ine¹.] Of the color of young leaves; light green.

chloriniferous (klo-ri-nif'e-rns), a. [E. chlorin + L. ferre, bear.] Containing and capable of furnishing chlorin.

chlorinous (klo'ri-nus), a. [chlorin + -ous.] Related to or resembling chlorin: as, a chlorinous smell or taste.

chloris, n. 3. Same as flora, 2 (b).—4. [cap.] [NL. (Swartz, 1788).] A genus of plants of the family Poaceæ. They are mostly perennials, with flowers in digitately arranged spikes. There are about 40 species, widely distributed in tropical and warm regions, variously known as finger-grass, dog's tooth grass, feather-grass, windmill-grass, etc. Several species are cultivated as ornamental plants. See *finger-grass, 3.

Chloritic marl, in geol., a former designation of a division of the Lower Chalk of England.

chloritization (klō-ri-tī-zā'shon), n. [chlori-tize + -ation.] In petrog., the alteration of minerals in a rock into chlorite.

chloritize (klō'ri-tiz), v. i.; pret. and pp. chloritized, ppr. chloritizing. [chlorite + -izc.] In gool., to alter, as the ferromagnesian rockforming silicates (augite, hornblende, biotite, etc.), into the secondary mineral, chlorite.

At both walls of each apophysis the essential and normally abundant bisilicates of the granite are absent or are represented by rare shreds or plates of chloritized biotite.

Amer. Jour. Sci., Aug., 1903, p. 123.

chloritous (klō-rī'tns), a. [chlorite + -ous.] Same as chloritic.

chlormethane (klor-meth'an), n. Same as *methyl chlorid.

form and acetone. It is hypnotic and anti- chloroanemia (klo"ro-a-ne'mi-a), u. Same as \star chloranemia.

chlorobrom (klö'rō-brōm), n. A trade-name of a mixture of bromide of potassium and chloralamide in licorice-water, employed as a hypnotic and in seasickness

chlorocarbon (klō-rō-kār'bon), n. Carbon tetra-chlorid, CCl₄. chlorochromic (klō-rō-krō'mik), a. Obtained

from chlorin and chromic acid

Chlorococcaeæ (klo ro-ko-ka sē-ē), n. pl. [Chlorococcum + -accæ.] A subfamily of the Protococcaceæ (which see).

Chlorococcum (klō-rō-kok'nm), n. [NL., Gr. χλωρός, green, + κόκκος, berry (spore).] A genus of grass-green algae formerly called Cystococcus (which see).

chlorocruorin (klō-rō-krō'ō-rin), n. [Gr. χλωρός, green, + L. cruor, blood, + -in².] A green coloring-matter found in the blood of certain invertebrates.

and resembles chloroform in anesthetic properties.

chloroformamide (klō "rō-fôrm-am'id), n. [chloroform + amide.] Samo as *carbamic chlorid.

chlorogonidia (-ii). [NL., & Gr. χλωρός, green,

+ NL. gonidium.] A green gonidium, as of certain lichens. Compare chrysogonidium.

chlorohematin (klō-rō-hem'a-tin), n. [Gr. $\chi' \omega \rho \delta \varsigma$, green, + E. hemain.] Same as *hemin.

chlorol (klō'rol), n. [chlor(in) + -ol.] An aqueous solution containing 1 part each of mercuric chlorid, sodium chlorid, and hydrochloric acid, and 3 parts of copper sulphate: a disinfectant and deoderizer.

chlorometrical (klō-rō-met'ri-kal), a. Same as chlorometrie.

Chloromonadina (klo/rô-mon-a-dī'nä), n. pl. [NL., ζ Gr. χλωρός, green, + μανάς (μοταδ.), a unit, + -ina².] A group or suborder of flagellate *Protozoa*, of the order *Phytoflagellida*, having the body somewhat plastic and without a distinct membrane, and with numerous discoid chromatophores but no stigmata. It includes the genera Vacuolaria and Calomonas.

Chloropeltina (klō"rō-pel-ti'nā), n. pl. [NL., ⟨ Gr. χλωρός, green, + πέλτη, shield, + -ina².]
A family of euglenoid Mastigophora, of the order Flagellata, resembling Euglena, but having a thicker cuticle. It includes the genera Phacus and Lepocinclis.

chlorophanic (klō-rō-fan'ik), a. [chlorophane + -ic.] Pertaining to or derived from chlorophane.—Chlorophanie acid, a black crystalline organie acid obtained as a decomposition-product of chlorophane.

phen(yl) + -in².] A direct cotton coal-tar color. It is closely related to chloramine yellow. — Chlorophenin orange. See *orange.

chlorophore (klo'rō-tōr), n. [Gr. χλωρός, green, + -φορος, < φέρειν, bear.] Samo as chromatophore.

Chlorophyceæ (klō-rō-fī'sē-ē), n. pl.[Gr. χλωρός, grass-green, + $\phi \bar{\nu} \kappa o \bar{\nu} (\phi \nu \kappa_{-})$. seaweed, + -ex.] One of the principal classes of the algae containing the majority of the grass-green forms: formerly called Confervoidea, Confervacea,

and Chlorosporeæ. chlorophyceous (klō-rō-fī'sē-us), a. In bot., of or pertaining to the Chlorophyceæ or grassgreen algæ.

Chlorophyl body, corpusele, vesicle, a chlorophyl-grain or -granule.

chlorophyl-grain (klō'rō-fil-gran"), n. In bot.. one of the small bodies which bear the chlo-

rophyl, the green coloring-matter of plants. **chlorophyl-granule** (klō' rọ-fil-gran " ūl), n. Same as *chlorophyl-grann.

chlorophyllic (klō-rō-fil'ik), a. [chlorophyl(l) + -ic.] Of or pertaining to chlorophyl, the + ic.] Of or pertaining to chlorophyl, the green coloring-matter of plants. Simon, Physiological Chem., p. 21.

chlorophyllin (klo-ro-fil'in), n. [chlorophyl + -in².] A chlorophyl-liko coloring-substance found in the Dinoftagellidia; the green principle of chlorophyl.

chlorophyllose (klō-rō-fil'ōs), a. [chlorophyl] +-osc.] Containing chlorophyl; ehlorophyl-laeeous. Science, June 12, 1903, p. 936. chlorophyr (klō'rō-fir), n. [Gr. χλωρός, tight green, + (por)phyr(y).] In petrog., a name given by A. Dumont (1850) to porphyritie diorite or diorite-porphyry with quartz and an orthorhombic pyroxene: found at Quenast and Lessines, Belgium.

chloroplast (klō'rō-plast), n. Same as chloroplastid

chloroplastin (klō-rō-plas'tin), n. A proteid constituting the ground substance of the chlorophyl-granule. Schwarz.

chloroplatinate (klō-rō-plat'i-nāt), n. [chlo-r(n)+ platin-um + -atcl.] Same as *platim-chlorid. Sometimes incorrectly written platinochlorid, the name of a different compound:

nochlorid, the name of a different compound; as, potassium chloroplatinate, K₂PtCl₆. chloroplatinite (klō-rō-plat'i-nīt), n. [chloroplatin-ic + -ite².] A salt derived from chloroplatinous acid.—Chloroplatinite process, in photog., a process in which paper sensitized by a mixture of potassium chloroplatinite and ferric oxalate is changed on exposure to light, the ferric salt being reduced to terrous salt, which acts on the potassium chloroplatinite to liberate metallic platinum when the exposed paper is treated with a bath containing potassium oxalate.—Potassium chloroplatinite, a double salt of potassium and platinum, K₂PtCl₄, obtained as reddish deliquescent crystals, very soluble in water and slightly so in alcohol, by the reducing action of neutral potassium oxalate on a solution of platinic chlorid. This salt is employed in photography in the platinotype process.

chloroproteinochrome (klō-rō-prō-tē-im'ō-

chloroproteinochrome (klo-rō-pro-tē-in'ōkrōm), n. [E. chlorin + protein + Gr. χρώμα, color.] A chlorin substitution-product of tryptophane.

Chlorops.—Beet chlorops, an American oscinid fly, Chlorops assimilis, whose larva mines the leaves of the sugar-beet.

chloropsia (klō-rop'si-ä), n. [NL., \langle Gr. χλωρός, green, + όψις, view.] In pathol., a condition in which objects seen are of a green color.

chlororufin (klō-rō-rö'fiu), n. [Gr. χλωρός, green, + L. rufus, red, + -in².] The red pigment of the Chlorophycee, which is a reduced chlorophyl. Rostafiuski.

chlorosarcoma (klo″rō-sār-kō'mā), n.; pl. chlorosarcomata (-ma-tā). [NL., ⟨ Gr. χλωρός, green. + σάρκωμα, sarcoma.] Same as chlo-

chlorosis, n.—False chlorosis, the yellow condition induced in a plant by the water logging of the roots.

chlorospinel (klō-rō-spin'el), n. [Gr. χλωρός, grass-green, + E. spinel.] A grass-green variety of spinel in which iron replaces part of the aluminium.

chlorotic, a. II. n. One who suffers from chlorosis. Buck. Med. Handbook, l. 644.
Chlorous oxid, a mixture of chlorin with chlorin peroxid: formerly believed to exist as a distinct oxid of chlorin.

chlorovaporization (klo "ro-va "por-i-za 'shon), n. [chloro(phyl) + raporization.] In bot., a process analogous to transpiration taking Van Tieghem. lace in chlorophyl-granules.

chlorozincate (klō-rō-zing'kāt), a. [chlor(id)] blade of a knife). + zinc + -ate¹.] In the case of creatinine, in choiler (choi'lèr), n. One who makes choils in combination with zine chlorid: as, creatinine chlorozineate.

chlorozone (klor-o'zon), n. [chlor(in) + ozone.] The trade-name of a bleaching material of essentially the same character as Labarraque's fluid, but in solid form. It contains 11 or 12 per cent. of sodium hypochlorite. G. Lunge, Sulphurie Acid, III. 490.

chlorsalol (klōr'sal*ol), n. A white crystalline compound, C₆H₄(OH)CO.OC₆H₄Cl, obtained by the action of phosphorns pentachlorid on a mixture of ortho- and para-chlorophenol; chlorophenol salicylate; salicylic-chlorophenol-ester. It is insoluble in water, but soluble in alcohol. It differs from salol in containing an atom of chlorin in place of one of hydrogen. It is used internally as an intestinal autiseptic.

chlorsulphic (klor-sul'fik), a. [chlor(in) + 11. logh(ur) + -ic.] In petrog., a term used in lips and suctative classification of igneous rocks sound by way of describe a subdivision of igneous or a cage-bird, or ving equal or nearly equal pro-a dog or a horse, etrin, Cl, and sulphur trioxid, a dog or a horse, et vin, Cl, and sulphur trioxid, posite the chancel or pulpit. in a lively manner or ions may vary within the choir-leader (kwir'le"der), n. Same as *choir-

Then she is so accomplished pert at her harpsichord—... 5.

Mrs. Piano's concert! 5.

i-lit), n. [Gr. χλωρός,

chirruper (chir'up-er), n. je as *utahlite. +-er¹.] One who chirrups or iation of chairman. fessional applander. fla-jel'i-dä), n. pl.

+-cri.] One who chirrups or lation of charman. fessional applander.

Ha-jel'i-dā), n. pl.

H. flagellum, a employment? The players and singers in An order of not, it seems, do without him. It is his ophora, having to inaugurate the applause.

J. Payn, in Illus. London News, March 1: includes the chical?

chisel, a round-nosed cold-chisel ground to a blunuage for chipsple, and conservations for chipsple, and content chisel, a round-nosed cold-chisel ground to a blunuage for chipsple, hollows in metal.—Mortising A name chine chisel, one of the special types of chisel uscalia of chiseled n. a. 2 Shared like a blunuage for chores.

*Chiseled n. a. 2 Shared like a blunuage for chipsple and the special types of chisel uscalia of chipsple and the special types of chisel uscalia of chipsple and the special types of chisel uscalia of chipsple and the special types of chisel uscalia of chipsple and the special types of chisel uscalia of chipsple and the special types of chisel uscalia of choir-singer (kwir'sing"ér), n. One who sings in a choir or chorus.

chiseled, p. a. 2. Shaped like a chisel: as, crowbar with a chiseled edge. chisel-edged (chiz/el-ejd), a. Having the shape

of a wedge, with the cutting edge at the base: said of an arrow-head.

To we not shun the street version of a fine melody?—or shrink from the news that the rarity—some bit of chiselling or engraving perhaps . . . is really not an uncomon thing, and may be obtained as an every day possession?

George Eliot, Middlemarch, v. 47.

chiselmouth (chiz'el-mouth), n. A cyprinoid fish, Aerocheilus alutaceus, found in the lower Columbia river and its tributaries, as far up as Shoshone and Spokane Falls. Also called chiselmouth jack.

chisel-rod (chiz'el-rod), n. A steel rod rolled

a chock

chock-block (chok'blok), n. A small wedge choker, n. or block used to prevent a wheel or a log from

seed of the cacao, Theobroma Cacao. chocolatier (chok-ō-lā-tēr'), n. [F.] A chocolate-maker or -dealer.

choffer, n. A dialectal form of chauffer. Choice oil. See $\star oil$.

choice-reaction (chois're-ak"shon), n. In psychophys., a reaction in which the movement made in response to stimulus is the expression of an unt of choice. of an act of choice.

We cannot pass from the sensorial reaction to the choice-reaction . . . at one step. E. B. Titchener, Primer of Psychol., p. 259.

choil (choil), n. [Origin obscure.] In cutlery, the indentation in the blade of a knife where it joins the tang.

choil (choil), v. t. blade of a knife). To make a choil in (the

knife-blades. choir, n., 3. (b) All that part of a cruciform church which is beyond, eastward of or farther from the main entrance than the transept; the castern arm of the cross: so named because the choir proper (see def. 3) is usually in that part of the church and occupies nearly all of it.
Thus, without reference to the interior, one may say of a great church that the choir is fourteenth-century work, while the nave and transepts remain twelfth-century, as at Tournai in Belgium.

5. A group of instruments of the same class

or of related organ-stops, as a trombone choir, a

diapason choir, etc.

choir-aisle (kwir'il), n. One of the aisles which flank the choir of a church. It often includes the deambulatory or passage around the chevet.

choir-book (kwir'buk), n. A book containing music for a choir or chorus.

choir-gallery (kwir'gal'e-ri), n. A gallery or baleony in a church where the choir is stationed, usually at the end of the building op-

master.

choir-man (kwir'man), n. A man who sings

in a choir or chorus.

choirmaster (kwir'mas-ter), n. The trainer or leader of a choir or chorus; a kapellmeister, precentor, or cantor. Sometimes the offices of choirmaster and organist are separate, sometimes united.

choir-room (kwir'rom), n. In a church or sim-

choir-stall (kwir'stâl), n. A seat built into the chancel or ritual choir of a church or cathedral for the use of singers or other officiants. choka (chō'kä), n. [Bolivian.] A large and handsome species of water-hen (Fulica gigas) having dark metallic plumage and a red bill: chiseler, chiseller (chiz'el-er), n.

+ -crl.] One who works with a chisel; one
who carves, cuts, or shapes with a chisel.

chisel-gage (chiz'el-gāj), n. A depth-gage
adapted to a chisel: used in making slivers or
chips in flooring where the chips are to be
turned back again and glued down to hide a

tring). n. Chis
callern Peru.

Seo okage (chōk'āj), n. [choke + -age.] a
chitteling part of a tackle close against the block so as to
*chitteling part of a tackle close against the block so as to
*chitter.ent it from rendering.
*chitter, ent it from rendering.

a ship: \$1, n. 4t. pl. Tonsillitis.—Pharyngeal senting an obstruction in the pharynx of an animal.—British had choke, an obstruction in the lumen of that pornove nambe esophagus which is within the chest cavity.

Norse namber yil (chok'koil) n. In elect. same as

Norse name esophagus when is within the cast cavity.

chivalry, n: il $(ch\bar{o}k'koil)$, n. In elect., same as eleventh to the coil. system of knightshing $(ch\bar{o}k'krush''ing)$, n. A method and its high ideating crushing-rolls by feeding ore valed.—The fit sure, so that the crushed material portion or most sure, so that the crushed material armed knights. a more or less solid band or cake.

Chlorops, n. 2. [l. c.] A fly of the genus chock4, v. l. 2. To check the motion of, as by This produces an increased proportion of fine dust.

> 5. In lumbering, a noose of wire rope by which a log is dragged.

or chocky (chok'i), a. [chock + -y¹.] Full of chocks, ruts, or holes: as, a chocky road. [Prov. Eng.]

chocolate, n—Alizarin chocolate, a chocolate-color obtained by applying alizarin with a mixture of aluminium and iron mordants: a term used chiefly by calicoprinters. It is similar to alizarin pnce.

(chock' 6-lāt-bēn"), n. The choker-man (chô'ker-man), n. In lumbering, the man who fastens the choker on the logs.

cholangiostomy (kō-lan-ji-os'tō-mi), n. χολή, bile, + αγγεῖον, vessel, + στόμα, mouth.] Incision into one of the bile-ducts through the substance of the liver for the purpose of liberating an impacted gall-stone.

Derived from cholic acid.—Cholanic acid, a crystalline acid, C₂₁H₃₆O₇, obtained by the oxidation of either cholic or choleic acid. 1t melts at 285° C.

cholechloin, cholechlorin, n. See *cholechloin. cholechroin (kol-ē-krō'in), n. [Gr. χολή, bile, χρωμα, color, + -in2.] A mixture of binverdin with other substances found in the bile.

cholechrome (kol'ê-krôm), n. [Prop. *cholochrome; $\langle Gr. \chi o \lambda \hat{n}, \text{ bile}, + \chi \rho \omega \mu a, \text{ color.}$ The proper combining form of $Gr. \chi o \lambda \hat{n}, \text{ bile}$, is $\chi o \lambda o - \chi c$. cholo-.] A reddish-yellow lipochrome found in the so-called livers of many invertebrates. Also called hepatochrome.

cholecyanine (kol-ē-si'a-nin), n. [Gr. χολή, bile, + κίανος, blue, + in².] Same as bilicyanine.

See *cholocyanine.

cholecystalgia (kol″ē-sis-tal′ji-ä), n. [Gr. $\chi o \lambda \eta$, bile, $+\kappa \dot{\nu} \sigma \tau \dot{\nu}_{c}$, bladder, $+\dot{a} \dot{\nu}_{c} \gamma \dot{\nu}_{c}$, pain.] Biliary colic.

cholecystectomy (kol*ē-sis-tek'tē-mi). n. [Gr. χολή, bile, + κιστις, bladder, + ἐκτομή, excision.] In surg., anincision into the gall-bladder. choleystocolostomy (kol^{*}ē-sis^{*}tō-kō-los^{*}to-mi), n. [Gr. χολή, gall, + κίστις, bladder. + κῶλον. colon, + στόμα, mouth.] In surg., the establishment of a permanent communication

essansiment of a permanent communication between the colon and the gall-bladder. cholecystoduodenostomy (kol-ξ-sis*tō-dū"ō-dō-nos'tō-mi), n. [Gr. χολή, gall, + κὐστις, bladder, + NL. duodenum + Gr. στόμα, month.]

In surg., the establishment of a permanent direct communication between the duodenum and the gall-bladder.

cholecystorrhaphy (kol "ē-sis-tor'a-fi), n. [Gr. χολή, gall, + κύστις, bladder, + ραφή, sewing.] In surg., an incision into the gall-hladder and suture of the edges to the external wound.

cholecystostomy (kol^{*}ē-sis-tos'tō-mi), n. [Gr. χολή, gall, + κίστις, bladder, + στόμα, mouth.] In surg., the establishment of a permanent opening into the gall-bladder through the abdominal wall.

choledochitis (kol″ē-dō-kī'tis), n. χοληδόχος (se. κίστις), the gall-bladder (< χολή, gall, +-δοχος, < δέχεσθαι, receive), +-itis.] Inflammation of the common bile-duct.

choledochoduodenostomy (ko-led "ō-kō-dū"-ō-dē-nos'tō-mi), n. [Gr. χοληδόχος, the gall-bladder, + Nl. duodenum + Gr. στόμα, month.] In surg., the establishment of a permanent communication between the common bile-duct and the small intestine. XXXIII. 78. Encyc.

choledochoenterostomy (ko-led " ō-kō-en-teros'tō-mi), n. [Gr. λοληδόχος, the gall-hladder, + ἐντ-ερον, intestine, + στόμα, month.] In surg., the establishment of a permanent communication between the common bile-duct and the

choledocholithotomy (ko-led *ō-kō-li-thot 'ō-mi), n. [Gr. χοληθόχος, the gall-bladder. + λιθοτομία, lithotomy.] In surg., the removal of an impacted gall-stone from the common bile-

choledochostomy (kol/ē-dō-kos'tō-mi), n. (Gr. χοληδόχος, gall-bladder, + στόνα, month.] In surg., the establishment of a permanent opening into the common bile-duct through the abdominal wall.

choledochotomy (kol"ē-āō-kot'ō-mi), n. [Gr. χοληδόχος, gall-bladder. + -τομία, < ταμείν, ent.] In surg., an incision into the common bile-duct.

cholelithotomy (kol″ē-li-thot′ō-mi), n. [Gr. χολή, gall, + λιθοτομία, lithotomy.] In surg., an operation for the removal of a gall stone. choleocamphoric (kol ″ē-ō-kam-for′ik), a. [chol(alie) + camphoric.] Related to cholalie

acid and camphor.—Cholco-camphoric acid, an oxidation product of cholalic acid, $C_{10}H_{16}G_4$.

cholepoetic (kol[#]ç̄-p̄-ct^{*}(k), n. [Gr. χοῦη, gall, bile, + ποιητικός, ⟨ποιεῖι, make. Cf. Gr. χολοποιός, forming bile.]
 Secreting bile. Also
 choliambist (kō-li-am'bist), n. [choliamb +

cholera, n.—Bilious cholera. Same as *cholera nostras.

—Buffalo cholera, a fatal contagious disease of huffaloes, identical with the hemorrhagic septicemia of cattle. It is caused by a minute polar-stained organism of the swine-plague group. See also *barbone.—Cholera nostras, sporadic cholera or cholera morbus, as distinguished from epidemic or Asiatic cholera.—Cholera reaction, the production of cholera-discharges.—English cholera acid to filtered cholera-discharges.—English cholera, Same as *sporadic cholera.—Indian cholera. Same as *Asiatic cholera.—Serous cholera. Same as *Asiatic cholera.—Summer; cholera. Same as *cholera morbus or cholera infantum.—Typhoid cholera, a malignant type of Asiatic cholera accompanied by extreme depression of the vital forces.

Cholera-gnat (kol'e-rä-nat'). n. The turkey-

cholera-gnat (kol'e-rä-nat'), n. The turkey-gnat, Simulium meridionale, supposed to cause chicken-cholera. [U.S.] Stand. Diet. choleraphobia (kol"e-rä-fō'bi-ä), n. [NL., prop.

"cholerophobia, ζ Gr. χολέρα, cholera, + φοβία, ζ φοβείν, fear.] Extreme and unreasonable fear contracting cholera. Flint, Principles of Med., p. 563.

cholera-red (kel'e-ra-red'), n. A red color which develops upon the addition of concentrated sulphuric acid to a bouillon or peptone culture of the cholera bacillus. It is referable primarily to the production of indo and nitrites during the growth of the organism, and the consequent formation of nitrose-indo upon the addition of the sulphuric acid. To the ritrose-indo the color is due.

choleric2. n. and a .- II: u. Same as choleraic. Sud. Soc. Lex.

cholerigenous (kol-e-rij'e-nus), α. [Gr. χολέρα, cholera, + -γενης, -producing.] Producing cholera.

choleromania (kol e-rō-mā'ni-ä), n. [NL., Gr. xolipa, cholera, + µavia, madness.] A morbid dread of Asiatic cholera. cholerythrin (kol-e-rith'rin), n. Same as bili-

cholesteatomatous (kol'es-tē-a-tō'ma-tus), a. [cholesteatoma(t-) + -ous.] Pertaining to or of the nature of a cholesteatoma.

In this way there will usually be removed large quantities of pus, broken-down cells and cholesteatomatous material, leaving granulation tissue, softened bone and, frequently, much adherent epithelium.

Phil. Med. Jour., Jan. 31, 1903, p. 223.

cholestenic (kol-es-ten'ik), a. [cholest(crin) + -en + -ic.] Derived from cholesterol.—Cholestenic acid, a monobasic acid, C₂₅H₄₉O₄, or C₂₅H₂₂O₄, formed by the oxidation of choleaterol. It melts at 60-70° C.

cholesteric, a.—**Cholesteric acid**, (b) A crystalline tribasic acid, $(1)_2$ Π_{10} 07, formed by the axidation of cholic acid or of cholesterol. It loses carbon dioxid when heated above 100° C.

cholesteride (ko-les'ter-id), n. [cholester(in) -ide.] An ester of cholesterol with an acid; as cholesteride palmitate, C16H31O2.C27H43.

cholesterilene (kol-es-ter'i-len), n. [cholester-(in) + -il + -enc.] A hydrocarbon, $C_{27}H_{42}$, formed by heating cholesteryl chlorid with an alcoholic solution of sodium ethylate. It melts at 80° C.

cholesterilin (kel-es-ter'i-lin), n. [cholester- $(in) + -il + -in^2$.] A hydroearbon formed by the action of sulphurie acid on cholesterol. There are three forms, a- and β -cholesterilin, $C_{27}H_{42}$, and γ -cholesterilin, $(C_{27}H_{42})_2$.

cholesterinic (ko-les-te-rin'ik), a. [cholesterin + -ic.] Pertaining to or derived from cholesterin .- Cholesterinic acid, an oxidation-product of

cholesterin. cholesterin (ko-les'te-rôl), n. [cholester(in) + Cholesterin chol is used to indicate that chemically the substance belongs to the class of alcohols.

cholesterone (ko-les'te-ron), n. A name given to two compounds, one of which is probably chololith (kol'o-lith), n. Same as *cholclith.

parabanic acid, CO < It is formed N(CH₃)CO

by heating caffein with nitrie acid. It melts at 145° C. and is not an acid.

choletelin (ko-let'e-lin), n. [Gr. $\chi \alpha \lambda \dot{n}$, bile, + $\tau \dot{\epsilon} \lambda \alpha \varsigma$, end, + $-in^2$.] A brown, amorphous compound found in normal urine, and also obtained by treating bilirubin with nitrous acid.

choliambist (kô-li-am'bist), n. [choliamb + corn, Andropogon Soryhum. See durra, and

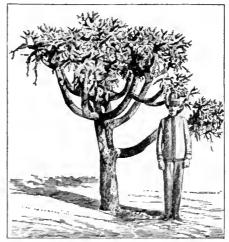
cholepoctic. (Kol"e-poi-et'ik), a. Same as cholepoctic.

cholepyrrhin† (kol-ē-pir'in], n. [Gr. χολή, bile, + πυρρός, reddish, + -in².] Same as bilirubin.

cholera, n. — Biltous cholera. Same as ★cholera nostras.

— Buffalo cholera, a fatal contagious disease of buffaloes identical with the factorial of the fa rived from the bile.—Cholinic acid, a name given by Berzelius to a resinous decomposition-product of oxgall. It was probably a mixture.

cholla (chol'ya), n. [Mex.] In the Southwestern United States and Mexico, a name



Cholla (Opuntia fulgida).

given to several species of Opuntia with stout cylindrical joints and abundant spines, such as cyinorneai joints and abundant spines, such as O. prolifera, O. Bigelovii, and O. Cholla. One of the species, O. fulgida, often attains the dimensions of a small tree, and forms one of the most conspicuous objects of the Southern Arizona Desert. It is noted for its formidable armor of barbed spines almost hiding the surface of the plant. The flowers are pink, nearly or quite an inch across, succeeded by clusters of light green globose hauging fruits. Also called cholla-cactus.

cholo, n. 2. Any half-breed, but especially one of European and Indian descent. cholochloin (kō-lok'lō-in), n. [Also cholochloin;

⟨ Gr. χολή, bile, + χίθη, verdure, +-in².] The green pigment, also called biliverdin, cholochlo-

rin and cholechlorin. See biliverdin.

cholochlorin (kol-ō-klō'rin), n. [Also cholechlorin; ζ Gr. χούή, bile, + χλωρός, green, + -in².] Same as *cholochloin.

cholocyanine (kol*o-si'a-nin), n. [Also chole-cyanine. Gr. xoi'n, bile, + kiavog, blue, + -in².]
A blue pigment derived from the bile and closely related to biliverdin. Same as bilicya-

cholofulvin (kol*ō-fàl'vin), n. [⟨Gr. χολή, bile, + L. fulvus, yellow, + -iu².] A yellow pigment derived from the bile. Also choleful-

chologenetic (kol″ō-jē-net'ik), a. [Gr. χολή, bile, + -genetic.] Producing bile.

All point to an arrest more or less complete of the chologenetic function of the liver.

Lancet, May 30, 1903, p. 1499.

cholohematin (kol ō-hem'a-tin), n. [Gr. $\chi o \lambda \dot{\eta}$, bile, + $al\mu a(\tau -)$, blood, + $-in^2$: see hematin.] A pigment obtained from the bile of sheep or oxen. When dry it is green, but it forms an olive-brown solution in alcohol.

onve-brown solution in alcohol.

choloid (kol'oid), a. [Gr. χολοειδής, < χολή, bile, + εἰδος, form.] Resembling bile.

Choloidic acid, an acid formerly supposed to be intermediate between cholic acid and dyslysin, but now believed to be a mixture of the two.

choloidinic (kol*ō-i-din'ik), a. Noting an acid, C₂₄H₃₈O₄, formed as an intermediary product during the transformation of cholalic acid into dyslysin.

cholelith (kol'ē-lith), n. [Gr. $\chi o \lambda \dot{\eta}$, gall, + hiboropia, lithotomy (kol'ē-lithotomy (kol'ē-lithotomy)] In sury. sulpharic acid.

cholter-headed (chōl'ter-hed'ed), a. [Also dial. chowder-headed: et. jolter-headed.] Dullminded; stupid. [Prov.] choltry, n. 3. A pillared colomnade. [Anglo-Leckery, n. 5. A pillared colomnade.]

Indian millet, under millet.

chomatocephalus (ko"ma-to-sef'a-lus), n. [Gr. χώμα, a bank, mound, promontory, $+ \kappa \epsilon \varphi a \lambda \dot{n}$, head.] In anthrop., a very high, rounded eranium. G. Scryi (trans.), Var. of the Iluman Species, p. 44.

chondrarthrocace (kon - drär - throk 'a - sē). n. [Gr. χόνδρος, cartilage, + ἀρθρον, joint, + κάκη, badness. Cf. arthrocace.] Disease of the articular eartilages.

chondre (kon'der), n, [F., \ NL. chondrus.] Same as chondrus or chondrule.

chondrenchyma (kon-dreng'kī-mä), n. [NL.]

Same as chondrenchyme. chondric (kon'drik), a. [Gr. χότδρος. cartilage, + -ic.] Of or pertaining to cartilage; car-

Chondrilla, n. 2. [NL. (Linnæus, 1753, adopted from Tournefort, 1700). The name alludes to the lumps of gum found on Chondrilla juncea.] A genus of plants of the family Cichoriacca. There are about 18 species, biennial or perennial herbs, natives of Europe and extratropical Asia, with redshaped, scantily leaved branches and yellow flowers. For the widely distributed C. juncea, the only species occurring in the United States, see gum succery, under succery.

chondrinogen (kon-drin'ō-jen), n. Same as chondriaen.

chondro-adenoma (kon/dro-ad-e-no/ma), n.; pl. chondro-adenomata (-ma-tii). [NL., ζ Gr. χόνδρος, cartilage. + αδήν. gland, + -oma.] Α tumor which contains the elements of chondroma and adenoma.

chondro-angioma (kon"drō-an-ji-ō'mā), n.; pl. chondro-angiomata (-ma-tā). [NL., ζ Gr. χόνδρος, cartilage. + ἀγγείον, vessel, + -oma.] A tumor which contains the elements of chondroma and angioma.

chondroblast (kon'drō-blast), n. [Gr. χόνδρος, cartilage, + βλαστός, germ.] A cell in embryonic tissue which later develops into cartilage.

chondroclast (kon'drō-klast), n. [Gr. χόνδρος, eartilage, $+ \kappa \lambda a \sigma \tau \delta c$, $< \kappa \lambda \tilde{a} v$. break.] A cell which is concerned in the absorption of eartilage

chondrocostal (kou - drō - kos 'tal), a. [Gr. χόνδρος, eartilage, + L. costa, rib, + -al.] Of or pertaining to the eartilages of the ribs and to the ribs themselves.

chondroditic (kon-dro-dit'ik), a. Pertaining to or containing chondrodite.

chondrodystrophy (kon-drō-dis'(rō-fi), n. [Gr. χόνδρος, cartilage, + όνς-, ill, + τροφή, nour-ishment (see dystrophy).] An arrest in the production and development of eartilage in the fetus and infant, resulting in dwarfism.

Med. Record, June 27, 1903, p. 1046.

chondro-endothelioma (kon"drō-en"dō-thō-li-dimi), n. r. l. dwarfas extendious the (ma tā).

ö'mä), n.; pl. choudro-endotheliomata (-ma-tä). [NL., ζ Gr. χόνδρος, eartilage, + NL., endothelioma.] A tumor which contains the elements of chondroma and endothelioma.

chondrofibroma (kon/dro-fi-bro'mä), n.; pl. chondrofibromata (-ma-tä). [NL., ζĞr. χόνδρος, eartilage, + NL. fibroma.] A tumor which contains the elements of chondroma and fibroma.

chondroglucose (kon-drō-glö'kōs), n. eultly crystallizable sugar of doubtful identity, which was obtained by the action of hydrochloric acid on chondrin.

chondroid, a.—Chondroid caneer. See *caneer. chondroitic (kon-drō-it'ik), a. [Irreg. ⟨ Gr. χόνδρος, eartilage, + -ite² + -ie.] Relating to, derived from, or like cartilage. chondroitin (kon-drō'i-tin), a. [chondroit(ic)]

chondroitin (kon-drō'i-tin), n. [chondroit(ic) +-in².] An organic substance, ($C_{18}H_{27}NO_{14}$), found in cartilage, in combination with sulphuric acid, as, chondroitin-sulphuric acid. On decomposition it gives rise to acetic acid and chondrosin.

chondrolipoma (kon drō-li-pō'mā), n.; pl. chondrolipomata (-ma-tā). [NL., ζ Gr. χόνδρος, cartilage, + NL. lipoma, lipoma.] A tumor which contains the elements of chondroma and linoma

chondromalacia (kon / drō-ma-lā'si-ä), n. [NL., (Gr. χουδρος, cartilage, + μαλακία, softening.] Softening of cartilage.

chondromucoid (kon-drō-mū'koid), n. [Gr. χόνδρος, cartilage, + mucond. A mixture consisting of chondroitin-sulphuric acid (namely, sulphates) in combination with albumins and collagen.

Chondromyces (kon-drom'i-sēz), n. (Berkeley, 1857). (Gr. χονόρος, cartilage, + μίκης, a fungus (mushroom).] A genus of the Myxobacteriaceæ in which the rod-like bodies of the organism remain unmodified and form free cysts, either sessile or borne on a more or less highly developed cistophore. C. crocatus, which forms orange-colored colonies and produces pale straw-colored cysts, has been found, in America, on decaying rinds and old straw. See *Myzobacteriaceæ.

chondromyoma (kon "drō-mī-ō'mā), n.; pl.

chondromyomata (-ma-tä). [NL., ζGr. χόνδρος, cartilage, + μνς, musele, + -oma.] A tumor composed of muscular and cartilaginous ele-

ments. chondromyxoma (kon/drō-mik-sō'mä), n.; chondromyxoma (kon/drō-mik-sō'mä), NL., < Gr. pl. chondromyxomata (-ma-tä). [NL., ' (χόνδρος, eartilage, + μέξα, mucus, + -oma.] tumor composed of cartilaginous and mucoid

chondromyxosarcoma (kon/drō-mik/sō-särkō'mā), n.; pl. chondromyxosarcomata (-ma-tā). [Gr. χόνδρος, cartilage, + μέξα, mucus. + σάρκωμα, sarcoma. A tumor which contains the elements of chondroma, myxoma, and sar-

chondro-osseous (kon"drō-os'ē-us), a. [Gr. χοινδρος, cartilage, + L. osseus, bony.] Conχονδρος, eartilage, + L. osseus, bony.] sisting of both eartilage and bone.

Chondrephora, n. pl. 2. sing. A genus of dicotyledonous, perennial herbs, which belong to the family Compositæ, and are characterized by their alternate, entire leaves and numerous, rayless heads of yellow flowers. One or two species are recognized natives of moist pine-lands in North America, from New Jersey to Florida and Texas.

chondrophore (kon'drō-fōr"), n. [NL., < Gr. χόνδρος, cartilage, +-φόρος, < φέρειν, bear.] In the pelecypod mollusks, a shelly, spoon-shaped plate developed in one or both valves within the umbonal region; it carries the chitinous internal ligament or resilium, through the action of which the valves are pressed apart.

Chondrophoridæ (kon-dro-for 'i-de), n. pl. [NL., $\langle chondrophorus + -idx.$] A family of dibranchiate cephalopods having a proöstra-cum composed of conchiolin or of alternating layers of calcarcous and organic matter. includes a number of genera, all from the Jurassie rocks.

chondroplast (kon'drō-plast), n. [Gr. $\gamma \delta v \delta \rho o c$, cartilage, $+ \pi \lambda a \sigma \tau \delta c$, $\langle \pi \lambda a \sigma \sigma \epsilon v$, form.] A cartilage-cell developed from the cartilage-

forming layer of the perichondrium. chondrose (kon'dros), n. [Gr. χόνδρος, cartilage, + -ose.] Same as *chondroglucose.

chondrosidin (kon-dros'i-din), n. [chondrose + -id¹ + -in².] The hyalin corresponding to chondrosin.

chondrosin (kon'drō-sin), n. [Gr. χόνδρος, cartilage, + -ose + -in².] A decomposition-product of chondroitin, C₁₂H₂₁NO₁₁. chondroskeleton (kon "drō-skel 'e-ton), n.

[NL., ζ Gr. χόνδρος, eartilage, + σκελετόν, skeleton.] A cartilaginous skeleton. See chomdrosteous.

chondrostean (kon-dros'tē-an), a. [Gr. χόνδρος, cartilage, + δστίον, bone, +-an.] Of or pertaining to the Chondroslei, or cartilaginous ganoids, which include, among living forms, the paddle-fishes (*Polyodontidæ*) and sturgeons

the paddle-fishes (*Polyodonlidæ*) and sturgeons (*Acipenseridæ*). The skeleton is chiefly cartilaginous (the vertebral column entirely so), and the vertebral segments little developed and arranged along the notochord. **chondrosteoma** (kon-dros-tē-ō' mā), n.; pl. *chondrosteomata* (ma-tā). [NL., ⟨Gr. χόνδρος, eartilage, + ὁστέον, bone, + -oma.] An outgrowth of cartilage upon the periosteum which subsequently turns to bone, as the antler of a

chondrosternal (kon"drō-ster'nal), a. [Gr. χόνδρος, cartilage, + L. sternum, sternum.] Relating to both the sternum and the costal cartilages

chondroxiphoid (kon-drok'si-foid), a.

χότδρος, eartilage, + ξιφοειδής, sword-shaped (see xiphaid).] Relating to the xiphoid earti-

Chonetes (kō'nē-tēz), n. Chonetes (Ro ne-tez), n. [NL., (Gr. χωνη, χοάνη, a funnel.] A genus of extinct brachiopods characterized by its thin valves which unite at a long straight hinge-line. Along the upper edge of this line the ventral valve bears a row of spines which are the exterior continuation of tubes leading through the substance of the valve from the internal shell cavity. The genus abounds in paleozoic rocks.

chonetiform (kō-net'i-form), a. [Chonetes +

L. forma, form.] Having the form or aspect of Chonetes, an extinct genus of brachiopods.

chonta (chon'tä), n. [Quichua chunta, chonta, a general name for hard-wood palms.] 1. In
Ecuador and Peru, the name of Guilichua speciosa, Astrocaryum Chonta, and other prickly, pinnately leaved palms with heavy hard black wood, which is used by the Indians of the Maranon and its tributaries for making spears, war-clubs, bows, and arrow-points.
2. A wooden bee weed in T A wooden hoe used in Peru and Bolivia; c. A wooden noe used in Ferti and Bonvia; also, now an iron of similar shape.

C-hook (sē'hūk), n. In a harness, a pad-hook shaped like the letter C.

chop¹, v. t. 6. In tennis, base-ball, and other

games, to strike (the ball) with a short, sharp, glancing stroke. - 7. In cricket, to strike down hard, with a horizontal bat, a low ball on the off-side. - 8. To cut into short pieces, as straw or silage_material; to chaff: sometimes with up.—9. To dig, or dig out, by a downward stroke of the hoe, as opposed to a horizontal movement: often with out.

Ninety per cent of the growing [cotton] plants to be afterwards "chopped" out.

Yearbook U. S. Dept. Agr., 1901, p. 291.

Then hoed, not chopped but scraped, the hoe never being raised more than 18 inches from the ground.

U.S. Dept. Agr., The Cotton Plant, 1896, p. 239. chop!, n. 6. Material which has been chopped or chaffed. See *corn chop.

Accustomed to cut rye and straw together and throw the "chop" back into a harn.

J. Wrightson, Farm and Fodder Crops, p. 199. 7. In cricket, a stroke in which the bat, held horizontally, is brought down hard upon a low ball on the off-side. *Hutchinson*, Cricket, p. 69. chop⁴, n., 1. (c) An authenticated or authenticating writing or inscription.

In a Chinese temple . . . in Penang . . . I saw about fifty tortoises, belonging to five species; many of them had *chops* or Chinese characters stamped on their shells.

*Froc. Zool. Soc. London, 1899, p. 609.

chopa² (chō'pä), n. [Sp. chopa, perhaps < L. chipea, a herring.] A name in the West Indies and elsewhere of many different fishes, espeeially of fishes of the genus Cyphosus (Kyphosus), as chopa blanca (K. sectatrix) of Bermuda (the Bermuda chub); chopa amarilla (K. incisor) of the West Indies; K. elegans of the tropical American coast of the Pacific; etc. chopag (chō'päg). n. [Native name.] A name in Guam of Ochrocarpus oboralis, a littoral tree belonging to the family Clusiaccæ, yielding a hard fine-grained wood, suitable for cabinet work, and a red dye resembling that obtained from sapan-wood.

chop-chop (chop chop), interj. [Remotely imitative.] Be quick; make haste. [Pidgin-Eng.] chopper⁴ (chop'ér), n. [Also chappor, chapper, chuppar, < Hind. chhappar.] A thatched roof. See chopper-cot and *choppered. [Anglo-Indian.]

These cottages had neat choppers, and some of them wanted not small gardens, fitly fenced about.

Mrs. Sherwood, Stories, p. 258. Yule and Burnell.

chopping-bowl (chop'ing-bol"), n. A wooden bowl in which meat and other foods are chopped.

chopping-grate (chop'ing-grāt), n. A grate in which the bars are armed with projections which, when the bar is rotated on its axis, tear or break the cinder into fragments.

choppy2, a. 3. Uncertain as to direction; subject to frequent and sudden change; unsteady: as, a choppy wind.—4. Irregular; unstable; fluctuating as to prices or rates: as, choppy markets

chop-sticks, n. pl. 2. sing. In deep-sea fishing-tackle, a cross-stick, fastened to the line above the sinker, from which the short lines bearing

the hooks are hung. chop-suey (chop-so'i), n. [Appar. formed (by trom E. chop¹, + Chinese restaurant-keepers) trom E. chop¹, + Chin. sui, bits, fragments, pieces, that is, meat, etc., chopped into small pieces and cooked.] A mixed dish served in Chinese restaurants in New York and else-

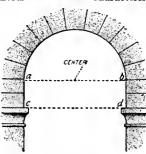
where, as a Chinese dish (but apparently not known in China), consisting of some kind of meat (chicken, pork, beef), with vegetables (celery, onions, green bean sprouts, mushrooms, green peppers, etc.), cut small, seasoned, and cooked

choragium (kō-rā'ji-nm), n.; pl. choragia (-ä). [L. choragium, ⟨ Gr. χορηγείον, χορήγιον, ' ζορηγός, the leader of a chorus: see choragus.]

1. The school in which the chorus of the Greek drama was trained.—2. The space where the choral dance was performed.

chord, n., 4. Written with a figured bass or so conceived, the first inversion of any common chord is known as the chord of the sixth, and the second inversion as the chord of the sixth, and the second inversion as the chord of the fourth and sixth or of 6-4. Similarly, the first inversion of any seventh ehord is known as the chord of the third, fourth, and sixth or of 6-4-3, or simply of 4-3; and the third inversion as the chord of the second, fourth, and sixth or of 6-4-2, or simply of 4-2 or of 2. (In all these cases the numerial indicate the intervals of the tones measured from the bass.) The chord of the eleventh is essentially like that of the ninth, but with an eleventh (from the root) added, and the chord of the thirteenth is like that of the eleventh, with a thirteenth as done.—

Chord of an arch, asmally taken between the innermost surfaces on both



an arch, asually taken between the innermost surfaces on both sides; an imaginary horizontal line drawn from one impost to the other. The term is used very loosely. Thus, in the illustration, ab, passing through the center, and ad, helow the center, but connecting the imposts, may each be called the chord, but this only in the case of true vertical imposts from a to c and b to d. See stitled arch, under stitled.—Essential chord. Same as common chord (which see, under chord, 4).—Secondary chord or triad, in music, a chord or triad of any kind when not based on the dominant, as contrasted with a dominant chord or triad; especially, the secondary chord of the seventh, a seventh chord based on some other tone than the dominant.—Sensitive chord. Same as dominant chord.

chorda-neuroplasm (kôr "dä-nū'rō-plazm), n. In embryol., the common rudiment from which the chorda, or notochord, and the medullary, or neural plate arise during the development of the vertebrate embryo.

Chorda pistillaris, in bot., the line of tissue leading from the stigma to the ovary.

chorditis (kôr-di'tis), n. [NL., ' Gr. χορόή, cord, + -its.] Inflammation of a cord, as of one or both of the spermatic cords or of the vocal cords.

chordocentra (kôr-dō-sen'trā), n. pl. [NL., $\langle \text{Gr. } \chi o \rho \delta \dot{\eta}, \text{ ehord}, + \kappa \dot{\epsilon} \nu \tau \rho o \nu, \text{ center.}]$ Vertebral centra formed by the calcification of the notochord.

chordoid (kôr'doid), a. [L. chorda, a string, + Gr. eidoc, form.] In histol., having the peculiar vacuolated appearance of the cells which form the chorda dorsalis, or notochord, in the vertebrate embryo.

chordoma (kôr - dō 'mā), n.; pl. chordomata (-ma-tā). [NL., (Gr. χορόη, cord, + -oma.] A tumor of peculiar formation sometimes found in the median line of the vermis of the cere-

chordorrhizal (kôr-dō-rī'zal), a. [Gr. $\chi o \rho \delta i$, string, cord, $+ \dot{\rho} i \zeta a$, root, $+ -a l^{\dagger}$.] In bot., producing numerous successive flowering stems from the sides of the rootstock, as in Carex chordorrhiza.

chordoskeleton (kôr-dō-skel'e-ton), n. [L. chorda, string. + NL. skeleton.] In cmbryol., that portion of the embryonic vertebrate skeleton which is formed around the chorda, or notochord; the embryonic spinal column and basis cranii.

eramii.

Chorea, n.—Automatic chorea, chorea in which the movements have the appearance of being voluntary.—Chorea cordis, chorea associated with extreme irregularity in the action of the heart.—Chorea electrica, a convulsive affection of childhood and early youth, marked by sudden muscular jerks of the neck and shoulders such as might be excited by the passage of a current of electricity.—Chorea saltatoria, a form of chorea marked by rhythmeal leaping movements when the patient stands.—Chorea senilis. See **enile** **chorea.—Electric chorea. See **chorea electrica.—Epidemiic chorea, the dancing mania of the middle ages.—Facial chorea. Same as **tic non-douloureux.—Hereditary or Huntington's chorea, a disease affecting adults, often familial or hereditary, marked by mental disturbance tending toward dementla, disorders of speech, and chorele move-

ments.—Huntington's chorea. See hereditary **chorea.
—Laryngeal chorea, spasmodic contraction of the laryngeal muscles and muscles of respiration, giving rise to a peculiar short, sharp sound like the bark of a dog.—
Malleatory chorea, a form of chorea in which the movements of the arms resemble those of a person using a hammer.—Saltatory chorea, a form of chorea marked by involuntary dancing or leaping.—Senile chorea.

(a) A muscular tremor occurring in the aged. (b) Same as paralysis agitans.

choreatic (kē-rē-at'ik), a. [Irreg. < chorea + -atic².] Same as chorcal.

choreic. a. II. n. One who suffers from chorea. Buck. Med. Handbook, III. 42.

choreograph (kô 'rệ - ọ - gráf), n. Frapher; one who arranges a ballet. A choreog-

choreographer (kō-rē-eg'ra-fer), n. The designer or arranger of a ballet.

choreographic (ke "re-e-graf'ik), a. Of or per-

choreographic (kō"rē-ō-graf'ik), a. Of or pertaining to choreography.
choreography (kō-rē-og'ra-fi), n. [See chorography².] The art of designing and arranging dances, especially ballet-dances.
choreutes (kē-rū'tēz), n. [NL., ⟨ Gr., χορεντής ⟨ χορείνεν, dance in a chorus, ⟨ χορός, a chorus: see chorus.] A choral dancer.
chorial (kō'ri-al), a. [chorion + -al¹.] Of or pertaining to the chorien.
choricanillary (kō'ri-ō-ksp('i-lō-ri)) a. [chorocanillary (kō'ri-ō-ksp('i-lō-ri))]

choriocapillary (kō"ri-ō-kap'i-lā-ri), a. [cho-rion + capillary.] Relating to the capillary vessels of the choroid coat of the eye. Buck, Med. Handbook, IV. 73.

chorizontes, n. A plural of *chorizont.

choricarcinoma (kō"ri-ō-kār"si-nō'mä), n.; chorizontic (ker-i-zen'tik), a. Of or pertain-

pl. choriocarcinomata (-ma-tä). [NL., (chorion

+ carcinoma.] Same as *syncytioma. chorioid (kō'ri-oid), a. Same as choroid. chorioiditis (kō''ri-oi-dī'tis), n. Same as cho-

chorioma (kē-ri-ē'mā), n.; pl. choriomata
(-ma-tā). [NL., \(\) chorion + -oma.] Same as

*deciduoma malignum.

*deciduoma malignum.

chorion, n. 3. Same as corium. - 4. In bot. the pulpy matter which fills the young evule is absorbed during development. Malpighi.

chorionitis (kō*ri-ō-ni'tis), n. [NL.. < chorion + itis.] In pathol.: (a) Inflammation of the chorion, especially of the part in relation with the placenta. (b) Inflammation of the corium or true skin.

Chorioptes (kō-ri-op'tēz), n. [NL., appar. < Solution (Ref. of tez), n. [ALL., appar. Gr. $\chi \delta \rho \iota o v$, membrane, + o $\pi \tau$ - (in o $\pi \tau \iota \kappa \delta \varepsilon$, etc.), see.] A genus of aearines or mites.—Chorioptes bovis, an acarine or mite helonging to the family Sarcoptidx; it is an external entaneous parasite on eattle, eausing choriopte acariasis or mange. Hering, 1846.—Chorioptes spathiferus. Same as *Chorioptes boris.

Choripetalæ (kō-ri-pet'a-lē), n. pl. [NL., \langle Gr. $\chi\omega\rho ic$, separate, + $\pi\acute{e}\tau a\dot{\lambda}ov$, leaf (petal).] A division of dieetyledonous archiehlamydeous plants in which the corolla consists of separpraction in which the corona consists of separate petals coördinate with the Apetalæ. In modern systems of classification it virtually begins with the order Ranales, but the order Chenopodiales, next below, contains many choripetalous genera, and higher orders contain apetalous genera. Some authors make it include the Apetalæ and to be thus equivalent to the Archichlamydeæ. See Apetalæ, Polypetalæ, and *Archichlamydeæ.

chorisis, n. 2. In gcom., a number associated with a place which indicates how many different places it contains, such that a particle could not by an ordinary metion within it pass from one to another. A place which is continuously connected throughout is of chorisis 1, and in general the number of the chorisis is the number of separate places in which there is room for particles. The chorisis of all space is, of course, I.

chorist, n. 2. In Gr. antiq., a member of the

ehorus.

In the Lenæan festival of Athens one of his [Dionysius's] tragedies had been rewarded with the first prize. A chorist who had been employed in the performance . . . was the first to communicate the news.

Grote, Greece, XI. ii. 46.

choristership (kor'is-ter-ship), n. The office or function of a chorister.

Choristoceras (kor-is-tos'e-räs), n. [NL., ζ Gr. χωριστός, separated, + κέρας, a horn.] A genus of phylogerentic ammonoid cephalopods or ammonites, of the family Choristoceratidæ, in which the later volutions become uncoiled and the septal sutures are degenerate and simple. With other members of this family, it occurs in the Jurassic recks.

Choristodera (kor"is-ted'e-rä), n. pl. [NL., ⟨ Gr. χωμοτός, separated, + δέρη, δειρή, neek.]
A suborder of Rhynchocephalia containing extinct reptiles of large size, with flattened vertical and the statement of the statement tebræ and teeth on palatines and pterygoids. choristry (kor'is-tri), n. The singing of a choir or chorus; choral music.

This that everywhere I hear, Rolling a sea of *choristry* Up and down the jewel of Heaven. S. Dobell, Harps of Heaven, 1. 66,

Chorizema (kō-ri-zē'mā), n. [NL. (Labillar-dière, 1799), apparently ζ Gr. χωρίζειν, to separate. The allusion is to the distinctness of the stamens.] A genus of plants of the family Fabaceæ, consisting of about fifteen species, all Australian. They are shrubs of a diffuse or half-climbing habit, with thick and shining simple evergreen leaves and pea-like red or yellow flowers. C. varium and C. iliciplium are two of the species grown in the United States as greenhouse subjects.

chorizont (kö'ri-zont), n.; pl. chorizonts (-zonts) or chorizontes (kō-ri-zon'tēz). [Gr. χωρίζων (pt. χωρίζοντες), a separator, ppr. of χωρίζειν, separate.] One of the ancient Greek grammarians who ascribed the Iliad and Odyssey to different authors; in a general sense, one who assumes or asserts separate authorship of works commonly ascribed to one author.

The Chorizontes, so called because they separate the authorship of the Iliad from that of the Odyssey, found themselves mainly, (a) On supposed discrepancies in the mythology of the two Poems respectively; (b) On differences of manners and institutions; (c) On differences in the language.

Gladatone, Juventus numdi, i.

chorizontal (ker-i-zon'tal). a. Pertaining to chorizont-like; separatist. chorizontes, n. A plural of *chorizont.

ing to the chorizonts or to their belief in the Chouteau limestone. See *limestone. separate authorship of the Iliad and Odyssey.

The Essayist adopts a chorizontic or separatist position, and an attempt is made to differentiate the Hiad from the

chorogi (chō'rō-gē), n. [Jap.] Stachys Sieboldi (also knewn as S. tuberifera and S. affinis), an ereet, hairy plant belonging to the mint family: applied particularly to the small white tubers, which are two or three inches long and edible. The plant is also known by the French name crosnes. See Stachys. Also called Chinese or Japanese artichoke.

chorografy, n. A simplified spelling of chorography.

Choroid apoplexy. See *apoplexy.

Choroiditis myopica, inflammation of the choroid due to the strain of defective vision nurelieved by glasses.

choroidocyclitis (kē - roi "dē - si - klī 'tis), n. [NL., \(\circ\) choroides, choroid, \(\pm\) fr. κίκλος, eircle (of cilia), \(\pm\)-itis.] Inflammation of the choroid and ciliary body and the parts adjacent.

chorology, n.—Marine chorology, the scientific study of the distribution, especially the vertical distribution, of marine animals.

chorten (chor-ten'), n. [Also ch'orten; < Tibetan chor-tén, chhö-tén, normally chhod-tén, lit. a receptacle for offerings, connected with chôd-pa, offering, sacrifice.] In Tibet, a pyram-



idal structure of solid stone masonry which corresponds, as far as use is concerned, to the Indian chaitya or stupa. Originally intended to contain relies, they were also raised as cen-otaphs in memory of a Buldha er of a Buldhist saint, and came to be regarded as themselves symbols of the Buddhist dectrine.

chortle (ehôr'tl), v. i.; pret. and pp. chortled, Christed (kris'ted), a. [Christ+-ed2.] United ppr. chortling. [A factitious word, humor-with Christ by being completely possessed by

ously formed from ch(uck)le + (su)ort. See *brunch-word.] To exclaim exultingly, with a noisy chuckle: a vaguely suggestive word used in the first passage quoted, and since taken up by other writers in the sense defined.

And hast thou slain the Jabberwock?

Come to my arms, my beamish boy!
O fradjons day! Callooh! Callay!
He chortled in his juy.
Lewis Carroll, Through the Looking-Glass (Jabberwocky,

A stone cot . . . within which the two Americans hugged themselves and *chortled* in their joy continually "How very romantic we are!"

Outlook, Feb. 1, 1896, p. 204.

chorus-singer ($k\bar{o}'$ rus-sing" \dot{e} r), n. One who

chota-singer (va dissenger), n. One who sings in a chorus.

Chosen people. See people.

chota-hazri (chō'tä-häz"rē), n. [Hind. chhoti-hāzarī, little breakfast.] In India, a light earlymorning refreshment served before breakfast: otherwise called early tea.

chou (shô), n.; pl. choux (shô). [F.: see cole² and cabbage.—2. In dressmaking, a small, close rosette of any suitable material: so called from the crumpling of its loops of ribbon or lace, which resemble the crinkled leaves of a cabbage.

chorizontes, n. A plural of *chorizont.

chorizontic (ker-i-zon'tik), a. Of or pertain the chori

chow⁶ (chou), n. [Origin obseure, but prob. supposed by the users to be Chinese.] A China-

and an attempt is made to differentiate the fliad from the oddyssey in age and authorship.

W. D. Geddes, Homeric Poems, p. 15.

Chorizontist (kor-i-zon'tist), n. One who fa
choulder-headed.] A dialectal form of *cholter-headed. headed. Scott.

choze, pp. A simplified spelling of chosc. **chozen**, p. a. A simplified spelling of chosen. **chr.** An abbreviation of chrestomathy. **Chr.** An abbreviation (a) of Christ; (b) of

Christian.

chrematist (krē'ma-tist), n. [Gr. χρηματιστής, a man of business, a money-getter, ζ χρηματίστης, ζειν, transact business. The Eng. use depends on chrematistics.] A political economist; a student of, or one who is versed in, chrematistics. tistics or the science of wealth.

According to the *chrematists*, the wealth of a nation, as of an individual producer, is to be measured by the excess of the value of production over its cost.

Siemondi (trans.) in Blackwood's Mag., LV11. 5:36.

chrestic (kres'tik), a. and n. [Gr. χρηστικός, able to use things, $\langle \chi \rho \eta \sigma \tau \dot{\phi} \zeta$, adj. $\langle \chi \rho \ddot{\eta} \sigma t \dot{\phi} t$, usc.] **I.** a. Referring to skill in the use of implements, tools, and artificial instruments generally, as distinguished from the arts of designing and manufacturing such things.

II. n. That department of art and practical science which is concerned with skill in the use of artificial objects.

chrestomathics (kres-tō-math'iks), n. [Gr. $\chi\rho\eta\sigma\tau\dot{o}c$, useful, + - $\mu ad\dot{\nu} p$, < $\mu av\theta \dot{a}vev$, learn. Ct. chrestomathy.] The seience of useful matters. [Rare.] N. E. D. (chrismatite (kriz'ma-tit), n. [Gr. $\chi\rho i\sigma\mu a$ ($\chi\rho i\sigma\mu a\tau$ -), ointment, + - ite^2 .] A semi-fluid or butter-like resin, found on crystals of calcite from Sayony. It varies in color from vallow

from Saxony. It varies in color from yellow to eil-green.

chrismatize (kriz'ma-tiz), r. t.; pret. and pp. chrismatized, ppr. chrismatizing, [Gr. χρῖσμα (χρισματ-), chrism, + -ize.] To anoint with holy oil; chrism.

What spectacle could one behold more Antichristian? What spectacle could one behold more Antichristian? "To see a man in those Sacerdotal disguises, all of them consecrated and dedicated to the purpose, . . . whose churchyard is wholly by the consecration and benediction of sprinkled Holy-water, . . . nay whose very Bells of his Steeple are Christned and Chrismatized for the chasing the foul flends out of the Aire at the departure of a Soul."

Dr. H. More, Mystery of Iniquity, p. 62.

chrismon (kris'mon), n.; pl. chrisma (-mä). [A modern term, apparently formed from Chris(t) mon(ogram).] A name given to a menogram found in the catacombs and in later use appearing in many forms, for example, * or P, and consisting of the first two letters, XP, of the Greek word XPISTOS, $X\rho$ uor δ c, Christ. Semetimes A (alpha) and Ω (emega) appear in the design. The date of its origin is unknown. The menegram appears with many variations and additions in reval signatures of the ninth and later centuries

christen, r. t. 5. To engrave new names and marks on (stolen watches, silver plate, etc.) after obliterating the old, in order to prevent

identification. [Thieves cant.]
Christendie † (kris'n-di), n. [A var. of Christenty: see Christianity.] Christendom. Barns.
Christiad (kris'ti-ad), n. [Christ + -iad as in

Christiad (kris'ţi-ad), n. [Christendom. Burns. Christiad (kris'ţi-ad), n. [Christ+-iad as in Ilud.] An epie of Christ.
Christian Catholic Church. See *catholic.—Christian Reformed Church, a body that separated from the established church in Holland in 1834, endeavoring to maintain the old system of reformed doctrine. Numbers of this body emigrated to America in 1846 and settled in Michigan. The church in the United States has seven classes and one synod, with nearly too churches and 13,000 communicants. Its doctrine and polity are identical with those of the Reformed Church of America.—Christian Science, a system of religious teaching, based on the Scriptures, which originated with Mary Baker Eddy ahout 1896. Is most notable application is in the professed cure of disease by mental and spiritual means.—Christian Science.—Christian, a title of the kings of France.—United States Christian Commission, an organization founded in the city of New York, November 14, 1861, for the purpose of supplementing the labors of the chaplains of the army and navy in earing for the spiritual needs of the Union forces during the Civil War (1861-65). See United States Sanitary Commission, under sanitary. Christiana period. See *period.
Christiansen's colors. See *color.

fesses Christianity

Christiansen's colors. See *color.
Christic (kris'tik), a. [Christ + -ie.] Relating or pertaining to Christ. J. W. Vale.
Christlike (krist'lik), a. Resembling Christ;

in accordance with his spirit.

It would have been in glaring disaccord with the gen-tleness and moderation which is now shown, even towards absolute unbelievers, by the wisest, gentlest, and most Christ-like of God's saints. F. W. Farrar, Early Days of Christianity, p. 500.

F. W. Farrar, Early Days of Christianity, p. 500.

Christmas evergreen. See **evergreen.**—Christmas green, a trailing club-moss, *Lecapodium complanatum, the flat, light-green fronds of which adapt it specially for Christmas decoration.*—Christmas tree. (b) In Australia, the Christmas-bush; in New Zealand, the fire-tree or pohutukawa. These trees bloom at the Christmas-season, and are used for decoration in the place of holly and other greens of the northern countries.

Christmas-berry (kris'mas-bere'i), n. The California holly or toyon. Heteromeles arbuti-

California holly or toyon, Heteromeles arbutifolia, a handsome evergreen shrub whose bright-red berries, contrasting with the shin-

ing green foliage, admirably adapt it for Christmas decoration.

Christmas-bush (kris'mas-bush), n. An Australian tree of the saxifrage family, Ceratopetalum gummiferum. It yields a fine-grained reddish wood used in turning and for tool-

handies. Called also Christmas tree and officer-

Christmassy (kris'mas-i), a. [Christmas + -y¹.] Christmas-like: as, Christmassy cheer; -yl.] Christmas-like: as, Chris a Christmassy scene. [Colloq.] Christologist (kris-tol'ō-jist), n.

+ -ist.] One who is versed in Christology.

Another view . . . favored by several . . . modern Christologists is that Jesus was not entirely dead, but was revived from some form of trance.

Amer. Jour. Relig. Psychol. and Education, May, 1904, p. 54.

Christologize (kris-tol'ō-jīz), v. t.; pret. and pp. Christologized; ppr. Christologizing. To bring into relation with Christology.

A constantly increasing number of persons are coming to the conviction that the results already reached by the Church in other departments of doctrine, require what Dr. Henry B. Smith affirmed to be a necessity—a Christologizing of Eschatology; and that when this is thoroughly done, the ultimate destiny of all men will be found to turn on their personal relation to God as revealed in Christ.

E. C. Smyth, in Homiletic Review, April, 1886, p. 288. christophine (kris-tō-fēn'), n. [Creole F., from the name Christophe, Christopher.] A name in the West Indies of the cheyote, Chayota edulis. This name is the one used by the French-speaking creoles, while chocho is used by the English-speaking and chayote by the Spanish-speaking people. See Sechium and cheyote.

Christ's-eye (krīsts'ī), n. San Christi (which see, under oculus). Same as oculus

chroatol (krō'a-tōl), n. [Gr. $\chi p \delta a$, skin, + $-ute^1 + -ot$.] Terpeniodohydrate, $C_{10}H_{16}$.2HI. It forms greenish-yellow aromatic crystals, and is used as a dermal application.

chromacea (krō-mā'sē-ii), n pl. [NL., ζ Gr. χρώμα, color, + -αcca.] A group of organisms of extreme simplicity, allied to the bacteria, and regarded by Haeckel as the oldest and most primitive of living beings.

ters, musical tones, noises, etc. It is sometimes termed pseudochronucsthesia, the colors being 'imaginary.' The commonest form is 'colored hearing,' though chromasthesia occurs in other departments of sense, for example, in taste and smell. It is probable that the tendency to chromasthesia is, at least in many cases, congenital, preformed in the nervous system of the infant; though stomely affective experiences of netual associathough strongly affective experiences of actual associa-tion in early childhood may contribute largely to its reali-zation. No wholly satisfactory explanation of the phe-nomena can at present be offered. chromanil (krōm-an'il), a. [chrom(ium) + anil(iue).] Pertaining to chromium and ani-

unil(ine).line: applied to certain coal-tar colors that are usually after-treated with chromium .- Chromanii black See *black.

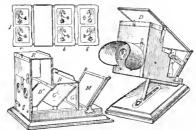
chromaphore (krô'ma-fôr), n. Same as chro-

mataphore.

chromasciopticon (krō-ma-s ī-op'ti-kon), n. The centrosome . . cannot be the hearer of the hearer of

in the test for color-blindness. Buck, Med. Handbook, III. 211.

chromascope, n. 2. In photog., an apparatus devised by Ives in which the image of the object photographed is seen in colors. It consists of a stereoscopic camera provided with green, blue, and red transparent glasses marked G, B, and R respectively. G' and B' are green and blue transparent glasses placed at an angle of 45 degrees. A mirror, M, reflects light into the camera, while the ground-glass B serves to diffuse light. Three negatives are taken of the object by the use of blue, yellow, and red screens, and from these are printed three positives. These are shown mounted on Linges. (See Fig. 1) That marked g is inserted in a groove at G, while b and r rest on B and R respectively. When the apparatus is adjusted, the images of the three positives are superposed and the model is seen stereoseopically, remarkably reproduced in color.



The lyes Chromascope

chromatic, a. 3. In cytol., of or pertaining to chromatin, the stainable substance of the cellnucleus.

The equatorial chromatic wreath resolves itself into loops arranged with their closed ends directed inwards towards a central point and their free ends outwards. These loops undergo horizontal cleavage from looped to free end, and the looped ends pass along the surface of the spindle towards pole and antipole.

Eucyc. Brit., XXV. 393.

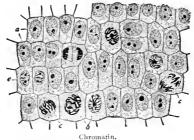
Eucyc. Brit., XXV. 393.

Chromatic audition. See *audition.—Chromatic function, the faculty of adjusting the color of the body to that of the environment. Pouchet.—Chromatic granules, granules in the cell which are easily stained by the usual dyes.—Chromatic letter. Same as chromatic type.—Chromatic race, that degree of kinship which is marked by the color of the skin and the type of the hair. The chromatic races usually distinguished by anthropologists are the white (Europeaus), yellow (Asiatics), red (aboriginal Americans), brown (Pacific Islanders), and black (Africans). Compare ethnic *race, glottic *race, and *cephalic race. Giddings, Inductive Sociol., p. 53.—Chromatic scale. (b) In painting, a term used to express degree of intensity and contrast in color.

The painters of India, who have a truer feeling for

The painters of India, who have a truer feeling the painters of India, who have a truer teering for color than many Persian artists, have greatly simplified the rich, sometimes too rich, chromatic scale of those miniatures, and have brought them back to a generally more sober tonality.

E. Blochet, in Burlington Mag., III. 279.



General view of cells in the growing root-tip of the onion, from a longitudinal section, enlarged about 400 diameters.

a, non-dividing cells, with chromatin-network and deeply stained nucleol; b, nuclei preparing for division (spireme-stage); c, dividing cells showing mitotic figures; c, pair of daughter-cells shortly after division. (From Wilson S." Inc. Ceit.")

his spirit. The Familists in the seventeenth chromæsthesia (krō-mes-thē'si-ā), n. [NL., \langle chromaticism (krō-mat'i-sizm), n. [chromatic eentury used the expression to signify the defication which they imagined they attained by direct communion with the Deity.

chromæsthesia (krō-mes-thē'si-ā), n. [NL., \langle chromaticism (krō-mat'i-sizm), n. [chromatic deficition of color, n.] In music: (a) The use of chromatic melodies or harmonies, especially when expression of colors with words, let-the-deficition of colors with words with words with the deficition of colors with words with the deficition of harmony, or passage.

Secular music had long displayed very free use of chromaticisms similar to the modern style of writing.

C. H. H. Parry, in Grove Dict. Music, 1. 673.

chromaticity (krō-ma-tis'i-ti), n. fchromatic -ity.] In cytol., the state or amount of the chromatin contained in the cell-nucleus. Jour. Roy. Micros. Soc., April, 1904, p. 169.

chromatin, n. 3. In cytol., that portion of the eell-nucleus in animals and plants which takes on a deep color in certain stains (carmine, hematoxylin, etc.): opposed to achromatin. chromatinic (krō-ma-tin'ik), a. [chromatin + -ic.] Of or pertaining to the chromatin of the

cell-nucleus.

The centrosome . . . eannot be the hearer of the nervalitary characteristics. Therefore, if present, the idioplasm must be looked for in the chromatinic element of the Buck, Med. Handbook, IV. 648.

In cytol., a piece or fragment of chromatin; a chromosome.

chromatoblast (krō-mat'ō-blast), n. Same as *ehromoblast.

chromatogen (krō-mat'ō-jen), a. [Gr. $\chi \rho \bar{\omega} \mu a(\tau -)$, coler, + - $\gamma \epsilon \nu \dot{\eta} \dot{\varsigma}$, -producing.] Color-producing;

ehromatogenous.—Chromatogen organ, in Echinoderma, same as axial *organ.

chromatograph, n. 2. A colored print.

chromatograph (krō'ma-tō-grāf), v. t. To represent in colors; do in colors.

Having been photographed, and stereographed, and chromatographed, or done in colors, it only remains to be phrenologized.

O. W. Holmes, Professor at the Breakfast-Table, viii.

chromatoid (krō'ma-toid), a. [Gr. $\chi \rho \bar{\omega} \mu a(\tau \cdot)$, color, $+ i l \delta \omega_{\zeta}$, form.] Having an affinity for dyes, or capable of being intensely stained : as, the chromatoid granules of the Coccidiida. Calkins, Protozoa, p. 144. chromatokinopsia (krō"ma-tō-ki-nop'si-ä), n.

[NL., $\langle Gr, \chi \rho \bar{\omega} \mu a(\tau), \text{color}, + \kappa \nu(\hat{\epsilon} \nu), \text{move}, + \delta \psi \epsilon, \text{ view.}]$ In psychol., the 'fluttering heart,' a visual illusion of movement. If a row heart, a visual illusion of movement. It a row of small blue circles is pasted on a strip of red cardboard, and the diagram, held in a dark corner of the room, is given a short to-and-fromotion in its own plane, the circles will appear to slip or spring from side to side. Better effects are obtained if the eye is adapted to darkness and a candle or low gas flame is used for illumination. E. C. Sanford, Exper. Psychol., p. 318.

chromatolysis (krō-ma-tol'i-sis), n. [NL., ζ Gr. χοῶμα(τ-), color (see chromatin), + λίσις, dissolution.] Dissolution of the nuclear chromatin: an evidence of coagulation necrosis on the part of cells. Vaughan and Novy, Cellular Toxins, p. 143. chromatolytic (krō-ma-tō-lit'ik), a. Of or per-

taining to chromatolysis, or the breaking down of the chromatin during the degeneration of eells.

chromatophil (krō-mat'ō-fil), a. and n. [Gr. $\chi \rho \tilde{\omega} \mu a(\tau)$, color $+\phi \iota \hat{\iota} . \epsilon i \nu$, love.] I. a. Taking color easily; staining readily: said of eells and other histological elements. A substance which stains readily.

chromatophilic (krō"ma-tō-fil'ik), a. Same as $\star chromatophit$

chromatophilous (krō"ma-tof'i-lus), a. Same

chromatophilous (krō*ma-tof'i-lus), a. Same as *chromatophil, chromophilous. chromophilous. chromatophore, n. 4. One of the colored masses of protoplasm found in Protozoa. It may be either a living part of the cell, as in Mastigophora, or a symbiotic alga inhabiting the body of the protozoan. Calkins, Protozoa, p. 117.—Chromatophore system, that portion of the nervous system of an animal which controls the movements of the chromatophores or pigment-cells.

chromatophoric (kroma-to-for'ik), a. Possessing or relating to chromatophores. Philos.

Trans. Roy. Soc. London, ser. B. 1904, p. 322. chromatophoroma (krō'ma-tō-fō-rō'mä), n.; pl. chromatophoromata (-ma-tä). [chromatophore + -oma.] Melanoma; a pigmented sarcoma.

chromatoplasm (krō'ma-tō-plazm), n. [Gr. $\chi \rho \bar{\omega} \mu a$, color, $+ \pi \lambda \dot{a} \sigma \mu a$, anything formed.] In bot, the protoplasm of coloring substances. Strasburger.

chromatoptometer (kroma-top-tom'e-ter), n. [Gr. $\chi\rho\omega\mu a$, color, + $\dot{\sigma}\pi\tau$, see, + $\mu\epsilon\tau\rho\sigma\nu$, measure.] An instrument constructed for ascertaining the development of the colorsense, particularly for the discovery of colorblindness.

Determination of the aenteness of color-vision by means of the chromatoptometer.

chromatosciameter (kroma-to-si-am'e-ter), n. [Gr. $\chi \rho \tilde{\omega} \mu a$, color, $+ \sigma \kappa i \acute{a}$, shadow, $+ \mu \epsilon \tau \rho \sigma \nu$, a measure.] Same as *chromasciopticon.

chromatoscopy (krō-ma-tos kō-pi), n. [Gr. χρώμα(τ-), color, + -σκοπία, ζ σκοπείν, view.] The art or process of combining or comparing colors by means of the chromatoscope.

chromatospherite (kro ma-to-sfer'it), n. χρωμα(τ-), color, + σφαίρα, sphere, $+ -ite^2$.] A deeply staining mass found in the nuclei of

certain Sporozoa.

certain Sporozod.

chromatrope² (krō'ma-trōp), n. [Of same formation as chromatrope¹.] One of a group of acid coal-tar colors: as, chromatrope 2B, 6B, 8B, 10B, F, R, 2R, S, SB, and SR. They are all related to dihydroxynaphthalene-disulphonic acid, and dye wool bright red to violet colors from an acid bath. They all give shades ranging from dark blue to black, when aftertreated with potassium bichromate, and may therefore be classed as mordant-acid colors. classed as mordant-acid colors

chromatroposcope (krō-ma-trop'ō-skōp), n. [Gr. $\chi \rho \dot{\omega} \mu a$, eolor, $+ \tau \rho \dot{\sigma} \pi \sigma \varsigma$, a turn, $+ \sigma \kappa \sigma \pi \epsilon i v$, view.] An apparatus consisting of a disk with apertures in front of colored surfaces, used in illustrating certain optical effects.

chrome emerald-green, fast yellow tan-

chrome emerald-green, fast yellow tannage. See *green¹, etc.

Chrome, v. t.—Chromed colors, colors that are developed, or raised, by bichromate of potash.

Chrome-black, n.—Anthracene chrome-black, a mordant-acid dyestnif derived from anthracene, which gives a very fast black when combined with a chromium mordant; used ln wool-dyeing.—Benzo chrome-black a direct cotton coal-tar color of nupublished composition. It dyes unmordanted cotton black in a slightly alkaline sait bath and is rendered faster by an after-treatment with potassium bichromate and copper sulphate.

Chrome-blue (krōm/blā) n. A mordant coal-

chrome-blue (krom'blö), n. A mordant eoaltar color of the triphenyl-methane type. dyes chromed wool blue, but is chiefly used in

cotton-printing.

chrome-Bordeaux (krôm "bor-do"), n. A mordant coal-tar color, especially snited for calico-printing with an acetate-of-chromium mordanting principle.

chrome-brown (kröm'broun), n. A mordant coal-tar color of the monoazo type, related to pyrogallic acid. It dyes ehromed wool brown

and is used in calico-printing.

chrome-diopside (krōin'di-op'sid), n. A variety of diopside containing chromium. It occurs with the diamond in South Africa and is also found elsewhere.

chrome-silver (kröm-sil'ver), n. Same as silver chromate: used as a stain in preparing histological specimens for examination under the microscope.

chrome-spinel (krom'spin'el), n. Same as

picotite.

chrome-tan (krôm-tan'), v. t. To prepare by means of chrome tannage.

Flemming, Practical Tanning, p. 214.

chrome-violet (krom-vi'o-let), n. A mordant eoal-tar color of the triphenyl-methane-carbi-

nol type. It is used chiefly in calico-printing, Chromic catgut. See *catgut.—Chromic myopta, ability to distinguish colors near at hand, with color-blindness for distant objects. chromicize (krō'mi-sīz), v. l. [chromic + -ize.]

To impregnate with chromic acid: said of catgut which, when so treated, is less easily absorbed in the tissues. Med. Record, April II, 1903, p. 563.

chromine (kro'min), n, [chrom(ium) + -ine².] A direct cotton coal-tar color derived from primulin.

chromiole (krō'mi-ōl), n. [NL. *chromiolum, dim. ⟨Gr. χρο̄μα, color.] In cytol., a small fragment or granule of chromatin. chromite, n. 2. Any compound of chromium

sesquioxid with a monoxid of another metal.

Chromium dioxychlorid. Same as *chlorochromic acid.

 chromoartotypy (krō-mō-är'tō-tī-pi), n. [Gr. χρῶμα, color, + E. artotypy.] In photog.,
 a collographic process for obtaining prints in color. Four negatives are made, representing the red, blue, and yellow of the object and a neutral tint, suitable color-screens being used. From these negatives colletype plates are made and a print is obtained accurately reproducing the object.

chromoblast (krō'mō-blast), n. [Gr. χρώμα,

eolor, + βλαστός, germ.] A cell which produces pigment: a pigment-cell. chromocollograph (krō-mō-kol'ō-graf), n. [Gr. χρωμα, color, + E. collograph.] In photog., same as *chromocollotype.

chromatoptometry (krō"ma-top-tom'e-tri), n. chromocollographic (krō"mō-kol-ō-graf'ik), a. In photog., of or pertaining to chromocollog-

> chromocollography (kromo-ko-log'ra-fi), In photog., a photomechanical process for obtaining prints in color, in which a gelatin-coated glass plate is used instead of the lithoraphic stone.

> chromocollotype (krō-mō-kol'o-tīp), n. χρωμα, color, + E. collotype.] A print in colors taken upon the lithographic printing-press from a gelatin surface hardened by bichromate of potash. Separate gelatin surfaces are needed for the three primary colors yellow, blue, and red. These colors are dissected by photography. Intermediate colors are produced by the careful selection of takes of required intensity and the skilful overlapping of the primary colors. mary colors.

> chromocrater (krō'mō-krā-ter), n. [NL. ehromocrater, < Gr. χρῶμα, color, ¥ κρατἦρ, a large bowl.] In pathol., a crater-shaped blood-cor-

> chromocyanine (krō-mō-sī'a-nin), n. [Gr. χρόμα, color, + κτανος, blne, + -ine².] A mordant coal-tar color related to gallocyanine. It gives bright blues. Also called brilliant gallocuanine.

> chromocyclite (krō-mō-sik'līt), n. [Gr. χρωμα, color, + κικλος, circle, + -ite².] A name given by Klein to a variety of apophyllite, the axial interference figure of which shows brightly colored rings. Another variety in which the rings are white and violet-black was early called leucocyclite by Herschel.

> **chromocytometer** (krō"mō-sī-tom'e-ter), n. [Gr. χρώμα, color, + κυτος, a hollow (a cell), + μυτρον, a measure.] An instrument for ascertaining the number of the corpuscles and the amount of coloring-matter in blood.

chromogen, n. 2. In color-chemistry, a compound containing a chromophorous group which is capable of being converted into a chromophotographic (krō/mō-fō-tō-graf'ik), dvestuff by the introduction of a salt-forming group designated as an auxochromous group.

Benzene, for example, is colonriess, whereas nitro-benzene and azo-benzene are yellow. Such compounds containing chromophorous groups are termed chromogens, because, although not dyestulls themselves, they are capable of generating such by the further introduction of salt-forming atomic groups.

Encyc. Brû., XXVII. 564.

Chromogen I, a name sometimes given to dihydroxy-naphthalene-disodium sulphonate. It may be applied to wool in the same manner as an acid dyestuff, and upon subsequent oxidation with potassium bichromate a brown color is developed.

chromogenesis (krō-mō-jen'ē-sis), n. [Gr. χρώμα, color, + γένισις, production.] The production of color by minute organisms: par-

ticularly applied to bacteria. **chromogram** (krō'mō-gram), n. [Gr. χρῶμα, color, + γράμμα, anything written.] 1. A photograph in colors.

So long as an instrument [the photochromoscope] is needed to help in viewing chromograms, the popular appreciation of these will be limited. Amer. Jour. Sci., Nov., 1895, p. 380.

2. In photog., the assemblage of three monochrome positives which control the colored lights of an Ives *chromascope (which see). Wall, Diet. of Photog., p. 138, chromol (krō'mōl), n. [Gr. γρῶμα, color, +

chromol (krô'môl), n. [Gr. γρώμα, color, + -ol.] A trade-name for a specially prepared fat-liquor. C. T. Davis, Manuf. of Leather, 244.

chromolith (krō'mō-lith), n. chromolithograph.] A chromolithograph. chromolithotint (krō-mộ-lith'ộ-tint), n. A design printed in tints or pale colors by litho-

graphic process.



Chromomere

Chromomere.

Spermatocyte of Salamander.
Segmented double spiremethread composed of chromomeres
and completely split. Two centrosomes and central spindle at
s. (Hernane.) (From Wilson's
"The Cell.")

Next, ranks the recently issued history of the birds of Lombardy; the lithographs by Herr Oscar graphs by Herr Oscar Dressler, superb, but the coloring (chromo-lithotint)

Poor, Ruskin, Love's Meinie, I. Iiii.

chromomere (krō'mōmēr), *n*. [Ġr. χρῶμα, eolor, + μέρος, part.] In cytol., one of the minute chromatin granules which go to make a chromosome: same as an id of Weismann. Buck, Handbook, I. 317.

chromometer (krō-mom'e-tėr), n. [Gr. $\chi\rho\bar{\omega}\mu a$, eolor, $+\mu\epsilon\tau\rho\sigma\nu$,

measure.] An instrument for the determination of colors, as of petrolenm and other oils, or, in another form, of metals by examination their ores. See chromatometer.—Stead's romometer. See Stead's *colorimeter.

of their ores. See chromatometer.—Stead's chromometer. See Stead's *colorimeter. Chromomonadina (krō-mō-mon-a-di'nā), n. pl. [NL., ⟨ Gr. χοωμα, color, + μονάς (μοναδ-), a unit, +-ina².] A group or suborder of flagelate Protozoa, of the order Phytoflagelluda. It consists mostly of colonial organisms, with the bodies inclosed in a gelatinous mass or occupying cups, chromatophores, if present, yellow or yellowish brown, and the one or two flagella, if any, invariably directed forward. It includes the families Chrysomonadidæ and Cryptomonadidæ.

chromoparous (krō-mop'a-rus), a. color, † L. parere, produce.] A term applied to pigment-bacteria the coloring matter of which is not contained within the cell wall but is diffused between the individual organisms. See *chromophorous, 2.

chromophil, chromophile (krō'mō-fil), a. and n. [Gr. χρῶμα, color, + φιλείν, love.] **I.** a. Chromophilous; same as *chromatophil.

II. n. Any chromophilous substance, such as the granules in certain white blood-eorpuseles.

Niessl's chromophils, certain bodies contained in the somatochromes which surround the nuclei of the nervecells of the gray matter.

cens of the gray matter. **chromophobe** (krō'mō-fōb), a. [Gr. $\chi p \bar{\omega} \mu a$, color, + $-\phi \rho \beta o \varsigma$ ($\phi o \beta \bar{e} i v$, fear.] In histol., insusceptible to color-staining: opposed to $\star chromophil$.

chromophore (krō'mō-fôr), n. [Gr. χρῶμα, color, + -φορος. < φέρειν, bear.] A chromophorous substance.

chromophoric (krō-mō-for'ik), a. Pertaining to a chromophore; chromophorous. Athenæum July 15, 1893.

chromophorous, a. 2. Applied to pigment-bacteria when the color is within the cell. See

 a. Of or pertaining to chromophotography.
 chromophototype (krō-mọ-fō'tō-tīp), n. [Gr. χρōμα, color. + E. phototype.] In photog.,
 a style of picture which results in applying various colors in place of the lampblack of the carbon process. Wilson, Cyc. of Photog., p. 85.

chromophyl, chromophyll (krô' mộ - fil), n. [Gr. χρώμα, color, + φυλλον, leaf.] 1. Any coloring substance in plant cells.—2. A respiratory pigment having a special affinity for earbon dioxid, such as chlorophyl.

earbon dioxid, such as enforophyl.

Under certain conditions the chlorophastid may likewise indergo a transformation into a yellow orange-colored body, known as a chromoplast, the pigment associated with it being called by the author, chromophyl. Those plastid pigments are distinguished from all other plant colors by their solubility in such solvents as benzol, ether, volatile oils, etc.

Science, May 6, 1904, p. 727.

eolor, + πλάσμα, anything formed.] In cytol. dyes. Same as karyoplasm.

chromoplasmic (krō-mō-plaz'mik), a. Of or pertaining to chromoplasm.

chromoproteid (krō-mō-prō'tē-id), n. [Gr. χρωμα, color, + Ε. proteid.] A proteid in which an albuminous group is in combination with a

pigment radical—for example, hemoglobin.

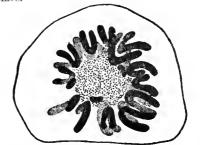
chromoptometer (krō-mop-tom'e-ter), n.
Same as *chromatoptometer.

chromoptometrical (krō/mop-tō-met'ri-kal),
a. Pertaining to or obtained by the use of a

chromatoptometer.

chromoscope, n. See *chromascope, 2.

chromosomal (krō-mō-sō'mal), a. [chromo-some + -all.] Of or pertaining to the chromosomes.



Cells (spermatocytes) of the Salamander. (Drüner.)

Transverse section through the mitotic figure showing the ring of chromosomes surrounding the central spindle, the cut fibers of the latter appearing as dots. Highly magnified.

chromosomatic (kro"mō-sō-mat'ik), a. Same $a \le *chromosomal.$

chromosome (krô'mô-sōm), n. [Gr. χρῶμα, color, + σῶμα, body.] In cytol., one of the definite segments or pieces of chromatin of the cell-nucleus. The chromosome normally divides into two equal parts, by either longitudinal or transverse splitting, before or during cell-division, and each of the parts thus arising becomes a chromosome of a daughter-nucleus. The number of chromosomes in the cells of a given animal or plant appears to be definite and constant. See cut on p. 245.—Bivalence of the chromosomes, See *bivalence.—Chromosome reduction, the process by which the number of chromosomes of the embryonic

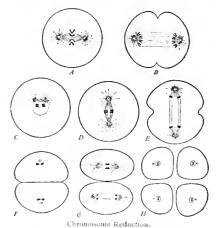


Figure to show reduction in the male as it occurs in the round worm of the horse, Ascaris megalocephala, var. bivalens.

var. brealens.

A B, division of one of the spermatogonia, showing the full number (four) of chromosomes; c, primary spermatocyte preparing for division the chromatin forms two tertads); D F, f, first division to form two secondary spermatocytes each of which receives two dyads; C H, division of the two secondary spermatotes to form four spermatids. Each of the latter receives two single chromosomes and a centrosome which passes into the middle-piece of the spermatozoon. (From Wilson's "The Cell.")

germ-cells (oögonia and spermatogonia) is reduced by half in the egg (ootid) and spermatozoon (spermatid). **chromosomic** (krō-mō-sō'mik), a. Same as

*chromosomatic and *chromosomal.

chromotypy, n. 2. The art of printing in colors. This is done by the arts of typography and lithography, often in conjunction with photo-engraving. Distinct processes are common in each method. See chromotuve

chromotylograph (krō-mō-zil'ō-gráf), n. [Gr. χρώμα, color, + ξύλον, wood, + γράφειν, write.] A pictorial print in colors, taken from blocks of wood engraved in high relief for the typographie press. As wood is liable to shrink and warp inequally on blocks of different colors, metal surfaces are now preferred.

chromyl (krō'mil), n. [chrom(ium) + -yl.] In chem., chrominm dioxid when regarded as a compound radical color: as, chromyl chlorid

compound radical color: as, chromyt chlorid (CrO_2Cl_2). Chron. An abbreviation of Chronicles. Chron., chronol. Abbreviations(a) of chronological; (b) of chronology. Chronal (krô'nal), a. [Gr. $\chi\rho\delta\nu\sigma_\zeta$, time, + $-al^1$.] Relating to time; as regards time. Chronist (kron'ist), n. [Gr. $\chi\rho\delta\nu\sigma_\zeta$, time, + $-t\delta t$.] A chronologer.

chronocrator (krō-nok'ra-tor), n. [Gr. χρονοκράτωρ, ζχρόνος, time, + -κράτωρ, ruler, ς κρατεῖν, rule.] In mundane astrol., the lord of the year; the planet ruling the ascendant at the moment of the sun's ingress into Aries.

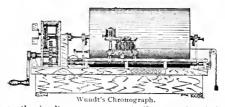
chronogenesis (kron-o-jen'e-sis), n. [Gr. χρόνος, time, + γένεσις, genesis.] The developmental history of a definite group of allied or-

No classification can be natural and permanent unless based on the history of the class (chronogenesis) and the ontogeny of the individual.

Zittel (trans.), Textbook of Paleon., I. 304.

chronograf, n. A simplified spelling of chron-

chronograph, n.—Drop-chronograph, an instrument in which time-intervals are recorded in distances traversed by a body falling between vertical guides. It is used in ballistics and the study of explosives.—Wundt's chronograph, a recording chronograph, much used for exact time-records in psychological laboratorics. It consists essentially of a horizontal drum, revolved by clockwork, and a carriage which travels along the drum upon an endless serew. The carriage holds a recording tuning-fork, accurately adjusted to give 500 vibrations per second, and three electromagnetic writing levers. The tuning-fork is actuated by way of a standard fork of 250 vibrations per second, and the simultaneity of movement of the three levers is checked by a specially constructed hammer. The chronograph may be employed for the reaction experiment; as a control of the Hipp chronoscope; for the determination of the temporal difference of ap-



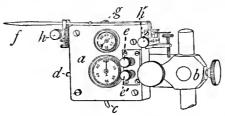
parently simultaneous movements (for example, of the right and left hands); and, in short, for any purpose for which a precise record of brief intervals of time is required.

chronographic projector. See $\star projector$.

[chronoisotherm + -all.] Of or pertaining to a ehronoisotherm; relating to a method of indicating the relations between temperature and

time.

Chronometer tables, tables which make it easy for a mariner in any latitude to determine the chronometer-correction from an observed altitude of the sun, without the usual tedious computation.—D'Arsonval chronometer, a portable and practically noiseless clockwork, recording time in units of 0.01 second, and controlled, like the Hipp chronoscope, by an electromagnet. The chronometer is sometimes used in psychological laboratories as a less expensive substitute for the Hipp chronoscope; it was primarily intended for the use of physicians in visiting their patients.—Jacquet's recording chronometer, a stop-watch, which may be either mechanically or electri-



Jacquet's Recording Chronometer.

a, watch-case, with minute- and second-dials; b, clamp for adjusting the chronometer, vertically or horizontally, upon the arm of the standard; c, lever for bringing the hands of the dials to zero; d, lever for starting and stopping the chronometer. The movement of starting makes electrical contact hetween the posts c, c, so that the moment at which the observation begins can be exactly marked upon the drum a, recording-lever; g, pash-button for setting the record to seconds or fitths of a second a, b, b inding-posts for the electric registration of time intervals at a distance from the instrument.

cally controlled, and which is furnished with a writing lever for the marking of seconds or fifths of a second on the moving surface of the kymograph.

chronometerer (kro-nom'e-ter-er), n. One who by use of time-measuring apparatus, such as stop-watches, electric timers, chronographs, etc., is expert in measuring rates of speed, time-intervals, and time consumed in races, speed-trials, and similar events.

chrononomy (krō-non'ō-mi), n. [Gr. χρόνος, time, + νόμος, custom, law.] Method of reekoning time: as, the lunar chrononomy of the chrococcoid (kro-o-kok'oid), a. Resembling Chinese. Max Müller.

Chrococcus.

chronophotogram (kron-ō-fō'tō-gram), Same as *chronophotograph.

chronophotograph (kron-ō-fō'tō-graf), n. [Gr. χρόνος, time, + Ε. photograph.] In photog., a single photograph of a series taken at equal intervals, usually on a moving film. These films are used in the cinematograph for the scientific investigation of a moving object.

2. A series of photographs representing phases of a cycle. (See cuts at rack, run, trot, and walk.)—3. An apparatus for obtaining a succession of photographs at regular intervals of

chronophotographic (kron-ō-fō-tō-graf'ik), a. [chronophotograph + -ic.] Pertaining to or connected with chronophotography.

By means of a chronophotographic apparatus, a series of pictures of the illuminated parts was taken, their appearance in the picture being that of dotted lines.

Nature, March 26, 1903, p. 487.

chronophotography (kron "ō-fō-tog'ra-fi), n. Continuous or kinetoscopic photography; the photographing of successive phases of a scene, movement, etc., at such short intervals that the whole is reproduced with apparent continuity.

A new method, which is called chronophotography. It was M. Janssen who first conceived the idea of taking automatically a series of photographic images in order to determine the successive positions at different times of the planet Venous in its passage across the sun. It was Janssen also who, in 1876, first suggested the idea of applying successive photograms to the study of animal locomotion. The analyzing of such movements was first accomplished by Muybridge, of San Francisco. Science, Dec. 27, 1901, p. 991.

chronographical (kron-\(\tilde{0}\)-graf'i-kal), a. Of or pertaining to chronology; chronological: as, a chronographical table.

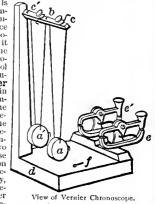
chronographically (kron-\(\tilde{0}\)-graf'i-kal-i), adu.

1. In ehronological order.—2. By means of the chronographic as, chronographically recorded.—3. In a chronogram: as, a date chronographically (or chronogram: as, a date chronographically (or chronogrammatically) expressed.

chronoisotherm (kron-\(\tilde{0}\)-i's\(\tilde{0}\)-th\(\tilde{c}\)-th\(\tilde{c}\)-th'erm), n. [Gr. \(\tilde{c}\)-th'erm, \(\tilde{c}\)-th'erm any place; a thermal iso-pleth, showing by curves the hours and days when the same temperature occurs.

chronoisothermal (kron\(\tilde{0}\)-i-s\(\tilde{0}\)-ther'mal), a. [chronoisothermal (kron\(\tilde{0}\)-i-s\(\tilde{0}\)-ther'mal), a. [chronoisothermal (kron\(\tilde{0}\)-i-s\(\tilde{0}\)-ther'mal), a. [chronoisothermal (kron\(\tilde{0}\)-i-s\(\tilde{0}\)-ther'mal), a. [chronoisotherm + -all-] Of or pertaining to a

lum chronoscope is sometimes employed, after standardization, in place of the Hipp chronoscope; sometimes it is used, like the gravity chronoscope, as a control of the Hipp instrument. — Vernier chronoscope. in chronoscope, in psychophys., an instrument for the measurement of reaction-times. The action-times. The chronoscope, devised by E. C. Sanford, consists of two pendulums, whose periods of wibration are 0.8 and 0,7s seconds respectively, and of two released two released by a rap on the control of the co



keys. If the longer pendulum is released by a rap on the button of its key, and the shorter pendulum by a finger-movement made in response to the sound of this rap, the number of vibrations occurring before coincidence of the pendulum-swings represents the reaction time in units of 0.8 – 0.78 seconds, or afficients of the reaction experiment.

chronoscopic (kron-ō-skop'ik), a. [chronoscope + -ic.] Of or pertaining to the chronoscope; measuring duration.

chronostichon (kron-os'ti-kon), n. A line-of poetry containing a chronogram (which see). A line of chronothermal (kron-ō-ther'mal), a. [Gr. χρόνος. time, + θέρμη, heat, + al.] Pertaining to temperature considered as a function of time. chronotropism (krō-not'rō-pizm), n. [Gr. χρόνος, time, + τρόπος, a turn, + -ism.] Interference with the frequency of the heart's action. Encyc. Brit., XXXI. 733.

chroöcoccaseous (krowo-ko-ka'shius), a. Resembling or allied to the alga Chroococcus; belonging to the family Chroococcaceæ.

chrysalidal (kris-al'i-dal), a. [chrysalis (-id-) + -al¹.] Of, belonging to, or resembling a

chrysalis. chrysaline (kris'a-līn or -lin), a. [chrysal(is) + -inel. The strict form would be chrysalidine.] Of or resembling a chrysalis. N. E. D.

chrysalism (kris'a-lizm),n. [Irreg. (chrysal(is) -ism.] A chrysalis condition.

chrysalis-shell, n. 2. A land-snail of the

genus Pupu. chrysaloid (kris'a-loid), a. [Irreg. (chr al(is) + -oid.] Like a chrysalis. Lindley.

Chrysamphora (kris-am' fō-rā), n. [NL. (Greene, 1891), ζ Gr. χρνσός, gold, + ἀμφορείς (L. amphora), a jar.] A genus of dicatyle-donous plants of the family Sarraceniaceæ. See Darlingtonia.

chrysanthemous (kri-san'the-mus), a. Same as *chrysanthous.

chrysanthemum-fly (kri-san "thē-mum-fli'), n. chrysophenin, chrysophenine (kris-of'e-nin). A cosmopolitan syrphid fly, Eristalis tenax. Also called drone-fly (which see).

chrysanthine (kri-san'thin), a. See *chrysanthous

chrysanthous (kri-san'thus), a. [Gr. χρυσός, gold, + ἀιθος, flower.] Having yellow flowers. Also chrysanthemous and chrysanthine.

Also chrysanthemous and chrysantheme.

Chrysaora (kri-sā'ō-rā), n. [Nl., < Gr. χρνσάορο, also χρνσάωρ, with golden sword, < χρυσός, gold, + ἄορ, sword.] A genus of jellyfishes of the family Petagiadæ, held by Haeckel

chrysaurin (kris-â'rin), n. [Gr. χρυσός, gold, + L. aurum, gold, + -in².] An acid coal-tar color. Same as orange II. Also chrysaureine.

color. Same as orange H. Also chrysaureine. chrysean (kris'ē-an), n. [Gr. $\chi \rho i \sigma \epsilon \omega_{\rm c}$, golden, +- ϵn .] A glistening yellow erystalline compound, $C_4H_5N_3S_2$, obtained by passing H_2S into a concentrated solution of KCN.

chryseinic (kris-ē-in'ik), a. Noting an acid, the sodium salt of 4-nitro-a-naphthol, NO₂C₁₀ H₆ONa; also called French yellow and Cam-

pobello yellow.

chrysenic (kri-sēn'ik), a. [Gr. χρυσός, gold, + -ene + -ic.] Derived from chrysoquinone.—Chrysenic acid, 2-phenylnaphthalene-t-carboxylic acid. C₆H₃, C₁₀H₆Co₂H. It crystallizes in leaflets which melt at 185.5°C.

chryseoline (kris ' ē - ō - lin), n. [Gr. χρίσεος, golden, + -ol + -in². Cf. chrysolin.] Same as tropæolin.

chrysidine (kris'i-din), n. [Gr. $\chi\rho\nu\sigma\delta\varsigma$, gold, $+-id+-ine^2$.] A name given to two bases, $C_{17}H_{11}N$, obtained respectively by passing benzylidene-a- and β -naphthalene through a heated tube. The a base melts at 108° C., the β base at 131° C.

chrysin (kris'in), n. [Gr. $\chi\rho\nu\sigma\delta c$, gold, +-in².] A crystalline yellow phenol, $C_{15}H_{10}O_4$, found in various species of Populus.

chrysoaristocracy (kris-fō-ar-is-tok'ra-si), n. [Gr. χρυσός, gold, + άριστοκρατία, aristocracy.] The aristocracy of gold.

chrysocarpous (kris-ō-kār'pus), a. [Gr. χρινσός, gold, + καρπός, fruit.] Having yellow fruit. chrysocetraric (kris"ō-sō-trar'ik), a. [Gr. χρινσός, gold, + cetraria + -ic.] Derived from cetraria .- Chrysocetraric acid. Same as *pinastric

chrysocrat (kris'ō-krat), n. [Gr. χρυσός, gold, + κρατης, ζ κρατείν. rule.] 1. A plutocrat.—
2. A supporter of the economic policy of making gold the monetary standard. [A news-

paper usage.]

chrysocreatinine (kris"o-krē-at'i-nin), n. [Gr. χρνσός, gold, + E. creatinine.] An orange-yellow, crystalline, poisonous alkaloid, $C_5H_8ON_4$, found in lean meat. It resembles creatinine.

chrysogen (kris'ō-jen), n. [Gr. χρυσός, gold, +-yevis,- produced.] An orange-colored hy-drocarbon of unknown composition found in crude anthracene. It melts at 280-290° C. and is almost insoluble in benzene and glacial

chrysolite, n. 2. Goldstone. See aventurin, 1.

Nay, had she been true,
If heaven would make me such another world
of one entire and perfect chrysolite,
I'd not have sold her for it.

Shak Othello v 2. Ceylonese chrysolite, a jeweler's name for yellowish-green tournalin from Ceylon.—Saxon chrysolite, a dark variety of true topaz from Schneckenstein, in the Saxon Vogtland.

Chrysomela, n.—Gloaked Chrysomela, an American chrysomelid beetle, Glyptoseetls crypticus, which devours the foliage of apple and oak.

Chrysomyxa (kris-ô-miks'ä), n. [NL. (Unger, 1840), Gr. χρυσός, gold, + μίξα, slime.] A genus of fungi of the order Uredinales. The meidia are produced on leaves of conifers, the uredospores and telentospores on cricaceous plants. C. Ledi is a widely distributed species.

chrysophanate (kri-sof'a-nat), n. [chrysophan + ate¹.] A saft of chrysophan.—Bismuth chrysophanate, an amorphous yellow-colored compound of chrysorobland bismuth hydroxid, Bi(C₁₅H₂O₄)₃Bi₂O₅. It is antiseptic for skin-diseases. Also called derand. chrysophanin (kri-sof'a-nin), n. [chrysophan

-in2.] A bitter substance found in sennaleaves.

Chrysophanus (kri-sof'a-nus), n. [NL., Gr. χρυσοφανής, shining like gold: see chrysophan.] A widespread genus of lycænid butterflies. Only one species, C. thoi Boisduval, occurs in the United States. It is found only in the more eastern States.

n. [Gr. χρυσός, gold, + phen(yl) + -in².] A direct cotton coal-tar color of the disazo type, related to stilbene. It does unmordanted cotton in a salt bath. It is very fast.

chrysophilist (kri-sof'i-list), n. chrysophilite.

Chrysophlyctis (kris-ō-flik'tis), n. [NL. (Schilbersky, 1896), Gr. χρνσός, gold, + φλνκτίς, blister.] A genus of chytridiaceous fungi, so named from its yellow vesicular zoösporangia. xρυσός, gold, + α-eρ, sword.] A genus of Jellyfishes of the family Petagiadæ, held by Haeckel
to be transitional between Petagia and Dactylometra.

chrysatropic (kris-a-trop'ik), a. [Gr. χρυσός,
gold, + Atropa + -ic.] Derived from Atropa
Belladonna.—Chrysatropic acid. Same as ★scopoletin.

ammed from its yellow vesicular zoosporangia.
The mycelium is lacking. Swarn-spores and restingspores are produced in the interior of the host (endobiotic).
C. endobiotica, the only species, is said to cause a rot or
chytridiose of potato tubers in Hungary.

chrysopoëtic (kris-"ō-pō-et'ik), a. [Gr. χρυσός,
gold, + ποιητικός, ⟨ποιείν, make.] Capable of
producing gold from base materials, as was
assumed by the alchemists to be possible

assumed by the alchemists to be possible.

chrysopoëtics (kris-ō-pō-et'iks), n. agined art of producing gold from base materials, as was attempted by alchemists. chrysoprase, n. 2. The ancient name of a golden-green precious stone, now generally be-

lieved to have been a variety of the beryl or possibly a green variety of fluor-spar (chloro-phane), which possesses the property of shining in the dark or by the heat of the hand.

Chrysops, u. 2. [l. c.] An insect of the genus Chrysops.—Blinding chrysops, a European dipterons insect, Chrysops executions, of the family Tabanidæ: so called because it seems to prefer to bite animals around the eyes. Jour. Trop. Med., Jan. 15, 1903, p. 26.

Chrysoretin (kris-φ-rē'tin), n. [Gr. χρυσός, gold, + ρητίνη, resin.] A name given by Bley

and Diesel to a yellow resin obtained from senna-leaves. Later investigations showed that this is closely related to chrysophanic acid. chrysosplene (kris'ō-splēn), n. [Chrysosplenium.] A plant of the genns Chrysosplenium; golden saxifrage.

chrysostomic (kris-o-stom'ik), a. στομος, golden-mouthed, applied to popular orators (as in the surname Chrysostom), ζ χρυσός, gold, + στόμα, mouth.] Golden-mouthed;

Chrysothamnus (kris-ō-tham'nus), n. [NL. (Nuttall, 1840), ⟨Gr. χρνσός, gold, + θάμνος, bush.] A genus of dicotyledonous plants of the family Asteraceæ. There are about 25 species, natives of western North America, low-branching shrubs with linear, entire leaves, and clusters of golden-yellow

chrysotoluazin (kris*ō-tol-ū-az'in), n. [Gr. xpvvóc, gold, + E. tolu + az(ote) + -ine².] A base formed by the condensation of chrysoquinone with 3, 4-toluylene diamine. It crystallizes in yellow needles which melt at 176° C.

chrysotoxin (kris- $\bar{\phi}$ -tok'sin), n. [Gr. $\chi\rho\nu\sigma\delta\varsigma$, gold, $+\tau e\bar{\varsigma}(\kappa\delta\nu)$, poison, $+-in^2$.] A supposed chemical principle, said to be one of the active

constituents of ergot (Claviceps purpurca).

chrysotype (kris'o-tip), n. [Gr. χρισός, goid, + τίπος, type.] In photog.: (a) A photographic process in which paper sensitized by ferric ammonium eitrate is exposed behind a negative and the picture is developed by a neutral solution of gold chlorid and fixed by potassium iodide. The process is due to Sir John Herschel. (b) A picture made by this process.

cht. An abbreviation of chest (in plural chts). **chthonography** (thō-nog'ra-fi), n. [Gr. χθών, earth, + -γραφία, < γράφειν, write.] A descriptive treatise upon soils. Syd. Soc. Lex.

chub, n.—Indian chub. Same as hornyhead. Chubb lock. See *lock1. chub-headed (chub'hed "ed), a. Having a

large, thick head. chuck³, u. 3. In e 3. In cricket, a ball thrown instead chucky-chucky (chuk'i-chuk"i), n. [Corrnpof bowled.

chuck3, v. t. 3. In lawn-bowls, to strike counting ball) out of range, or to strike (a ball of one's own side) into a counting position. chuck³ (chuk), adv. [chuck³, v.] With full force; so as to hit; closely.

Our progress was rather a devious one; ... now getting into a sharp trot, and then suddenly pulling up at a dead stop, or running the machine *chuck* against a wall, to enable us to stand still and gain breath.

lies between the neck and the shoulder-blade: used as a roast.—Geometric chuck, a form of holder for work in the face-plate of a lathe, by which the work receives two or more motions besides the primary rotation of the plate. Such aggregation of motions eauses the point of the tool to describe epicyclic curves or other geometric curves on the work; used to produce the tracery on watch-cases and the line curved ornamental lines in dies for

chullpa

postage-stamps or bank-bills.—Magnetic chnck, a chuck in which the attractive force of an electromagnet is used to hold castings of steel or iron, drop-forgings, disks, saws, dies, scales, etc., while they are in process of finishing in a lathe, grinder, or other machine-tool. The most simple form is an electromagnetic table fitted with a cable and a switch for conveying and controlling the current. The casting is laid on the table, and, when the current is turned on, is held in place by it under all ordinary strains while in the machine-tool. The action of the chuck is automatic, the current being supplied at the instant the grinding-wheel starts, and the articles being released from the chuck when the motor stops. Articles placed in a magnetic chuck are afterward placed upon a *demagnetizer (which see).—Split chuck, a form of chuck or holder for thin disks of metal which are to be turned or finished on their faces. A hollow cup-shaped cylinder with parallel walls is split along the walls at two or more elements, the disk inserted in place being held by the edges when a ring outside the cup draws the walls together upon the disk.—Upright chuck, an angle holted to a face-plate; a wooden chuck having a pair of slotted jaws, used for holding work which would not be held conveniently in the ordinary or hollow form.

chuck-block (chuk'blok), n. In gold-milling,

chuck-block (chuk'blok), n. In gold-milling, a wooden block placed under the screen-frame of the mortar of a stamp-battery to permit adjustment of the screen as the dies wear, and thus maintain the proper height of the discharge-opening.

chuck-button (chuk'but"n), n. The game of pitch-and-toss played with buttons.

chucker² (chuk'er), n. In cricket, a bowler who is inclined to throw the ball instead of

bowling it. [Colloq.] chucker-luck. See *chuck-luck. chuck-hole (chuk'hōl), n. The small hole in the ground into which the farthing is to be thrown in the game of chuck-farthing; also, the game itself.

chucking (chuk'ing), n. A long, stout, coarse hemp, rather foul, used for making inferior rope. Rigging and Scamanship. N. E. D.

rope. Rigging and Seamansap. A. E. D.

chucking-machine, n. Now applied to a special machine which is essentially a *horing-and-turning machine (which see). The work is placed upon a horizontal revolving table, called the chucking-table, under a bracket which supports the turret carrying the tools.

chucking-table (chuk'ing-tā # bl), n. See *chucking-machine.

chuck-luck (chuk'luk), n. [Also chuck-u-luck, chuck-r-luck; < chuck³, v.. + luck.] A game played with three dice and a lay-out, at which the players bet that certain numbers will come on one die, or that the total of the three dice will be a certain number, or that the throw will be odd or even, high or low, etc.

chuck-plate (chuk'plat), n. In gold-milling, an amalgamated copper plate attached to the chuck-block on the inside of the mortar of a stamp-battery, used to collect the gold.

chuck-ring (chuk'ring), n. A heavy steel ring for holding the ends of barrel-staves while the

groove for the head is being cut.

chuck-roast (chuk'rōst), n. A roast cut from
the chuck. See *chuck4, n., 6.

chuckrum (chuk'rum). n. [Also chuckram;

Malayalam chakram, Telugu chakramu (Skt. chakra, a wheel, a circle: see wheel).] A subsidiary coin still current in Travancore, equivalent to one and one tenth cents or one balf of au auna (or 281/2 to one rupee). The coin was once generally current in the south of India.

chuck-steak (chuk'stāk), n. A steak or inferior cut from that part of a beef-animal that is known as the chuck. See *chuck4, n., 6. chuckwalla (chuk'wä-lä), n. [California In-

dian.] A local name for Sauromulus ater, a large, dark-colored lizard, belonging to the iguana family and inhabiting the desert regions of southern California, Utah, and Nevada, and portions of Arizena and New Mexico. It reaches a length of a foot or more, feeds on plants, and is esteemed for food by the Indians.

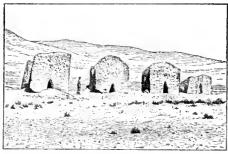
tion of the Australian aboriginal name for a Gaultheria hispida. See war-cluster,

chuf, n. A simplified spelling of *ehough*. chukpa (chök'pä), n. [Tibetan.] A Tibetan

They also informed us that a large body of *chukpas* were in our vicinity; whereupon our brave guides, after due consultation amongst themselves, formed up and suggested that we should attack the robbers, whose property was to be divided between them and ourselves.

Geog. Jour. (R. G. S.), XVI. 153.

chullpa (chöl'pä), n. [Also chulpa; Aymará chullpa, a basket or bag in which the bodies of the dead were placed for burial.] In the mountains of Belivia and Peru, one of the aboriginal towers used partly as burial-places, but also as the abodes of the people, who buried their dead under the floors while continuing to occupy the building, as the forest tribes of the



upper Amazon do to-day. Some of these stone towers are handsomely constructed, and these

were used chiefly for burial.

chullu (chö'lyö), n. [Quichua of Peru.] The
pointed bonnet or cap. similar to a nightcap but of colored wool, worn by the Indian men of the shores of Lake Titicaca. In Bolivia Huehu.

chultun (chöl'tun), n. [Yucatan.] In Yucatan, a subterranean rounded structure, with a rounded roof and an opening in the middle of the roof, probably used as a water-reservoir.

chumble (chum'bl), v. t. [Freq. of *chump'2.]
To gnaw or nibble, as rats and mice do. [Prov. Eng.

2. The system, formerly comchummage, n. mon in some English prisons of assigning a new-comer to a room with another or others.

chump¹, n. 3. The blunt end of anything. See chump-end.—4. The head. [Vulgar.]—
Off his chump, off his head; out of his senses. [Vulgar.]
Chump² (chump), v. t. [A varied form of champ). Cf. chumble.] To munch. Thackeray.
Chumpi (chöm'pi), n. [Quichua.] Among the Indians of Bolivia, a belt.

chunk¹, n. 3. Specifically, a range-bred horse of the western United States, suitable for

draft purposes, standing 15 hands or over, and weighing from 1,100 to 1,400 pounds. **chunk**³ (chungk), r. t. In lumbering, to clear (ground) with an engine or horses of obstructions which cannot be removed by hand.—

To chunk up, to collect and pile for burning: said of slash left after logging.

chunu (cho'nyö), n. [Quiehna and Aymará chunu or chunu.] Dried potatocs, the chief vegetable food of Bolivia. As the people have no cellars to keep their potatoes during winter, these are set out to freeze, and then, after repeated soaking, the water is pressed out and the starchy residue dried in the sun. It is, of course, tasteless. The white kind is called tunta. vegetable food of Bolivia.

chupa-chupa (chö"pä - chö'pä), n. [Native name.] In Colombia, the large, greenish, edi-[Native ble fruit of a tree, Matisia cordata, of the silkcotton family, native of the Andes region and cultivated in Peru and Colombia.

chupagallo (ehö-pä-gäl'yō), n. [Porto Rico.] A tree, Cinnamodendron macranthum, of the family Canellacce, native to Porto Rico. It bears greenish-white, orange-scented flowers and yields a strong light-colored wood used in house-construction.

chupon (chö-pōn'), n. [Sp., a sucker.] In the West Indies, same as sucker, 5 (b). See *gormandizer, 2. Nature, June, 1902, p. 185. chuppah, chuppa (chúp'pä), n. [Heb., \chickenpah, happah, cover, surround.] In the Jewish marriage ceremony, the canopy under which the reading of the kethnba, or marriage contract, and the nuptial ceremonies are performed. The chuppah is generally made of the curtain which is in front of the holy ark that contains the scrolls of the law. The four corners of the curtain are supported by four staffs or poles which are held by young male relatives or intimate friends of the bridal couple. The bridegroun is first ushered in under it; the bride and the

relatives of infinite friends of the bridal couple. The bridaeronm is first ushered in under it; the bridae and the parents soon follow and remain there until the end of the ceremony. **church.** I. n.—Abyssiniau Church, the church founded in Abyssinia in the middle of the fourth century. See Abyssinian, n., 2.—Christian Catholic Church. See \star catholic.—Church of Scotland, the church which was established in Scotland in 1892. Its doctrine is to be found in the Westminster Confession of Faith. In government it is presbyterian, and, though legally established, is not subject to the state in spiritual matters.—Constitution Church. See \star constitution.—Free Methodist Church. See Free Methodists, under Methodist Church, in European Christian architecture, especially that of Germany, a church whose three or more parallel divisions are nearly of the same height. Thus in St. Stephen's, Vienna, the aisle on each side of the nave is lower than the nave by a few feet, but the difference is not enough to allow of clearstory windows. The cathe-

Hall Church

Section of the Church of St. Elizabeth at Marburg.

dral at Erfurt and the church of St. Elizabeth at Marhurg are still more strictly hall churches, the nave being in cach of the same height as the aisles.—Institutional church, a church which maintains social, charitable, and church, a church which maintains social, charitable, and cducational institutions as a part of its organization, mainly for the purpose of reaching the poorer classes in large cities.—Reformed Church of France, a church established in France in 1555. At its first synod, in 1559, it adopted a presbyterian form of government and a strictly Calvinistic confession of faith. Under the decree of 1802 it enjoyed state support.—Reformed German Church, the church that sprang up in the Palatinate during the religious movement of the sixteenth century, of which Zwingli and Calvin were leaders. Its doctrine was set forth in the Heidelberg Catechism (1563) and corresponds with the Calvinistic system somewhat modified. Its history in America began with the great German immigration of the seventeenth century.—Reformed Methodist Church, an America offspring of the Methodist Episcopal Church, having its origin in a body of local preachers in the Vermont conference, in 1814, who opposed the tendency toward 'prelacy' in the parent body. The sect was never strong and later became absorbed in other Methodist churches.

II. a.—Church conference, the name given by the Weslowing of England and believe with the Seweril

II. a.—Church conference, the name given by the Wesleyans of England and Ireland, and the Freewill Baptists, to the annual meeting of the ministers of the churches.—Church house or settlement.—Church year. (a) Same as ecclesiastical year (see year). (b) See *year.

Church-bell (cherch'bel), n. The bell of a church which is runn to call the people or to

ehurch, which is rung to call the people, or to

mark festivals or funerals.

church-door (chérch'dōr), n. The outer door of a church. It was customary in early times to post upon it the names of excommunicated persons, the names of persons intending to marry, proclamations of the church, and other public notices.

church-flag (cherch'flag), n. Naut., a blue cross on a white pennaut field raised on board

a ship while religious services are being held.



Church of Santiago de Compostela, Spain, hy Churriguera. (From "Baudenkmäler in Spanien," pub. by Wasmuth, Berlin,)

Church-warden Gothic. See *Gothic. churinga (chö-ring gii), n. [Australian.] Something sacred or secret, applied both to an

object and to the quality possessed by it. It is most frequently used to signify the sacred stones and sticks of the Arunta tribe of central Australia. Spencer and Gillen, Native Tribes of Central Australia, p. 648.

churka (cher'kä), n. [Hind, charkhah, charkhā, a spiuning-wheel, distaff, reel, \(\section\) Skt. chakra, wheel: see wheel. Cf. *chuckrum.] The Oriental roller cotton-gin, made of two round pieces of hard wood fixed in a rude frame.

churn, n. 2. A block or chuck on a potter's turning-lathe.

churn-butted (ehern' but "ed), a. Same as swell-butted.

churrels (cher'elz), n. Same as *chirls. Churrigueresque (chö"ri-gā-resk'), a. and n. [Named in reference to Don José Churriguera of Salamanea and his two sons.] Noting an elaborate phase of the baroque style in architeeture which originated in Spain in the seventeenth century. The style was transplanted to Mexico, where it became typical. See cut in middle column.

chute, n.—To shoot the chute, to slide down a chute in a car, or in a boat that at the foot of the chute glides into the water.

There is here, indeed, almost enough material for an Earl's Court exhibition, though it might be a little undignified to combine amusement with instruction, in the way beloved of the Londoner, by giving him an opportunity of shooting the chute on a milkman 's-barrow or by converting the great wheel into a gigantic churn.

Lancet, May 30, 1903, p. 1534.

chute (shöt), v. t. [chute, n.] To send down

chute (shöt), v. t. [chute, n.] To send down or through a chute, as logs. chutkarry (chut'kar-i), n. [Also chattagar; Camil shatti-kar. 'one who wears a waistcoat.'] In southern India, a person of mixed European and Indian blood. [Anglo-Indian.] chutt (chut), n. [Hind. chādar-chhat, 'sheet-ceiling,' Chādar, sheet, cloth, chhat, a roof or ceiling.] A ceiling for a room, composed of coarse cotton sheeting stretched on a frame and whitewashed. [Anglo-Indian.]

and whitewashed. [Anglo-Indian.] chuttrum (chut'rum), n. [Tamil shattiram, < Skt. sattrá, hospital, asylum, lit. 'seat,' (\sad, sit: see sit.] In southern India, a house where pilgrims and travelers of the higher castes are accommodated free for a short time. [Anglo-

Indian.] Compare choltry.

chyak (chi'ak), v. t. [Also chyack; origin obseure.] To chaff; make game of: as, to

chyak the police. [Australian slang.]
chyazic (ki-az'ik), a. [e(arbon) + hy(drogen) + az(ote) + -ie.] Containing earbon, hydrogen, and nitrogen.-Chyazic acid, an old name for hydrocyanic acid.

chylangioma (kī-lan-ji-ō'mä), n.; pl. chylangiomata (-ma-ta). [Gr. χυλός, chyle, + άγγείον, vessel, + -oma.] A tumor formed of dilated lymphaties containing chyle.

chylariose (kī-lā'ri-ōs), n. [Gr. χυλάριον, dim. of χυλός, juice, + -ose.] A name given to 1-fructose obtained from honey. chyle-stomach, n. 2. In cntom., the second of the three prime morphologic divisions of the

alimentary canal, the mid-intestine or ven-

triculus. It is furnished with exeal glands. A. S. Packard, Text-book of Entom., p. 297. chylifacient (kī-li-fā'shient), a. [Gr. χυλός, chyle, + L. faciens (-ent-), making.] Same as chylifactive.

chyliform (ki'li-fôrm), a. [NL. chylus, ehyle, + L. forma, form.] Resembling chyle; having the composition of chyle.

The left pleural cavity was half full of chyliform fluid similar to that in the abdomen. Lancet, April 4, 1903, p. 961.

chylocauly (ki'lō-kâ-li), n, [Gr. $\chi v \lambda \delta c$, juice, $+ \kappa a v \lambda \delta c$, stem, $+ \cdot y^3$.] The phenomenon of stem-succulence, in which the stem becomes short, thick, even spheroidal, and is filled with a mueilaginous sap, as in some Cactaceæ. Schimper.

chylocele (ki'lō-sēl), n. [NL. *chylocēlē, ζ Gr. χυλός. chyle, + κήλη, tumor.] Presence of lymph in the tunica vaginalis testis. Presence of

chyloid (ki'loid), α. [Gr. χυλοιδής. like juice, ⟨χυλός, juice, ehyle, + είδος, form.] Resembling chyle.

chylopericarditis (ki″lō- or kil″ō-per-i-kir-di'tis), n. [Nl.., ζ Gr. χυλός, ehyle, + NL. pericardium.] In pathol., a condition in which

chyle is present in the pericardial sae. Chyloperitoneum (ki*15- or kil*5-per-i-tōne'nm), n. [NL., < Gr. χνλός, ehyle, + NL.
peritoneum.] In pathol., a condition in which
ehyle is present in the peritoneal cavity.

chylophylly (ki-lof'i-li), n. [Gr. χνλός, juice, + forma, form.] Resembling a cicatrix; behavior, < Κιλικίζειν, te act like a Cilician, + φυλλόν, leaf, + -y³.] In phytogeog., the scar-like. phenomenon of leaf-succulence, in which the cicatrizate, a. See cicatrisate. leaves of a plant become fleshy as a protection against conditions of physiological dryness. chylopoesis (ki*lō- or kil*ō-pō-ē'sis), n. [Gr. cicetone(sis'e-rōn), r. t.; pret. and pp. ciceroned, cicetone (sis'e-rōn), r. t.; pret. and pp. ciceroned, cicetone (sis'e-rone), r. t.; pret. and pp. cic **chylophylly** (kī-lof'i-li), n. [Gr. χνλός, juice, + forma, form.] Resemblin + φυλλόν, leaf, + -y3.] In phytogeog., the scar-like. phenomenon of leaf-succulence, in which the **cicatrizate**, a. See cicatrisate.

chylopoesis (kī'lō- or kil'ō- pō-ē'sis), n. [Gr. χνλός, ehyle, + ποίησις, a making.] Same as chylifaction.

chylorrhea, chylorrhea (kī-lō-rē"ā), n. [NL. chylorrhea, < Gr. χιλός, chyle, + ροία, a flow.]
 An eseape of chyle from the lymphatics.

chylothorax (kī-lō-thō'raks), n. [Gr. $\chi\nu\lambda\delta\varsigma$, chyle, $+\theta\omega\rho a\xi$, thorax.] In pathol., a condition in which chyle is present in the pleural

chymaqueous (ki-mā'kwē-us), a. [Gr. χυμός, juice (chyme), + L. aqua, water (see aqueous).]
Composed of chyme and water, as the fluid in cichlomorphous (sik-lō-mór'tus), a. Same as the digestive eavity and its branches in polyps.

chymogene (ki'mē-jēn), n. See *bulanc. chymosin (kī'mō-sin), n. [Gr. xyuōç, juice, +-ose +-in².] The milk-eurdling ferment of the gastrie juice. Also called rennin.

chymosinogen (ki-mô-sin'ô-jen), n. [chymo-sin+-gen.] The preenzyme of chymosin, which in itself is inactive. In this form the ferment supposedly exists in the cells. Also called renninogen.

chytra (kit'ra), n. [Gr. χύτρα, dial. κίθρα, κύτρα (also $\chi i\tau \rho \rho \varsigma$, $\kappa i\tau \rho \rho \varsigma$, $\kappa i\tau \rho \rho \varsigma$), $\langle \chi \epsilon i v (\sqrt{\chi} v)$, pour.] In $Gr.\ antiq.$, a two-handled

earthen pot for heating water or cooking. 1t was usually with-outdecoration. The proverb "to paint a chytra" was ap-plied to any nseless ccupation

Chytridiales (ki - trid - i -ā' -lēz),n.pl. [NL., < Chytridium + -ales.] An or-der of fungi of

the class Oömycetes, coextensive with the family Chytridiacox. Also Chytridieæ and Chutridineze.

Chytridieæ, Chytridineæ (ki-trid-i-ë'ē, -nē'ē), n. Same as *Chytridiales.

chytridiose (ki-trid'i-os), n. [Chytridium + chytridiose (ki-frid'i-ōs), n. [Chytridium + 1.2. Samee, A reast may on the knone, n. -osc (-osis).] Any disease of plants caused by exterior chytridiaceous fungi. The teaves are usually attacked, and reddish or yellowish, warty or vesicular awellings are produced on the surface, accompanied by some wrinkling or other slight deformation. Chytridiose of slight and chytridiose of beet are caused by Physoderma teproides; chytridiose of grape by Cludochytrium vitice cigarette-beetle (sig-a-ret'be"tl), n. An incolum; chytridiose of the nulberry by C. Mori; chytridiose of the potato by Chrysophlyctis endobiotica; and chytridiose of volet by Cladochytrium Violze.

Chytridiose (ki-frid'i-ōs), n. Same as *cigar-beetle (sig-a-ret'bast), n. The thin, paper-like layers of the inner bark of Lecytlus Oldaria. See Lecytlis and kakurali. cigarette-beetle (sig-a-ret'be"tl), n. An incolum; chytridiose of volet by Cladochytrium Violze.

Same as *cigar-beetle (sig-a-ret'bast), n. The thin, paper-like layers of the inner bark of Lecytlus oldaria. See Lecytlis and kakurali. cigarette-beetle (sig-a-ret'be"tl), n. An incolum; ciyitidiose of volet by Cladochytrium Violze.

chytridiosis (ki-trid-i-o'sis), n. Same as

C. I. The authorized abbreviated form of Imperiat Order of the Crown of India. See Order of the Crown, under crown.

cib. An abbreviation of the Latin cibus, food.

cibory, n. Same as ciborium, 1. Cibotium (si-bō'ti-um), n. [NL. (Kaulfuss, 1820), in allusion to the form of the indusium; (Gr. κιβώτιον, dim. of κιβωτός, a box.) А делия of mainly arborescent cyatheaceous ferns, allied to Dicksonia, but distinguished technically from that genus by having the outer valve of the bivalvate indusium larger, more highly modified, decidedly coriaceous and cucullate. There are about 10 species, confined to the tropics of both hemispheres. C. Barometz, an Asiatic species, has long been known as the Scythian lamb. See Aynus Scythicus, under agnus.

cicada, n. - Large dog-day cicada, an American cleadld, Tibicen prainosa (Cicada tibicen). See dog-day harvest-fly, under harvest-fly.

cicada-killer (si-kā 'dā-kil "er), n. A large American digger-wasp. Sphecius speciosus, cigua (thë 'gwä), n. which stings the annual cicada or dog-day harter of Florida and vest-fly, Tibicen pruinosa, and stores it in its burrows as food for its young. See Sphecius,

cicadid (si-kad'id), a. and n. I. a. Of or belonging to the homopterous family Cicudidæ.

II. n. One of the Cicadida. cicatricular (sik-a-trik'ū-lar), a. Of or per-

taining to the cicatricula.

cicatricule (sik-at'ri-kūl), n. In embryol., cil (sil), n. [F. cil, eyelash, < L. cilium, eyelid.]

ppr. eiceroning. Same as *ciceronize. Ciceronic (sis-e-ron'ik), a. Same

Same as Cieeronian.

ciceronism (sis'e-ron-izm), n. The occupation or office of cicerone or guide.

Frolick—who seems an easy-going man-about-town sort of cockiney, delighted to have the pretext of eiceronism to revisit all manner of queer hannts.

Bluckwood's Mag., LXXIV. 289,

cilioretinal ($\sin^2 i - \hat{o} - ret' i - inql$), a. Relating to

ciceronize (sis'e-rō-niz), v. t.; pret, and pp. ciceronized, ppr. ciceronizing. To act as eicerone or guide to; play the enerone to.

cichlomorphic.

cicutoxin (sik-ū-tok'sin), n. [Cicn(ta) + toxin.]
A poisonous compound found in the water-hemlock. It is an uncrystallizable resin with an acid reaction and bitter taste

[chymo- Cidaroida (sid-a-rō-ī'dā), n.pl. [NL., \ Cidaris Cidaroida (sid-a-rō-i'dāi), n.pl. [NL., \ Cidaris (a genus) + -nida.] An order of regular endobranchiate Echinoidea. They have the peristome central; the periproct central on the aboral surface of the body and surrounded by the apical system of plates; the ambulacra consisting of 2 vertical series of simple, narrow plates, some of which may be demi-plates; the interambulacrat plates mittuberculate, with large spines, and a dental apparatus. The order includes the families Lepidocentridæ, Archæocidaridæ, Diplocidaridæ, and Cidaridæ, the first three of which are extinct.

cider-gum (sī'dēr-gum), n. Same as cider-tree.

C. I. F. An abbreviation of carriage, insurance, and freight (used) in contracts, relative.

J. I. F. An abbreviation of carriage, insurance, and freight (used in contracts relating to direct shipments of cotton to spinners,

when these charges are prepaid).

cifer, n. and r. A simplified spelling of cipher.

cigala (si-gä'lä), n. [Pr. and It.; see cicala, cicala.] A cicada.

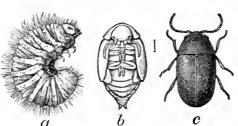
cigale (si-gäl'), n. [F., \langle Pr. ciyala.] Same

as *cinala.

Gigaliers (sē-gā-lyā'), n. pl. [F. cigalier, < ci-gale, a cicada.] A Félibrien society main-tained in Paris by the natives of the South of France, its emblem being a cicada (cigale).

A . . . far more picturesque decoration was the enamelled cigale worn by the Cigaliers,—at once the emblem of their Society and of the Felibrien movement, and of the glowing South where that gayest of insects is born and sings his life out in the summer days.

T. A. Janeier, A Feast Day on the Rhone, il.



Cigarette-beetle (Lasioderma serricorne). a, larva; h, pupa; c, adult. All greatly enlarged. (Chittenden, U. S. D. A.)

ous family Ptinidæ. It is of wide distribution, and is a serious pest in tobacco factories and warehouses. It perforates ciears and eigerettes and, in the larval stage, feeds on cut tobacco and on the dried leaf. It also feeds on pepper, insect-powder, and many drugs and stored foods.

cigar-tail (si-gir'tāl), n. A (horse's) tail entirely denuded of hair. Buck, Med. Handbook, V. 482.

rigua(thē'gwä), n. [Cuban.] A lauraceous tree of Florida and the West Indies, *Dambur*-A lauraceous nega Catesbyana. It is called laneewood in Florida and timber-sweetwood in Jamaica.

cignatera (the-gwii-tā'rā), n. [Sp.: cf. acignatur, affect with this disease, < cignato (Dominguez), a fish of a yellow color: said to be Mex. An affection believed by the natives of Central and South America to be caused by eating

cincholine

ciliophagocytic (sil*i-ō-fag-ō-sit'ik), a. [cil-ium+phagocytic.] Relating to the phagocytic action of cilia.—Ciliophagocytic organs, various ciliated or vibratile structures which have the function of collecting and removing granules of debris and degenerated cells from the celloma of different invertebrates, especially worms, leeches, and echinoderms. Jour. Roy. Micros. Soc., Feb., 1903, p. 31.

the eiliary body and to the retina of the eye. cimarron, n. 2. [cap.] In the Philippine Islands, a name given to members of various poor wandering tribes, mostly descendants of civilized natives who have fled to the mountain forests.—3. A West-Indian name for a

wild (feral) dog.—Cimarron series. See **series. cimicoid (sim'i-koid), a. [L. cimex (cimic-), bug, +-oid.] Resembling a bug. Syd. Soc.

ciminite (chim'i-nīt), n. [(Monti) Cimini, in thin the (cmm) into, n. ((Mont) Cmim, in Italy, +-itr2.] In petrog., a name given by H. S. Washington (1897), to porphyritic lavas characterized by phenoerysts of augite, olivin, and sometimes feldspars, the ground-mass consisting of feldspar with augite and magnetite. The feldspars are orthoclase and labradorite in nearly equal amounts. Climinite embraces some of the rocks called trachydolerites. trachydolerites

cimline (sim'lin), n. [D. sim, a fishing-line.] The top line of a drift-net. [Local, U. S.]

The ordinary gill or drift net used for shad fishing in the Hudson is from a half to three-quarters of a mile long, and thirty feet wide . . . The fishermen have terms and phrases of their own . . . The top-cord or line of the net is called a "cimiline."

J. Burroughs, in Scribner's Mag., Aug., 1880, p. 492.

Cimolestidæ (sim-ō-les'ti-dō), n. pl. [NL., < Cimolestia (sin-o-les (1-do), n. pt. [KIL, Cimolestes + -ide.] A family of extinct marsupial mammals, containing species of small size, with sharply tuberculate teeth; known from teeth from the Laramic Cretaceous of the western United States. Marsh, 1889. Cimonian (sī-mō'ni-an),a. Pertaining to Cimon,

an Athenian statesman (d. 449 B.C.), or to the works executed on the Acropolis under his direction. These were the retaining wall on the south side and the substructures of the Parthenon.

cinamomo (thin-a-mō'mō), n. [Sp., the bead-tree.] A name in the Philippines and Guam of the eamphire, or henna (Lawsonia incrmis). See henna.

cinch, n.—2. A firm hold or grip on anything.
—3. A fine position or situation; an easy job; a 'snap.' [Slang, U. S.]—4. A variety of allfours, sometimes called double pedro and highfours, sometimes called double pedro and highfive. In addition to the points for high, low, jack, and
game, the five of trumps (right pedro) is worth 5, and the
five of the same color (left pedro) is also worth 5, so that
14 points are made in every deal, all in the trump
suit. Nine cards are dealt to each player, three at a time.
Each player, in turn, has one bid for the privilege of
naming the trump suit, the number offered being what
the player thinks he can make with his partner's assistance, but no one is allowed to mention the suit he punposes to select. The highest bidder names the trump, and
then each player, in turn, discards everything but trumps,
the dealer giving him cards from the top of the pack to
make the hand up to six cards, with which he plays. The
maker of the trump leads any card he pleuses, and the
object of the players is to secure the counting cards and
also to 'cinch' tricks, so that an opponent cannot save a
pedro by trumping in. After the hand is played the points
are counted and, if the bidder has made as many as he offered, the lower score is deducted from the higher, the difference counting toward game, which is 51 points. If the
bidder fails, the adversaries add the amount of his bid to
any points they make, the unsuccessful bidder scoring
nothing.

cinchamidine (sin-kam'i-din), n. [vinch(mat)]

cinchamidine (sin-kam'i-din), n. $+amide + ine^2$.] A crystalline bitteralkaloid, $C_{19} \coprod_{124} ON_2$, contained in cinchona bark in small quantities.

small quantities.

cinchene (sin'kĕn), n. [cinch(ona) + -enc.] A
base, C₁₉H₂₀N₂, obtained by boiling einchonine chlorid with alcoholic potash. It crystallizes in plates which melt at 123-125° C.

cinchocerotin (sin-kǫ̃-sẽ'rō-tin), n. [cincho(na)
+ cerote + -in².] A crystalline cholesterin
derivative, C₂₀H₃₄O + H₂O, contained in cinchons

cinchol (\sin' kôl), n. [einch(ona) + -ol.] An alcohol, $C_{20}H_{34}O + H_{2}O$, resembling cholesterol, found in all true cinchona barks. When

cicatricule (sik-at'ri-kūl), n. In embryol., cil (sil), n. [F. cil, eyelash, < L. cilium, eyelid.]
same as cicatricula.
cicatriform (sik'a-tri-fôrm), a. [Erreneously ciliary flame. See *flame.
for *cicatriciform, < L. cicatrix(trie-), a sear, Cilicism (sil'i-sizm), n. [Gr. Κιλικισμός, Cilician oil from brown coal. It boils at 237° C.

Cinchona red. See *rcd1

cinchonibine (sin-kon'i-bin) [cinchona + -ib-, varied from -il, + -inc².] An alkaloid, $C_{19}H_{22}N_2O$, obtained by heating cinchonine An alkaloid. sulphate with sulphuric acid. It was probably a mixture of cinchotine and apoeinchonine.

cinchonifine (sin-kon'i-fin), n. [cinchona + -if-, varied from -il, + -inc².] An alkaloid obtained from cinchonine by heating it with sulphurie acid: now known to be identical with einchotine.

cinchonine-herapathite (sin #ko-nin-her-apath'it), n. [Second element named from Dr. Herapath.] Same as *autiseptol.

cinchonization (sin-kō-ni-zā'shon), n. [cin-chonize + -ation.] The act of bringing under the inflnence of einchona or quinine; the induction of einchonism.

cinchonology (sin-kō-nol'ō-ji), n. [cinchona + Gr. -λογία, ζλέγειν, speak.] The study of einchona in its botanical, pharmaceutical, and therapeutical relations.

cinchonometry (sin-kō-nom'e-tri), n. The process of determining the amount of alkaloids in cinchona bark.

cinchotine $(\sin' k\bar{\phi} - tin)$, n. [cincho(na) + -t-+ -in².] Same as hydrocinchonine. Cincinnati china. See *chinu.

Cincinnatian (sin-si-nat'i-an), a. and a. [Cincinnatian + -an.] Of or pertaining to the city of Cineinnati, in Ohio; specifically, in geol., noting a group or period of late Lower Silurian age, construed to embrace the Utica and Lorraine beds of New York and the Richmond rathe of ds of New Lork and the Alemmond beds of the Ohio valley. Originally, as Cincinnati beds, the term was employed as equivalent in part to the Trenton, Utica, and Lorraine beds, or the so-called Iludson-River beds of New York. See Cincinnati group, under

cincinnulus (sin-sin' n-lus), n.; pl. cincin-nuli (-li). [NL., dim of L. cincinnus, a eurl.] A small hook or process attached to the sty-

lamblys in crustaecans.

cinclisis (sing kli-sis), n. [NL., < Gr. κίγκλισις, a wagging, jerking, < κιγκλίζειι, wag the tail, < κιγκλος, a bird identified as the wagtait or as the dunlin.] Rapid winking; also rapid respiratory movements in dyspnæa.

cinct (singkt), p. a. [L. cinctus, pp. of eingere, gird.] Girt; einctured; surrounded.

Thus girt With circumstance, next change beholds them

Quite otherwise. Browning, Sordello, vi. 1. 450.

cinder, n.—Buck-shot cinder, cinder containing grains of iron, from the iron blast-furnace.
cinder-box (sin'dèr-boks), n. A cast-iron box riveted to the bottom of the extension front

of a locomotive-boiler, to form an opening through which the cinders can be cleaned out. cinder-plate (sin'der-plat), n. A plate on which the einder from a furnace is allowed to collect. The hest of the cinder is given up to air which mixes with the hot gases and completes the com-

cinder-tap (sin'der-tap), n. The hole through which cinder is tapped from a furnace; a

cinder-noteh.

cinematograph (sin-ē-mat'ō-graf), κίνημα, movement, + $\gamma \rho \dot{a} \phi \epsilon \dot{\nu}$, write.] An instrument devised in France for projecting on a sereen photographs showing objects in a screen photographs showing objects in motion. It consists essentially of a lantern fitted with a mechanism for projecting, in rapid succession, many hundred photographs representing the consecutive stages of the moving picture. These photographs are on a long ribbon or film which is wound from one spool to another, each picture being before the objective for an instant, at which moment light passes through it to the screen. The term is also applied to the instrument used for taking the pictures. Also kinematograph.

cinematograph (sin-ē-mat'ō-grāf), v. t. To photograph with a cinematograph to make

photograph with a cinematograph; to make a succession of photographic pictures of objects in motion. Also kinematograph.

M. Camille Flammarion has undertaken to cinematograph the sky. He takes 3,000 photographs a night when it is clear and expects to show realistic pictures of the movements of moon and stars.

Sci. Amer. Sup., Feb. 26, 1898, p. 18481.

cinematographer (\sin -ē-ma-tog'ra-fer), n. One who uses a einematograph. Also kinematographer.

If there was no cinematographer in the French . Chamber on Saturday there ought to have been. Pall Mall Gazette, Jan. 24, 1898.

cinematographic (sin-ē-mat-ō-graf'ik), a. 1. Pertaining to, or suitable for exhibition in, a einematograph.—2. Adapted, as an instrument, for taking a series of instantaneous

pietures. Also kinematographie. cinematographical (sin-ē-mat ō-graf'i-kal), a.

Same as cinematographic. graphical.

cinematography (sin-ē-ma-tog'ra-fi), n. The art of taking a succession of photographic pictures representing objects in movement, and of showing the same by projection or otherwise. Also kinematography.

An expert in photography and cinenatography (or biographic methods of photography).

Photo-Miniature, July, 1903, p. 174.

cinemograph (sin'ē-mō-grāf), n. [Gr. κίνημα, movement, $+ \gamma \rho \acute{a} \phi \epsilon \imath v$, write.] An apparatus devised by Riehard of Paris for registering the velocity of the wind at each moment. It records the velocity of rotation of the vertical shaft of the ane-mometer instead of recording its accumulated total movement. The velocity of the wind is some multiple of that of the shaft. Also kinematograph.

cineograph (sin'e-ō-graf), n. [Irreg. \langle Gr. $\kappa t v \bar{v} v$, move, $+ \gamma \rho a \phi \epsilon v v$, write.] A picture representing objects in motion. Owing to the persistence of vision many separate pictures brought before the eye in rapid succession are blended into one. Also kincograph.

cineol ($\sin'\bar{e}$ - \bar{o} l), n. [cin(namon) + -e- + -ol.] A volatile compound, $C_{10}H_{18}O$, found in cuealyptus, milfoil, rosemary, wormseed, cajeput, peppermint, and many other oils. Also called

eucalyptol and cajeputol.
cingular (sing'gṇ-lḥr), a. [NL. cingularis, < L.
cingulum, a girdle: see cingulum.] Of or relating to the cingulum or ridge of enamel around the base of the crown of a tooth.

This is seen in the continuation of the cingulum forward, around the internal face of the crown, and the development of a distinct cingular cuspule internal to the main antero-internal cusp.

Amer. Jour. Sci., March, 1904, p. 204.

cingulum, n. 5. In bot., same as collar, 2 (b) (3).—6. The zone of a diatom frustule where the two halves are joined.

Cinnabar, n.—Austrian cinnabar, a misleading trade-name for basic lead chromate used as a pigment. Also called chrome-red, Persian red, American vermilion, etc. cinnabar-moth (sin' a - bar -môth"), n. A collector's name, in Great Britain, for an arctiid moth, Euchelia jacobæa.

einnamein (sin-a-mē'in), n. [cinnam(ic) + -c-iu².] The benzyl ester of einnamie acid, $C_6H_5CH: CHCO_2C_7H_7:$ found in Peru balsam. It malts at 200 C_7 cinnamein (\sin -a-mē'in), n.

It melts at 30° C.

cinnamite $(\sin' a - \min t)$, n. [cinnam(on) + -ite.]Same as cinnamon-stone.

cinnamon, n.—Santa Fé cinnamon, the ishpingo, Acrodictidium cinnamomoides, the bark of which is used by the natives of Colombia as a spice and a medicine. cinnamon-bark (sin 'a-mon-bark"), n. The

bitter, acrid, but somewhat aromatic inner bark of Canella Winterana, a small tree of Florida: used as a stimulant and tonic; also, the tree itself, otherwise known as wild cinnamon and whitewood.

cinnamonic (sin-a-mon'ik), a. cinnamic.

cinnamon-sedge (sin'a-mon-sej"), n. Sweetflag.

cinnamon-vine (sin'a-mon-vīn"), n. A name of species of Dioscorca, particularly of D. diraricata (better known as D. Batalas). The very large tuberous root of this plant is edible, and is known as Chinese yam and Chinese potato. The plant is frequently grown as an ornamental twiner. It is native to the Philippine Islands, but is now widely distributed.

cinnolin (\sin' ō-lin), n. [cinn(amie) + -ol + -in².] A poisonous base, $C_8H_6N_2$, prepared by the gentle oxidation of dihydrocinnolin. It melts at 39° C. Also called phenohexa-1, 2-diazadiene.

cinometry (si-nom'e-tri), n. κινειν, move, + μέτρον, measure.] The art or

rich, move, + perfor, measure.] The art of process of measuring speeds. Also kinometry. cinquain, n. 2. A stanza of five lines. cinquedea (ching-ke-dā'i), n. [It. (Venetian).] A short, broad, two-edged sword, sometimes splendidly decorated. It was especially esteemed in Venice.

Cintractia (sin-trak'ti-ä), n. [NL. (Cornu, 1883), named for Désiré Auguste Cintract, a French botanist.] A genus of smuts of the family Ustilaginaceæ, in which the sori form black, rather firmly agglutinated masses of simple spores. It is very closely related to *Ustilago*, in which it is included by some authors. *C. Caricis* is a very common species infesting the ovaries of species of

Cinulia (si-nū'li-ā), u. [NL.] A genus of opisthobranchiate Mollusca having inflated, spirally grooved shells with plicated columella, but without opercula. It occurs in Cretaccous rocks.

Also kinemato- cipher, v. t. 5. To put (a batsman) out without scoring; also, to put a eigher opposite to (a batsman's name) to indicate that he has failed to score.

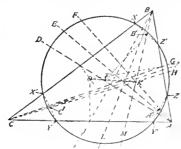
> ciralillo (thē-rä-lēl'yō), n. [Porto Rican.] Same as *guayrote.

> circ. An abbreviation (a) of Latin circiter (about); (b) of circum; and (c) of circus.

Circassic (ser-kas'ik), a. Same as Circassian. circle, n. 14. A bookbinders' wheel-shaped tool, having a design engraved on the rim or coot, naving a design engraved on the rim or edge.—Altitude circle, a graduated circle upon which is read the altitude of a body above the horizon.—Azimuth circle. (b) A graduated circle upon which horizontal angles, or azimuths of a heavenly body are measured.—Circle about a pair of points, a circle as to the circle containing all the vertices of triangles and the circle containing all the vertices of triangles are and those other two sides are as m to n, that is, are in a given constant ratio. Every triangle has three such circles—Circle of declination (b) The circle attached to the declination axis of an equatorial instrument. Its graduations give the declination of the object under observation.—Circle of Haller. (a) Same as circulus econosus. (b) A circle of communicating arterioles on the selerotic surrounding the optic nerve. (c) A maximum circulus collosus Hulleri.—Circle of the part. Also called circulus callosus Hulleri.—Circle of longitude, an imaginary great circle passing through the poles of the earth.—Circle of similitude. (a) See similitude. (b) The circumerice of the triangle of similitude of three figures directly similar.—Circle of the gorge, in geom. the circumerence of a minimum right cross-section of a solid of revolution.—Cosine circle, If through the symmetian point of a triangle straight lines be drawn-terset the sides lie on a circle, which is called the cosine circle of the triangle. It is center is the symmedian point (the Lemoine point) K; hence it is called the circle K.—Declination circle, an arrests the progress of the primary affection, as when pneumothorax supervenes on pulmonary tubervulosis; the two affections exerting a reciproally antagonistic reaction.—Discriminating circle, in physiol. optics, the retinal area illuminated by a bright point without the eye for which he leas is not accommodated. The term is also used for the appearance of such a point, that is, for the dispersion image.—Distance-circle, in physiol. optics, the retinal area illuminated by a bright point witho

circle

A, triangles having the same Brocard angle \(\tilde{\tii



Tucker's System of Circles

upon the eause, increasing its energy, and this in turn produces a greater effect. (c) in sury., the passage of chyme, after gastro-enterostomy, through the artificial opening into the Intestine, and then its regurgitation, in consequence of antiperistaltic action, through the pylorus back into the stomach. (d) The mutually accelerating action of two independent but coexisting diseases. Med. Record. March 7, 1963, p. 397.

circle-brick (sér'ki-brik), n. Brick east to a

circular form, either convex or concave: used for facing or lining a wall of circular plan.

circle-tomb (ser'kl-töm), n. A tomb surrounded by a megalithic stone circle.

circloid (ser'kloid), a. [circle + oid.] Resembling a circle.

A cross-section of such a one shows a circloid area composed of twenty or more polyhedral, cuboidal, or short columnar cells, arranged in a single row about a common center. Trans. Amer. Micros. Soc., Nov., 1903, p. 78.

circuit. n.— Call-circuit, in telephony, a circuit used for the transmission of call-signals, as distinguished from the transmission of speech, between individual instruents and the call-office or central station.— Circuit court of appeals. See *appeal.—Closed circuit operation, in elect., operation of signal system in which the circuit is normally closed and the signal is given by opening the circuit. It has the advantage of greater reliability, since any defect in the circuit is immediately noticed by its opening, but

entire length traverses iron or other magnetic materials.

—Derived circuit, in elect., a circuit containing no source of electromotive force, such as a battery or dynamo, and traversed by induced currents only; a secondary circuit.—Divinity circuit, in bookbinding, flexible leather binding the flaps of which extend beyond the squares all round the cover, so that when pressed together the ends will nearly meet in the center of the edges; the corners and the part that encircles the back of the book are generally rounded and pinched or creased.—Magnetic circuit, the total space in which a magnetic field exists, that is, in which magnetic attractions and repulsions, electrocutt, the total space in which a magnetic field exists, that is, in which magnetic attractions and repulsions, electromagnetic induction, etc., occur.—Multiple circuit, in elect., a divided circuit the parts of which are arranged in parallel, so that the current is distributed, in accordance with Kirchhoff's law, each part taking an amount of current proportional to its conductivity.—Open-circuit operation, in elect., the operation of a signal system by closing the circuit when signaling. See elosed **circuit* operation.—Open magnetic circuit, in elect., a magnetic circuit which contains one or several air-gaps.—Phantom circuit, an imaginary circuit virtually existing in systems of multiplex telegraphy or in telephony. Same Phantom circuit, an imaginary circuit virtually existing in systems of multiplex telegraphy or in telephony. Same as phantom vires (which see, under phantom).—Resonant circuit, in elect., a circuit timed by adjustment of its capacity and inductance so as to respond to certain electrical oscillations.—Series circuit, in elect., any circuit of which the parts are arranged in series, so that all parts are traversed by the whole current. In a series circuit the parts—which may be, for example, telephones, are- or glow-lamps, dynamos, motors, or the cells of a hattery—are said to be arranged in series.

circuit-breaker, n. One of the best-known forms consists of a switch which is closed against the pull of a powerful spring. The lock by means of which it is kept closed is released by an electromagnet operated by the current.

circuiteer, n. 2. Specifically, in Eng. law, one of the judges appointed to hold court in the different circuits.

circuition, n. 3. A name proposed by C. S. Peirce for so much of any self-returning change as brings about the original state of those characters which are not altered by the reversal of a difference, while it does not bring about the return of such characters as are so altered. A half-revolution is a geometrical circuition. See *bicircuition.

Circular bandage, foot, inch. See *bandage, etc.—Circular millimeter. See *cross-section units.—Circular pitch, scale. See *pitch1, *scale1.—Circular suture, triangle. See *suture, triangle.—Circular units, vibration. See *unit, *cross-section units, *vibration.

circularize, r. t. 2. To bring to the notice or attention of by means of circulars; send circulars to (possible patrons) by way of advertisement: as, to circularize the clergy; to cir-

The fact that the verb "to circularize" was first used in 1848 sufficiently indicates the very recent origin of the practice of plying possible purchasers with printed letters and pamphlets.

**Energy. Brit., XXV. 48.

In 1848 sumcently indicates the very recent origin of the practice of plying possible purchasers with printed letters and pamphlets.

Encyc. Brit., XXV. 98.

circulation, n.—Derivative circulation, the passage of blood directly from the arteries to the veins without going through the capillaries.—Ferrel's theory of the circulation of an atmosphere on a globe of a uniform roughness equal to the average roughness of the earth, and under the influence, at any season, of the average amount of sunshine and heat. It was deduced by Ferrel, analytically, from the observed barometric pressures and other general considerations, and was represented graphically in successive editions of his diagrams (1854, 1858, 1861, 1881, 1885). This system includes as its principal features equatorial calms below with easterly winds above; northeast and southeast trades below with anti-trades above; northeast and southeast cold winds below in the polar regions with anti-trades above; and a series of eddles or cyclones in the region of strong westerly winds between the regions of polar winds and trade-winds. See Ferrel's *\(\frac{1}{2} \) at \(\frac{

circulational (sér-kū-lā'shon-al), a. Of or pertaining to circulation.—Circulational sensation. See ***neartion.

it has the disadvantage of continuously consuming battery power.—Closed magnetic circuit, in elect., a magnetic circuit in which the magnetic flux throughout its cent to and lying round about; as, eircumadjaentire length traverses iron or other magnetic materials. circumaxal (ser-kum-ak'sal), a. Same as *cir-

cumaxial.

circumaxial (ser-kum-ak'si-al), a. [L. circum, about, + axis, axis, + -all.] Situated about an axis.—Circumaxial contact, contact of two surfaces such that there is contact in every section made by a plane which contains a certain axis through the point of contact.

circumaxile (ser-kum-ak'sil), a. [L. circum, about, + axil, axis, + -ile.] In bot., sur-[L. circum, rounding a central axis, as the cells and seeds of many fruits.

circumboreal (ser-kum-bō'rē-al), a. [L. circum, around, + borcalis, boreal.] Belonging to the zone next outside the boreal or Arctic region.

Through stress of climate, this circumboreal flora has been driven southward. Pop. Sci. Mo., July, 1901, p. 289.

circumcallosal (ser "kum-ka-lo'sal), a. [L. circum, about, + callosum + -al'.] Lying about the corpus callosum,

circumcize, v. Another spelling of circumcise, circumcloacal (ser kum-klō-ā'kal), a. [circum + cloaca + -all.] Surrounding or encircling the cloaca.

circumcorneal (sér-kum-kôr'nē-al), a. [circum + cornea + -al1.] Surrounding the cornea. Buck, Med. Handbook, I. 440.

circumcrescent (ser-kum-kres'ent), a. [L. circum, around, + crescens, growing.] In cmbryol., growing over or around: said of the movement of the ectoderm, or epiblast during epibolic gastrulation.

circumdenudation, n.—Mountains of circumdenudation. See ★mountain.

circumequatorial (sér*kum-ē-kwā-tô'ri-al), a. [circum-+ cquator + -ial.] Around or enercling the equator: as, a circumequatorial current. Energe. Brit., XXXIII. 937. Circumesophageal nerve-ring. See *nerve-

Circumference gage, scale, tape. Seo $\star gage^2$,

Circumferential pitch. Same as circular

circumflux (ser'kum-fluks), n. [L. circum, around, + fluxus, flow: see flux.] In clect., the product of the total number of conductor-turns on the armature of a dynamo or motor into a current carried by it. Standard Elect. Dict.

circumgenital (ser-kum-jen 'i-tal), a. [circum + genital.] About the genitalia: as, the circumgenital glands of the Coccidæ, a series of grouped glands which open in the anal plate of female diaspine scale-insects about the genital opening. Annals and Mag. Nat. Hist., April, 1901, p. 333.

April, 1901, p. 333.

circumhorizontal (sér"kum-hor-i-zon'tal), a.

Surrounding the horizon.—Circumhorizontal

arc, in meteor., a short band of rainbow colors, nearly
horizontal, but curving downward very slightly, which
passes through the lowest point of the ordinary halo of
46° and therefore tangent to it: due to the refraction of
sunlight through dihedral angles of 90° at the lower ends of
prismatic ice crystals floating nearly vertically in the air.
It is seen only when the sun is 50°-78° above the horizon,
hence quite rarely. First described by Galle, 1847.

circumintestinal (sér" kum-in-tes'ti-nal), a.

feircum+intestine+-all. Encircling the in-

[circum- + intestine + -al1.] Encircling the intestine: as, the circumintestinal plexus of bloodvessels in some annelids.—Circumintestinal sinus. See *sinus.

circumjovian (sėr-kum-jō'vi-an), a. Same as circumiorial.

circumlateralism (sėr-kum-lat'e-ral-izm), n. Same as *centrogenesis: opposed to bilateralism.

By making bilateralism the symbol of animal evolution and circumlateralism (if I may invent the term), the symbol of plant evolution.

L. H. Bailey, Survival of the Unlike, p. 16.

circumlental (sér-kum-len'tal), a. [L. circum, around, + NL lens (leut-), lens, + all.] Surrounding a lens, usually referring to the crystalline lens of the eye.

circum-Mediterranean(ser-kum-med"i-te-ra'nē-an), a. [circum- + Mediterranean.] Surrounding the Mediterranean: as, a species

native to the circum-Mediterranean region.
circummedullary (ser-kum-med'u-lā-ri), a.
Same as *perimedullary.

circummeridional (ser kum-mē-rid'i-ō-nal), a. [circum- + meridian + -all: see meridional.] Following around a meridian.

circummundane (ser-kum-mun'dan), a. circum, about, + mundus, world: see mundane.] Surrounding the world: as, an open circummundane sea.

the pallium + -all.] Surrounding or encircling the pallium or mantle, in mollusks. circumpass (ser-kum-pas'), v. t. [circum-pass.] To move through the circumference of;

travel entirely around.

The description given by the pions Cavendish of his commercial circumnavigation of the globe: "It has pleased Ahnighty God to suffer me to circumpass the whole globe of the world." Smithsonian Rep., 1890, p. 272.

circumpolarization (sér # kum - pō # lär - ī - zā'shon), n. In optics, the rotation, by passage cirrhosis, n. through an optically active substance or through a magnetic field, of the plane of polarization of a beam of light.

circumpolarize (sėr-kum-po'lär-īz), r. t.; pret. and pp. circumpolarized, ppr. circumpolarizing. In optics, to rotate the plane of polarization of

light.

eireumseind (ser-kum-sind'), v. t. [L. circum-scindere, eut or tear around, \(\) circum, around, \(+ \) scindere, eut.] To eut around.

circumsciss (ser-kum-sis'), a. [L. *circum-scissus, pp. of circumscindere: see circum-scind.] Same as circumscissile.

circumscript, a. 2. In the Echinoidea as applied to the ambulacra, not continuous from one pole of the body to the other, but confined to the area above the equatorial circumference or ambitus, enlarging at first and subsequently contracting within this space and thus assuming a petaloid outline.

circumsiphonal (ser-kum-si'fon-al), a. [circum+ siphon + -all.] Surrounding the siphon, as of a cephalopodous mollusk.

circumspatial (sér-kum-spā'shal), a. cum, about. + spatium, space, + -all.] Relating or pertaining to surrounding space. $-al^{1}$. P. J. Bailey, Festus.

circumstantiator (ser-kum-stan'shi-a-tor), n. One who circumstautiates.

circumterrestrial (ser kum-te-res'tri-al), a. Round the earth: as, the moon's circumterrestrial movement.

circumumbilical (sėr "kum - um - bil'i - kal), a. [circum- + umbilicus + -all.] Surrounding the umbilicus.

the umbilious. circumumbonal (ser/kum-um-bō/nal), a. circum, about, + umbo(n-), beak, + -all.] Situated about the beak or umbo: used with circum, about, + reference to structural details in descriptive zoölogy, especially among the Mollusca.

circumvascular (sér-kum-vas kū-lār), a. [L. circum, around, + vasculum, vessel, + -ar3.] Surrounding in whole or in part a blood-vessel or lymphatic. Jour. Exper. Med., Feb. 5, 1902,

circumvolute (ser kum-vō-lūt'), v. t.; pret. and pp. circumvoluted, ppr. circumvoluting, 1. To roll; turn: as, to circumvolute a period. Burns.—2. To encircle or enwrap: as, circumvoluting twine.

circumvolv, v. A simplified spelling of cir-

circumzenithal (ser-kum-zē'nith-al), a. [cir-cum- + zenith + -all.] About or near the zenith; relating to objects or observations near the zenith; relating to objects or observations near the zenith. Nature, Aug. 20, 1903, p. 376.

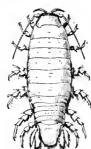
— Circumzenthal arc, in meteor., a short band of rain-bow colors, nearly horizontal but eurving slightly upward which passes through the highest point of the ordinary halo of 46° and therefore tangent to it: due to the refraction of smilght through dihedral angles of 90° at the upper ends of prismatic ice crystals floating nearly vertically in the air.

Zirolana (siv.5-15/v:::)

Cirolana (sir-ō-lā'nā), n. [NL.(Leach, 1818), a made word.] The typical genus word.] The typical genus of the family Cirolanidæ. C. borealis, of British waters, lives mainly upon fish. C. concharum is an American species often feeding on the blue crah, Callinectes hastatus.

Cirolanidæ (sir-ō-lan'ide), n. pl. [NL., \langle Ciro-luna + -idæ.] A family of isopod crustaceans. ciront (si'ron), n. [F. ciron, OF, ciron, for *siron,

*sniron (= Pr. soiro), OHG. siuro, m., siurra, f., the itch-mite.] The itch-mite, Sarcoptes scabici.



Slightly magnified.

ciron-wormt (si'ron-werm"), n. Same as

circumnutatory (ser-kum-nū'tā-tō-ri), a. Of or pertaining to circumnutation: as, a circumnutation tendency.

circumpallial (ser-kum-pal'i-al), a. [circum-pallium + -al1.] Surrounding or encircling contains the circum tendency of the corder Polychæta. They have a cylindrical body pointed at both ends, prestomium elongate and conical, tentacles 2 or none, and parapodia small, with [NL., < simple setæ. It includes the genera Cirratulus, Audou , Chatozone, and others.

Cirratulus (si-rat'ū-lus), n. L. cirratus, cirrate: see cirrate.] The typical genus of the family Cirratulidæ. Lamarck.

cirrholite (sir'ō-līt), n. [Also *cirrolite*; ζ Gr. κιρρός, tawny, + λίθος, stone.] A hydrated κιρρός, tawny, + λίθος, stone.] A hydrated phosphate of aluminium and calcium, occurring in pale-yellow compact masses: found in

cirrhosis, n.—Atrophic cirrhosis, a late stage of cirrhosis, marked by a reduced size of the liver.—Cardiac cirrhosis, chronic inflammation of the heart-muscle associated with cirrhosis of the liver.—**Hanot's cirrhosis**, a form of cirrhosis of the liver in which there is such an excessive new formation of connective tissue that the organ is increased in size, instead of diminished as in ordinary cirrhosis.—Hypertrophic cirrhosis, an early stage of cirrhosis marked by an increase in size of the liver.—Laënnee's cirrhosis, the usual form of cirrhosis of the liver, in which the organ is diminished in size.— Pigmentary cirrhosis, a form of cirrhosis of the liver seen in cases of bronzed diabetes.

cirrocumular (sir-ō-kū'mū-lär), a. Same as *cirro-cumulous

cirrocumulative (sir-ō-kū'mū-lā-tiv), a. Becoming like the cirro-cumulus cloud.

cirro-cumulo-stratus (sir-ō-kū/mū-lō-strā'tus), n. A cloud from which rain is falling but whose structure is not clearly apparent.

cirro-cumulous (sir-ō-kū'mū-lus), a. Having the form or nature of the cirro-cumulus cloud. cirro-filum (sir-ō-fi'lum), n. One of a number of long, thin stripes of cirrus cloud, apparently all at the same level. These move at an angle with the isobars and are important indicators of coming weather changes.

cirrolite, n. See *cirrholite. cirro-nebula (sir-ō-neb/ū-lä), n. A haze in the higher strata of clouds: a nebulous mass in which striation or reticulation is barely perceptible. See *cirrus-haze.

cirrorhinal (sir-ō-rī'nāl), a. [L. cirrus, filament, + Gr. bic (bu-), nose, + al-1.] Having the fore part of the skeleton formed of an unpaired cartilaginous ring, which represents the nasal region of the skull and bears filaments or cirri. [Rare.]

cirrorhiny (sir-ō-ri'ni), n. acter of being cirrorhinal. The state or char-

cirrostrative (sir-ö-strā'tiv), a. [cirro-stratus -ive.] Serving to form, designate, or indi-

cate cirro-stratus clouds. cirrostratous (sir-ō-strā'tus), a. Having the form or character of a cirro-stratus cloud.

cirro-velum (sir-ō-vē'lum), n. A horizontal sheet of high cloud without much structure, but possibly with a wavy under-surface; the thinnest high layer of cirro-stratus in which any structure can be detected.

cirrus, n., 2. (k) Oue of the solid contractile tentacle-like organs on the margin of the metentaele-like organs on the margin of the medusoid of Hydromedusæ. Each cirrus is shorter than the tentaeles, is provided with a terminal battery of enidoblasts, and is perhaps an organ of offense or of defense. Dorsal cirri, in feather-stars, the slender, curved, eylindrical appendages arranged in whorls on the dorsal side of the disk, as in Antedon, by means of which the animal attaches itself temporarily to rocks or seaweeds. False cirrus, a delicate white cloud streaming away from the summit of a tall cumulus and closely resembling some forms of cirrus. Other formations are apt to be so named, but this is strictly a part of the cumulus cloud. See cloud.—Magnetic cirrus, a formation of cirrus clouds in systematic parallel bands; a polar band, or "Noah's ark." The term 'magnetie' is entirely improper, since the formation and arrangement of the clouds are wholly due formation and arrangement of the clouds are wholly formation and arrangement of the clouds are wholly due to the currents and moisture of the atmosphere. — Nuchal cirrus, a special name given to a dorsal cirrus which occurs on the second segment of certain polychaetous worms.—Reticulated cirrus, a network or interlacing of lines, threads, or strike in a mass of dense cirrus cloud.—Undulate cirrus, layers of cirrus arranged in gentle curves; specifically, the layers whose under-surfaces have a wave-like undulation as seen in the vertical section.

cirrus-haze (sir'us-hāz"), n. Au indefinite haze among the highest cirrus clouds (possibly extending far above them), ordinarily the locus of delicate sunset-sky colors, a nebulous mass of cirrus in which separate forms or structures cannot easily be distinguished: same as *cirro-nebula. See *cloud1.

ciruela (thē-rö-ā'lä), n. [Sp. ciruela, plum.] In tropical countries settled by the Spanish, a name given to several plum-like fruits, especially to Spondias purpurea, S. Mexicana, and allied species; also to the fruit of Cyrtocarpa procera. See hog-plum, Spondias, and *copalcocote.

cis-. 2. On this side of (a designated period

of time): as, "cis-Reformation," Fuller; "cis-Elizabethan," Lowell. Better expressed by post-. 3. In chem., a prefix used, in contrast with trans- or cis-trans-, to designate a compound in which two atoms or groups are supposed to be situated on the same side of some plane of symmetry passing through the compound.

cis. (sis). An abbreviation (in $cis \theta$) for (cos $\theta + i \sin \theta$): in function theory: as, $x = \xi + i \eta = \rho (\cos \theta + i \sin \theta) = \rho cis \theta$. An abbreviation (in $cis \theta$) for (cos

cisalpinism (sis-al'pin-izm), n. Cisalpine doctrine; specifically, the theory of the supremacy or independence of a national over the universal church, at least in disciplinary mat-

cisandine (sis-an'din or din), a. [cis-+ Andes + -inc¹.] On this (the speaker's) side of the Andes: as, cisandine forests.

ciscaucasian (sis-kâ-kâ'sian or -kâ-kash'ian),
a. [cis- + Caucasus + -ian.] Of or relating
to the country north of the Caucasus, Russia.
ciscoette (sis'kō-et), n. [A Frenchified rendering of siscowet, Ojibwa siskawit. Cf. cisco.] A lake-herring. Jour. Amer. Folk-lore, Oct .-

Dec., 1902, p. 244.
cisium (sis'i-um), n.; pl. cisiu (-ä). [L.] 1.
A light two-wheeled Roman vehicle; a cabriolet. -2. In recent use, a cart with a step at

the rear

cispontine (sis-pon'tin), a. [NL. *cispontinus, on this (the speaker's) side of the bridge or bridges; specifically, in London, on the north side of the Thames: as, cispontine churches; the cispontine population.

cisrhenane (sis-rē'nān), a. [L. cisrhenanus, < cis, on this side, + Rhenus, Rhine.] On this ('he speaker's) side of the river Rhine. N. E. D. cist2, n. 2. A recess in a cliff-house, walled off from the main room.

A marked feature of the whole series is the existence here and there of small, often inaccessible, stone cists of masonry plastered to the side of the rocky elifi like swallows' nests. 17th An. Rep. Bur. Amer. Ethnol., II. 543.

cistern, n. 7. In mining, a tank in a deep shaft, serving an upper pump with water from a lower one.

See cistvacn.

cistfaen, n. See cistvaen. cistic² (sis'tik), a. [cist², n., + -ic.] Of, pertaining to, or of the nature of a cist, or prehistoric place of interment: as, a cistic tomb. cistula, n. 3. In bot., the small cup-shaped conceptacle of certain lichens. Syd. Soc. Lex. cit. An abbreviation (a) of citation; (b) of cited; (c) of citizen.

citadel, n.—Central citadel, an arrangement of the armoron a war-ship in which it is concentrated in the central parts, forming a heavily armored box in which the heavy guns are mounted, or on top of which they are placed in barbettes or turrets, the ends of the ship being unprotected by vertical armor. This type is now virtually abandoned, but the term is sometimes applied to the armored box-casemate in more recent designs, in which the guns of the secondary battery are carried.

citharædic (sith-a-rē'dik), a. [L. citharædicus, citharædus: seë citharædus.] Pertaining to Pertaining to a player on the cithara, especially to Apollo.

It seems to me impossible to avoid the conviction that here the Citharædic Apollo is represented as in a melan-

choly mood.

P. Gurdner, in Jour. Hellenie Studies, XXIII. 120. citharœdus (sith-a-rē'dus), n. [L., Gr. κιθαρωθός, ζ κιθάρα, cithara, + -αοιδος, ζ αείδειν, sing: see ode.] Α

player on the cithara; especially, in Gr. antiq., an epithet of Apollo in this character, represented in art as dressed in long flowing robes and leading the Muses.

cithern, n.-Bow citheithern, n.—Bow cithern, a modern musical instrument combining features associated with several different types. Its body is obscurely heart-shaped, somewhat like that of the viola d'amore, but broader and with a fat belly and back. It has a neck like the violin, but broader and with a fret-board and head like a guitar. The strings are usually four in number and tuned to correspond with the violin or spond with the violin or its close relatives, but none of them is of gnt, It is made in three or four sizes, like the usual string-



of Apollo Citharredus in

quartet; larger varieties are sometimes called viola-zither, or philomèle. In playing, the instrument is held slantingly In the lap, with a projection in the back of its head resting on a table. It is sounded by means of a bow like a violin-bow, and the tone is brilliant and powerful. In Germany it is called streichzither, to distinguish it from the xchlagzither or zither proper.

citified (sit'i-fid), a. Having the manners, dress, etc., of eity life. [Colloq.] citoyenne (sē-two-yen'), n. [F.] A female

eitizen or inhabitant.

For a number of years a Mrs. —, a citoyenne of the United States, has been closely studied by the learned, as by Prof. William James, Dr. Hodgson, and Prof. Oliver Lodge. A. Lang, in Smithsonian Rep., 1900, p. 681.

citra. [L. citrā, adv. and prep., on this side of the Upper Bench. See Upper Bench, under (of), prop. abl. fem. of eiter, adj., hither, compar. from \sqrt{ci} , this, here.] A prefix of Latin ck. A contraction of cask. origin, meaning 'on this side of,' and equivact. An abbreviation (a) of centiliter; (b) of lent to cis- (which see): as in citracaucasian, on this side of the Caucasus; citramontane, on this side of the mountains (opposed to ultra- C. L. montane, which see).

citracetic (sit-ra-set'ik or -sē'tik), u. [citr(ic) + acetic.] Related to eitrie and to acetic acid. — Citracetic acid, an uncrystallizable, tribasic acid. $C_6H_6U_6$ (?), whose ethyl ester is formed together with aceconitic ester by the action of sodium on bromacetic ester.

citral (sit'ral), n. [citr(ie) + -al3.] A colorless liquid aldehyde of strong lemon odor, the flavor-giving constituent of oil of lemon, of which it forms from 5 to 8 per cent.: also present in oil of limes, provided ent in oil of limes, mandarin, orange, etc.

eit in oil of limes, mandarin, orange, etc.

citramide (si-tram'id). n. [citr(ate) + am(monia) + -ide.] In chem., a crystalline compound, C₆H₁₁N₃O₄, obtained by the action of
alcoholic ammonia on citrate of methyl, or
citrate of ethyl. Watts, Dict. Chem.

citrange (sit'rānj), n. [< citr(us) + (or)ange.]

A hybrid fruit produced by crossing the hardy

A hybrid fruit produced by crossing the hardy

A hybrid fluit produced by crossing the hardy

Valve.

Sut ah! the more the white goose laid

It clack'd and cackled louder.

Clack, n.—Cornish clack, a clack with two lids the
upper hinged and scated on the lower.

clack-guard (klak'gärd), n. A ring which
prevents undue opening of the clack-valve.

clack-lid (klak'lid), n. The flap of a clackvalve.

trifoliolate orange (Citrus trifoliata) and the common sweet orange.

citrazinic (sit-ra-zin'ik), a. [citr(ic) + az(otc) + in + -ie.] Derived from citramide.—Citrazinic actd, (HO)₂C₅H₂N.CO₂H. It is formed by the action of sulphuric acid on citramide.

citronellal (sit - rō - nel'al), n. [citronella + -al³.] A substance, CH₂ = C(CH₃) (CH₂)₃ CH(CH₃/CH₂CHO, found in citronella-oil, eucalyptus-oil, and lemon-oil. It boils at 205-

citronellol (sit-rō-nel'ōl), n. An alcohol, CH₂
= C(CH₃) (CH₂)₃CH(CH₃)Cll₂CH₂OII, found
in its levogyrate form in rose-oil, pelargoniumoil, and geraninm-oil. It is also formed by the reduction of eitronellal. It boils at 117-1189 C. under 17 millimeters.

citronellone (sit-rō-nel'ōn), n. An incorrect -an.] One of the Cladocera.

name for citronellal, given to it before its Cladochytriaceæ (klad-ō-kit-ri-ā'sō-ō), n. chemical nature was understood.

citronene. See *citronin. citron + -in².] A name of several acid coal-tar colors, all of which dye wool yellow in an acid bath. Also citronene.

citrophen (sit'rō-fen), n. [citr(ic) + phen(yl).] The primary citrate of para-phenetidin, C₂H₅ OC₆H₄NH₂.C₆H₈O₇. It crystallizes in prisms which are easily soluble in water and melt at 186° C. It is used in medicine as an antipyretie and antineuralgie.

citrullin (si-trul'in), n. [citrull(us) + -in².] A yellow resin derived from Citrullus Colocynthis:

used in medicine as a purgative.

City company. See *company.

city-state (sit'i-stat), n. A single city which is an independent sovereign state, or a sovereign state which embraces only one town or city. The city-state was the characteristic political organization of Greek and early Italian civilization. Athens, Rome in the days of the republic, and Florence and Venice in the days of their greatness were city-states. civ. An abbreviation (a) of civic; (b) of civil;

(c) of civilian.
civicism (siv'i-sizm), n. The civic spirit or eivic condition; eitizenship and equal rights and duties for all, as a principle of civil organi-

zation and government.

civicultural (siv'i-kul"tūr-al), a. [L. civis, citizen, + cultura, culture, + -al.] Being, serving, or originating in one of those instincts which subserve less the welfare of the individual than that of a stock, community, association, or other class of animals, human or brute: government, religion, armies, and marriage are civicultural developments.

Civil code, process. See *code, *process.—Civil lord, the only civillan member of the British Board of Admiralty except the 'first lord,' who is a cabinet minister and

the responsible head, the other three being known as 'naval' lords. The civil lord is charged with the supervision of the civil affairs of the Admiralty, including the Works Department. See admiralty.

Civ. Serv. An abbreviation of civil service.

See civil service, under civil.

C. J. C. P. An abbreviation of Chief Justice the Common Pleas. See chief justice, under

jnstice.
C. J. K. B. An abbreviation of Chief Justice of the King's Bench.
C. J. Q. B. An abbreviation of Chief Justice of the Queen's Bench.
C. J. U. B. An abbreviation of Chief Justice of the Typer Bench. See Upper Bench, under manner.

elause; (e) of clerk; (il) of cloth (in bookbinding); (e) of clergyman.

An abbreviation of Commander of the Order of Leopold. See Order of Leopold, under order.

clabber2 (klab'er), n. [Var. of claver3.] Idle or noisy talk; jabber.

1 could not abide their [the gypsies] yellow faces, or heir ceaseless clabber. Borrow, Lavengro, lxxvi. their ceaseless clabber.

clabbery (klab'ér-i), a. [clabber1, n., + -y1.] Muddy; full of mud: as, a clabbery road; clabbery shoes. [Scotch and Irish.]

clack, v. i. 3. To cluck or eackle, as a hen.

But ah! the more the white goose laid
It clack'd and eackled louder.

Tennyson, The Goose, st. 6.

claco (klä'kō), n. [Nahuatl tlaco, mean, half.] The eighth part of a Spanish silver shilling.

cladautoicous (klad-â-toi/kus), a. [Gr. κλοδος, braneh, + αντός, self, same, + οίκος, dwelling. Cf. autocious.] In mosses, having the male inflorescence on a special branch.

cladisk (klad'isk), n. [NL. cladiscus, < Gr. κλαδίσκος, dim. of κλάδος, a branch.] In the nomenclature of the spicular elements of

sponges, one of the equal arms in the eladome of a trigene. See cladome and trigene.

Cladistia (kla-dis'ti-ä), n. pl. [NL., ⟨Gr. κλάδος, a branch, + iστισν, a web.] The family Polypteridæ considered as a suborder of ganoid tishes.

cladoceran (kla-dos'e-ran), n. [Cladocera + -an.] One of the Cladocera.

[NL., & Cladochytrium + -aceæ.] A family of phycomycetous fungi, named from the genus Claudehytrium. The genera differ chiefly in the presence or absence of resting-spores and in their saprophytic or parasitic condition.

Cladochytrium (klad-ō-kit'ri-um), n. [NL. (Nowakowski, 1876), ⟨ Gr. κλάδος, a branch, + χυτρίον, dim. of χύτρα, a pot: see *chytra. The allusion is prob. to the pits produced on the host.] A genus of phycomycetous fungi of the family Cladochytriaceæ, having a well-developed mycelium in the tissues of the host and producing uniciliate zoöspores, but no resting-spores, so far as is known. Cladochytrium tenue is parasitie upon sweet-flag, Acorus Calamus, and produces swellings on submerged parts of the plant.

cladocopous (kla-dok'ō-pus), a. [Gr. κλάδος, a branch, + κώπη, a handle.] Having branched

posterior antennæ, as certain crustaceans. cladohepatic (klad * ō - hē - pat ' ik), a. [Gr. κλάδος, a branch, + ηπαρ (ἡπατ-), liver, + -ic.] Having the liver branched or lobulated, as certain nudibranchiate mollusks.

certain nudibranchiate mollusks. Cladohepatica (klad- $\bar{\phi}$ -h $\bar{\phi}$ -pat'i-k \bar{a}), n, pl. [NL, \langle Gr. $\kappa\lambda\dot{a}\dot{o}\rho_{\zeta}$, a branch, $+\dot{\eta}\pi a\mu$ ($\dot{\eta}\pi a\tau$ -), liver.] A section of nudibranchiate mollusks. They have the cerata usually on the sides of the dorsal surface and elongated or arborescent; the buccul mass strong; jaws present; and the liver usually ramified, the branches generally extending into the cerata. The section includes a number of families, among them the *Eolidius*, *Dendronotide*, *Phyllirrhoide*, and *Tritonida*. Cladomic (kln-dom'ik). a. Pertaining to or research *Tritonica*.

cladomic (kla-dom'ik), a. Pertaining to or resembling a clademe.

Cladoniaceæ (klad "ō-ni-ā'sē-ē), n. pl. [NL., Cladonia + -acce.] Same as Cladonici, the

Cladophiur + -tecer.] Same as Cadobic, the proper form of the name.

Cladophiur (kla-dof-i-ū'rē), n. pl. [NL-, pl. of Cladophiura \langle Gr. $\kappa\lambda\dot{\alpha}\delta\sigma_{c}$, branch, + $\delta\phi\iota_{c}$, snake + $\delta\dot{\nu}\rho\dot{\alpha}$, tail.] An order of Stelleroidea

in which the vertebral ossicles articulate with one another by means of hour-glass shaped surfaces and are covered by granular deposits in the thick integument. The arms may be simple

cladophiuran (kla-dof-i-ū'ran), a. and a. I.

a. Pertaining to or having the characters of the order Cladophiuræ of the Ophiuroidea.

II. n. A member of the Cladophiura, cladophiuroid (kla-dof-i-ŭ'roid), n. and n. a. Cladophiuran; of or pertaining to the order Cladophiuræ of the Ophiuroidea.

II. n. A member of the Cladophiuræ. cladorhabd (klad'ō-rabd), n. [Gr. κλάδος, a twig. + ράβδος, a rod.] In the nomenclature of the spicular elements of sponges, a muchdivided tetraxial form derived from the eal-

Cladoselache (klad-ō-sel'a-kē), n. [Gr. κλάδος, a twig, + σελάχη, pl. of σέλαχος, a shark.] A genus of primitive selachians or sharks, believed to have had an unsegmented vertebral axis, long smooth shagreen-covered body, blunt snout, two dorsal fins without spines, and strongly heteroeercal tail. It has been found in the Upper Devonian rocks of Ohio.



Restoration of Cladoselache newberryi, Dean. Cleveland Sha (Upper Devonian), Ohio, An anterior dorsal fin has been discover since this illustration was made. (From Zittel's "Palæontology.

cladoselachian (klad " ō - sē - lāk ' i - an), n. A selachian of the genus Cladoselache.

chadoselachid (klad-ō-sel'a-kid), n. A sela-chian allied to *Cladoselache*; a cladoselachian.

cladosiphonic (klad "ō-sī-fon'ik), a. In bot., having a tubular stele interrupted at the in-

sertion of branches. Jeffreys. **cladostyle** (klad'ō-stīl), n. [Gr. κλάδος, a twig, + στύλος, a pillar.] In the nomenclature of the spieular elements of sponges, a tetraxial spicule of many sharp-pointed branches, de-

rived from the ealtrop. cladotyle (klad ö-til), n. [Gr. κλάδος, a twig, + τίνη, a lump.] In the nomenclature of the spicular elements of sponges, a monaxial form having many branches each ending in a rounded knob.

claggum (klag'um), n. [Cf. clag1.] Toffy. Scotch.

claik (klak), n. 2. The shell of the barnaele. Scotch.]

(Riak), n. 2. The shell of the barbacle. [Scotch.]

claim¹, n.—Continual claim, in Eng. law, a formal claim made annually to lands or tenements to prevent the acquirement of title by prescription. This effect has been abolished by statute.—Court of claims. See court and *court.—Court of Private Land Claims. See private land. *claims.—Private land claims. The treaties by which the United States obtained possession of the territory which now includes California, Colorado, Utah, Wyoning, Nevada, New Mexico, and Arizona, provided that the United States should recognize and protect the rights of property of every kind belonging to Mexicans in the ceded territory. These rights originated from grants and cessions made by Spain to various settlers, emigrants, etc., and from grants made by Mexico after independence from Spain. By reason of this double source and of the many revolutions and counter-revolutions in Mexico, titles to land in this territory became hopelessly confused, and the United States, in order to carry out as far as possible the terms of her treaties, established in 1891, the Court of Private Land Claims. All persons claiming title to any part of the land before mentioned were entitled to present their claims to this court. The claims of such claims. See State *demand.

clairce (klars), n. [F., < claircer, elarify, < clair, < claircer, elarify, < clair, < claircer, elarify, < clair.

clairce (klars), n. [F., \(\claircer, \) elarify, \(\claircer, \) elar: see elear, u.] A saturated solution of pure sugar in water, used in the process of refining sugar.

The cooled molds are then placed on a centrifugal spindle or in a centrifugal basket, and the syrup spun out. While spinning the sugar plates are washed with clairce—a saturated solution of pure sugar in water—and when this too is spun out the molds are removed and taken asunder.

Sci. Amer. Strp., Feb. 28, 1903, p. 22,706.

clair-de-lune (klar-de-lun'), n. [F., moonlight.] A shade of color seen in the glaze of certain Chinese porcelains; a pale gray-blue or 'moon-light' white.

[F., fem. of clair, clear.] claire (klar), n. reservoir of elear sea-water, protected from tidal currents, where oysters are fattened for the market or kept under observation for scientific purposes.

The experiments are made in an enclosed and tideless claire and have achieved a definite measure of success in demonstrating the possibility of fattening oysters to marketable condition by this means.

Science, Jan. 18, 1901, p. 107.

That the clairoffactant or hyperosmic soul perceives more than the clairaudient or clairvoyant.

G. S. Hall, Adolescence, 11, 16.

clairclfactant (klâr-ol-fak'tant), a. [F. clair, elear, + E. olfact(ory), + -aut'l. (f. clairroy-ant.) Pertaining to or characterized by an

clairschach (klär'shäch), n. [Also elairseach, clarshech, clerschew, clersha, clarishoc, clearsach, clairsach, etc., < Gael. Ir. clairseach.] A form of Celtic harp once used in Scotland and Ireland. N. E. D.

clairschacher (klär'shäeh-er), n. One who plays upon the clairschach; a harper, N. E. D. clairvoyancy (klär-voi'an-si), n. Same as clair vou ance

clairvoyantly (klar-voi'ant-li), adv. As a elairvoyant; in the manner of a elairvoyant.

clam³, n.—Bloody clam, an ark-shell, Area pexata, which has red blood. [North America.]—Painted clam, an edible bivalve, Macrocallista gigantea, found abundantly in the southern United States; so called because of the colored markings on its porcelain-like shell.

clam³ (klam), v. i. [clam³, n.] To gather clams; as, to go clamming. [Colloq.] clam-hook (klam'hūk), n. A short-handled fork which has strong round hooks or tines and is used to rake clams out of the mud along the shore. A similar tool with flat tines is a clamdigger.

clamjamfry (klam-jam'fri), n. 1. Same as clam-jamfrie.— 2. Rubhish; trumpery. Also clamjamphrie.

clammy-weed (klam'i-wed"), n. Any plant of the genus Polanisia, especially P. graveolens. See Polanisia.

Clamp¹, n.—Pedicle clamp. See *clamp-forceps. Buck, Med. Handbook, I. 253.—Test-tube clamp, a wooden handle, with a clamp of wood or brass by which a test-tube may be grasped: used in chemical laboratories to support such a tube over a flame while protecting the hand from heat. The clamp is sometimes made to slide up and down on a vertical rod upon a foot, with a screw arrangement by which to fix it at any desired height.

clamp3, n. 2. A clamp-shell, Tridacna; a chama

clamp-forceps (klamp'fôr"seps), n. A elamp shaped like a forceps, with an automatic leek, used in surgical operations to compress arteries, the pedicle of a tumor, or other structures.

Buck. Med. Handbook, II. 38.

clamp-kiln, n. 2. A briek-kiln built with
temporary walls which are rebuilt after each

turning, the outside of the walls being plastered or daubed with clay mortar. clamp-shell (klamp' shel), n.

Same

 $\star clump^3, 2.$

clamp-tongs (klamp'tôngs), n. Reofing-tongs that can be used to clamp and hold the edges of tin plates.

clam-shell, n. II. a. Resembling in form or appearance the shell of a clam: as, a clam-shell dredging-bucket; a clam-shell dredgingclam-shell, n. machine.

clan, n. 3. A secial unit in a tribe in which de-

seent is reckoned in the maternal line; a group of people supposed to be descended from a eommon ancestor, descent being reckoned in the female line. In this sense it is opposed to gens, the social unit in a tribe in which descent is reckoned in the paternal line.

A clan is an organized group of persons who reckon kinship through lemales from an ancestral mother, real or eponymons; it has well-defined rights and duties. An. Rep. Bur. Amer. Ethnol., 1897-98, p. xlix.

Totem-clan. See *totem-clan.

clan-ancient (klan'ān"shent), n. The ancestor of a clan.

The objective cultns of Katcinas is made up of representations of these animas (breath bodies) of clan-ancients by masked men, by images, by pictures, and ceremonial

J. W. Fewkes, in Jonr. Amer. Folk-lore, March, 1902, p. 14. clanfellow (klan'fel-ō), n. In anthrop., a member of a clan in his relation to another member of the same clan.

Clang affinity or relationship, the identity of the pitch of the fundamental of one tone with that of an overtone of another tone of different clang, or the identity in pitch

clan-horde (klan'hōrd), n. A horde which has gradually assumed the status of a clan by coming into elan relations with other hordes.

Finally it might be assumed that each horde in a clusremany te might be assumed that each norte in a clinster or group of hordes becomes practically a claim by retaining a majority of all members of that claim and by including with them only a few individuals of other claims, and that such din-hordes presently draw together into a tribal organization.

Giddings, Prin. of Sociol., p. 258.

clairolfactance (klār-ol-fak'tans), n. The supposed faculty of being clairolfactant.

clank, v. I. trans. 3. To deposit, put, place, or set down with a clanking sound.

When she brought up the tea-tray she clanked it on the II. intrans. 2. To move with a clanking

"Not bad news, I hope?" cried Ivo, as Ascelin clanked nto the hall. Kingsley, Hereward, xxi. into the hall.

abnormally delicate olfactory sensitivity and sensible discrimination.

(Also clairscach, lklär'shäch), n. [Also clairscach, ames belonging to a clan by which the bearer of the name is recognized as a member of the

In the clan system descent was probably at first reckoned only through the female line; consequently uterine ties alone constituted kinship, the father not being regarded as related even to his own children, and not considered as a member of the family, as still amongst the Chi (Tshi) people of the Gold Coast and elsewhere. In this system all the children hear the clan-name transmitted through the mother, and the clan-name thus becomes the test of blood-relationship:

Keane, Ethnol., p. 6.

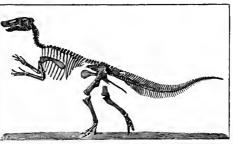
clanship, n. 2. Membership in a clan.—3. The feeling or spirit of attachment and loyalty to one's clan or fraternity.

clan-standard (klan'stan-dard), n. blem of a clan, by the use of which the members of the clan may be recognized.

The devices are at once blood signs, definite as the face-marks of gregarious animals, and clan-standards, significant as tartan or pibroch. Smithsonian Rep., 1900, p. 62.

clanswoman (klanz'wum-an), n. In ethnol., an adult female member of a clan. Giddings, Prin. of Sociol., p. 173.

Dlaosaurus (klā-ō-sâ'rus), n. [NL, said to have been formed (if so, irregularly) from Gr. Claosaurus (klā-ō-sâ'rus), n. κλάω (inf. κλάν), break, $+ \sigma a \hat{v} \rho o \varsigma$, a lizard.] A



Claosaurus annectens, Marsh, Trans. Conn. Acad. Arts and Sciences.")

genus of dinosaurian reptiles of great size. They had an elongate and snouted skull with toothless premaxille; teeth arranged in successional series in an alveolar groove; 30 presacral vertebre, 9 fused sacrals, and about 60 caudals; fore legs very short; hind legs very large, with massive digits; both fore and hind lega three-tood, and the fore feet with a rudimentary fourth toe. Claosaurus annectens, from the Upper Cretaceous of the Rocky Mountains, attained a length of more than 30 feet 30 feet.

32

clapboard-gage (klap 'bord $(\text{Riap bord} \cdot \text{gāj}), n.$ A earpenters' gage used to measure the distance between one line of elapboards and the next above it. It is adjustable to various widths of elapboard to be expesed to the weather.

clap-netter (klap'net-er), n. One who eatches birds with a clap-

Clapboard-gage. net. Athenæb, sliding abutunent for clapboard already in place:
um, Oet. 31,
1891, p. 587.

clapped in the weather. clapped to the weather. clapped in the bot. In bot., the auriele in hepaties. See auriele, 3

claret-cheek (klar'et-chek), n. Same as capillary *nævus.
clarinet, n. 2. In organ-building, a reed-stop

imitating the tone of the elarinet.

Clark process. See *process. clash-gear (klash'gēr), n. A form of change-gear for motor-cars, in which the differing speeds of the driven shaft are secured by slid-ing or shifting tooth-wheels lengthwise on

parallel shafts until the desired pair comes into mesh. When the driving-gear is turning and the one to be driven is moving at a different rate, the engagement of the sets of teeth takes place with a jar or clash. Sometimes called sliding-gear transmission.

clashy (klash'i), a. [clash + -y1.] 1. Wet and disagreeable with drenching dashes of rain: applied to the weather: as, a clashy day.—2. Given to gossiping and tale-telling. [Dialectal in both senses.]

clasmatocyte (klas-mat'ō-sīt), n. [Gr. κλάσμα(τ-), a fragment, a morsel, + κίτος, a hollow (a eell).] A large branching cell resembling a mast-eell, but containing no basophilie granules. Med. Record, June 27, 1993 p. 1446 1903, p. 1046.

clasmatosis (klas-ma-tō'sis), n. [NL., < Gr. κλάσμα(τ-), a fragment, a morsel, + -osis.] The process of breaking up into small fragments: applied to cell changes. C. S. Minot, in Science, March 29, 1901, p. 492. clasp, r. t. 3. To attach holdfasts of metal to

the outer edges of (a book-eover) to prevent its yawning or warping.

clasp, n., 1. (e) The riveted shackle of a hemp or

wire rope.
4. In the British army, a narrow flat bar of metal forming part of a military decoration, and bearing the name of some action at which the bearer was present.

For his [Earl Roherts's] services in the Mutiny war he was seven times mentioned in despatches, received the medal with three clusps, the Victoria Cross, and on his promotion to captain in October. 1860, a brevet majority.

Encyc. Brit., XXXII. 263.

Vachette clasp, a small piece of wire with curved pointed ends for clamping the edges of the wall of a horse's hoof together in cases of cracked hoof.

clasper, n. (c) The operator who makes clasps or attaches them to books or other articles.—Frontal clasper, a name applied to a peculiar appendage found on the head of the male chimzera. Also frontal spine. Parker and Hassian Proclams 1 175. Haswell, Zoology, I. 175.

clasp-nut (klasp'nut), n. A split nut which can be opened or closed to permit of its engaging or disengaging a screw at any point of its travel. Such a nut is commonly used to operate the carriage of an engine-lathe when cutting a thread. Sometimes called clam-nut and clip-nut.

class, n. 7. In petrog., in the quantitative classification of igneous rocks (see $\star rock$), the classification of igneous rocks (see *rock), the highest division. All igneous-rock magmas are divided into 5 classes, according to the proportions of salic and femic constituents. The salic minerals are quartz, feldspars, leucite, nephelite, sodalites, corundum, and zircon; the femic minerals are all other minerals except the aluminous ferromagnesian ones. These minerals are calculated from the chemical composition of each rock. The 5 classes are called persalane, dosalane, salfemane, dofemane, and perfenance.

8. (a) In shipbuilding, the indication of the character, style of construction, and quality of workmanship and outfit of a merchant vessel, as determined by the rules and inspec-tion of a registration seciety. The class to which a vessel is assigned is indicated in the register of each society by a conventional character such as 100A, 90A, etc. See A, 2(f). (b) the indication of the size and power of any given type of war-ship: as, a first-class battle-ship, a first, second, or third-class erniser, etc.—9. In crystallog., one of the thirty-two groups in which crystals are divided in accordance with the special type of symin accordance with the special type of symmetry. —Age class, in forestry, all the trees in a stand of which the ages are within given limits.—Crown class, in forestry, all the trees in a stand of which the ages are within given limits.—Crown class, in forestry, all the trees in a stand which occupy a similar position in the crown cover. Dominant, intermediate, overtopped, and suppressed trees each constitute a crown class.—Dlameter class, in forestry, all the trees in a stand whose diameters are within prescribed limits.—Form class, in forestry, all the trees in a stand so similar in form that the same form factor is applicable in determining their actual volume.—Height class, in forestry, all the trees in a stand whose heights are within prescribed limits.—Locality class, in forestry, all localities with similar forest-producing power.—Personality classes, classes in the social population distinguished by differences of mental and moral endowment; in particular, the men of genius and talent, the normally endowed, and the mentally and morally defective. Giddings, Prin. of Sociol., p. 125.—Social classes, classes in the social population distinguished by differences of social instinct or feeling: they include the altruistic or philanthropic, the merely non-social or indifferent, the dependent or pauperized, and the anti-social or criminal classes. Giddings, Prin. of Sociol., p. 126.—Stand class, in forestry, all stands of similar density, height, and volume for a given age or diameter and a given locality class.—The index stand may constitute the first stand class.—Tree class, in forestry, all trees of approximately the same size. The following tree classes are distinguished seed-ling, shoot, small sapting, large sapting, small pole, large pole, standard, reteran.—Vitality classes, classes in the social population distinguished by different degrees of vitality, as shown in birth-rates, death-rates, and longevity. Giddings, Prin. of Sociol., p. 125 metry which characterizes them. See *symclass, v. I. trans. 3. In shipbuilding, to assign to a class of a registration society, such as Lloyd's: said of a merchant vessel. not classed is one which has not been inspected and assigned a class by any registration se-ciety, or the classification of which has been refused for some reason, not necessarily involving deterioration or inferior quality.

II. intrans. 2. To be assigned to a class. See *I., 3.

An abbreviation (a) of classic or classiclass.

cal; (b) of classification.

class-consciousness (klas-ken'shus-nes), n. The feeling and perception of unity which pervade any social class and include a sense of common nature, identity of interests, and similarity of manners.

classer (klás'ér), n. $\lceil class + -er^1 \rceil$ One who classifies or sorts according to certain qualities or characteristics: as, a classer of wool or cotton.

classiary (klas'i-ā-ri), a. [L. classiarius, \classis, a fleet: see class.] Of or pertuning to the fleet or navy, its personnel, or its exploits.

A gallery was opened . . . for the display of inscriptions mentioning officers and men of the Roman "Channel Squadron," classiary tiles . . . bearing the stamp Cl. B. R. and a votive offering. Athenæum, Ang. 29, 1891, p. 290.

Classic landscape. See *landscape.

classical¹, a. 6. In music, belonging or pertaining to a style of composition in which regularity of form is conspicuous, particularly to the style developed in the latter part of the eighteenth century: opposed to romantic. Thus Haydn's music is classical, while Schumann's is mostly remantic. The term is also loosely used of all music that is elaborate, difficult, or abstruse: opposed to popular.— Classical school, in music, the group of composers who, from Haydn onward, emphasized orderliness of form rather than richness of emotional content: opposed to the romantic school (which see, under romantic).

classicalize (klas'i-kai-īz), v. t. and i.; pret. and pp. classicalized; ppr. classicalizing. [classical+-ize.] To conform, or cause to conform, to classical usages: as, to classicalize the modern spelling of Greek and Roman names.

classicism, n. 3. Classical scholarship or learning.

So far as all the classicism then attainable was concerned, Shakespeare got it as cheap as Goethe did, who always bought it ready made.

Lowell, Among my Books, 1st ser., p. 188.

classicistic (klas-i-sis'tik), a. Cenformed to or characterized by classicism: as, the classicis-

tic drama; the classicistic period of architecture. clatter-bones (klat'ér-bons), n. pl. Same as classifiant (klas-i-fi'ant). u. Same as classifie, bonel, n., 6 (c), and clapper1, 1 (f). classifiant (klas-i-fi'ant). a. Same as classific,

3.—Classifiant concept. Same as classific *concept. classifically (kla-sif'i-kal-i), udv. As a classifier: as, a word used classifically.

classification, n. 2. In shipbuilding, the assignment to and arrangement of merchant vessels in classes by registration societies. See *class, n., 8.—sympodial classification, classifica-tion based on the successive branchings of phenomena; classification growing out of differentiation in various di-rections, in contrast to hierarchical classifications, which recognize only one straight line of snecession or progre

classifier, n. 4. In ore concentration and milling, an apparatus for subdividing ore-pulp, according to the size and density of the mineral

articles, in moving currents.

class-marriage (klas'mar"aj), n. In ethnol., a system of marriage in which a person of one class is restricted in the choice of his or her mate to a definite class of individuals. Kcane,

Man Past and Present, p. 153.

class-number (klas'num"ber), n. In librarucataloguing, the number, or number and letter, which shows the class (as literature, history, philosophy, or science) to which a book belongs philosophy, or science to which a neorge periong or the subject of which it treats. It is usually followed by other figures which indicate the particular division, subdivision, or section of the subject treated, and the number of the book.

Clavaria et al. (Clavaria et al. (Clavaria) or confirmed in a cloister. Same as Clavariei, and Clavariei, and Clavariei, and Clavariei, and Clavariei.

Clasterosporium (klas "ter-o-spo'ri-um), n. [NL. (Schweinitz, 1831), $\langle Gr, \kappa \lambda a \sigma \tau \delta \varepsilon, \text{ broken}, + \sigma \pi o p \acute{a}$, seed (see *spore*). The allusion is to the manner in which conidiophores break up.] A genus of hyphomycetons fungi characterized by dark-colored hyphæ and conidiophores which bear brownish, three- (or more) celled cylindrical or spindle-shaped conidia. C. Amygdalearum is parasitic on the leaves of the

peach. plum, cherry, etc., in Europe.

clastic, a. II. n. pl. In petrog, sedimentary rocks composed of fragments of older rocks.

This main structural feature, supported by the evidence afforded by the intrusive character of the contact between the crystallines and the clastics, by the marmorization and

deformation of the adjacent country rock, and by the occurrence of an unusually complete series of typical contact-metamorphic minerals, is conclusive as to the part this intrusive mass has played in the history of the region, Econ. Geol., U. S. Geol. Surv., 1902, p. 36.

clastogene (klas' tō-jēn), a. [Gr. κλαστός, broken, + γένος, kind (see genus).] In petrog.. a term used by Renevier (1881) for coarsely clastic rocks, such as conglomerates and breecias

Clathraceæ (klath-rā'sē-ē), n. pl. [NL., < humerus. Clathrus + -accæ.] A family of fungi of the clavier, n. 4. A dumb keyboard made for order Phullales, named from the genus Clathorder *Phullales*, named from the genus *Clath*finger-gymnastics, as the Virgil *clavier*.

rus: characterized by having the receptacle clavierist (kla-vēr'ist), n. A player on a clalatticed or irregularly branched and inclosing vier. N. E. D. the gleba.

Clathraria (klath-rā'ri-ä). n. [NL. (Stokes and Webb, 1824), < L. clathri, lattice: see clathrate.] A genus name formerly given to fessil trunks with clathrate markings.

clathrarian (klath-rā'ri-au), a. [Clathraria + -an.] Of the nature of Clathraria (that is, of clathrate fossil trunks).

Clathrina (klath-rī'nā), n. Clathrina (klath-rī'nā), n. [NL., L. clathri, lattice, + -inul.] The typical genus of the tamily Clathrinidæ. tiray, 1867. Clathrinidæ (klath-rīn'i-dē), n. pl.

[Nl., \ Clathrina + -idæ.] A family of homocolous sponges, of the class Calcarca. They have the form reticulate, triradiate systems always present and equiangular, the monaxons present or absent, and the collar-cells with the nucleus at the hase. The family contains the genera Clathrina, Ascandra, and Dendya.

Clathrodictyon (klath-rō-dik'ti-on), n. [NL., < L. clathri, Gr. κεῆθρα, lattiee, + Gr. δίκτιον, net.] A genus of massive hydrocoral-Olynthus lines which grew in extensive mordulis, lines which grew in extensive mordalis, H., reets in the seas of Silurian and seen with a low-power. (After Devenian times. In structure they Haeckel.) were composed of successive fine laminæ with radial pillars between.

clatter, n. 3. A heap of loose boulders or broken rocks. Compare clutter².

Under shelter of the biggest rocks in the whole clatter . . the word is good Moorland English for a mass of lose, weathered bonders on the skyline summit of a sadle-back ridge.

Pall Mall Gazette, July 28, 1882. dle-back ridge.

4. Noisy gabble or talk; confused din of many jabbering tengues.

By degrees, as the hour grew later, and the barrel [of beer] less heavy, the conversation changed into one universal clatter.

Bulwer, Disowned, ii.

claudication, n.—Intermittent claudication, a limp which occurs anddenly while one is walking and disappears with rest; it is caused by defective circulation in the extremities, due usually to arteriosclerosis, and may terminate in gangrene of the limb. Also called intermittent limping. Jour. Exper. Med., V. 104.

claus (klous), n. [Named from R. J. E. Clausius (1822-88), a German physicist. Clausius is a Latinized form of G. Claus, Klaus, ult. (L. Nicolaus (see Santa Claus).] In physics, a L. Nicolaus (see Santa Claus).] In physics, a name proposed for the unit of entropy when the joule is the nnit of energy.

the joule is the nnit of energy.

clause, n.—Memorandum clause, in mariae insurance, a clause added to an insurance policy which exempts the underwriters from risk as to goods of a peculiarly persishable nature and from minor damages.—Overreaching clause, in a resettlement, a clause which saves the powers of sale and leasing annexed to the estate for life created by the original settlement, when it is desired to give the tenant for life the same estate and powers under the resettlement. Bouvier, Law Dict.—Penal clause, in law: (a) That part of a statute which provides for punishment for its violation. (b) That part of a bond which defines the amount of the penalty.

Claustration (kibs.-tri/shon) n [NI] claustra-

claustration (klâs-trā'shon), n. [NL. claustra-tio, < L. claustrum, eloister.] Confinement in

now the regular form.

clavelization (klav-e-lī-zā'shon), n. [F. *clav-clisation, < clavelée or claveau, sheep-pox, < ML. *clavellus, dim. of L. clavus, a nail, also a tumor or diseased part on sheep or other animals: see clavus, clove4.] Inoculation with the

virus of sheep-pex. clavicithern (klav-i-sith'ern), n. Same as claricitherium.

And wanteth there grace of lute or clavicithern, ye shall say to confirm him who singeth.

Browning, Heretics' Tragedy, st. ii. (prose direction).

clavicle, n. 3. The columella of a univalve shell.—4. In ichth., usually the largest bone

of the shoulder-girdle,—The supraelavicle, when present, is attached to its upper end, and the coracoid elements are attached to its posterior surface. It borders the gill-opening behind.

Clavicula anterior, in ichth., the clavicle: a bone of the shoulder-girdle, bordering the gill-opening behind: doubtless not a homologue of the bone so called in mannuals.—Clavicula posterior, in ichth., the lower of the two bones which support the actinosts; the hypercoracoid.

Claviculohumeral (kla-vik"ū-lō-hū'me-ral), a. In anat. relating to both the clavicle and the In anat., relating to both the clavicle and the

claviole (klav'i-ōl), n. [Also claviol; $\langle cla(vis) \rangle$ + viol.] A musical instrument invented by Dr. Hawkins of Bordentown, New Jersey, in 1802. It had strings and a keyboard like an upright pianoforte, but by a roller mechanism it produced sustained tones by friction instead of by the blows of ham-

clavipectoral (klav-i-pek'tō-ral), a. [L. clavis, representing NL. claricula, clavicle, + pectus, breast, thorax.] Relating to both the clavicle and the thorax.

clavism (klā'vizm), n. [NL. *clavismus (It. clavismo), ⟨ L. clavus, a nail.] A nail-like appearance, as of an excrescence. Same as ergotism1, 2.

Clavulina (klav-ū-li'nā), n. pl. [NL., \(\clav-\) ula, 2 (b), + -ina2.] A group of hadromerine menaxenidan sponges having monactinal megascleres.

Clavulina, n. pl. Same as Clavulina.
clavus, n. 3. In pathol.: (b) A eern. (c) A
nail-shaped excrescence.—4. In entom.: (b)
The club of the antenna. (c) The knob at the
end of the stigmal or radial rein of a chalcidid or proctotrypid hymenopterous parasite.— Clavus hystericus, an acute localized boring pain in the head sometimes complained of by the hysterical.

the head sometimes complained of by the hysterical.

Claw, n.—Extensor of the claw, in entom, a muscle
peculiar to the terminal selerite of the foot. It occupies a
superior position and in operation extends the claw.—
Flexor of the claw, in entom, a muscle peculiar to the
terminal selerite of the foot. It occupies the upper and
under surface of the posterior part of the selerite and
flexes the claw in contraction.

claw, v. i.—To claw to windward (naut.), to work a vessel to windward.

claw-clutch (klâ'kluch), n. A device for coupling shafts which require instant connection or separation. It is somewhat similar in outline to a or separation. It is somewhat similar in outline to a fange-coupling, but, instead of the abutting faces being plain, projections or claws are east on each face and engage in corresponding recesses in the face opposite. The claws usually number 2 or 4. The clutch is thrust in and out of gear through a pin or fork which works in a groove turned in the circumference of a hoss cast on one coupling. upling.

claw-coupling (klå 'kup "ling), n. Same as *claw-clutch

claw-footed (kla'fnt-ed), a. Same as claw-foot. claw-lever (klâ'lev"er), n. A lever which forks or divides like the claw of a hammer, so as to get on both sides of the article to be lifted. Nasmith, Cotton Spinning. p. 266. claw-nut (klâ/nut), n. The split nut which

engages the lead-screw on a screw-cutting lathe.

claw-tool (klâ'töl), n. A saddler's tool, fitted to a handle, used for drawing tacks.

to a handle, used for grawing cachs.

clay, n.—Abysmal or abyssal clay. See ★abyssal.

—Arca clay, one of the series of clay deposits laid down during the Pleistocene or ice age in Scandinavia and Finland: so named from the presence of pelceypod mollinsks of the genus Arca. At the hottom of these deposits is the Yoldia clay, above which comes the Arca clay, followed by the Mytlins and the Cardium clays. In the Arca clay rodua ciay, above which comes the Arca ciay, followed the Mytilus and the Cardium clays. In the Arca clay Brögger finds that the shells of the lowest part are chiefly arctic, while in the upper part there is an advent of southern forms, indicating increasing warmth of the seas.

—Astringent clay, a clay which usually contains alum.

Where these porons sands and gravela lie upon the impervious chocolate-colored and astringent clays, the conditions are highly favorable for yielding large volumes R. D. Salisbury, Geol. Survey of New Jersey, 1900, p. xvii.

Atherfield clay [Atherfield Point, a cape on the south coast of the 1ste of Wight], a deposit of clays in the stratigraphic rock section of the Cretaceous formation of the Iste of Wight. It rests on the Wealden formation.—Ball clay, white-burning plastic sedimentary clay, used chiefly in the manufacture of the fine grades of pottery which have a white body. Geol. Survey of New Jersey, 1904, p. 214.—Barton clay, See Bartonian ***group.—Blue clay, deep-sea mnd.—Bradford clay, in the Jurassic system of England, a local subdivision of the Bathonian or upper part of the Lower Oölite. It lies above the ragstones and below the combrash, at the base of a series of clays and limestones, the latter called forest-marble.—Cardium clay, See **cardium.—Clay-faced paper. See **paper.—Clay-surface process, in photog., a process for quickly preparing line-printing blocks. Sheet-metal is coated with a composition of pipe- or china-clay, after which a drawing la made through the clay to the surface of the metal with hooked tools. A stereotype of the plate is then made which furnishes the block for the press.

Clay

—Damp-clay process. Same as Prossers *process.
—Egyptianized clay. See *Emptianize.—Eric clay, in geol., a series of unstratified clays of pleistocene age in the Lake Eric region. They lie on the glacial till and contain small scattered scratched boulders. The deposit is regarded as made by subglacial streams after their escape from the ice and by discharged water during the general melting of the ice-sheet.—Fairlight clays, in geol., the lowest division of the Wealden Cretaceous series in Sussex and Kent, England.—Fatty clay, a soft and unctuous clay rich in kaolin and poor in sand.—Glen Rose clay, in geol., a division of the Wealden Cretaceous rocks in Temas.—Grinstead clay, in geol., a division of the Wealden Cretaceous rocks in Temas.—Grinstead clay, in geol., a division of the Wealden Cretaceous rocks in Sussex and Kent, England.—Hessle clay, a local name for the upper boulder-clay at Hessle England. Geikio. The Great Ice Age, p. 358.—Joint clay, in geol., a name sometimes applied to those clays which on exposure develop marked systems of joints.—Kimmeridge clay, in geol., a subdivision of the Jurassic system in England. It attains a thickness of 600 feet, is underlain by the Coral Rag. overlain by the Portland Sands, and constitutes the lower part of the Upper or Portland Colites.—Raritan clay, in geol., the clays of the Raritan formation in the Atlantic coast region of North America. They are of light color and arenaceous. See Raritan *formation.—Red clay, on extremely fine reddish-brown mud which covers the ocean-bottom at depths below 2,000 fathoms. It results from the decomposition of pumice and fine volcanic dust, and sometimes contains Foraminifera and Radiolaria.—Sangeen clay, in geol., a subdivision of the Pietstocene series in Canada. It is regarded by Canadian geologists as probably equivalent to the Upper Leda-che, "Specton Clay, in geol., a deposit of argillaceous strata on the Yorkshire coast which has been shown by its fossils to be continuous from the Kinmeridge clay of the Upper Ju

clay-burning (klā'ber"ning), n. In agri., the roasting of clay for use in ameliorating the soil, practised in parts of Great Britain. The stiff subsoil is dug up, mingled with waste fuels, and burnt like charcoal. The resulting ashes, if the burning is not excessive, are said to benefit some classes of soils, both mechanically and chemically.

clay-dike (klā-dīk'), n. A name given by Scottish coal-miners to a buried stream-course

clay-dog (klā-dog'), n. See clay-stone.

In the vicinity of Pleasant Plains, seven miles or so south of Morristown, the low plain (about 230 feet) is covered to a considerable depth with similar faminated clay, equally rich in concretions, which are locally known as "clay-stones," "clay-dogs," "stone-dogs," &c.

R. D. Salisbary, Geol. Survey of New Jersey, 1892, p. 138.

clay-eater (klā'ê"ter), n. A person who is in the habit of cating or chewing elay. This habit prevails among primitive tribes and degraded people in many parts of the world, particularly among the Indian tribes of the Orinco and Amazon rivers, and among some 'poor whites' in the southern United States.

claying-iron (klā'ing-ī'ern), n. Same as clay-

claypan (kla'pan), n. In geol., a shallow, saucer-like depression with a bottom of clay: a feature of the dry interior of Australia.

Smithsonian Rep. 1896, p. 253.
clay-press (klā/pres), n. In eeram., a machine which consists of a screw that connects with a series of horizontal trays or plates, between which canvas bags containing the prepared elay or slip are placed and the surplus mois-ture is expelled by pressure. Also called screw-

claystone-porphyry (klā'ston-pôr / fi-ri), n. In petrog., a porphyry whose ground-mass has been somewhat altered to kaolin.

Clayton gas. See *gas.
Clayton's apparatus. See *apparatus.
cleading, n., 4. (b) The wood composing the
box of a mine-car. (e) The wooden portion
of a rope-drum on which the rope is coiled.

clean, a. 13. In good or wholesome condition: said of fishes which have neither recently spawned nor are about to spawn and are fit for food.—14. Unfeathered: said of pigeons which have no feathers on the feet, in distinction from those which are muffled, or have feathered feet.—15. Naut.: (a) said of a ship's form when it has acute or fine tapering lines: as, a clean entrance; a clean run. (\vec{b}) Free from obstruction, as a coast, harbor, etc.-Clean cutting, scrap. See *cutting, etc.—Clean ship.

(a) A vessel without cargo. (b) A whaler without oil on hoard. (c) A ship in good condition; a cleanly vessel.

Clean off the reel, sailing so fast as to pull the log-line off the reel without the necessity of feeding it to the

clean, v. t. 3. In agri., to clear (land) of weeds. Now, the way in which farmers clean their land is by loughing it up. R. H. Wallace, Agriculture, p. 142. ploughing it up

To clean the board, to take or win everything; make a clean sweep.

cleaner, n. (d) A special preparation, either saponaceous, ethereal, or both, used for removing grease-spots,
ink-stains, etc., from fabrics. (e) A device for automatically cleaning scum or theating matter from the surface
of water in a boiler and depositing it in a separator or settling-chamber located on top of the boiler. It consists of
a skimmer in the boiler, to which is attached a vertical
pipe which discharges into the settling-chamber near its
top. From a point at the other side of the settling-chamber a return-pipe leads into the boiler, discharging somewhat below the water-level.

cleaning, n. 3. In forestry, a thinning made in a stand which has not reached the smallpole stage. Its main object is to remove trees of undesirable form and species. See *thinning. cleaning-cloth (klē'ning-klôth), n. used for cleaning; specifically, a cotton fabric of coarse spongy texture, woven by the aid of two needle-bars.

cleaning-doctor (klē'ning-dok"tor), n. Same as color-doctor.

cleaning-drum (klē'ning-drum), n. Same as *wash-drum. Sci. Amer. Sup., Feb. 27, 1904, o. 23534.

leaning-foot (kle'ning-fut), n. In certain of the Crustacea, the appendage on the basal joint of the exopodite, which serves to dislodge foreign bodies from the branchial chamber.

cleaning-pit (klē'ning-pit), n. A pit over which locomotives are run for the purpose of eleaning the ash-pans and fires. Similar pits are used for eleaning and repairing the motors of electric ears.

clean-out (klen'out), n. In plumbing, a metal eylinder with a removable cap calked to a waste- or drain-pipe to facilitate its being cleaned out when stopped: as, a brass cleanout.

cleansing (klen'zing), n. [ME. clensing, \langle AS. cl\bar{w}nsung, \langle cl\bar{w}nsung, \langle cleanse: see cleanse.] 1. The act of making clean; cleaning; purification.—2. That which is removed in cleaning; dirt or refuse removed; specifically, the placenta or afterbirth: usually applied to animals.

tish coal-miners to a buried stream-course filled with elay, sand, and gravel, which traverses coal strata. J. Geikie, The Great Ice Age, p. 114.

clay-dog (klā-dog'), n. See clay-stone.

In the vicinity of Pleasant Plains, seven miles or so south of Morristown, the low plain (about 230 feet) is covered to a considerable depth with similar laminated covered to a considerable depth with similar laminated.

Clay T. T. Gear day aday marked by the absence.

products from elean-up operations.

clear, I. a.—Clear day, a day marked by the absence of rain and clouds; as used technically by the United States Weather Bureau, a day in which the average obscuration, between sumrise and sunset, is \(\frac{\partial}{\partial} \) or less.—Clear length, in forestry, that portion of the stem which is free from branches. In forest measurements the meaning of the term varies with the species measured and the purpose of the measurements; for example, in some cases it is used to designate that portion of the stem which is free from dead branches or from growing ones of a given size.—Clear sky, See *\(\text{clear}\) day.—Clear trunk. Same as *\(\text{clear}\) tength.—Half clear, partly depolished; said of glass.

II. n. 4. In bot., an open space.

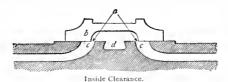
clearance, n. 5. A piece of land which has been cleared for cultivation or for building; a elearing.—6. In railroading: (a) A difference

elearing.—6. In railroading: (a) A difference between the track-gage and the gage of the exterior surface of the wheel-flanges, designed to allow a certain amount of play between the flanges and the rails. (b) At a crossing or frog, the clear space left between cross-rails and the frog and guard-rail for the free passage of the flanges of the wheels. (c) The elear space between the sides and top of a tunnel or bridge and the outside dimensions of the largest ear passing through it.—7. In steam-engines, the volume or entire space below the valve-face which is filled with steam at the beginning of a stroke, including the space between piston and cylinder-head and the volume of the steam-ducts to the valve-seat. -8. The settlement or payment of a debt; the passing of cheeks and drafts through the clearing-house for their settlement.

Many millions in value of such bills are weekly eleared through the London bankers, and these clearances represent a large . . . amount of these commercial instruments.

J. T. Rogers, Polit. Econ., xi.

Inside clearance, in the slide-valve of a steam-engine, a space between the inner or exhaust edge of the valve



a, clearance; b, slide-valve; c, c, steam-ports; d, exhaust-port.

and the inner edge of the port opening when the valve stands in its central position. Both ends of the cylinder will then be in communication with the exhaust-outlet, each by the amount of this clearance. It is given in high-speed engines to secure free escape of exbaust-steam, but is incompatible with economical working with a high degree of expansion or early eut-off.

clearance-car (klēr'ans-kär), n. on which is erected a light frame of the same cross-section as the ears to be used on a new road; it is employed to find out if there is ample elearance through bridges, etc. *clearance, 6 (e).

clearance-point (klēr'ans-point), n. roading, the point at a siding where the sidingtrack is sufficiently far from the line-track to allow a train upon the one to clear or pass a ear standing on the other. See switch.

clearance-steam (klēr'ans-stēm), n. steam which fills the clearance-space of a steam eylinder, between the head of the piston and the under surface of the distributing-valve.

clearer, n. 3. On a wool- or cotton-carding maehine, a small roller or cylinder for working the stock. Nasmith, Cotton Spinning, p. 101.
—Self-stripping clearer, a device which removes the loose fibers from the top draft-rollers of cotton-spinning and -combing machines, and which automatically clears itself of such fibers.

clearer-brush (klēr'ėr-brush), n. brush, on a cotton-cop winding machine, for clearing the yarn from loose fibers, leaves, etc. R. Marsden, Cotton Weaving, p. 257. clearing-doctor (kler'ing-dok"tor), n. Same as

color-doctor.

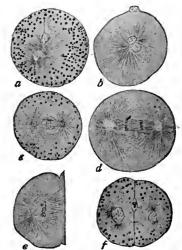
clearing-hole (klēr'ing-hōl), n. A hole made shaft of the same diameter, so that a bolt or shaft of the same diameter can pass through it, but will fit closely: used in opposition to tap-sized hole or tapping-hole.

1. clearing-house, n.—Clearing-house certificate, a certificate of deposit issued by a clearing-house. Such certificates are negotiable only between banks which are members of the clearing-house association. Under special circumstanees similar certificates have been issued by the clearing-house on the deposit of securities instead of

clear-skins (kler'skinz), n. pl. Same as cleanskins (which see, under skin).

Clearstory, n.—**Clearstory window**, a window of a clearstory; that is, a window in the wall above the naveareade and the aisle-roof. In large Gothic churches the principal light is through the elearstory windows.

Cleavage electricity. See *electricity.— Cleavage lines of the skin, lines along which the skin more easily tears, owing to the arrangement of bundles of fibrous tissue in the corium.—Cleavage nucleus, in embryol., the nucleus which results from the union of the male and female pronuclei, before the division of the egg into two blastomeres.—Strain-slip cleavage, a cleavage in rocks, usually associated with fine crumpling and produced when a shearing-strain overcomes the cohesion. Geikie, Tay though of Geol. 1831. Text-book of Geol., p. 681.



Fertilization in an annelid (armed Gephyrean), *Thalassema* [Griffin].

a, approach of the egg-nucleus and sperm-nucleus, the latter accompanied by the sperm-amphiaster; \(\delta\), union of the nuclei to form cleavage-nucleus; \(\epsilon\), prophase of cleavage-spindle; \(\delta\), anaphase of the same, centrosome divided; \(\epsilon\), nuclear reconstitution and formation of the daughter-amphiasters for the second cleavage; \(\epsilon\), two-cell stage. Magnified. (From Wilson's "The Cell.")

cleavage-product (klē'vāj-prod"nkt), n. A compound formed by the decomposition of a more complex substance. The action is usually, but not always, hydrolytic and may be caused by water, acids or alkalies, enzymes, micro-organisms, etc. Thus, when albumin is treated with baryta water it yielfa, as cleavage-products, ammonia, carbon dioxid, oxalic acid, pyrrol, leucin, tyrosin, aspartic acid, etc.

cleavage-spindle (klē'vāj-spin'dl), n. In embryol. and cytol., the karyokinetie spindle of a dividing eleavage-cell, or blastomere, during

the early development of the ovum. cleave², v. t. 4. In agri., to replow (old ridges) in such a manner as to divide each in the middle. See *cleaving. Also split. [Great

cleave2 (klev), n. In mining, a subdivision of a bed, usually of iron ore; a beneh. [Seotch.] cleave³ (klēv), n. [Ir. cliabh (pron. klē'av), Olr. cliab, Gael. cliabh, a basket; akin to Ir. Gael. cliath, a hurdle.] A basket or basketful: as a cleave of potatoes, or of turf. [Irish.]

Now Sir Condy . . . sent out for a comple of cleures-full of the sods of his farm.

Miss Edgeworth, Castle Rackrent**, p. 49.

cleavers, n., 1. (b) Any plant of the genns Galium, such as bedstraw, goose-grass, etc., the numerous species being distinguished by appropriate qualifying names. Of native American species, G. circarans is called cross-cleavers from the cross-like arrangement of the four leaves of the whorls. The dyer's-cleavers is G. tinctorium, also called wild nadder.

cleaverwort (kle 'ver-wert), n. Same as

cleaving (klē'ving), n. In agri., a method of plowing over old ridges or 'lands,' in which each ridge is divided in the middle, the furrowslices being turned in opposite directions. Either two narrow ridges are thus formed of one old one, or each half, with half of the next, forms a new ridge with its crown in place of the former water-furrow. In the latter ease, the method is called crown and furrow plousing. Also mylitical forces Parisin. ing. Also splitting. [Great Britain.] cleekie, n. See *cleikic. cleeksman, n. See *cleiksman.

cleft!, n.—Hyomandibular cleft, in embryol. and anat., the branchial cleft between the mandibular and hyoid arches in embryo vertebrates and in adult fishes.—
Posthyoidean cleft, in embryol. and anat., the branchial eleft between the hyoid and first branchial arches in embryo vertebrates and in sdult fishes.

cleft², p. a.—Cleft hand, a congenital malformation of the hand in which the division between the fingers is

olonged into the metacarpus.

prolonged into the metacarpus. **cleik**, n, 1. (b) In mining, a hook. In former times the baskets of coal were attached to the holsting-rope by a cleik, a term which was extended to mean the whole organization for raising the coal: thus, 'stegging the cleik' meant stopping the output of coal.— **Driving**cleik. See *driving-cleik.- Putting-cleik. See *puting-cleik.

cleik-coal (klěk'köl), n. Coal as it comes from [Seotch.]

cleikie, cleekie (kle'ki), n. Same as *cleiks-

cleiksman, cleeksman (klöks'man), n.; pl. cleiksmen, cleeksmen (-men). In former times, the person who unhooked the baskets of coal

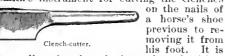
at the pit-head. Also cleikie. [Scotch.] Cleithrum, n. See *clithrum.
clematine, n. 2. In color-chem., a basic coaltar color of the azonium chlorid type. It dyes tannin-mordanted cotton a reddish violet.

clematitin (klem-a-ti'tin), n. [Clematitis + snakeroot of Virginia and Texas, Aristolochia In the Philippine Islands, a cleric who has Clematitis. It is supposed to be identical with taken orders and is dedicated to the service the alkaloid aristolochine or serpentarine found in other plants of this family.

cleme² (klēm), n. [Gr. κλήμα, a twig, < κλάν, break. Cf. clon, from the same source.] In the nomenclature of the spicular elements of sponges, a hexactine rod bearing alternate barbs on the opposite sides.

clementine² (klem'en-tin), n. [Appar. $\langle Cl\acute{e}-ment$, a French surname (†), +-inc².] Same as methylene-*violet.

clench-cutter (klench'kut"er), n. A black-smith's instrument for cutting the clenches



a small wedge-shaped piece of steel with a metal handle. Also clinch-cutter.

clench-machine (klench 'ma-shēn "), n.

clenliness, clenly, clenz, n. Simplified spell-

ings of cleanliness, etc.

Cleopatra's needle. See obelisk, 1.

Clepsydrops (klep-si'drops), n. [Gr. κλεψιόρα, value and entaining only the genus Clethra.

Cliffordian (kli-fôrd'i-an), a. Of or pertaining only the genus Clethra.

Cliffordian (kli-fôrd'i-an), a. Of or pertaining only the genus Clethra.

Cliffordian (kli-fôrd'i-an), a. Of or pertaining only the genus Clethra.

Clethra.

Clethra.

Clethra.

Cliffordian (kli-fôrd'i-an), a. Of or pertaining only the genus Clethra.

Cle ily Clepsydropidæ, having a long and narrow S.-17.

cleptic, kleptic (klep'tik), a.

Cleptos, Riepute (α. ν επίσς), α thief, $\langle κλέπτειν, steal$. Compare klepht.] Given to stealing or thieving. Cleptobiosis ($klep^*t\bar{o}$ -bī- \bar{o} 'sis), n. [Irreg. \langle Gr. κλέπτειν, steal, + βίωσις, a way of life.] A form of symbiosis ebserved between two colorium of symbiosis ebserved between two colorium of λ different species, one of which nies of auts of different species, one of which inhabits the walls between the galleries and subsists on the progeny or stores of the other W. M. Wheeler, 1901.

cleptobiotic (klep#tō-bī-ot'ik), a. Of or pertaining to cleptobiosis.

cleptocracy, kleptocracy (klep-tok'ra-si), [Gr. κλέπτης, a thief + κρατία. < κρατέιν, rule. Compare aristocracy, etc.] Thieves regarded as a ruling class; thieves collectively.

cleptophobia, kleptophobia (klep-tō-fō'bi-a),

n. [Gr. κλεπτης, a thief (ζ κλέπτεν, steal), +
-φοβία, ζ φοβέν, fear.] An abnormal dread of becoming a thief.

cleptoscope (klep'tō-skōp), n. [Irreg. \langle Gr. $\kappa\lambda\varepsilon\pi\tau\epsilon\nu$, steal, $+\sigma\kappa\sigma\varepsiloni\nu$, view.] An apparatus, fitted with prisms, which enables persons in a submerged submarine boat to ascertain what is going on above the surface of the water.

An Italian engineer, M. Triulzi, has devised a special instrument, the *cleptoscope*, whereby it is possible for the crew of a suhmarine boat to ascertain what is progressing on the surface while submerged. It comprises a tube fitted with crystal prisms in a special manner.

Sci. Amer., Nov. 23, 1901, p. 329.

clergy, n. 1. Sometimes applied to the cclesiastics, ministers, and priests of non-thristian religious systems. — Regular clergy, the body of clergy living in religious communities under a common rule, as distinguished from the clergy who have parochial charge of the latty immediately under diocesan jurisdiction.— Secular clergy, the body of clergy in charge of parishes, as distinguished from the clergy living in religious communities.

clergy-house (kler'ji-hons"), n. of the clergymen or elergyman in charge of a

church.

Clerical error, in law, a mistake in the draft or copy of a statute, record, or other instrument, inadvertently made, and so apparent upon its face that the intent is not affected.

clericalist (kler'i-kal-ist), n. One who belongs to a elerical party or who favors elericalism.

Ilis [Alfords] early training was in the evangelical chool; he was to some extent earried away by the clerischool; he was to some extent cannot be calist movement of the years 1835-42.

Dict. Nat. Biog., 1, 283.

clericalize (kler'i-kal-īz), e. t.; pret. and pp. clericalized, ppr. clericalizing. To render eleri-eal; exalt the influence of the elergy.

clericature (kler'i-kā-tūr), n. [NL. clericatura, < clericare, make a clerie, < Ll. clericus, a cleric.] Clerical position or authority.

Holy orders were sometimes assumed on account of the superior opportunities which clericature gave of improper intercourse with women.

H. C. Len, Sacerdotal Celibacy, v

of the church, but who is not a member of a monastic order.-2. In Porto Rico, a flyeatcher, Tyrannus taylori.

eatcher, Tyrannus taylori.

Clerk of works, one who superintends the erection of a building orbitidings, and who is particularly charged to see that the specifications are followed as regards the quality of the materials, the thoroughness of the workmanship, etc.; an architect's building-inspector. [Eng.]—Credit clerk, a clerk who has charge of the credit department of a business.—Lay clerk. (a) A singing-man in a cathedral or collegiate church. (b) A parish clerk. See clerk, 3.

Clerkage (klèrk'āj), n. 1. Clerk's work: clerical work.—2. An amount expended for clerkied work.—3. A number of clerks; clerks

ical work.—3. A number of clerks; clerks collectively.

clerkery (klerk'e-ri), n. 1. A counting-house.
2. Clerks collectively.
3. The calling or

office of clerk. clestine (kles'tin), n. [Gr. κληστός, κλειστός, that can be shut, + -inc¹.] In bot, a large parenchymatous cell in which raphides are often deposited.

shoe-manuf, a machine for nailing shoes with a bent wire or clench; a sole-fastening machine. The machine takes the wire from a red, corrugates it or forms it into a fastening, and hends back or clenches the ends in the sole.

Clethraceæ (kleth-rā'sē-ē), n. pl. [NL. was similar in general type to mat of the machine takes the wire from a red, corrugates it or forms it into a fastening, and hends back or clenches the ends in the sole.

Clethraceæ (kleth-rā'sē-ē), n. pl. [NL. was similar in general type to mat of the method. (Klotzsch. 1851), Clethra + -aceæ.] A fam-cliffed (klift), a. [cliff + -cd².] Possessed of dicotyledonous sympetalous plants of cliffs. the order Erreales, the white alder family, formerly included in the Erreaceæ, or heath family, cliff-house (klif'hous). n. Same as *cork-elm.

The machine takes the wire from a red, corrugates it or forms it into a fastening, and hends back or clenches the ends in the sole.

Clethraceæ (kleth-rā'sē-ē), n. pl. [NL. was similar in general type to mat of the more received. The problem.

skull, upper eanine and anterior incisors much larger than the other teeth, intercentra in the dorsal and caudal vertebræ, and double-headed anterior ribs. They occur in the Permian rocks of North America.

Clevis, n.—Downhill clevis, a brake on a logging-sled, consisting of a clevis which encircles the runner, to the bottom of which a heavy square piece of iron is welded. cliack (kli'ak), n. [Also elyack; possibly from Gael. eliathach, battle.] In Scotland and the north of England, prior to the general introduction of weaking a praching, the last elucation of receiving reachings, the last elucation of receiving reachings. duction of reaping-machines, the last sheaf or armful of grain eut on a farm in harvest-time. cliché, n. 2. A stereotyped formula; a lifeless eopy. [Rare.]

After the course of a hundred years the varieties of expression are apt to become exhausted, the forms grow hard, all the obvious motives tend to express themselves no longer as thoughts but as clickés. Encue. Brit., XXVIII. 261.

click¹, r. i. 2. To overreach, as a horse, and strike the front of the hind foot against the shoe of the fore foot, making a clicking sound.

-Clicking butterfly. See *butterfly. click-catch (klik kach), n. A device on the earriage of a spinning-mule which communieates to the spindle the motion for winding on the yarn. Nasmith, Cotton Spinning, p. 295.

clickership (klik'er-ship), n. The functions of an under-foreman who controls the work of typesetters intrusted with the composition of a book.

click-spring (klik'spring), n. A spring which forces the dog or elick of a ratelet-and-dog combination to fall into the space between teeth after the dog is lifted. The spring causes the dog to click. Nasmith, Cotton Spinning, p. 295.

Clidophorus (kli-dof ' ō-rus), n. [NL., < Gr. κλείς (κλείδ-), a key, + -φορος, < φέρειν, bear.] A genus of extinct *Pelecypoda* of the family Ledidæ, of primitive taxodont type, with teeth in a continuous series on both sides of the beak, and a elavicle, in both valves, extending from the umbones. It occurs in Silurian and

from the umbones. It occurs in Silurian and Devonian rocks. Also Nuculites. clier (kli'ér), n. [Also clyer, clyre; connected with D. klier, MD. cliere, E. Fries. klire, klir, a gland, a glandular swelling.] A glandular supplier or confilment transport the skin which swelling or serefulons tumor of the skin which occurs in various parts of the body of eattle, especially affecting those parts which have lymph-glands situated in them.

cliff¹, n. 2. The strata of rock above or between the strata of coal.—3. [Appar. orig. cliff chalk.] Hard ehalk.

Cliff . . . 4. Stone, commonly chalk, put to hinder certain portions of the Trent banks from being washed away by the tide.

Eng. Dial. Dict.

Cliff glacier. See *glacier.—French cliff, a hard kind of chalk, from the lower part of the valley of the Seine in France, used in England as a source of lime for making bleaching-powder. cliff-dweller (klif'dwel-er), n. A member of

one of the aboriginal tribes in the southwestern United States who built their dwellings in natural recesses in cliffs .- Cliff-dwellers' pottery. See *pottery.

cliff-dwelling (klif'dwel"ing), n. A dwelling

of stone on a shelf or recess of a cliff, accessi-



A Cliff-dwelling.

ble only by steep paths, steps, or ladders. Cliff-dwellings are found in many canons of the south-western l'nited States. The cave-dwellings of some Indians of northern Mexico are similar in type to the prehistoric cliff-dwellings. The culture of the cliff-dwellers was similar in general type to that of the more recent Pueblos.

cliffed (klift), a. $[cliff + -ed^2]$ Possessed of

Cliffordian (kli-fôrd'i-an), a. Of or pertaining to W. K. Clifford (1845-79), an English mathematician and philosopher.

cliffsman (klifs'man), n. One who is accustomed to elimb cliffs.

Climacograptus (klim/g-ko-grap'tus), n. [NL., (Gr.κλίμας, a ladder, + γραπτός, written, < γράφειν,
 write.] A genus of Silurian graptolites which have a row of theea or cells on each side of the stipe, nearly vertical to the central axis.

Climacteric disease, any disease which occurs at a climacteric period, as puberty or the menopause, and is related to the physical changes of that time.

climactic (kli-mak'tik), a. [Irreg. for *climactic, ζ Gr. κλλμαζ (κλιμακ-), elimax.] Of, pertaining to, or of the nature of a chimax; aseending or leading to a climax.

Give the history of development a climactic form.
Whitney, Life and Growth of Lang., p. 212.

climactical (klī-mak'ti-kal), a. Same as *climactic.

The climactical point [in the development of wireless telegraphy] was not reached in this country until Marconi arrived here and reported the yacht races in the fall of the same year.

Amer. Inventor, Dec. 15, 1903, p. 273.

C.imactichnite (klī-mak-tik'nīt), n. [Nl. ch-mactichnites, erroneously formed from Gr. κλίμαξ, ladder, + ίχνος, track (see ichnite).] An impression believed to have been made by a mollnsk erawling over the primordial beach. It occurs on sandstone beds of Cambrian age. It occurs on sandstone does of Camdrian age. climate, n.—Antarctic climate, the climate of the antarctic regions. It appears to be distinguished by heavier and longer-continued winds, and by rather less severe cold, than that of the arctic region.—Arctic climate, the climate of the arctic regions; figuratively, any very cold weather continuing for a long season.—Climate-and-crop service, the organization or division of the United States Weather Bureau which pays especial attention to the relation of the climate to crops. It pub-

any very cold weather continuing for a long season.

Climate-and-crop service, the organization or division of the United States Weather Bureau which pays especial attention to the relation of the climate to crops. It publishes monthly climate-and-crop reports for 45 divisions, called State weather services, covering all portions of the United States; also weekly reports sunmarizing the rainfall, temperature, and vegetation during the growing-season, based on the returns from about twenty thousand reporters. During the winter season it publishes monthly reports of the condition of the snow and ice. It does not publish statistics of the crops proper, but only of the climatic conditions and their influences irrespective of other considerations—Geological climate, the climate of any region during any geological period or epoch, including the slow changes with altitude, continentality, etc.

Glacial climate, the climate due to the presence of glaciers; the climate of the whole glacial period, including that of the successive glacial and interglacial times.—Interglacial climate, the climate prevailing during the intervals between the successive glaciations of any region.—Landward climate, the climate on the landward slope of a mountain or ridge. Its principal characteristics are derived from the land-breezes which descend the mountain's slope.—Optical climate. See photochemical *climate. Photochemical *c

climate. See insolation.—Teiluric climate. See solar *\timeschimate. Thermal climate. See photochemical *\timeschimate. Climatic theory, a theory that attempts to explain the secular changes of climate recognized in the study of geology. The great ice age, or glacial epoch, offered a succession of glacial and interglacial periods during which an ice-sheet covered northern Europe and North America and the snow-line in the Alps was much nearer sea-level than at present. During Tertiary time the mean temperatures that apparently prevailed in Greenland and Spitzbergen were much higher than those that now prevail there. In the Rocky Mountain region the drying up of large lakes to their present small representatives seems to show that during the Quaternary epoch there was greater rainfall and less evaporation than at present, and also a period of glaciation. These secular variations of climate have led to the development of climatological theories that have had a profound influence on the study of geology. Among these theories are that of Dubois, in which special stress is laid upon possible changes in the character and amount of the radiation from the sun; of Adhemar, which assumes the accumulation of ice at the poles to have been sufficient to displace the center of gravity of the earth and the boundaries of the ocean; of Schmick, which assumes a disturbance of the tides produced by the sun and moon, and hence a different distribution of water; of Croll, which assumes a change in the ratio of heat received by the northern and southern hemispheres consequent on the change in eccentricity; of De Marchi, which rests upon a change in the occflicient of transparency of the atmosphere for solar rays and for terrestrial radiations; of Arrhenius, which is based upon possible changes in the amount of carbon dioxid in the atmosphere and its effect on the atmospheric absorpti

and water on the earth's surface due to the rising and falling of continents or ocean beds.—Climatic zone. See ★zone. —Hinrichs's climatic index. See ★index.

Climatius (kli-mā'ti-us), n. [NL., appar. < Gr. κλίμα(τ-), a slope: see climate.] An extinct genus of acanthodean fishes, described by Agassiz from the Old Red Sandstone of Great Britain, with strongly heterocercal tail and

Britain, with strongly heterocercal tail and broad, strong fin-spines and three or four pairs of free spines between the paired fins. Climatology of soils, the investigation and study of the relations of soils to climate and organic life, especially to agricultural crops and prosperity.—Geographical climatology, the study of the distribution of climates over the surface of the earth and of the peculiarities of climate that depend upon the situation of the station relative to the ocean or continent, or upon its altitude above sea-level.

—Topographical climatology, the study of the relation between topographic forms and the climatological conditions under which they were evolved; the relation between the climates of the past and the existing orgarphy of the globe.

Climatotherapeutics (kli "ma-tō-ther-a-pū'-

climatotherapeutics (kli ma-to-ther-a-pu tiks), n. [Gr. κλίμα(τ-), a region, zone, + θεραπευτικός, of medical treatment: see thera-Same as *climatotherapy. peutic.

climatotherapy (kli*ma-tō-ther'a-pi), n. [Gr. $\kappa\lambda\mu\mu_a(\tau-)$, a region, zone, $+\theta\epsilon\rho\alpha\pi\epsilon ia$, medical treatment.] The treatment of disease by means of a favorable climate, chosen with regard to the atmospheric pressure, purity of air, rela-

tivo temperature, moisture, etc. Various questions relative to climato-therapy will also be discussed. Monthly Weather Rev., March, 1903, p. 138. by the use of both hands and feet; figuratively, to retrest from some point, position, statement, decision, or claim that has been found untenable. [Colloq, U. S.]

climb-down (klim'doun), n. Descent; the abandonment of a high position taken on some point or question, when it has been found untenable or unacceptable. [Colloq.]

climber¹, n.— Watchspring climber, a liana with thin, spirally coiled, naked tendrils, which become thicker and harder upon stimulus of contact. It is tropical only. See tendril-climber, under climber¹, 2.

climbing-fish, n. 2. A gobied fish of the north of New South Wales and of Queensland, Periophthalmus australis. Also called hoppingfish and skipper.

clinamen (kli-nā'men), n.; pl. clinamina (kli-nam'i-nā). [L. elināmen, < *clināre, bend: see cline, incline.] 1. Inclination or tendency to turn aside; bias.—2. An event without any cause: in reference to the Epicurean theory of the causeless swervings of the atoms.

clinatory (klin'a-tō-ri), n. [NL. *clinatorium, \(L. *clinarc, incline: see clinant, cline. \) An instrument for ascertaining the position of a line or plane with reference to its azimuth and

altitude; a declinator. N. E. D.

clinch-cutter, n. See *clench-cutter.

clinckaert (klink'ärt), n. [MD.] A gold
coin of Holland of the 14th and 15th centuries.

It corresponded to the French chaise, cling, n. 3. A dysentery or bloody flux of sheep: a frequently fatal inflammation of the large intestine of sheep, accompanied with fever and fluid discharges from the bowels .-4. In hort., a peach, nectarine, or apricot in which the flesh adheres strongly to the stone; a clingstone.

clinger (kling'er), n. One who clings: applied sometimes to persons of a stationary social type or class, who depend on others for support and leadership. Patten, Develop. of

Eng. Thought, p. 24. clingfish (kling fish), n. Any species of fish belonging to the suborder Xenopterygii, small fishes living chiefly in shallow pools among the rocks, and having a ventral sucking-disk with which they are enabled to cling to any object.

clinic, n. 4. Same as dispensary, 2. clinician, n. 2. A practical physician whose methods are based on experience rather than on theory; also, a teacher of medicine whose method of instruction is clinical rather than didactic.

clinicopathological (klin"i - kō - path - ō - loj'ikal), a. Relating both to the symptoms of disease and to the lesions produced by it.

Thus . . . we have . . . the *clinicapathological* examinations by Vialet, Déjérine, and Henschen, of cases of disease in man. *l'hilos. Trans. Roy. Soc.* (London), ser. B, 1898, p. 2.

clinium (klin'i-um), n.; pl. clinia (-ā). [NL., dim., ζ Gr. κλίνη, a bed.] 1. Same as clinan-thium.—2, A sporophore of some fungi. Clink² (klingk), n. [Prob. orig. a jocular term, meaning a place where one hears the 'clink' of bolts, bars, or chains: see clink¹, n. Names

of prisons are often joeular; ef. jug, quod, cage, and jail ('little eage').] 1. The name of a prison or lockup in Southwark, London, often mentioned in the sixteenth century and later.

Hence—2. [l. c.] Any prison.

clinker, n. 9. In ericket, a ball bowled exceedingly well. [Slang.]—Sterile clinker, a name given in sewage-disposal works to the porous bed which is made of cinder freed from soluble elements. Such porous or absorptive layers not only withdraw color from solution, but also take in some of the nitrogenous compounds.

Nature, Dec. 10, 1903, p. 130.

clino-anemometer (khi/no-an-e-mom'e-ter), n. The inclined-blade anemometer of Dechev-rens, established in 1889 in the Eiffel Tower in Paris, and in 1898 at the observatory of the Isle of Jersey. It is designed to measure the vertical movement of the wind, as well as the horizontal whence the angular inclination of the wind to the horizon may be computed.

clinocephalic (kli "nō-se-fal'ik), a. \[
 \]
 \[
 \text{Gr. κλίνειν, incline, + κεφαλή, head.} \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 saddle-like depression behind the coronal suture brought about by premature synostosis of the parietal bones with the sphenoid or temporal bones.

clinocephalism (klī/nō-sef'a-lizm), n. Same as *clinocephaly.

clinocephalous (klī-nō-sef'a-lus), a. Same as $\star clinocephalic.$

clinocephalus (klī-nō-sef'a-lus), n.; pl. clino-cephali (-lī). [NL.] A person with a clino-cephalie skull.

clinocephaly (kli*nō-sef'a-li), n. [Irreg. \langle Gr. $\kappa\lambda i\nu\epsilon i\nu$, bend. $+\kappa\epsilon\phi\alpha\lambda j$, head, $+\cdot y\beta$.] In craniol., a pathological deformation of the eranium resulting from a premature synostesis of the parietal bones with the alisphenoids and with the temporal bones, and characterized by a depression of the anterior portion of the parietal bones, behind the coronal suture.

clinodactyly (kli "nō-dak'ti-li), n. [Irreg. (Gr. κλίνειν, bend, + δάκτυλος, finger, + -y³.] A deformity of the hand marked by permanent deflection of the fingers.

clinograph (klī'nō-graf), n. An apparatus for determining the deviation of bore-holes from the vertical. McGeorge's clinograph contains a magnetic needle and a plummet. The apparatus is filled with melted gelatin and lowered to any desired point in the bore-hole. The gelatin cools and holds both plummet and needle fast. By this means a complete survey of the and needle fast. By this means a complete survey of the hole can be made. Notten's clinograph uses weak hydrofluoric scid, partly filling a glass tube, for the same purpose. The scid, after about half an hour, etches the inside of the tube and thus marks the inclination. Also

It has been abundantly proved that bore-holes frequently deviate very considerably from the straight path they were intended or supposed to take, and in some cases it becomes very important to determine the amount and direction of the deviation. *Encyc. Brit.*, XXX. 763.

called clinostat.

clinohedral (klī-nō-hē'dral), a. [Irreg. \langle Gr. κλίνειν, incline, + εδρα, base.] Having oblique bases or faces: applied to a class of crystals, belonging to the monochinic system, which have a single plane of symmetry but no axis of symmetry. Clinohedrite belongs to this class. See *symmetry. Also called the domatic and gonioid class.

clinohedrite (klî-nē-hē'drīt), n. [clinohedr(al) + -ite2.] A basic silicate of zinc and calcium, analogous te calamin in composition, but occurring in colorless monoclinic crystals of strongly oblique habit: found at Franklin Furnace, New Jersey.

clinometer, n. 3. In ophthal., same as *clinoscope.—4. An instrument used to determine the heel or pitch of a vessel. When placed athwartships it shows the former; when placed foreand-aft, the latter.—Clinometer heel the heel of a vessel as indicated by a clinometer. See ★clinometer, 4. Clinopistha (kli-nō-pis'thā), n. [NL., ⟨ Gr.

κλίνειν, incline, + ὁπισθεν, at the back, behind.] A genus of primitive or degenerative prionodesmaceous Pelecypoda from the Carboniferous rocks.

Clinopodium (kli-no-po'di-um), n. [NL. (Linnews, 1753, adopted from Tournefort, 1700), \langle Gr. $\kappa \lambda i \nu \eta$, bed, $+ \pi o i \varsigma$ ($\pi o \delta$ -), foot. The branches of the type species, C. vulgare, bearing separated orbicular clusters of flowers, were likened to the legs of a bed.] A genus of dicotyledonous plants of the family Menthacen. See Calamintha.

clinorhomboid (klī-nō-rom'boid), a. Same as

clinorhomboidal (klī "no-rom-boi'dal), a. Same as *clinorhomboid.

clinoscope 'nō-skōp), n. [Irreg. < Gr. κλίνειν, incline, + σκοπείν, view.] An appliance for estimating the inclination of the vertical meridians of the cornea.

clinostat, 2. See *clino-

graph. clinozoisite (klī - nō - zō 'i -sīt), n. [Gr. κλίveiv, incline, + E. zoisite.] A monoclinic member of the zoisite-epidote group, near zo-isite in composition, but dif-

stion, but differing in crystallization.

clinure (klin'ur), n. [L. *clin(are), incline,
+ -ure,] Inclination, specification, clination, specification, specification clination, spe-

cifically of a vector, relative to some set of coördinates.

Clinoscope.

Many of the new words he [James Thomson] coined, 'radian,' 'numeric,' 'torque,' 'interface,' 'clinure,' 'posure,' &c., are great helps both in thinking and teaching.

Proc. Brit. Ass'n Advancement of Sci., 1902, p. 511.

Clio, n. 3. In astron., asteroid 84, discovered by Luther in 1865.

Olionopsidæ (kli-ō-nop'si-dē), n. pl. [NL., < Clionopsis + -idæ.] A family of gymnosomatous pteropods. The body is barrel-shaped; suckers and buccal appendages are lacking; the proboscis is very long; the posterior gill is tetraradiate; and the skin is not pigmented. Clionopsis is the only genus.

Clionopsis (klī-ō-nop'sis), n. [Nl..] The typical genus of the family Clionopsidæ. Troscucl, 1854.

clip1, n. 7. In angling, a salmon-gaff.-8. Same as *cartridge-clip.

To fill the latter [the Kropatschek rifle] rapidly the cartridges are carried packed in bundles of from three to six, in sheet metal or cardboard receptacles. These receptacles are of two kinds, "clips" or "chargers." The clip, employed in the Mannlicher system, is used with a magazine with parallel walls, being held down in the magazine against the pressure of the magazine platform spring by mesns of a spring catch.

Encyc. Brit., XXXII, 651

clip3 (klip), n. Rate of rapid motion, as of horses or yachts: as, a three-mile clip; a fifteen-knot clip. [Colloq.] clip-drum (klip'drum), n. A drum, used frequently on printing-presses, which has clips

to catch the edge of a sheet of paper and carry it around to a certain point where it is taken

off the drum by another device. clip-fish (klip'fish), n. See clippfish. clip-forceps (klip'fior'seps), n. A small forceps having blades with broad ends, closed by a spring-catch, used to occlude the end of a

divided artery during a surgical operation. Encyc. Bril., XXXIII. 76. clip-gear (klip'ger), n. In mach., a catch-gear; a spring-catch or -hook and its operating-rod. clip-kingbolt (klip-king'bolt), n. A form of kingbolt in which the body is attached to thin

it to the axle-bed. The clip-end encircles the axle and bed, and thus renders a hole through the axle unnecessary. clip-nut (klip'nut), n. Same as *clasp-nut. clipped (klipt), p. a. [Also clipt; < clip2 + -ed2.] Cut off by elipping; cut short: having the ends or edges cut off.—Clipped speech, a defect of speech noted in certain cases of general paralysis, in which the final syllsble or terminal consonant of a word is not pronounced.

clipping-comb (klip'ing-kom), n. comb of horn, celluloid, or German silver, used for holding up the hair of a horse while it is being clipped.

clipping-machine, n. 2. A device for shearing rivets or plate-edges in ship-building: usually driven by air, and then known as a pucumatic clipping-machine.

clip-rod (klip'rod), n. A rod having one or more projections to catch some part of a mecha. nism. Such roda are used on some forms of Corliss valve-gear to open the admission-valve.

clique (klek), v. i. [clique, n.] To form cliques or exclusive sets; associate together in cliques, usually with unworthy or selfish motives. cliquery (kle'ker-i), n. [clique + -ery.] Disposition to separate into cliques; the methods or actions of a clique; selfish exclusiveness.

The design which . . . we commented upon when eliquerie in all its lurking places was subsidized to thrust this great work of art . . . into the metropolitan cathedral.

Sat. Rev., July 16, 1859, p. 73.

cliquey (klēk'i), a. [clique + -y1.] Disposed to form small exclusive sets or cliques; charac-

teristic of cliques and cliquery.

clisiophyllid (klis-i-ō-fil'id), a. and n. I. a.

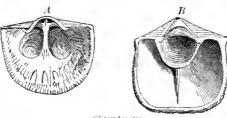
Of or pertaining to the fossil coral genus Clisiophyllum.

II. n. A member of the genus Clisiophyllum. Clisiophyllum (klis i-ö-fil'um), n. [NL., c Gr. κλίσις, a bending, + φίλλον, a leaf.] A Gr. κλίσις, a bending, + φίλλον, a leaf.] A genus of cyathophylloid tetracorals occurring in the Paleozoic rocks.

The rateozote rocks.

Clisiospira (klis"i-ō, -spī'rā), n. [NL., ζ Gr. κλίσις, a bending, + σπείρα, a spire.] A genus of platypodous gastropods of the family Xenophoridæ, occurring in the Silurian rocks. clistantherous (klis-tan'ther-us), a. [Gr. κλειστός, that can be closed, + NL. anthera, anther, + -ous.] Hemiclistogamous with the stamens included: said of a class of flowers. clistothecium (klīs-tō-thē'sium), n.; pl. clistothecia (-siä). Same as elistocarp.

Clitambonites (klit "am-bō-nī'tēz), n. [NL., ⟨Gr. κλιτίς, a slope, + ἀμβων, a ridge, boss.]



Clitambonites.

Cistambonstes squamatus, Pahlen. Ordovician; Kuckers, Esthonia, A, interior of dorsal valve, showing edge of the chilidiu interior of ventral valve, showing spondylum, septimi, artidium (after Pahlen). (From Zittel's "Palæontology.")

A genus of Paleozoic brachiopods with subpyramidal valves having their apices at the summits of the broad cardinal areas. tral valve bears a perforate deltidium and an internal spon-dylinm supported by a median septum; the dorsal valve has a chilidium. It occurs in Silurian rocks.

clitelliferous (klit-e-lif'e-rus), a. [NL. clitel-lum + L. -ferre, bear.] Bearing or provided

with a clitellum: as, a clitelliferous worm.

clithridium (kli-thrid'i-um), n.; pl. clithridia

(-\vec{n}). [NL., \leftrightarrow \kappa \chap any bacterium having the outline of a figure eight or a keyhole.

clithrophobia (klith-rō-fō'bi-ä), n. [NL., also eleithrophobia, ζ Gr. κλείθρον, a bar for closing a door, pl. κλείθρα, bars, a lattice: see *elithrum.] A morbid dread of being in a small room or other confined space

clithrum (klith rum), n.; pl. clithra (-rä). [NL., also cleithrum, < Gr. κλείθρον, a bar or bolt for

a door; see clathrate.] 1. certain Pelecypoda, a modification of the hingeteeth to form one or moro erectproperonggos mitting only the vertical metion the smaller valve, as in



of Opercular Valve of Radiolites Bournoni, Desm.
ler Upper Cretaceous (Dordonian);
... St. Mametz, Dordogne.

valve, as in the extinct anterior, and a posterior myophore: Rudistee. In Central autral size (after Bayle). (

Zittel's "Palæontology.") genus

Hippurites this structure is extravagantly developed.—2. In anat., one of a pair of bones found in the shoulder-girdle of the stegocephalous amphibians and of some theromorphous reptiles. Each clithrum articulates with the clavicle, extends from it dorsally, and may have its posterior horder connected with a scapula. Its exact homologies are s little uncertain.

clition (klit'i-on), n. [NL., < Gr. *κλιτίον, assumed dim. of κλίτος, equiv. to κλιτύς, a

slope, ζκλίνευ, slope, incline: see cline, clinic.] In craniom., the median point of the highest part of the clivus on the inner surface of the

clitochore (klit'ō-kōr), n. [Gr. κ/ιτος, a slope, + χωρεῖν. spread abroad.] In phytogeog., a plant whose seeds are distributed by means of plant whose seeds are distributed by means of gravity, either by falling in steep places or by detachment of soil, etc. F. E. Clements.

Clitocybe (kli-tos'i-bē), n. [NL. (Endlicher, 1836), ⟨Gr. κλιτός, sloping, + κυβη, head. The name alludes to the convex pileus in its young

state.] A genus of white-spored agaries having no annulus or volva and the gills mostly decurrent. C. laccata is a common and widely

distributed species.

clitter (klit'er), r. i. [Imitative variation of clatter. Cf. chitter, chatter.] To emit a short, shrill, strident call or note, as a grasshopper; make a slight rattle.

The shrill cleala clittering from below.

Lord Houghton, Never Return! 1. 142. clitter (klit'èr), n. 1. A slight rattling noise.
—2. Same as *clatter, n. Compare clutter², n. [Prov. Eng.]

clival (kli'val), a. [clivus + -all.] to the clivus in any sense. Buck, Med. Hand-

book, II. 160.

clivus, n. 2. The superior surface of the vermis of the cerebellum.

clk. A contraction of clerk.

cloak, n. 3. In mollusks, same as mantle or pallium.

cloak-fern (klōk'fern), n. See fern. cloche² (klōsh), n. [F., a bell or bell-jar: see clock², n.] A bell-jar or bell-glass under which plants are grown. The term is searcely used in American writings, but is frequent in English horticultural

works.

clock 'a.—Black Forest clock. See *cuckoo-clock.—Clock correction, the quantity which must be added (algebraically) to the time indicated by the clock in order to obtain the true time. It is to be subtracted numerically if the clock is fast, added if it is slow.—Clock error, the same, numerically, as clock correction, but usually, by clock-makers, reckoned with the opposite sign, that is, + if the clock is fast, — if it is slow.—Diapason Clock, a clock which has a tuning-fork as a regulator.—Eight-day clock, a clock which goes for eight days with a single winding.—German clock, a clock unde in Germany. Those made in the sixteenth and seventeenth centuries were often of elahorate construction, some containing automatic figures of persons or animals. One of the most famous of these is the clock in the cathedral at Strasburg.

Shee takes her selfe asunder still when shee goes to bed

Shee takes her selfe asunder still when shee goes to bed ... and about the next day noone is put together againe, like a great Germane Clocke.

B. Jonson, Silent Woman, iv. 2.

clock², v. t. 2. To time, as contestants in a
race. [Colloq.]

clock-bird (klok'berd), n. A large Australian kingtisher, Dacelo gigas: so named on account of its calling at sunrise and sunset. The bird is more commonly known as the laughing jack-

clock-calm (klok'käm), n. A flat calm, no breath of air stirring; an unruffled surface of

water. Smyth, clock-contact (klok'kon"takt), n. A contact of the pendulum or other part of a clock with a suitable arrangement for making or breaking a galvanie circuit.

a garvaine energit.

Clock-face experiment, an experiment made to determine whether a person can make a drawing of an ordinary clock-face with roman numerais. It is intended as a test of the power or the habits of observation on the part of the average person. It is said that the majority of persons fail, notwithstanding the assumed familiarity of so simple an object. simple an object

clock-golf (klok'golf), n. See *golf. clock-hammer (klok'ham"er), n. The lever, and its knob, by which the bell of a clock is struck.

clock-meter (klok'mē"tèr), n. In clect.. an ampere-meter, volt-meter, or wattmeter actuated by clockwork.

clod1, n. 8. A butchers' term for a cut of beef from the fore quarter opposite the cross-rib.

The proportion of bone in meat as ordinarily purchased will vary from aimost nothing in "shouldet-relot" and round" to as much as 40 or 50 per cent. in the shank.

Energy. Brit., XXVII. 446.

clod-coal (klod'kōl), u. Strong homogeneous

coal. [Scotch.] clogger (klog'er), n. One whose business is

the making of clogs or wooden shoes, or the wooden soles for such shoes.

cloisonless (kloi'son-les), a. [cloison + -less.]Without cloisons or wire cells: as, a cloisonless enamel.

Then arose the so-called "cloisonless enamels" (musen-jlppo). They are not always without cloisons. The design is generally framed at the outset with a ribbon of

thin metal, precisely after the manner of ordinary closonné ware. But as the work proceeds the cloisons are hidden—unless their presence is necessary to give emphasis to the design—and the final result is a picture in vitrified enamels.

Encyc. Brit., XXIX. 730.

Cloistered vault. See *rault1. cloistered-heart (klois-tèrd-hart'), n. The closed gentian, Gentiana Andrewsii: the essential organs of the flower are, as it were,

cloistered within the closed corolla.

clon (klon), n. [Also clone; \ NL. *clōn, \ Gr.
κλω, a twig or slip used for propagation; akin to κλάδος, a twig, stip, branch, ζ κλάν, break.] A group of cultivated plants the different individuals of which are simply transplanted parts of the same seedling individual, the propagation being altogether by the use of vegetative parts, such as buds, grafts, cuttings, suckers, tubers, bulbs, etc. The various sorts of apples, potatoes, chrysanthemums, etc., known as varieties are, in a more restricted sense, clons.

The closs of apples, pears, strawberries, etc., do not propagate true to seed, while this is one of the most important characters of races of wheat and corn. H. J. Webber, in Science, Oct. 16, 1903, p. 503.

clonal (klô'nal), a. [clon + -all.] Relating or pertaining to, or having the characters of, a clon.

The differentiating clonal characters of chrysanthemums are mainly in the form and color of the flowers.

H. J. Webber, in Science, Oct. 16, 1903, p. 502.

clone² (klōn), n. [Gr. $\kappa\lambda \delta \nu$, a twig, slip; related to $\kappa\lambda \delta \delta \sigma_c$, a branch: see *clon.] 1. Same as *clon.—2. In the nomenclature of the spicular elements of sponges, one of the branches of a spicule: generally restricted to tetraxial forms. Clonic contraction. See *contraction.

clonism (klon'izm), n. [clon(ie) + -ism.] Clonie

spasm.

clonome (klō'nōm), n. [clone² + -ome.] In the nomenclature of the spicular elements of sponges, the three similar arms of a *trider which see)

cloque (klōk), n. [F., < Picard cloque, a bell, etc.: see clock².] A name in France of a disease of the leaves of the peach.

*Another fungous disease commonly known as cloque, probably due to some species of Taphrina or Exoascus, was receiving attention. The trouble is mentioned as affecting peach trees. It causes the leaves to curl in a manner similar to that which is only too frequently seen in America.

E. G. Lodeman, The Spraying of Plants, p. 47.

close, $r.\ t.-$ closed basin. See $\star basin.$ close², a. 17. In cribbage, noting eards which are near together, so that sequences are poscioth-dress sible, such as the 5 and 7.—18. Formed or ing, 2 (d). pronounced with a partial closing of the lips: clothe, v. t. as, a close vowel.

close-grained (klos'grand), a. Having the constituent grains, fibers, or elements closely compacted together; of closely compacted or

dense structure or texture.

close-mouthed (klōs'montht), a. Sparing of

speech; reticent: as, a close-mouthed person. close-place (klös'plās), n. In mining, a narrow drift without separate airway for venti-[Scotch.]

close-reefed (klos'reft), p. a. Having the last reef taken in: noting the condition of a vessel when there are no more reefs left to be taken in the sails.

closer-on (kłó'zėr-on"), n. In shoemaking, one who stitches the different parts of the upper together.

close-wing (klos'wing), n. A popular for any moth of the family Crambidie. A popular name

closing-hammer (klō'zing-ham"er), n. A hammer used by boiler-makers for bringing together the plates at the seams of boilers before riveting

closing-up (klo'zing-up"), n. 1. The placing closing-up (klo'zing-up"), n. 1. The placing of the top-box or cope on a foundry mold in preparation for easting. The cope must be clamped or weighted, however, before the mold is poured.—2. The heading or burring-over of a rivet, either by hand or by a machine. The length of rivet required for closing-up in hand-riveting is one and one-fourth diameters for snap and conical heads, one diameter for countersunk rivets, and from one-ighth to one-quarter inch more than these for machineeighth to one-quarter inch more than these for machinedriven rivets

closing-work (klō'zing-werk), n. Anv device. such as a door, valve, etc., which closes off or

Clostridium (klos-trid'i-un), n. [NL., dim. < loom. Gr. κλῶστρον, a elue of thread; cf. κλωστήρ, a cloth-looking (klôth'lůk"ing), n. The exami-

spindle.] 1. A supposed genns of baeteria spinder.] A supposed give the local factor of the purpose of keeping it up to different authors.—2. [l. c.; pl. clostridia (-\tilde{u}).]

A term applied to certain bacteria to describe their spindle-like shape.

Thus some bacilli resemble diplococci, others have a three control describes the surface of something else, as to the board now usually classed under other genera by different authors.—2. [l. c.; pl. clostridia (-§).]

Thus some bacilli resemble diplococci, others have a drumstick form, while others have a central, clostridium enlargement.

Jour. Exper. Med., V. 212.

clostrum (klos'trum), n.; pl. clostra. Same as

clot, 1n.—Ante-mortem clot, a clot formed in the heart or a rata just before death.—Laminated clot, a clot formed in layers by successive deposits of fibrin.—Plastic clot, a mass of cells given of from the intima of an artery at the point of ligature, the organization of which causes the permanent obliteration of the vessel.—Postmortem clot, a clot formed in the aorta or heart just after death.

cloth, n. 7. Naut., a breadth of canvas; one

cloth, n. 7. Naut., a breadth of canvas, one of the breadths of canvas in a square or fore-and-aft sail: a general term in relation of the breadths of canvas in a square or fore-and-aft sail: a general term in relation to the sails of a ship.—All cloth made, full sail set.—Cloth in the wind, so close to the wind that the sails shake or lift.—Cloth money. See *money.—Cloth orange. See *crangel.—Cloth red, B, 3B, G, 3G, O, and R. See *red!.—Cloth-sampling scale. See *scales.—Faced cloth, cloth, particularly woolen cloth, that is finished with a lustrous face, as broadcloth.—Henrietta cloth, a plain-back fabrie with a lustrous finish and twilled face, used for women's dresses. It has a silk warp and a wool weft, or it may be all wool.—Lady's cloth, a fine, wide, and closely woven wool flannel, slightly napped and face-finished, for women's wear.—Little cloth, limited sail.—Oriental cloth, a smooth, face-finished variety of woolen cloth.—Three cloths in the wind, a mildly intoxicated condition. Also three sheets in the wind.—To carry much cloth, said of a ship when her yards are long and her sails correspondingly broad.—Willing cloth, a face-finished broadcloth, valued especially for its fast color and permanent finish, nsed for army and navy uniforms, liveries, and carriage linings: named after Johann Willing, Lennep, Germany.—Cloth-beam (kloth'bem), n. 1. A weighingbeam for ascertaining the weight of a yard of cloth by weighing a whole piece. A given number of varies of cloth are weighed, and when the beam eloth by weighing a whole piece. A given number of yards of cloth are weighed, and when the beam balances, the weight on the beam indicates, by one set of marks, the weight in ounces and tenths of a single yard.

— 2. That roll of a loom upon which the cloth

is wound as it is woven.

cloth-brown (klôth'broun), n. Either of two
mordant-acid coal-tar colors (R and G) of the diazo type, prepared by combining diazotized benzidine with salicylic acid and a naphthol derivative. They dye wool brown in an acid bath. The shade produced is much faster when after-cbromed.

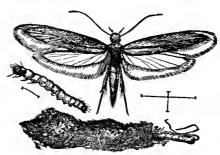
cloth-dresser (klôth'dres"er), n. One who is employed in finishing cloth for the market, as

napping, shearing, brushing, pressing, etc. cloth-dressing (klôth'dres"ing), n. See dress-

4. Naut., to eover with canvas: clothe, v. t. 4. Naut., to cover with canvas; rig.—To clothe the bowsprit, to set up its shrouds and bobstays.—To clothe the lower masts, to give a great drop to the courses of the lower masts, that is, to bring them well down toward the deck.—To clothe a ship with canvas, to carry all sail.

clothes-louse (klōthe'lous), n. A louse, Pediculus restimenti. Also called body-louse.

clothes-moth, n.—Naked clothes-moth, a fineid moth, Tineola biselliella, occurring in Europe and the



Naked Clothes-moth (Tineola biselliella). Moth, larva, cocoon, and empty pupa-skin, much enlarged. (Riley, U. S. D. A.)

United States, whose larva, feeding on woolen goods and fur, makes neither a case nor a gallery, although spinning a certain amount of silk.—Tube-huilding clothesmoth, a tincid moth, Tricophaya tapetzella, occurring in Europe and the United States, whose larva makes a gallery composed of silk and fragments of the cloth on which it feeds.

clothing¹, n. 5. In saddlery, blankets of any kind used on horses.

cloth-knife (klôth'nif), n. A circular knife or

obstructs a passage or an opening.

closter (klos'ter), n. [Gr. κλωστήρ, a spindle.]

A spindle-shaped cell, of frequent occurrence in wood. Also clostrum.

COVIDENTIAL CROSS OF THE CONTRIBLE (which mit), n. Arcticular structure disk-knife used in cutting cloth, paper, cork, leather, ctc.

cloth-looker (klôth'lùk"er), n. One who examines or inspects cloth as it comes from the

nation or inspection of cloth as it comes from

covers in bookbinding.
cloth-press, n. 2. A press for baling cloth.
cloth-presser (klôth ' pres # ér), n. One who
operates a cloth-press.

clottage (klot'āj), n. [elot + -age.] The formation of a clot or clots.

clotting-beetle (klot'ing-be n tl), n. A wooden mallet or hammer used in breaking up clods that remain unbroken after plowing and harrowing. [Prov. Eng.]

clotule (klot'nl). n. [Irreg. $\langle clot + -ule.$] A little clot. Geikie, Text-book of Geol., p. 878. cloture (klô'tür), v. t.; pret. and pp. clotured, ppr. cloturing. To apply the cloture to: as, to cloture a bill in Parliament. Also spelled clôture.

clotweed (klot'wed), n. Same as clot-bur, 2. clou (klö), n. [F., a nail, peg: see clore4.] That which arrests and holds the attention or the interest; the strong point; the chief attraction; the peg on which success depends.

Surrounding these exhibits of machinery in motion are Surrounding these exhibits of machinery in motion are the displays of finished goods, each containing some "clou," such as a \$5,000 blanket in the blanket section and a combined exhibit made by the costumers in a pavilion known as the Pavilion of Costumes and Fashions, in which are found the latest and best creations in women's dress and millinery.

Amer. Inventor, Aug. 1, 1904, p. 337.

and a combined exhibit made by the costunes in a payilion known as the Payilion of Costunes and Fashions, in which are found the latest and best creations in women's dress and millinery.

Amer. Inventor**, Aug. 1, 1904, p. 237.

**Cloud!*, n. 1. The classified under the headingshere defined: (1) Cirrua (abbreviated Ci.), isolated feathery clouds of hie, fibrous texture, generally of a white color, frequently arranged in bands which spread like the meridians on a celestial globe over a part of the sky and converge in perspective toward one or two opposite points of the horizon. In the formation of such bands cirro-stratus (Ci. S.), a fine whitish veil, sometimes quite diffuse, giving a whitish appearance to the sky, and called hy many cirrus-haze; sometimes of more or less distinct structure, exhibiting tangled fibers. The veil often produces halos around the sun and moon. (3) Cirra-cumulus (Ci. Ci.), Recey clouds; small white balls and wisps, without shadows or with very fine shadows, usually arranged in groups and often in rows. (4) Alto-cumulus (A. Ci., dense, fleecy clouds; larger whitish or grayish balls with shaded portions, grouped in flocks or rows, frequently so close together that their edges meet. The various balls are generally larger and more compact (passing into strato-cumulus) toward the center of the group, but more delicate and wispy (passing into cirro-cumulus) on its edges. They are very frequently arranged in lines in one or two directions. (5) Alto-stratus (A. S.), a thick veil of a gray or bluish color, exhibiting in the vicinity of the sun and moon a brighter portion, which, without causing halos, may produce coronae. This form shows gradual transitions to cirro-stratus, but may have only half the altitude. (6) Strato-cumulus (S. Cu.), large balls or rolls of dark cloud which frequently cover the sky, especially in whiter, and give it at times an undulatory appearance. The layer of strato-cumulus is torn up into small patches, or if low fragments of cloud are floating much below ag gr

cloud

termined for numerous portions of the globe. It varies with the temperature and moisture of the air, and therefore with latitude and continentality. Among the methods of determining the altitude are the following: (a) Bernoulli's method (144), which consists in determining the method is of determining the altitude are the following: (a) Bernoulli's method (144), which consists in determining the time and the depression of the sun below the horizon, when the sun's rays first or last tonch a given cloud-whose angular altitude and azimuth are also observed simultaneously. A convenient method of calculation is view by Zenker in line, which consists in observing the location on the map of the shadow of a cloud and at the same time observing the altitude of the sun. The formulanced for calculation are given in Abbe's "Meteorological Apparatus and Methods" (1857). (c) The kinematic method (employed in connection with Abbe's and the content of the mapparent unconnection with Abbe's and the content of the cloud of the cloud of the cloud and the connection with Abbe's and the content of the cloud and the connection with Abbe's and the content angular velocity of the cloud at the zenith, whence the altitude of the cloud at the zenith, whence the altitude of the cloud at the zenith, whence the altitude of the cloud at the zenith, whence the altitude of the cloud the depression of the dev-point extractions and the content of the cloud at the zenith, whence the altitude of the base is qual to the depression of the development of the cloud of the cloud at the zenith, whence the altitude of the base of a cloud, which assumes that the altitude of the base of a cloud, which assumes that the altitude of the base of a cloud, which assumes that the altitude of the base of a cloud, which assumes that the altitude of the base of a cloud, which assumes that the altitude of the base of a cloud, which assumes that the altitude of the base of a cloud, which assumes that the altitude of the base of a cloud, which assumes that the a

cloud-belt (kloud'belt), n. 1. A zone around the earth covered by clouds; the zone in which the cloudiness is a maximum; specifically, the equatorial zone. - 2. The belt or ring of clouds itself; a cloud-ring; a belt of clouds crossing a planet, as Jupiter, Saturn, etc.

cloud-berg (kloud'berg), n. A mountainous mass of cloud which looks like an iceberg on the distant horizon.

cloud-blower (kloud'blo "er), n. A tubular pipe of the North American Indians: so called when used in religious ceremonials, on account of the symbolic significance of the puffs of

cloud-camera (kloud'kam"e-rä), n. An apparatus for observing the image of a cloud, formed by a lens in a dark chamber, in order to determine its altitude, motion, size, or internal changes. In the cloud-camera of Vettin (1860) the camera is mounted on a horizontal axis adjuatable to any apparent angular altitude. The elaboration of this instrument conatitutes the photogrammeter perfected for use in the cloud-observation work of the International Meteorological Committee in 1896-97, and for topographical surveys. See *photogrammeter and nephoscope.

cloud-chart (kloud'chart), n. One of a series of daily weather-maps showing the quantities, kinds, and motions of the clouds over the area of country covered by the ordinary weatherman.

clouded (klou'ded), p. a. 1. Covered with clouds; obscured by clouds: as, a clouded sky, 2. Marked by dark, vague, irregular spots:



Clouded Tiger-cat (Felis nebulosa).

as, a clouded cane; a clouded leopard or tigercat.—Clouded locust. See *locust. cloud-firing (kloud'fir"ing), n. The attempt to procure rain in seasons of drought, or to ward off destructive hail-storms, by the firing of cannon.

Cloudy day, a day in which clouds prevail; as used technically by the United States Weather Bureau, a day in which the average obscuration between sunrise and sunset is $\frac{\pi}{10}$ or more.—Partly cloudy, as used technically by the United States Weather Bureau, marked by a state of cloudiness ranging from 3 to 7 on the cloud-scale of 10. See scale of *cloudiness.

cloudy-wing (klou'di-wing), n. An American hesperiid butterfly, Thorybes pylades, which has a wide distribution. It is brown in color, with small white spots on the fore wings. Its larve feed on clover. Also called northern cloudy-wing.—Southern cloudy-wing, an American hesperiid butterfly, Thorybes bathyllus, which ranges from West Virginia to Florida and westward to Kansaa and New Mexico. Its larve feed on wild heans and other leguminous herbs.

clove3, n. 2. A cleft; an opening: as, the clove in the roving-carriage of a cotton-jenny.

clovene (klô'vēn), n. [clore4 + -cnc.] A sesquiterpene, C₁₅H₂₄, obtained by heating caryophyllene hydrate with phosphorus pentoxid. It boils at 261-263° C.

sesquiterpene, C₁₅H₂₄, obtained by heating caryophyllene hydrate with phosphorus pentoxid. It boils at 261-263°C.

clover, n., 1. For some of the most useful or otherwise noteworthy true clovers of the western United States, see annual red *clover*, bear***clover*, Beckwith***s*clover*, bult**clover*, and sour **clover*. These include the most important of several species used raw as food by the California Indians.—Alexandrian clover. See *Trifotium and *serseem*.—Alsatian clover*, the alsike clover*, Trifotium hybridum*.—Alsike clover*. See **Alsike*.

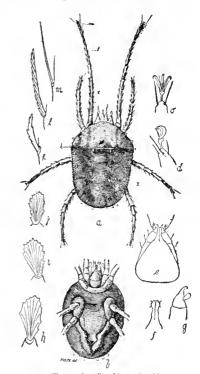
—Annual red clover*, Trifotium involucratum, widely distributed through the Rocky Mountain region, and much the most valuable of the annual species. Also called purple clover*.—Bear-clover*, Trifotium virescene, a Californian species of some forage value and a favorite among the Indians for eating raw. All parts of the plant are sweet (hence also known as sweet clover*), and the flowers and seed-pods as well as the herbage are caten. It is considered to be the most common cause of bloat; hence it is sometimes called bloat-clover*. Bear-clover is also a local Californian name of Chamsebatia foliolosa. See **tar-weed*, 2.—Beckwith's clover*, Trifotium Beckwithia*, a Rocky Mountain species of low elevations, ranging to South Pakota, valuable for pasture and hay: from its resemblance to T. pratense*, sometimes called wild red clover*.—Bersin clover*. See Trifotium*—Bloat-clover*. Same as bear-**elover*.—Bokhara clover*. See clover*, 2.—Brazilian clover*. See Trifotium*—Bloat-clover*, Same as bear-**elover*.—Bokhara clover*, a true clover*, Trifotium Wormskieldi*, one of the most valuable of the native species of northern California, in damp places growing 2 or 3 feet high. It is much relished by cattle and also by the Indians, who eat all the above-ground parts raw.—Calvary clover*. See *clover*, 2.—Chilean clover*. See *Trifotium Pathonum*, 2 feet high. It is much relished by cattle and also by the Indians, who eat all the above-ground parts raw.—Calvary clover

variety is sometimes called wild white clover.—Mammoth or mammoth red clover, a robust red clover referred by recent American authors to Trifolium medium, the zigzag clover. It resembles common red clover, with which it is often confused, but it may be distinguished, particularly by the long stalks of the heads. It is doubtless identical with the cow-grass of England, the qualities of which it is hows in some measure. Sometimes called sapling clover (in the western I nited States) and cow-clover. See cover-grass.—Mayad clover. See Trifolium.—Menindle clover, Trigonclla sunvissima, an Australian fodder-plant.—Mexecan clover. See Richardsonia.—Mountain red clover, Trifolium megacephalum, a robust percennial species of the Rocky Mountain region, especially the western slope, valued for forage. It has large and showy heads, leaves with 5 or 7 leafiets, and stout deep-growing roots.—Musk-clover. See musky place, under *\pilacec.*—Nevada clover. Trifolium tridentatuae, a native species of Utali and Nevada, eaten greedlily by cattle.—Purple clover. (a) See clover, I. (b) Same as annual red *\placetarce.—Rengeso clover, Astragadus Sinieus, a clover-like plant largely grown in Japan for green manure and for forage. It is often sown in rice-fields after harvest and plowed under the next spring.—Russian red clover, Trifolium prateuse pallidum, a variety of the red clover adapted to arid conditions.—Salt clover. See sour *\placetarce (a) The wood-sorrel, Oxalis Acctosella. [Prov. Eng.] (b) in California: (1) Trifolium fucatum, a true clover, probably with some allied species or varieties. These are succulent plants with light-colored foliage. (2) T. obtusiforum, a species having an acid taste and clammy with an acid exudation. The Indians regard it as one of the best foreating, the exudation being generally washed off. Also called salt clover and, as growing near springs, spring-clover.—Spanish clover, See Richardsonia.—Spring-clover. Spanish clover needs of in mixed pastures for sheep.—Sulphur clover, twelfacenous off ami

clover-dodder (klö'vér-dod#ér), n. See *dod-

clover-looping (klō'vèr-lö"ping), a. Looping elover or warping it by partial cating.—Clover-looping owlet. See owler (a moth).

clover-mite (klô'vêr-mît), n. An American mite, Bryobia prateusis, very common on clover



Clover-mite (Bryobia pratensis). a, dorsal view; b, ventral view; c, d, claw; c, f, g, mouth-parts; k, t, j body-scales; k, l, m, leg-spines. (Insect Life, U. S. D. A.) Magnified.

in the western United States, and frequently swarming in great numbers on tree-trunks, fences, and the sides of houses.

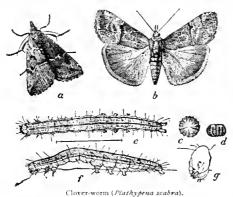
clover-rust (klē'ver-rust), n. A parasitic fungus, Uromyces Trifolii, which attacks the leaves of various species of clover.

clover-sickness (klō'ver-sik"nes), n. The state of being clover-sick, that is, incapable of producing a crop of clover: said of soils, usually dueing a crop of clover: said of soils, usually with reference to the common red clover. In England the trouble has been charged to threadworms (nematoids), to fungi, to insufficient nutrition, to acidity, and to enzyms infiniteal to the organisms symbiotic with the clover, but agreement has not been reached. Many cases can be corrected by an application of lime. The term has also been applied to the condition of the plant.

Clover-sickness marely occurs on chalk soils.

J. Wrightson, Fallow and Fodder Crops, p. 220.

clover-tree (klō'ver-trē), n. A Tasmanian tree, Goodenia latifolia. Also called native laburnum. clover-worm (klō'ver-werm), n. A green



a, moth with wings folded; b, same, wings expanded; c and d, egg; and f, penultinate stage of larva; g, head of larva—all enlarged; d, g, greatly enlarged. (Chittenden, U. S. D. A.)

caterpillar, the larva of Plathypena scabra, an American noctuid moth.

clove-strip (klöv'strip), n. The floating or ereeping primrose-willow, Jussiwa diffusa, common in the eastern United States, and also found in tropical America and Asia. See Jussiæa and primrose-willow.

clownism (klou'nizm), n. [clown + -ism.] Clownish conduct; specifically, a stage of hystero-epilepsy in which the patient assumes the most bizarre and seemingly impossible attitudes.

Clown's lungwort. See lungwort.—Clown's mustard, the bitter candytaft, Iberis amara.—Clown's-nard, see plowman's spikenard, under spikenard.—Clown's spikenard. Same as *clown's-nard.

cloy³ (kloi), n. [Origin uncertain; perhaps lit. something that cloys or is sticky, \(\cloy \), v. Otherwise for claay or cly, dial. form of clay? An artificial mixture of plastic character, in this respect resembling clay.

C. L. S. C. An abbreviation of Chautauqua Literary and Scientific Circle. club¹, n. 8. The expanded end of the tentac-

ular arms in decacerous cephalopods.—Sensory club, in hydromedusans, a *cordylus (which see, with

cutb, v. t.—To club a fleet, to manœuver a fleet, so as to get to windward of a certain position.

Clubbed fingers, enlargement of the tips of the fingers, with incurvation of the nails, occurring in diseases in which hematosis is interfered with.

clubbing¹, n. 4. In gardening, the process or ton¹, *variable.

progress of becoming clubrooted; also, the cluster-berry (klus'ter-ber-i), n. The moun-

clubrooted condition. tain-cranberry, Vaccinium Vitis-Idaæa. clubbing² (klub'ing), n. The act of forming a clustered (klus'terd), p. a. Formed into a club; joint action or subscription for joint or cluster; arranged or collected in clusters; in

Not all of the club-fungi are unbranched; but some of them are divided like the antlers of a deer, and yet others in which the branching is more copious grow in pearlgray, yellow, white or pinkish tufts, several inches high, and covering spaces as large as a dinner-plate.

C. MacMillan, Minn. Plant Life, viii.

club-hand (klub'hand), n. A deformity of the hand similar in nature and causation to clubfoot.

club-head (klub'hed), n. A elub-shaped or club-like head.

Club-moss, n.—Bog club-moss, Lycopodium inundatum, a small low-ground species, not uncommon in Europe and in North America, extending in the latter from Newfoundland and Alaska south to Washington, Illinois, and New Jersey. Also called crowfoot and marsh club-moss.—Fir club-moss, Lycopodium Selago, a boreal species of Europe and North America, in the latter extending to the mountains of North Carolina. See other vernac-

nlar names under Lycopodium.— Foxtail club-moss, Lycopodium alupecuroides, a showy species occurring in moist situations along the coast from New York to Florida and Mississippi.— Interrupted club-moss, Lycopodium annotium, a trailing species having stiff acicular leaves, circumpolar in its distribution, in North America occurring as far south as Pennsylvania, Michigan, and Washington.— March club-moss. Same as how #club-moss.

ring as far south as Pennsylvania, Michigan, and Washington.—Marsh club-moss. Same as bon *club-moss.

—Rock club-moss, Lycopodium porophilum, a rather rare species of the central and southern United States, allied to L. lucidulum, and usually found on sandstone rocks.—Shining club-moss, Lycopodium lucidulum, and entailful dark-green erect species of low woods in eastern Canada and extending from the central United States eastward. Sometimes known as **swamp** and trailing evergreen.—Stiff club-moss, Same as interrupted **club-moss.—Tree club-moss, the ground-pine, Lycopodium observum (L. dendroideum). See Lycopodium.

club-shell (klub'shel), n. A marine univalvo mollusk of the family Centhiida.

club-tooth (klub'töth), n. A gear-tooth which is larger at the outer end, or tip, than at the inner end, or root.

clucker (kluk'ér), n. An oyster that, owing to its having been chilled or otherwise injured, An oyster that, owing sounds hollow when its shell is struck. [Local, U. S.] Stand. Dict.

clue, n.—Foot clue (naut.), the clue at the foot-end of a hammock.

a hammock.

clue, v. t.—To clue down (naut.), to let go the halyards
and sheet of a gaif-topsail while the tack is kept fast, and
to man the clue-line so as to bring the head, leech, and
luff of the sail down to the clue; to man clue-lines so as
to force a yard down on the mast-cap.

clue-cringle (klö'kring*gl), n. Same as cluethimble (which see, under thimble).

clue-line, n.—Gaff-topsail clue-line, the rope that runs around the foot, leech, and luft of a gaff-sail, by means of which the topsail is bunched in to the mast on a fore-and-aft vessel, heing clued up or clued down, according as the tack is slacked up or held fast.

clue-rope (klö'rōp), n. The roping on a sail at the clues. A clue-line is sometimes incorrectly preferred the care of the rope of the clues of the clue in the clues.

rectly referred to as a clue-rope.

cluf, n. A simplified spelling of clough. clump¹, n. 6. An aggregation of bacteria resulting from the action of agglutinins. See scrum *diagnosis.

clump¹ (klump), v. [clump¹, n.] I. intrans.
To form a clump or cluster; cluster; aggregate: said of the agglutination of certain bacteria in response to the action of definite substances. See serum *diagnosis.

The Seal Harbor bacillus refused absolutely to clump in any dilution above 1-10. Med. Record, Feb., 1903, p. 358.

II. trans. To form (bacteria) into a clump

or cluster; agglutinate. clumping, n. 2. The forming of a clump or cluster of bacteria; agglutination of bacteria.

The actual results agree with the prediction, the table showing a somatic agglutination of 100 for both cultures, and no flagellar clumping.

Jour. Med. Research, Oct., 1904, p. 321.

this respect resembling etay.
cloze, v. A simplified spelling of close.

C. L. P. A. An abbreviation of Common Law
Procedure Act.

An abbreviation of Chautauqua

Clupen (klū pē-in), n. [Also clupeine; < L. clupea, herring, + -in².] A protamin obtained from the testicles of the herring. Also called salmin.

Clusiaceæ (klū-si-ā'sē-ē), n. pl. ley, 1836), < Clusia + -aceæ.] A family of dicotyledonous choripetalous plants of the order Hypericales, the balsam-tree family, including the greater part of the Guttiferæ of some authors, but not including the Hypericaceæ nor the Quinaceæ.

cluster cotton, cluster variable. See *cot-

individual benefit.

clubbock (klub'ok), n. [Appar. $\langle club^1 + ock.$]

A sea-fish, the spotted blenny, Gadusgunncilus.

Also gunnel.

Also gunnel. (klub'fung"gus), n. Any one of laborate (klub'fung"gus), n. Any one of laborate (klub'fung"gus), n. Any one of laborate and elusters, in a sluggish way, on

cluster-pore (klus'ter-por), n. One of several small pores or orifices clustered together which form part of the system of mucous canals opening on the surface in Chimæra.

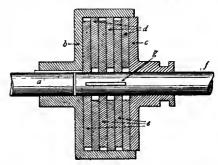
There is also an absence of primitive pores, and the cluster-pores are very few in number.

Proc. Zool. Soc. London, 1895, p. 880.

Proc. Zool. Soc. London, 1895, p. 880. Clutch¹, n., 2. (a) The simplest form is a pair of opposing disks, one with projections which can slide into depressions on the other. When thus interlocked they act as one. The two surfaces may also engage each other by friction, the pressure between them keeping the one from slipping on the other, as a friction-clutch. Clutches are much used where parts of a machine are to be run independently; where it is desired to stop and start different parts in succession; where varying demand of resistance through the day makes it desirable to run units of different capacities at different times, without stopping some continuous motion; and

where different floors of a factory stop and start at different times. Clutches of gradual action are preferred, by reason of the avoidance of shock, when machinery at rest is to be started from parts already moving. When reversing is to be done from a source of power which always turns in one direction, a clutch will be required. This condition is present in most of the motor-cars operated by internal combistion engines. See bayonet-clutch, *cvil-clutch, *expanding-clutch (with cut), *jaw-clutch, *rim-clutch (with cut), !!eston *clutch.

6. Naut.: (a) A forked stanchion. (b) The throat of a patent anchor.—7. Oyster spawn.—Catch-and-ratchet clutch, a form of engaging and disengaging mechanism in which two parts or elements are made, by a ratchet action, to engage and act as driver and driven. Nasmith, Cotton Spinning, p. 319.—Coll-clutch. See *coil-clutch.—Individual-clutch transmission. See *transmission.—Magnetic clutch, a device for causing a pulley to revolve with the shaft upon which it is mounted, and for releasing the pulley when not in use, by means of electromagnets.—Weston clutch, a form of multiple friction-clutch, devised by Thomas Weston, in which alternate disks form the contact- and driving-surfaces. Those of one set are compelled to turn with the driving-shaft, the alternate ones in turning must turn the exterior cylindrical shell which incloses them, and this shell is keyed to the other shaft. When the driven element to come to the speed of the driver. When all are at common speed there is no slipping.



Weston Clutch.

a, driving-shaft; b, hollow cylinder keyed to a; c, pressure-disk sliding lengthwise on f; d, friction-disks capable of slight motion parallel to shaft, but compelled by ribs on b to ture with it; c, friction-disks capable of slight motion parallel to shaft, but compelled by a feather, g, to turn with the driven or follower-shaft, f; g, feather. When c presses d and e to driving b and d will compel e to drive f by friction between the contact surfaces.

clutch-block (klueh'blok), n. The bolt or block which, in a positive clutch, locks one part of the clutch to the other.

clutch-box (kluch'boks), n. 1. A cover or box surrounding a clutch to keep dirt, etc., out of the clutch and protect the hands of the operator from the danger of being caught.

—2. An essential part of the Heilmann cotton-comber for detaching and delivering the combed sliver.

clutch-coupling (kluch'kup-ling), n. Same as clutch1, 2,

clutch-plate (kluch'plat), n. A plate for operating a clutch; a plate which carries a clutch, or to which a clutch is fastened; a plate which carries pins, or is slotted to receive pins, so that when it is moved it will operate a clutch. clutch-sleeve (klueh'slev), n. A sleeve or boss attached to a clutch. It is usually slotted, or a groove is turned in it so that it is free to turn with the clutch and can also be connected to a stationary operating-lever.

clutch-spool (kluch'spol), n. That part of a friction-clutch which engages with the clutch-block. Usually, a part which enters a recess in the clutch-block

clutch-wheel (klueh'hwēl), n. Same as *clutch-box, 2. Taggart, Cotton Spinning, II. 46.

clutter 2, v. II. intrans. To jumble words together in speaking, elipping syllables and dropping consonants.

Clydesdale (klīdz'dāl), n. A breed of heavy

draft-horses originally raised about the Clyde, Scotland.

Clydonautilus (klī-dō-nâ'ti-lus), n. [NL. for *Clydononautilus, \ Gr. κλύδων, a wave, + ναντίλος, nautilus.] A genus of fossil nautiloid cephalopods with coiled involute shells and lobed septal sutures like those of the gonia-tites. It is from the Triassic rocks.

Clydonites (klī-dō-nī'tēz), n. [NL., ζ Gr. κλιόων, a wave, + -ites.] A genus of fossil ammonoid cephalopods or ammonites from the Triassic rocks, including primitive forms with simple septal sutures.

clyer, clyre, n. See *clier.
clymene (kli-mēn'), n. [Appar. < L. Clymene,
name of a nymph: see Clymenia.] The tradename of an odoriferous material of unpub-

clymenioid (kli-me'ni-oid), a. and u. Resembling or having the characters of Clymenia.

II. n. One of the Clymeniidæ.

Clypeastrina (klip*e-as-tri'nā), n. pl. [NL., prop. *Clypeasterina, < Clypeaster (a genus), + ina².] A suborder of irregular Echinoidea, + ·inā².] A suborder of irregular Lennondea, of the order Gnathostonata. They have powerful jaws which move only horizontally and are without braces and compasses; the teeth are placed in pyramids which articulate by a socket fitting on to vertical processes; and the ambulaera are petaloid.

Ciypeus anterior, in entom., the anterior portion of the clypeus when this divided by a transverse suture.—

Ciypeus posterior, in entom., the posterior portion of the clypeus when it is divided by a transverse suture.—

Clysma (kliz'mä), n.: 0, clusmata (-ma-iä).

clysma (kliz'mä). n.; pl. clysmata (-ma-tä). [NL., ζ Gr. κλύσμα, a drench, a clyster, ζ κλύζειν,

[NL., ζGr. κλεόμα, a drench, a clyster, ζκλεξεν, wash, drench.] Same as clyster.

clyssus, clissus (klis'us), n. [NL. clyssus, prob. for clissus, and that perhaps for *clisis, ζ Gr. κλείσις, κλήσις, a closing up (hence reunion, recomposition), ζ κλείεν, close: see clisto-.] A chemical term of the latrochemical period, used with more or loss vacqueness to period, used with more or less vagueness to cnidosphere ($ni'd\bar{o}$ -ster), n. [Gr. $\kappa\nu i \delta \eta$, nettle, signify the material essence of a substance or a mixture of substances. $+ \sigma \phi a \rho d$, sphere.] In Siphonophora, as certain Disconcetæ, one of the spherical knobs a mixture of substances.

clyster (klis'ter), v. t. [clyster, n.] To administer a rectal injection: same as clysterize.

C. M. An abbreviation (b) of Certified Master; (c) of Church Missionary; (d) of common meter; (e) of corresponding member.

C. M. D. An abbreviation of common meter

C. M. G. An abbreviation of Companion of St. Michael and St. George. See order. cml. A contraction of commercial.

C. M. S. An abbreviation of Church Mission-

ary Society.

c. m. s. An abbreviation of the Latin cras mane sumendus, in medical prescriptions, 'to be taken to-morrow morning.

Cneoraceæ (nē-ō-rā'sē-ē), n. pl. [NL. (Engler, 1890), ⟨ Cneorum + -aceæ.] A family of dicotyledonous, choripetalous plants of the order Geraniales, the widow-wail family, formerly included in the family Simaroubaceae, but now placed by Engler between the Zygophyl-laceæ and the Rutaceæ. It consists of the genns *Cneorum only (which see) and widowwail, I.

Cneorum (ne-ō'rum), n. [NL. (Linnæus, 1753,

first used by him in 1737), < Gr. κνέωρον, the name of some flower used for garlands; according to some a nettle, but taken by botanists to be Daphne Cneorum or Daphne Gnid-ium. This plant was called by the early botan-ists Thymelæa ('thyme-olive') and thus connects with Chamælea('ground-olive'), Tonrolive'), Tonr-nefort's name for the genus Cneorum.] A genus of dicotyledonons evergreen shrub-like plants, the type Cneorum tricoccon. and only genus of the famlly

a, branch with flowers and fruit; b, flower; c, disk with stamens and gynæceum attached; d, fruit, a, two thirds natural size; b, c, and d, enlarged. (From Engler and Prantl's "Pflanzenfamilien.")

of the family Cneoraceæ. It is ceum attached: d, fruit. a, two thirds natural size: b, c, and d, enlarged. (From Engler and Pranul's "Pfanzenfamilien.") the small axillary cymose or solitary yellow flowers, and the entire linearoblong or spatulate, coriaceous leaves. Twelve species are known, all natives of the Mediterranean region and the Canary Islands. Cneorum tricoccum and C. pulterulentum are sometimes cultivated. See widner and, 1. Cnidian (ni'di-an), a. [Gr. Kvidec, < Kvidec, L.

Cuidus. Of or pertaining to ancient Cuidus in Asia Minor. - Cuidian school, a very early school of medicine in Greece, existing before that of Hippocrates. cnidocyst (nī'dō-sist), n. [Gr. κνίδη, a nettle,
 + κύστις, bag (cyst).] A nematocyst.

lished composition. It is used, among other cnidogenous (ni-doj'e-nus), a. [Gr. κνίδη, purposes, for psychophysiological tests of the power of smell.

The containing nematocysts: as, the cnidogenous containing nematocysts: as, the cnidogenous sacs of certain mollusks.

The hepatic caca in the dorsal papillæ of Eolidoida actually communicate with the enidogenous sacs at their extremity. $Encyc.\ Brit.,\ XXX.\ 797.$

Cnidophores are distinctly visible round the edge of the lantle. Proc. Zool. Soc. London, 1903, I. 252.

cnidophorous (nī-dof'o-rus), a. Bearing enidoblasts.

cnidosac (nī'dō-sak), n. [Gr. κνίδη, a nettle, + σάκκος, sack: see sac, sack¹.] The enlarged middle parts of a tentillum in certain Siphonophora, bearing numerous nematocysts. See the extract.

The tentacle [in Diphyes] is tubular and is beset with a series of lateral tentilla, also tubular. Each tentillum is composed of three parts—(1) a thin pedicle or proximal part (2) a dilated middle part, the enidosee, and (3) a slender terminal filament. The swelling of the enidoses is due to a rich development of nematocysts of various kinds, forming the battery.

Sedgwick, Text-book of Zoöl., I. 146.

composed of enidoblasts borne on the tentacles.

C. O. An abbreviation (a) of Commanding Officer; (b) of Colonial Office.

coacervate, a. 2. In bot., densely erowded together; clustered.

coach, n., 4. (c) In base-ball, one of the players

belonging to the side at the bat who takes his position near either first or third base and advises the base-runner when to run. - 6. A tame bnllock or horse used as a decoy in capturing bullock or horse used as a decoy in capturing wild cattle or horses. [Australia.]—Calash coach. See *calash.—Concord coach, a heavy coachbody hung upon leather thorough-braces and having a detached driver's seat in front and a covered baggagerack at the rear. It originated in Concord, New Hampshire.—Drawing-noom coach, a coach without upper door-pillars. The quarters are paneled one half their depth and the low door has a drop-light. The large openings thus permitted on the sides can be closed by sliding the quarter-lights and raising the door-lights.



Concord Coach

4. To capture (wild cattle or horses) with the help of a tame bullock or horse as a decoy: see *coach, n., 6. [Australia.1

coach-band (kōch'band), n. A metallic thimble used upon the outer end of the hub of a wheel of a vehicle, both as an ornament and as a

coach-bridle (kōch'brī"dl), n. A heavy bridle with large winkers, broad front-band, drop face-piece, nose- and chin-pieces, and generally check-straps.

coachee, n. 2. A style of coach highly popular in the sonthern United States before 1860.



The body had but four pillars, those at the doors, the top resting upon these and upon scrolled

supports at the ends. lt had a hammer-cloth seat, and a foot-board at the rear. The quarters were inclosed with curtains instead of panels or glasses.-Coachee rockaway, Sec *rock-

coach-harness (kōch'hār"nes), n. A heavy harness for a team of horses used with a heavy

extremity.

cnidophore (ni'dō-fōr), n. [Gr. κνίδη, a nettle, coach.

+ -φορος, ζφίρεν, bear.] A part or organ that coach-hinge (kōch'hinj), n. A heavy hinge with long narrow flaps which shut flat on the with long narrow flaps which shut flat on the

coach-lace (kōch' lās), n. A hard woven ribbon with an ornamental face and a plain back: used as a trimming material for carriages.

coach-lock (kōch'lok), n. A thin box with a flat securing-surface at right angles with the side. The bolt is retained in the box and is

operated by a square bar on a coach-handle. coachmaker's vise. See *visc2. coachman, n. 3. In angling, an artificial fly, named for a Herefordshire stage-coach driver who was famous as a fly-fisher. It is composed of a copper-colored peacock harl body, white swan or other white feather wings, and red cock-hackle.—4. Same as *coach-whip bird.

coach-pad (koch'pad), n. In a harness, a frame of iron covered with leather and provided with of fron covered with reather and provided with two pads or cushions on the under side. The frame is fitted with holes for attaching the books and terrets. The soft pad has no iron frame, heavy leather being used instead. A self-adjusting pad is one that has hinged sections attached to the lower arms of the frame which allow the cushlens to adjust themselves to the back of any horse.

coach-varnish (kōch'vär"nish), n. Any hard varnish used on coaches.

coach-whip, n. 4. The occilla, Fouquieria splendens, so called from the long, leafless, lash-Speciations, so cannot from the long, readers, lash-like branches. See Fonquieria and *ocotilla.— Coach-whip bird, an Australian name for birds of the genus Psophodes: given on account of the resemblance of their notes to the crack of a whip. Also called coach-man, for the same reason.

coad. An abbreviation of coadjutor. coadministrator (kō-ad-min'is-tră-tor), n. One who is joint administrator with one or more other persons.

coadministratrix (kō-ad-min-is-trā'trikz), n. A female coadministrator.

coagulin (kō-ag'ū-lin), n. [Also coaguline; \$\langle\$ coagul(atc) + -in².] An adaptation-product which causes coagulation. Immunization with milk will thus call forth the production of a coaguling which coagulates milk. These bodies are very similar to, and are possibly identical with, the precipitins.

coagulometer (kō-ag-ū-lom'e-ter), n. [Irreg.]

(L. coagulare, coagulate, + Gr. μέτρον, measure.] An apparatus in the form of a graduated tube, used to determine (a) the rapidity of coagulation of any given specimen of blood, or (b) the coagulating power of any substance when added to a definite quantity of blood.

or (b) the coagulating power of any substance when added to a definite quantity of blood.

coal, n., 2. In anthracite and semi-anthracite coal the volatile matter constitutes from 3 to 10 per cent. of the whole; in graphitic anthracite, from 1 to 3 per cent.; in bituminous coal, from 25 to 30 per cent.; and in semi-bituminous coal, from 25 to 30 per cent.; and in semi-bituminous, from 5 to 20 per cent. Coals which are used for the production of coke are bituminous, and are called coking-coals (see coke'1); furnace-coals are those suitable for use in a blast-furnace. Other varieties of bituminous coal are steam-coal, blacksmith's coal, and gra-coal, which have well-defined characteristics litting them for special uses. Cannel-coal is a dense, fine-grained coal, apparently deposited as a sediment containing much ash but it in volatile matter. Block-coal breaks into cubical masses, and splint-coal into long pieces. Peacock-coal is iridescent coal. Anthracite coal is usually graded into six sizes, pea, chestnut, stove, egg, brokukeat-coal and rice-coal are smaller than pea, and cherry larger. There are also many well-recognized varieties of anthracite coal, as free-burning, slow-burning, red ash and white ash for domestic use, steam-coal, furnace-coal, etc.—Altogether coal, coal as it is mined, unassorted; the run-of-the-mine coal.—Black coal, coal slightly burned by igneous rock. [Scotch.] Barrowman, (Bossary.—Bony coal, a ceal-containing so much shaly matter as to leave an excessive residue after burning. U. S. Geol. Surn., 1902, p. 279.—Broken coal, coal of the next to the largest commercial size; larger than egg-coal, but smaller than steamboat-coal. It will pass through a 4-inch hole hut not through a 22-inch hole.—Burnt coal, n... Same as black *coal.</code>—Coal battery.—Coal fora, the flora of coal-bearing deposits; applicable to those of any age, but used chiefly for those of Paleczoic age; especially the flora of coal-bearing deposits; applicable to those of any age, but used chiefly for those of Paleczoic age;

large coal passed through the crusher almost invariably yields coke of above the average quality of that produced from "run-of-mine" or unscreened coal.

Sci. Amer. Sup., April 1, 1905, p. 24459.

coal with a medium percentage of volatile matter and burning with a flame of medium length.

coal-bag (kôl'bag), n. 1. A bag for holding

coal.—2. Same as coal-sack, 2.

coal-ball (köl'bâl), n. A nodular concretion, usually of pyrite or calcite, in association with a coal-seam. Rep. Brit. Ass'n Advancement of Sci., 1902, p. 811. coal-bearer (köl'bär"èr), n.

See *bearer, 14. coal-box, n. A buggy with high side-panels, cut down forward of the seat as low as pos-

sible and originally without a top. coal-breaking jack. See $jack^1$, 11 (i) (1) Coalbrook Dale porcelain. See *porcelain, coal-cellar (köl'sel"är), n. A eellar used for storing coal, as for domestic use.

coal-crusher (kôl'krush"er), n. A machine for crushing the lumps in coal to reduce them either to small pieces or to a powder; a coal-

coal-cutter (kōl'kut"er), n. A machine for holing or undercutting coal.

coal-deposit (kôl'dē-poz"it), n. A coal-bed or

coal-drift (köl'drift), n. An entry or haulageroad of a coal-mine which starts at the outerop

and follows the bed. See gangway, 3. N. E. D. coal-dust engine. See *engine. coalescence, n. 3. In psychol.: (a) the combination of a number of sensible data into a single object-perception.

In this coalescence in a 'thing,' one of the coalescing sensations is held to be the thing, the other sensations are taken for its more or less accidental properties.

W. James, Text-book of Psychol., p. 339.

(b) The unremarked assimilation of a mental content to other mental contents or to conscious dispositions.

Suppose the components of the one combination are a, b, c, and of the other a, b, x; c may be so favored from the outset that it simply displaces x without any feeling of discrepancy arising, and without any attention to the difference. This process I call overlapping or coalescence. G. F. Stout, Anal. Psychol., I. 285.

Law of molecular coalescence, the law that crystals in an albuminous or colloidal medium become rounded in form and coalesce in spheroidal masses.

coal-face (köl'fās), n. 1. The surface of coal exposed by mining.—2. The place where the coal is being mined.—3. The end of a drift or entry or room in a coal-mine.

coal-factor (kōl'fak"tor), n. An intermediate

agent between coal-owners and customers; in London formerly an officially recognized agent between the coal-owner or shipper and the coal-seller. N. E. D.

Owing to the combination of the coalfactors, no more coals can come into the market than are sufficient to meet the demand without lowering the price.

Mayhew, London Labour, 111. 245.

coal-fauld (köl'fâld), n. In mining, a storiugplace for coal. [Scotch.] coalfish, n. 2. A fish, Anoplopoma fimbria, of

the family Anoplopomatidæ, found in the North Pacific.—3. The pollack, Pollachius virens. coal-heugh (kōl'hūċh), n. A coal-pit or coalmine. [Scotch.]

coal-hewer (kōl'hñ"er), n. A person who digs coal; a collier.

coal-hill (köl'hil), n. In coal-mining, ground occupied as a pit-head or mine-opening for

colliery purposes. [Seotch.]
coaling-boom (kō'ling-böm), n. A kind of
derrick-boom used for loading coal into a ship from lighters or colliers.

coaling-chute (kō'ling-shöt), n. In ship-building, a large pipe or trunk through which coal is passed from the coaling-scuttles on the deck coal-salt (kôl'sâlt), n. Fine-grained common or side into the bunkers of a vessel.

coaling-scuttle (kō'ling-skut"l), n. In shinbuilding, a scuttle for loading coal into the bunkers

coaling-station ($k\bar{o}'$ ling-st \bar{a}'' shon), n. port at which steam-vessels may call and reecive fresh supplies of coal. Coaling stations with accumulations of coal and appliances for speedy coaling are maintained in various parts of the world by the great

2. A station for the storage of coal for the use 2. A station for the storage of coar for the use of the locomotives of a railroad. Two types are in use, namely, terminal and through-service coaling-stations. Terminal stations are very large coal-pockets with machinery for receiving and storing many tons of coal and for loading several locomotive-tenders at the same time. The through-service stations are smaller pockets, placed at convenient points along the line. The pockets may stand parallel with a track, with chutes at the sides arranged to fill several tenders in line on the track, may have a bridge over the track, or may be built directly over the track. See **coal-pocket* (with cut).

Steam coal, coal that may be used in heating steam. coaling-trunk (ko'ling-trungk), n. In ship-boilers; in England, a bituminous, non-oking variety of building, a trunk built into the structure of a building, a trunk built into the structure of a ship for loading coal into the bunkers. coal-jungle (kōl' jung gl), n. One of the coastal

swamps in which the coal-plants of Carboniferous or other geological period are supposed to have grown.

to have grown.

coal-measures, n. pl. in America and Great Britain a special significance attaches to this term in geological classification. In Pennsylvania the coal-measures are those strata which carry the productive coal-beds of Carboniferous age and all deposits intercalated between them, and they are divided into lover productive, lower barren, and upper productive measures. The coal-measures, with the milistone-grit at their base, constitute the upper division of the Carboniferous system. In Great Britain and on the Continent their relations are similar.

False coal-measures, strata including a series of coal-Britain and on the Continent their retations are similar.—False coal-measures, strata including a series of coal-seams.—Greta coal-measures, in geol., a division of the productive coal-measures in New South Wales.—Newcastle coal-measures, in geol., a subdivision of the coal-measures in New South Wales lying at the top

coal-merchant (köl'mer"chant), n. One engaged in buying and selling coal, as distinguished from a coal-master or a coal-operator who is engaged in producing coal. coal-mill (kol'mil), n. Same as *coke-mill.

Coal-miners' phthisis. See anthracosis. coal-naphtha (kõl'naf"thä or -nap"thä), n. The lighter and more volatile portion of the distillate from coal-tar, consisting chiefly of hydrocarbons of the benzene series, and therefore quite different from the naphtha obtained from petroleum, although in part applied to the same uses, as a solvent, to improve the illuminating character of gas, etc.

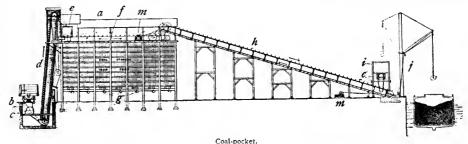
coal-pocket (köl'pok"et), n. A structure for the storage of coal. It consists commonly of a group of deep and narrow bunkers, inclosed on the sides and by a roof, and supported on columns, the ground floor being open to allow the entrance of teams to the the A and delivering the coal at the top. The space under the crane is thus filled with coal in a conical heap. Another storage-system employs combined elevators, conveyers, and reloading conveyers for receiving, storing, and delivering coal, in large bunkers, from cars and to cars and locomotives, the whole plant being inclosed.

coal-swamp (köl'swomp), n. A coastal lagoon, of the Carboniferous or other geological period, overgrown with the vegetation from which coal-beds have been formed.

overgrown with the vegetation from which coal-beds have been formed.

Coal-tar bate. See *bate5.—Coal-tar colors. They are classified as follows: (a) According to their source (that is, according to the raw materials to which they are related), into antiline colors, naphthalene colors, anthracene colors, and phenol colors. This method of classification is but little used at the present time. (b) According to their composition, into at least 20 different types of coloring-matters, the following being the classification adopted in A. E. Green's translation of Schultz and Julius's. "Systematic Survey of the Organic Coloring Matters." This classification is chiefly used by color-manufacturers and color-chemists: (1) nitro coloring-matters; (2) mono-azo coloring-matters; (3) diazo coloring-matters; (4) triazo coloring-matters; (5) totrakisazo coloring-matters; (6) nitroso or quinoneoxime coloring-matters; (7) stilbene coloring-matters; (8) oxyketone, oxylactone, and oxyquinone colors (excluding anthracene derivatives); (9) diphenylmethane coloring-matters; (10) triphenylmethane coloring-matters; (11) xanthene coloring-matters (pyronines, phthaleins, and rhodamines); (12) aerudine coloring-matters; (13) anthracene coloring-matters; (14) indophenols, indamines, and allies; (15) azines and azonlum coloring-matters (eurodines, safranines, indulines, and rosindulines); (16) oxazine coloring-matters; (17) thiazine coloring-matters; (19) quinoline coloring-matters; (20) sulphidi colors; (3) acid colors; (4) direct cotton colors; (5) sulphidi colors; (6) insoluble azo colors; (7) mordant-acid colors; (8) mordant colors; (9) basic colors; (7) mordant-acid colors; (8) mordant colors; (9) basic colors; (7) mordant-acid colors; (8) mordant colors; (9) basic colors; (7) mordant-acid colors; (8) mordant colors; (9) basic colors; (7) mordant-acid colors; (8) mordant colors; (9) basic colors; (9) mordant-acid colors; (10) aniline bla

coalternate (kō-al-ter'nāt), a. [co-1 + alter-Doubly alternate. - Coalternate fever. Same as double ferer (which see, under fever



2, pocket; h, car-dump; c, coal-crusher; d, elevator, discharging into weigher; ε, weighing-machine, delivering to conveyer; f, con-yer distributing coal in either direction to bins; g, coal-chutes; h, inclined conveyer; t, receiving-pocket; f, bucket-hoist; m, motors,

delivery-chite at the bottom of each bunker. The term inclindes the whole plant, with elevators, conveyers, weighing-machines, and other appliances for receiving crushing, storing, and delivering the coal. The illustration shows a section of a motor-operated retail coalpoeket. At the left the car delivers the coal to the coalcrusher, which in turn delivers it, crushed to the required size, to the elevator, which lifts it to the top floor. There it passes through the weighing-hopper, which measures it, weighs it, records the weight, and delivers it to the horizontal conveyer by which it is transferred to the proper bunker, at the rate of 40 tons an hour. At the right the derrick delivers the coal from the boat to the crusher. Since the conveyer is reversible, the coal can be delivered to any bunker. See *conveyer.

coal-operated (köl-vand), n. In mining, same as **coal-operated** (köl-v

coal-putter (kōl'put"er), n. See putter1, 2. coal-rashings (kol'rash"ingz), n. pl. In coalmining, soft dark shale, in small pieces, containing much earbonaceous matter. [Eng.]

A kind of coal-room (kol'rom), n. In coal-mining, a room excavated in coal, usually 5 to 10 yards wide and 100 yards, more or less, in length, and separated from adjoining rooms by pillars of solid coal. See room¹, 11, and heading, 10 (b).

tion: so called because generally discolored by soot from the flame passing over the evaporating-pan. G. Lunge, Sulphuric Acid, II. 249.

1. A coal-seam (kōl'sēm), n. A layer or bed of

coal-slack, n. See slack2.

coal-slake (köl'slāk), n. See coal-slack, 2.

coal-starge (köl'stör"āj), n. In railroading, the storing of coal for the use of locomotives. It may be stored in an open yard, in heaps, or under a trestle, or in a building. The larger open-air storage-yards are filled with coal, by means of a cable-way, conveyer, or elevator, directly from the boat or car, the coal being distributed by means of a reloader, elevator, or conveyer. In using an elevator a large A-shaped crane is erected in the yard, the elevator traveling up one leg of

coal-washery (kōl'wosh"e-ri), n. An establishment where coal is cleaned from slate and other impurities by mechanical processes which use water and take advantage of the difference in specific gravity of the coal and its impurities.

coaly³ (kō'li), n. [coal + dim. -y². Cf. coachec.

bargee, etc.] A coal-heaver. [Eng.] coal-yard (köl'yärd), n. A yard or area in which a supply of coal is kept in bins or heaps to meet the demands of customers.

Coaptation splint, a splint made of several longitudinal strips pasted upon a piece of cloth.

coarcture (kō-ärk'tūr), n. In bot., same as

collar, 2 (b) (3). Grew. coarse, a. 6. In pathol., rough; hoarse: said

of the respiratory note or of râles heard in auscultation of the chest.

coartation (kō-är-tā'shon), n. coartation (kō-är-tā'shon), n. [More correct form of coarctation.] In logic, the restriction of a term to denote a narrower range of objects than usual.

coassignee (ko "as-i-ne'), n. One of several joint assignees.

coassine (kō-as'in), a. [NL. Coassus, a genus name of S. Amer. origin.] Of or relating to

the small South American spike-horned deer of the genera Coassus and Pudu, which form a group of American deer.

coast, v. i. 8. To glide along swiftly through the air with motionless wings, as a bird.

This explanation of soaring flight, viz., gliding in an uprising enrrent, accounts for the birds exhibiting no trace of fatigne even after "coasting" long distances.

Sci. Amer. Sup., June 11, 1904, p. 23778.

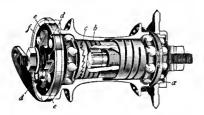
To loaf about from station to station. [Slang, Australia.]

Coastal, a = Belted coastal plain. See *plain1. = Coastal plain. See *plain1. = Embayed coastal plain. See *plain1. = Embayed coastal plain. See *plain1. = Coaster, n. 3. A loafer. See *coast, r. i., 9. [Slang, Australia.]=4. A name applied to eattle bred on or near the coast.

Many times fine specimens have been purchased at long prices, but landed in the hands of the Philistines, with dire results to the offspring—bodies that could not make a shadow, and horns of the old Texas coaster—all from the lack of decent care.

Rep. Kan. State Board of Agr., 1901–92, p. 154.

coaster-brake (kōs'ter-brāk"), n. A brake used on bicycles which is applied by rotating the



Coaster-brake,

Coaster-brake.

a, driver attached to sprocket and revolving with it. When driven forward by pedal effort, the screw-threads on a draw δ , the clutch proper, into frictional contact with the conical interior surface of the hub-shell, and the wheel is driven as in common forms of hub. When the pedals are stopped, a and δ stop, while the hub-shell keeps on, so that δ moves out of contact with the hub-shell and into engagement with ϵ , the brake-clutch. The wheel now coasts so long as pedals are held stationary. When δ is turned backward, ϵ presses against d, the brake-levers, forcing outward ϵ , the brake-sheeps. ϵ , springs which release the shoes ϵ , when the pressure on the pedals is removed.

pedals backward, and is automatically thrown cob8, (kob), n. [cob(swan).] Same as cobswan. off if the pedals are rotated forward. If, when pedaling forward, the fect are stopped and held still, the brake is not applied, and in this position the rider can coast or ride down a grade without moving the feet, while by giving a small rotation backward the brake is applied; hence the name.

coasting, n. 4. In railroading, the act of allowing a train or a car to rnn upon a down grade by its own gravity, without steam or electric power. [U. S.]

coasting-lead (kos'ting-led), n. See lead2, 2. coasting-vessel (kos'ting-ves"el), n. A vessel which plies only along the coast.

coast-liner (köst'li"nér), n. A surveyor engaged in mapping a coast-line.

It is with the high-water line that the coast-liner is concerned, delineating its character according to the Admiralty symbols.

Encyc. Brit., XXXIII. 102. miralty symbols.

coast-lining (kost'li'ning), n. The delineation of a coast-line.

Coast-tining. In a detailed survey the coast is sketched in by walking along it, fixing by theodolite or sextant angles, and plotting by tracing-paper or station-pointer. A sufficient number of fixed marks along the shore afford a constant check on the minor coast-line stations, which should be plotted on, or checked by, lines from one to the other wherever possible to do so.

**Encya. Brit.*, XXXIII. 102.

coat², n.—Disguise coat, the first coat of lead-color put upon the gear of a vehicle, as a cover for the iron and wood, before laying on the colors.—Eton coat or jacket. (a) A boy's short black coat or jacket, reaching to the waist, worn with a wide turned-over stiff linen collar: formerly the distinctive dress of Eton College, England, but now worn by boys of many schools or of suitable age to go to school. (b) A somewhat similar jacket worn by women.

Inverness coat, overcoat, or cape, an overcoat, rather close-fitting, and worn with or without a long heavy cape. The cape may be worn separately, hence the garment is known by all three names.—Prince Albert coat, adouble-breasted frock-coat, longer than the ordinary morning coat: worn in the daytime on ceremonial occasions.—Staring coat, as used by veterinarians and farmers, a dry condition of the skin (especially of horses and cattle), with harsh, rough hair. The individual hairs, being very dry, do not adhere to one another or take their normal position, but stand apart in irregular order.—Tuxedo coat, a kind of dress-coat for evening wear, made without skirts: named for a country club at Tuxedo coat, in lath-and-plaster work, the last thin finishing coat of fine plaster: properly, the white coat or finishing coat. [Seldom used.]

coated (kō' ted), p. a. 1. Provided with a coat; wearing a coat.—2. Having a covering (of any kind); as, coated muts (coated with sugar); chocolate -coated marshmallows; a coated tongue.

cobbing-board (kob'ing-bod), n. A flat piece of wood used in cobbing-staff (kob'ing-staft), n. Same as *cob-bing-staft (kob'ing-staft), n. Same as *cob-bing-staft (kob'ing-staft), n. Same as *cob-bing-staft (kob'ing-staft), n. The new yord is word in cobbing-staft (kob'ing-staft), n. A fleavy piece of wood, resembling a yardstick, used in cobbing-staft (kob'ing-staft), n. The ling-staft (kob'ing-staft), n. Th

sugar); chocolate - coated marshmallows; a coatcá tongue.

coating-machine (ko'ting-ma-shen"), n. 1.

In candy-making, a machine for coating and Coblentz stoneware. See *stoneware. In candy-making, a machine for coating and finishing chocolate candies. It consists of a paper-covered traveling apron, or wire netting, combined with steam-heated tanks holding liquid chocolate and a suitable mechanism for delivering the liquid in a thin stream upon the apron. The nuts, fruits, pastes, etc., to be coated are placed upon the apron, pass through the stream of liquid chocolate, and are completely coated, the surphis falling through the openwork apron into a tank below. An air-blast also assists in removing the surphis chocolate and cooling the finished candies.

2. A pnenmatic paint-spreading machine or cob-money (kob'mun"i), n. See coh2, 8. air-brush; a painting-machine.—3. In photog., a machine for coating glass or paper with a sensitive film. Woodbury, Eneye. Diet. of Photog., p. 107. coat-tack (kōt'tak), n. A short, broad-headed

copper nail for securing a canvas coat around a mast close to the deck.

coattest (kō-a-test'), r. i. In law, to attest together.

coattestation (kō-at-es-tā'shon). n. Joint attestation by several persons at one time and in one place. See attestation.

coattestator (kō-at'es-tā-tor), n. One of several attesting witnesses to the same act or instrument.

coattribute (kō-at'ri-būt), n. An attribute of the same substance or subject.

coattribution (kō-at-ri-bū'shon), n. The reciprocal relation of coattributes.

co-author (kō-â'thor), n. A joint author.
Coaxial triangle. See *triangle.
cob², n. 1. (f). In pharm., a cylindrical mass of crystals of lactose (sugar of milk) formed upon a stick or cord.—12. In hort., a kind of filbert characterized by a short rounded nut borne in short open husks. The longer nuts, in long husks, are known as true filberts.—13. Any of the larger guils, but more particularly the black-backed gull, Larus marinus. [Local, Eng.

cob³, n. In the United States the standard for a cob is somewhat larger than in England, a typical cob standing about 15 hands high and weighing from 1,000 to 1,050 pounds. A cob is smoother and more compact than a coacher and has shorter legs. cob3, n.

cobalt, n.—Gray cobalt, a name for smaltine and cobalt pyrites or liquidite.—Tin-white cobalt. Same as

cobaltammine (kō'bâlt-am"in), n. amine.] Any one of an extensive series of compounds, the salts of which, obtained by the action of ammonia on salts of cobalt, in some cases with access of oxygen, are of much interest to the scientific chemist. They include diammines, triammines, tetrammines, pentammines, and hexammines, partly distinguished by characteristic colors.

cobaltiferous (kō-bâl-tif'e-rus), a. [E. cobalt + L. ferre, bear.] Containing and capable of being used to produce cobalt. Smithsonian Rep. (Nat. Mus.), 1900, p. 363.

cobano (kō'bā-nō), n. [Porto Rican.] A mag-

nificent, widely spreading leguminous tree, Stahlia monosperma, native to Porto Rico and found near the sea-coast. It yields a durable wood prized for house-building. Also called polisandro.

cobbing-belt (kob'ing-belt), n. A heavy flat strip of leather used in cobbing. See cob7 of wood used in cobbing. See cob7. cobbing-board (kob'ing-bord), n.

Coblentzian (kob-leut'si-an), n. and a. [Named from Coblentz.] In geol., the name given to the uppermost division of the Lower Devonian in central Europe. In Belgium the formation has a thickness of 700-800 feet, and portions of it are highly fossiliferous.

Cobleskill limestone. See coralline *lime.

cobra!, n.— African cobra, the asp, Naja haje.—
King cobra, Naja hannah or Ophiophagus elaps, the
largest of poisonous snakes and one of the most deadly.
It reaches a length of 12 feet, is of an olive-color, with V
shaped bands and markings of a lighter tint, and is found
from India to the Malay Peninsula, and in some of the Malayan islands

cobraism (ko'bra-izm), n. [cobra + -ism,]Peisoning by cobra venom.

In the main these symptoms resemble those of cobraism, but the dyspnea is more argent. Nature, July 14, 1902, p. 260.

cobra-lily (kō'brā-lil'i), n. Candarum campanulatum, a plant of the family Aracca, widely distributed in tropical Asia and adjacent islands.

cobra-stone (kō'brä-ston), n. Same as chlorophane, I.

2. A primitive vehicle used in the coburg, n. south of England: an inclosed tilt-cart, with windows in the sides and a door in the rear.

Cobweb skipper, weaver. See *skipper1,

cobwork (kob'werk), n. A structure made of logs laid with their alternate layers at right angles and with the ends secured to the layers above and below by dovetailing.

coca¹, n.—Mextean coca. Same as Mexican *clover. cocaīnist (kō'kā in-ist), n. [cocaine + -ist.] One who is addicted to the use of cocaine. N. E. D.

cocaînomania (kō kā-in-ō-mā ni-ā), n. [E. cocaine + Gr. µavia, madness.] Morbid addiction to coeïanc; coeaïnism.
cocash (kô-kash'), n. [Amerindian.] The red-

stalk or purple-stem aster, Aster puniceus, of eastern North America, the root of which is stimulant, diaphoretic, and antispasmodic. cocash-weed (kō-kash'wēd), n. The gold

The golden

cocayl (kö'kä-it), n. [coca + -yl.] An organic group. (CH₃)NC₅H₇, which, combined with the radical of oxypropionic acid, constitutes the base ecgonic, which, together with methyl alcohol and benzoic acid, is a saponificationproduct of the alkaloid cocaine.

Coccaceæ (kok-kā'sē-ē), n. pl. [NL., < coccus (recognized in botany as a genus only in compounds, as Micrococcus, etc.) + -aceæ.] A family of Schizomyectes including globose forms. Cell-division takes place in 1, 2, or 3 planes. The principal genus is Micrococcus. See coccus, 1(e).

coccelic (kok-sel'ik), a. coccelic (kok-sel'ik), a. [coccus + -el + -ic.] Noting a crystallino acid, $C_{20}H_{22}O_7$, found in Cludonia coccifera. It melts with decomposition at 178° C

coccellinic (kok-se-lin'ik), a. [coccel(t)ic + -in + -ic.] Noting a crystallino acid, C₁₀ll₁₂O₄, formed by the action of hydriodic acid on coccelic acid.

cocceric (kok-ser'ik), a. [coccus + -er- + -ic.]
Derived from cochineal.—Cocceric actd, a crystalline monobasic acid, C₃ H₉₂O₃, found combined with
cocceryl alcohol in cochineal. It melts at 33° C.

cocerin (kok'se-rin), n. [cocer-ie + -in².] The coccery ester of coceric acid, $C_{30}H_{60}$ ($C_{31}H_{61}O_{3})_2$. It is found in cochineal and melts at 106° C.

cocceryl (kok'se-ril), n. [coccer-ic +-yl.] The radical, C₃₀H₆₀, of coeceryl alcohol.—Cocceryl alcohol, a crystalline diacid alcohol, C₃₀H₆₀(OH)₂, found combined with coeceric acid in cochineal. It melts at 101-104° C.

coccidia, n. pl. 2. [cap.] The Coccidiidea. coccidial (kok-sid'i-al), a. [coccidium +-al¹.] Pertaining to, containing, or eaused by Coccidia. Jour. Exper. Med., Oct. 25, 1900, p. 166. coccidid (kok'si-did), a. and n. I. a. Of or

belonging to the homopterous insects of the family Coccidæ, the seale-inscets.

II. n. A member of the family Coccidæ. coccidin (kok'si-din), n. [Also coccidinc; < coccid + -in².] The substance composing the

mentous dorsal and anal rays.—Cobbier's chest.
See *chest!—Cobbler's end, a waxed end.
Cobbier-fish, n. 2. See *Alectis.
Cobbra (kob'rä), n. [Also cobra, kobbera: native Australian.] The head; the top of a thing.

Coccidioides (kok-sid"i-ō-ī'dēz), n. [NL.] A problematical organism occurring as a paraproblematical organism occurring as a parasite in man, and found as yet only in America. It first invades the skin, and may spread to the lymphatics and cause a chronic or acute malady which in the latter case is fatal in a short time. The disease resembles miliary tuberculosis in some respects, since immense numbers of small nodules are found in the infected viscera, each nodule containing one or two parasites, either free or lodged in a giant cell. By some the organism is considered to be a sporozoan. Rixford and filebrish, 1897.

Coccidiomorpha (kok-sid*i-ō-môr'fi), n. pl. [NL., < Coccidium + Gr, µopopi, form.] An order of Sporozoa consisting of the Coccidiu and

[NL., \ Coccidium + Gr. μορφή, form.] An order of Sporozoa consisting of the Coccidia and

the Hamosporadia. Dollein. coccidiosis (kok-sid-i-ō'sis), n. [NL... \(\coccidiosis \) A disease caused by the pres-

tum + -osis.] A disease caused by the presence of a parasitic coccidium. An affection of this nature in rabbits resembles cancer. coccidium, n. 3. [l.c.] One of the coccidiidea. coccidology (kok-si-dol'ō-ji). n. [NL. Coccidæ + Gr. -λογία, ζ λέγείν, speak.] The scientific study of the Coccidæ, or scale-insects.

In the present state of coccidology any writer may well be excused for not accepting all the recently proposed in-novations. Science, March 25, 1904, p. 501.

coccigenic (kok-si-jen'ik), a. [NL. coccus + -gcnus, produced, + -ic.] Of coccus origin; caused by the presence of a micrococcus.

coccin (kok'sin), n. [Also coccine; $\langle coccus + -in^2 \rangle$.] A term applied to two aniline dyes, -in².] A term applied to two annine dyes, both of a red color, one of which, also termed safrosin, eosin scarlet, nopalin, and eosin BN, is dinitrobromfluorescin, and the other, known as coccin 2B and as crocein 3BX, is the sodium salt of sulpho-a-azonaphthalin-sulpho-β-naph-

Coccinin B, an acid coal-tar color of the monoazo type, derived from amido-para-cresol, which dyes wool and silk red in an acid bath.

coccinite (kok'si-nit), n. [coccus + -in + -ite².]
A mineral found in Mexico in from red to yellow or green crystals and masses. It has been regarded as an iodide of mercury, but its true nature is doubtful.

coccobacillus (kok"ē-ba-sil'us), n.; pl. eocco bacilli (-i). [NL., \(\c)cocus + bacillus. \) A very short bacillus resembling a cocens, as the coccobacillus of swine-plague. Vaughan and Novy,

Cellular Toxins, p. 180. coccochromatic (kok″ō-krō-mat'ik), a. In diatoms, having the color distributed in granular

patches. Compare *placochromatic.

coccogone (kok coccogonium, Gr. κόκκος, a berry (spere), + γονή, generation, offspring.] A cell containing spores found in some of the blue-green algae and resembling a sporangium.

Coccogoneæ (kek-ō-gō'nē-ē), n. pl. [Nl.., as coccogone + -e.c.] An order of the blue-green algæ which consist of but a single cell, although that is occasionally united in colonies emhedded in a gelatinous matrix. They repro-

coccogonium (kok - o - go 'ni - nm), n. [NL.]

Same as $\star coccogone$. coccoid (kok'oid), a. and n. [coccus + -oid.]

11. n. A spherical or ovoid bacterium.

COCCOLUTE, n. Harting has found that minute calcareous disks are separated out of a solution of limesul phate or lime chlorid by the action of ammonia generated by the decomposition of organic matter, and therefore it has been inferred that the coccoliths may be separated from the sea-water whenever organic decomposition is in progress in the presence of lime sulphate.

coccostean (ko-kos'tē-an), a. Related to the genus Coccosteus or the family Coccosteidæ. coccosteid (ko-kos'tē-id), n. One of the Coc-

cocculiferous (kok-ū-lif'e-rns), a. [NL. cocculus + L. ferre, bear.] Bearing coccules or cocci; cocciferous. See coccus, 1 (a).

cocculin (kok'ū-lin), n. [Cocculus + -in².] A crystalline, beter nentral compound, C₁₉H₂₆

O₁₀, found, together with picrotoxin, in Coc cuius Cocculus.

coccygalgia (kok-si-gal'ji-ä), n. [NL.. ⟨ Gr. κόκκυξ, coccyx, + ἀλγος, pain.] Same as coccygodynia.

bic bone.—Coccygeopubic diameter, the distance cocillaña (kō-thēl-yān'yā), n. [Bolivian Sp.] A

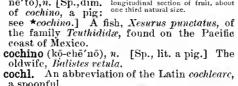
from the tip of the coceyx to the lower border of the symphysis.

cochenillin (koch-e-nil'in), n. [cochenille, a form of cochineal, + -in².] An old name for carminic acid.

cochilsapote (ko"chil-sä-po'ta), n. [Aztec cochitzapott, < cochi, sleep, + tzapott, a sweet, succulent fruiteontain-

ing large seeds.] A Mexican tree, Casimiroa edulis, be-longing to the Rutacee. It grows wild, but is also cultivated for the sake of its fruit, which is the size of a large ap-ple and has an agreeable taste. It is said to in-duce sleep, and is also used as an anthelmintic; the leaves are employed as a remedy for diarrhea. Also called *iztact-zapotl or white sapota.

cochineal, n.—Brilliant cochineal 2R and 4R. Same as palatine *scarlet.—Cochatine *scarlet.—Cochineal red, scarlet.—Cochineal wax, a solid wax extracted in small quantities from dried cochineal insects. It consists chiedly of an ester, coccerin, containing the radicals of a peculiar alcohol and acid, both of the fatty series. cochinito (kō-chē-nē'tō), m. [Sp., dim. of cochino, a pig:



Cochilsapote (Casimiroa edulis).

α, branch bearing leaves and flowers, about one fifth natural size; δ, longitudinal section of fruit, about one third natural size.

spoonful.

cochlea, n. 3. In bot., a closely coiled legume. cochlearin (kok-lē-ā'rin), n. [Cochlearia¹ + -in²] A crystalline, camphor-like substance of doubtful identity, obtained from Cochlearia officinalis or spoonwort.

Cochlearthrosis (kok'lē-ār-thrō'sis), n. [NL., ⟨cochlea + Gr. ἀρθρωσις, articulation.] A hinge-joint in which there is a slight lateral shifting

of the surfaces on movement,

cochleiform (kok'le-i-fôrm), a. [L. cochlea, snail-shell, + forma, form.] Having the form of a snail-shell. Syd. Soc. Lex. IL. cochlea,

cochleitis (kok-lē-ī'tis), n. [NL., \(\cochlea + \) -itis.] Inflammation of the cochlea of the ear.
Buck, Med. Handbook, III. 683.

Cochlidiidæ (kok-li-dī'i-dē), n. Same as Lima-

II. n. An aggregation of special green alga Nostoc.

coccoid 2 (kok'oid), a. and n. [Gr. κόκκος, a codidæ.

berry, + είδος, form.] I. σ. Resembling cochlite (kok'lit), n. [Gr. κόχλος, a spiral shell, + -te².] A fossil spiral shell or its east.

II. n. A spherical or ovoid bacterium.

Harting has found that minute calcaspiral shell, + κέρας, a horn.] A genus of degenerative ammonoid cephalopods

Aggenerative ammonoid cephalopods

Cochranea (kok -rā'nē -ā), n. [NL. (Miers, 1868), named in honor of Thomas Cochranc (1775 - 1860), a British naval commander who served as the first admiral of the navy of Chile.] A genus of plants of the fam-

Chile. J Agenus of plants of the family Boraginaceæ. They are branching perennials or shruhs, with small, alternate, entire or undulate leaves, and flowers in terminal cymes or scorpioid spikes. There are four species, natives of southern South America. One of them, C. anchusæfotia, has heen naturalized in the southern United States, where it is known as false heliotrope.

Coccygeal fistula. See *fistula. Cochrane gambit. See *gambit. Coccygeopubic (kok-sij'ē-ō-pū'bik), a. In cochucho (kō-chō'chō), n. [S. Amer. ?] Same anthrop., relating to the coccyx and to the pn- as *coco.

tree, Guarca Rusbyi, of the Bolivian Andes, which yields a valuable medicinal bark having

expectorant, tonic, and laxative properties.

cocinera (kō-thē-nā/rā), n. [Sp., fem. of
cocinero, a cook, < cocina, kitchen: see kitchen.]

A fish, Caranx vinctus, found on the Pacific coast of Mexico and Central America.

cocinero (kō-thē-nā'rō), n. [See *cocinera.]
A common name of Caranx caballus, a carangoid fish found on the Pacific coast of North America from Mexico to Panama.

America from Mexico to Fahama.

Cock!, n.—Cock-end stone, the upper jewel of the balance of a watch.—Half-cock stroke. See *stroke!.—

Pull-down cock, a fancet opened by pulling down a rod fastened to the lever or handle of the valve.—Release cock.—Cock.—Three-way cock, a valve having three openings, usually so arranged that any two can be connected or all can be closed.

Laborate themeter (lock a box/di) n [Also cock.

cock-a-bondy (kok-a-bon'di), n. [Also cock-a-bundy, cock a bondhu, etc., < W. coch a bondhu, 'red with black trunk or stem'; coch, red (\(\(\text{L.}\) coccum, red, scarlet,: see coccus); a, with; bon, trunk or stem (anything swollen); du, black.] In angling, an artifical fly having a hackle with black center and brown tops.

cockabully (kok'a-bil'i), n. [A colonial perversion of the Maori name kokopu.] A New Zealand fish, the kokopu, Galaxias fasciatus, of the family Galaxidæ.

cock-a-bundy, n. Same as *cock-a-bondy. cockalorum (kok-a-lo'rum), n. [A humorous word, appar. < cock1 + -al-orum, a Latin-seeming ending; but perhaps a variation of cockarouse, formerly used in the same sense: often with the epithet high.] A person of consequence; a self-important person. [Colleq.]

sequence; a self-important person. [Colleq.]
cockatoo, n. 2. A somewhat contemptuous
term applied to a small farmer in Australia.
[Colloq.]—Cockatoo fence, a fence of the kind used
by the cockatoos, or small farmers of Australia. It consists of branches and trees laid horizontally on the ground,
one across the other, with bars or slip-rails for gates.
cockatoo-bush (kok-a-to'bush), n. The pal

berry- or blue berry-tree. Myoporum serrdium. See *palberry. [Australia.] cock-bird (kok'berd), n. An African weaverbird of the genus Vidua, having two long tail-feathers which suggest the sickle-feathers of a fowl.

cock-boy (kok'boi), n. A boy who controlled the action of the steam inlet-valve in pumpingengines before it was understood how the valve could be operated from a moving part of the engine.

cockersprags (kok'er-spragz), n. pl. Same as

cock-eye pilot. See *pilot. cocking¹ (kok'ing), n. Same as calking¹, 2. cocking-dog(kok'ing-dog),n. Same as cocker²,2. cocking-machine (kok'ing - ma - shēn"), n. A machine which gathers hav from the windrows and puts it in cocks.

that is occasionally united in colonies embedded in a gelatinous matrix. They reproduce by means of spores formed within a coccogone.

coccogone.

coccogonium (kok - φ - gō ' ni - nm), n. [NL.]

Same as *coccogone.

coccoid¹ (kok'oid), a. and n. [coccns + -oid.]

I. a. Berry-like; globular: applied to microcranisms.

II. n. An aggregation of spores of the bluectory, + itiδος, form.! I. σ. Resembling a coccoidit, n. Agricular (coccoidit), n. [Gr. κόκκος, a coccilith, n. A spherical or ovoid bacterium.

coccoid¹ (kok'oid), a. and n. [Gr. κόκκος, a coccilith, n. A spherical or ovoid bacterium.

coccoid¹ (kok'oid), a. and n. [Gr. κόκκος, a coccilith, n. A spherical or ovoid bacterium.

coccoid² (kok'oid), a. and n. [Gr. κόκκος, a coccilith, n. Barting has found that minute calcaracous disks are separated tor of anomonia generated by the decomposition of organic matter, and therefore it has been inferred that the coccoliths may be separated from the sea-water whenever organic decomposition is in progress in the presence of lime sulphate.

coccocstean (ko-kos'tē-an), a. Related to the genus Coccosteau (ko-kos'tē-an

cockle², n. 1. (b) An Anstralian bivalve mol-lusk, Cardium tenuicostatum; also, a member of the genus Chionc .- 6. A small crisp confection of sugar stiffened with flour, variously flavored, and of a pink, light-yellow, or white color. Mettoes were printed on them in red letters.—7. A pucker or wrinkle; an unevenness, as in cloth or glass.—8. A disease of wheat caused by a nematoid worm, Telenchus become deformed. [Eng.]—Spanish cockle, a large, inedible West Indian bivalve, Codakia orbicularis, cockle-bread (kok'l-bred'), n. A term of obscure origin and meaning, used especially in the phrase molding of cockle-bread, the name of a trivial experi

of a trivial sport.

Cochloce. ers, Hauer. Sandling.

leontol-



cockle-bur, n. 3. The burdock, Arctium Lappa. cockly1 (kok'li), a. Full of wrinkles or puck-

ers: as, cockly silk.

cockly² (kok'li), a. Same as coggly and cacklety.

cock-mass (kok'mas), n. Mass at cockerow. cockneyize (kok'ni-iz), v. t. [cockney + -ize.] To give a cockney character to: as, to cocknegize a translation.

He allows Hazlitt . . . to Cockneyize the title of Gifford's poem into the "Barviad."

Blackwood's Mag., XIV. 221.

cockpit, n. 5. A place which is or has been cockpit, n. 5. A place which is or has been the scene of many contests or battles: as, an ecclesiastical cockpil; "Belgium, . . the cockpil of Europe," Murray, Handbook of N. Germany, p. 158.

N. Germany, p. 158.

cockroach, n.—American cockroach, a large cockroach, Periplaneta americana, indigenous to subtropical America. It has extended its northern range to the latitude of Philadelphia and has established itself in many parts of the world.—Australian cockroach, a large cockroach, Periplaneta australasiæ, indigenous to Australia, but carried by commerce to most parts of the world. It is about as large as the American cockroach (P. americana), but may at once be distinguished by the brighter and more definitely limited yellow band on the prothorax and by a yellow dash on the sides of the upper wings.—European cockroach, Oriental cockroach, the common Periplaneta orientatis. See cockroach.

cock-robin (kok'rob'in), n. The male European robin, Erythacus rubecula. The name is

pean robin, Erythacus rubecula. The name is most familiar in a nursery rime.—Cock-robin shop, a term descriptive of a petty printing-house. [Slang, Eng.]

Cockscomb elm-gall. See *elm-gall. cocksby, n. 2. The object at which the shy is made; a mark or larget.—3. A booth or other establishment, as at a fair, where for a small fee one may secure the privilege of having a certain number of shies at some object, such as a negro's head, and receive a prize (a cigar or the like) if successful.

cock-sparrow (kok'spar"o), n. The male

cockspur, n. 3. (c) The ergot of rye. See ergot!. [Prov. Eng.] (d) In British Honduras, Acacia spadicigera, a shrub or small tree armed with curved spines about two inches long, produced in pairs at the base of each branch and each leaf. These thorns are usually hollowed out by ants and serve them as nests.

cockswain's-box (kok'swanz-boks), n. ship's cutter, the space between the backboard and the transom, in which the cockswaiu sits while steering.

cocksy (kok'si), a. [Also coxy; < cock1 + -sy, equiv. to -yl.] Same as cocky. T. Hughes. [Prov. Eng.]

Bill drank the proffered cock-tail not unwillingly. $T.\ Hughes,\ \text{Tom Brown's School Days, l. 6}.$

Cocktail beer, beer when fresh and foaming. [Prov. Eng.]

-Cocktail grit. See Esopus*grit.—Manhattan cocktail, a whisky cocktail diluted with vermuth.—Martini cocktail, a gin cocktail diluted with vermuth.—Myster cocktail, a nixture made by putting 6 small raw oysters in a cocktail-glass or small tumbler and adding a dash of Tabasco-sauce, half a teaspoonful of vinegar, two or three dashes of lemon-juice, tomato catchup, and salt and pepper to taste.

cock-tailed, a. 2. Said of a horse having the tail docked so that it points obliquely upward

like the tail of a cock.

ish West Indies.

cock-tread (kok'tred), n. Same as cicatricula, coco-sedge (kō'kō-sej), n. Same as *coco.3 cock-treading (kok'tred-ing), n. Same as *cock-

cocky2 (kok'i), n. A shortened form of *cocka-

too, 2. [Australia.]
cocc² (kō'kō), n. [Native name.] A name in
Argentina of a tree of the rue family, Fagara Coco found in the sierras of the country. has a powerful penetrating odor and yields a wood of a beautiful light-green color. Also called cochucho.

coco3 (kō'kō), n. [Origin uncertain.] The nutgrass, Cyperus rotundus. See Cyperus. Also

coco-sedge.

coco4 (kō'kō), n. [Also cocoe, cocco; appar. native.] In the British West Indies, the taro-

plant, Caladium Colocasia. West Indies.

cocoa², n. 3. A beverage made from ground coeoa-nibs. See *cocoa-nibs, cacao, and Theo
[Scotch miners' term.] bromd.—Flake cocoa, a trade-name for a special form of chocolate, prepared by passing the roasted and husked kernels through rollers, or more commonly by grinding the small fragments of the kernela (still retaining much husk) which have been separated in sifting.

cocoa-beetle (kō'kō-bē"tl), n. Same as *cacao-

cocoa-butter (kō'kō-but"er), n. Same as cacao-

cocoa-cracker (kō'kō-krak#er), n. A machine

for cracking or crushing cocoa. It consists of a pair of horizontal rolls for cracking the shells, and a winnowing-fan for removing the broken shells and dust. It is usually combined with a rotary screen for sorting the broken cocoa and removing undesirable portions.

Cocoa-essence (kô'kô-es"ens), n. The trade-

name for the roasted kernels of chocolate, husked, ground, and deprived of part of their fat by heat and pressure, or else to which starch and sometimes sugar have been added so as to reduce the relative proportion of fat.

cocoa-fat ($k\bar{o}'k\bar{o}$ -fat), n. Same as cacao-butter. cocoa-mill ($k\bar{o}'k\bar{o}$ -mil), n. A mill for reducing crushed cocoa to a soft paste by grinding it between millstones. Such mills are sometimes arranged in pairs or in series of three, for fine grinding

cocoa-nibs (ko'ko-nibz), n. pl. The cotyledons Codaster acutus, M'Coy. Carboniferous Limestone; Derbyshire. of cacao seed. See cacao.

cocoanut, n. Cocoanut olein, the more fusible portion of cocoanut-oil, separated from the less fusible stearin by pressnre.—Cocoanut stearin, the less fusible or more solid portion of cocoanut-oil, left as a cake on the removal of the fluid olein by pressure.

cocoanut-beetle (kõ'kõ-nut-bē'tl), n. 1. An Oriental scarabæid beetle, Oryctes rhinocerus.

-2. An Oriental curculionid beetle, Rhyncophorus ferrugineus .- 3. The *palm-beetle (which

cocoa-paste (kō'kō-pāst"), n. The paste produced by grinding under heated rollers the kernels of chocolate which have been roasted and deprived of their husks.

cocoa-red (kō'kō-red), n. A brownish-red coloring-matter present in chocolate, probably derived from the oxidation of tannin.

cocoa-roaster (kō'kō-rōs"tèr), n. In candy-making, a hollow revolving oven connected with a furnace, used in roasting cocoa, coffeebeans, nuts, etc. The oven is suspended from a tilting-frame for convenience in discharging the roasted material, and when in operation is made, by means of gearing, to revolve to prevent burning, and is fitted with an appliance for testing the roasting without stopping the process. In another and larger type the process is aided by a hot blast for drying the nuts and removing the broken shells and dust. and dust.

cocoa-tavern (kō'kō-tav"ern), n. A place for

the sale of the beverage called cocoa. coconscious (kō-ken'shus), a. In psychol., pertaining to the continuity or felt conjunction of experiences within a single consciousness.

The conjunctive relation that has given most trouble to philosophy is the co-conscious transition, so to call it, by which one experience passes into another when both belong to the same self. About the facts there is no question.

W. James, in Jour. Philos., Psychol. and Sci. Methods, [Sept. 29, 1904, p. 536,

cocoon (kg-kön'), v. [cocoon1, n.] I. intrans. To form a cocoon.

II. trans. To wrap as in a cocoon.

We snatched a few odds and ends of clothing, cocooned ourselves in the proper red blankets, and plunged . . . out into the whistling wind bareheaded.

Mark Twain, Tramp Abroad, xxviii.

cocorron (kō-kō-rōn'), n. [Porto Rican.] A variety of Elwodendrum xylocarpum, a shrub or

small tree of the family Celastracex, found along the sea-coast in the Danish West Indies and Porto Rico. Called spoon-tree in the Dan-

cocuiza (kō-kō-ē'thā), n. [Venezuelan.] A

fiber prepared from the long, thick leaves of several species of Furcræa, especially F. fwlida and F. Cubensis. It is used for making bags, harmocks, harness, cordage, etc. Commercially known as mocks, harness, cordage, etc. Co. Mauritius hemp. See also pita, 2.

cocurrent (kō-kur'ent), a. That turn at the same luuar hour as oceanic currents, or that connect on a map of the ocean the points where different oceanic currents turn at the same hour: as, cocurrent lines. An. Rep. U. S. Coast Survey, 1897, p. 335.

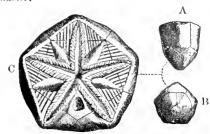
cocuyo (kō-kö'yō), n. [Taino.] 1. A fire-fly; also, a glow-worm.—2. A fish of the family Balestidæ, Xanthichthys ringens, found in the

Cod², n.—Black cod, a New Zealand fish, Notothenia angustata.—Pacific cod, a codfish, Gadus macrocephalus, found in the North Pacific; abundant about the Alaskan

cod², (kod), r. i. [Cod², n.] To fish for cod.
Cod. Au abbreviation of Codex.

Codaster (kō-das'ter), n. [Nl., short for Codo-naster.] A genus of regular blastoid Echino-dermata with obeonical calyx, the flat pentagonal upper surface bearing the oral, anal, and

ambulaeral areas. It occurs in Devonian and Carboniferous rocks. Sometimes written Codo-



A, side-view of calyx: B, base; C, ventral aspect, enlarged (after Roemer). (From Zittel's "Palæontology,")

cod-bait (kod'bāt), n. $\lceil \text{Appar.} \langle cod^{\dagger} + bait. \rceil$ the larva being in a cod or ease; but some take the other form, cad-bait, to be the original.] 1.

The larva of the caddis-fly: same as cad-bait.

—2. The lobworm, Arcnicola.

cod-bank (kod'bangk), n. A fishing-bank frequented by cod or on which cod are caught. cod-chest (kod'chest), n. A live-box in which

coddia (kod'i-ä), n. A Ceylonese black ant noted for its severe bite.

coddle², v. t. 2. In tobacco-manuf., to injure

noted for its severe bite.

coddle2, v. t. 2. In tobacco-manuf., to injure by fermentation.

code, n.—Civil code. (a) A body of adjective law which defines procedure and practice in civil actions. (b) A body of substantive law which defines the rules and principles applicable to civil actions.—Criminal code, a code which defines crimes, their degrees, and the nature and extent of the punishment.—International code, the code of signals adopted by all maritime nations for comminacting with vessels at sea, stations alongshore, etc. The present code came into use on January 1, 1962, and consists of 26 flags—one for each letter of the English alphabet—and a code-pennant. Urgent and important signals are of two flags; general signals of three flags; and vessels' numbers are of four flags. The international code-book is divided into three parts. The first contains urgent and important signals, and all the tables of money, weights, barometric heights, etc., together with a geographical list and a table of phrases formed with the auxiliary verbs. The second is an index, consisting of a general vocabulary and a geographical index, arranged in alphabetical order. The third gives lists of the United States storm-warning, life-saving, and time-signal stations, and of Lloyd's signal-stations of the world. It also contains semaphore and distant signal-codes, United States army and may codes, and Morse wigwag codes.—Mosaic code, Same as Mosaic law.—Priests' code, the ceremonial sections of Exodus and Numbers: regarded by modern crities as representing a marrative written during the Babylonian exile by a school of priests who sought to give in a historical setting their conception of the origin of the ceremonial institutions of the Hebrews, It is characterized by statistical details, long genealogical tables, careful chronology, and formality of style. About 100 B. C., the so-called prophetic marratives were incorporated with it to form the present lexatench. Also called Blobiotic document P.—Stricklandian code, rules of zodlog

the cipher or arbitrarily chosen words of the

code previously agreed upon.

codeclination (kō-dek-li-nā'shon), n. [co(m-plement) + dectination.] The complement of the declination (90° minus the declination).

Same as polar distance. codefendant (kō-dē-fen'dant), n. A joint de-

codeint (in some action or snit).

codeia (kō-dē'yā), n. [Nl.] Same as codeine.

cod-end (kod'end), n. Same as cod¹, 7.

codeposit (kō-dē-poz'it), n. In elect., a deposit
upon the electrode of an electrolytic cell consisting of metal or substance other than that obtained from the main electrolytic action and deposited simultaneously with the latter.

codeposition (kō-dep-ō-zish'en), n. In elect., the simultaneous deposition, upon the electrode of an electrolytic cell, of two or more substances.

codetermination (kō-dē-ter-mi-nā'shon), 1. A determination that determines the same matter .- 2. The reciprocal relation of determining the same matter.

codetta, n. 2. Same as *copula, 9. codex, n. 2. Among the famons American codices are the Codex Cortesianus, a pre-Columbian Maya codex preserved at Madrid; the Codex Dresdensis, a pre-Columbian Maya codex preserved at Dresdensis, a pre-Columbian Codex preserved in the Vatican Library, Rome.

codirectional (kō-di-rek'shon-al), a. Having the same direction.

A ray of plane polarized light is transmitted through a substance set in a magnetic field codirectional with the ray.

Ency. Brit., XXX. 248.

cod-man (kod'man), n. A vessel employed in the eod-fishery. N. E. D.
cod-oil (kod'oil), n. Oil obtained from the bodies of codfish, often mixed with the product from other fish: used in dressing leather. Todonaster ($k\bar{o}$ -d \bar{o} -nás'tér), n. [NL., \langle Gr. $\kappa \dot{\omega} \dot{o} \omega_0$, a bell, $+ \dot{a} \sigma \tau \eta \rho$, a star.] See *Codaster. Codonidæ ($k\bar{o}$ -don'i-d \bar{e}), n. pl. [NL., \langle Codonum + idæ.] A family of Anthomedusæ, having the month-opening simple, the gonads not divided radially, 4 narrow radial canals, and unbranched tentacles. It includes Codonium, Dinema, Hybocodon, Globiceps, and other

genera. Codonium (kō-dō'ni-um), n. [NL., κωδώνυσν, dim. of κώδων, a bell.] The typical genus of the family Codonidæ. Hacckel, 1879. codonostome (kō-dō'nō-stōm), n. Same as

codonostoma.

 $[co^{-1} + dot^{-1}]$ In projeccodot (kô'dot), n. tive geom., one of the points other than the dots in which the connectors of a polystigm

intersect.—Codot tristigm, in projective geom, the tristigm determined by the 3 codots of a tetrastigm. cod-piece, n. 2. In carriage-trimming, a half-eircle at the lower front corner of a carriage-top cast solid with the side-quarter or sewed on: used to eover slat-irons and prop-post.

cod-pitchings (kod'pich"ings), n. pl. Cod-liver oil of the lowest grade, made from partly decomposed livers.

cod-slip (kod'slip), n. A pillow-case. coed (kō-ed'), n. A female studentin a coeducational college. [Slang.] coeducation (kō-ed'" \bar{u} -kā'shon), n. [co-1 + cducation.] Joint education; specifically, tho education of young men and young women in the same institution and the same classes. coeducational (kō-eḍ-ū-kā'shon-al), a. 1. Re-

lating or pertaining to coeducation: as, coeducational problems.—2. That admits both sexes to the same educational privileges: as, a coeducational college.

There is also inculcated in the minds of our boys and girls the thought that wrong is wrong, no matter who shelters or defends it; . . that immorality is immorality, whether seen in man or woman. Nowhere else than in a coeducational school can these principles be so firmly rooted. F. S. Fosdick, in Jour. of Proc. of Nat. Educational Ass'n, 1903, p. 453.

coeffect (kō-e-fekt'), n. A complementary

Though it has been claimed that at times these growths induce headache, it is probable that they are then but co-effects of some other cause. Buck, Med. Handbook, 11. 390.

coefficient, n.—Adiabatic coefficient of compressibility, the coefficient of compressibility of a fluid measured under conditions such that heat neither enters nor sured under conditions such that heat neither enters nor leaves the fluid during the operation.—Admiratly coefficients, in navol arch., empirical coefficients used in estimating the horse-power required to drive a ship at a given speed. The midship-section coefficient is the ratio of the product of the area of midship section by the cube of the speed to the indicated horse-power; the displacement coefficient is the ratio of the product of the two-thirds power of the displacement by the cube of the speed to the indicated horse-power.

Those "coefficients" are frequently based upon rules laid down in Admiralty practice at an early period in steamship construction, and they are consequently known as Admiralty coefficients

white, Manual of Naval Arch., p. 625.

Block coefficient, in naval arch., the ratio of the volume of the under-water body of a vessel to the displacement of a parallelepiped having the same length, breadth, and depth as that part of the vessel. See ★coefficient of fineness. ─ Coefficient of absorption of gases, the volume of a gas at 0° °C and 70 centimeters pressure, dissolved by a unit volume of the liquid in which it is absorption of light.─ Coefficient of absorption of radiation. See obsorption of light.─ Coefficient of acidity. See ★acidity.─ Coefficient of augmentation, in naval arch., a coefficient depending on the average angle of ohliquity of the water-lines of a vessel to the fore-and-alt line: applied to the wetted surface it gave the sugmented surface used by Rankine in a formula for determining the resistance to propulsion of the vessel. See augmented surface, under augment.─ Coefficient of contraction, in hydraul., the ratio of the area of the fet of liquid issuing from a reservoir, measured at a distance from the orifice.─ Coefficient of correlation. See ★correlation, 5.─ Coefficient of diffuse reflection. Same as ★coefficient of diffusion.─ Coefficient of diffusion, in optics, the ratio of the light diffusely reflected, in the White, Manual of Naval Arch., p. 625.

direction of the normal to a mat surface, to the incident light. Also called the coefficient of diffuse reflection.

—Coefficient of direct resistance, in naval arch, an empirical factor which when multiplied by the area of greatest submerged section normal to the direction of motion and by the square of the speed gives the resistance of a body to motion through the water.—Coefficient of discharge, in hydraul., the ratio of the actual rate of discharge of liquid from a reservoir to that which would have occurred in the absence of the recognized impediments to flow, such as frictional resistance, contraction of the liquid vein, etc.—Coefficient of ellipticity, the ratio between the major and minor axes of an ellipse.—Coefficient of emission, the ratio of emissive power of a body to that of the ideal black body of the same temperature. This ratio is designated by most writers as emissive power, and sometimes as emissivity. Tail. [Rare.]—Coefficient of fatigue. See *Aratipne.—Coefficient of fineness, in naval arch, a coefficient expressing the ratio of the area of a curved line, such as the immersed midship section or a waterline of a vessel, to the area of its circumscribed rectangle, or the ratio of the underwater volume to the volume of its circumscribing rectangular parallelepiped (in that case called black coefficient), or to the volume of the cylindrical or prismutic coefficient).

The technical term for such percentages is "coefficient feetings."

268

The technical term for such percentages is "coefficient of fineness," expressing, as it does, the extent to which the immersed part of a ship is reduced from the parallelepipedon, or "fined." White, Manual of Naval Arch., p. 3.

the immersed part of a ship is reduced from the parallele pipedon, or "fined." White, Manual of Naval Arch., p. 8.

Coefficient of friction. (b) In noval arch., an empirical factor, dependent upon the immersed length, which when multiplied by the area and by the velocity of the water past the surface, raised to about the L83 power, gives the frictional resistance of a submerged surface to motion through the water. Also called coefficient of frictional resistance.—Coefficient of inhibition, in bacteriol, that concentration of a disinfectant which if added to a given medium will prevent the development and multiplication of bacteria without killing them.—Coefficients of performance, Same as admirally *coefficients* of coefficient of purity, in the sugar industry, the ratio (usually expressed as percentage) of sucrose or pure cane-sugar to the total solids in solution in the juice of cane or heet.

—Coefficients of reality, two constive factors held to be the material of the intellectual concept of reality, the one (an experience of resistance) relating to reality in the past and furnishing the reason for attributing it to an object; the other referring to reality in the future and furnishing a raison d'être, or utility, to the concept (a resolve to shape one's conduct to an expectation). The term was introduced by br. II. W. Stuart, who regards the coefficients as emotions, the former of the contractive type, the latter of the expansive. But it is not essential to the main position that reality should be based on emotion.—Coefficient of regression. See *correlation*, 5.—Coefficient of resistance, in hydraul., the numerical factor representing the loss of head due to frictional resistance to flow in the case of the efflux of a liquid from a reservoir.—Coefficient of rigidity of a substance.—Coefficient of rotation. Same as rotatory *coefficient* of rotation*. Same as rotatory *coefficient* of rotation*. Same as rotatory *coefficient* of rotation*.

Hydrotechnologists have laid much stress on this proportion [between river-water and the rainfall of a region], the so-called "coefficient of run-off," and it is generally thought that this might be a constant factor for a distinct river.

Geog. Jour. (R. G. S.), X. 620.

Coefficient of self-induction, the numerical value of the self-inductance in a circuit expressed in henrys or other units.—Coefficient of slip, the ratio of the in-ternal friction of a gas or vapor to its external friction.

Between the pressures of .6 and 20 millimeters of mer-cury the value of the coefficient of slip was found to be inversely proportional to the density of the gas and very nearly equal to the free path of the molecules. Reynolds, Physical Rev., XVIII. 423.

Coefficient of solubility. See *solubility.-Coefficoemeient of solidlity. See *soludity.—Coemeient of thermometric conductivity, the conductivity of a substance divided by the quantity of heat necessary to raise a unit volume of it 1° C. Same as thermal *diffusivity.—Coefficient of transmission, the proportion of radiant energy transmitted by a layer of any absorbing medium one centimeter in thickness.

Each wave-length has its own coefficient of transmission through each transparent substance.

A. Daniell, Text-book of Physics, p. 499.

A. Daniell, Text-book of Physics, p. 499.

Coefficient of ubiquity, the exponent of a logarithmic factor which expresses the dependence of a plant upon temperature: the larger the exponential coefficient the less is the plant dependent on local temperature and the more widely it may spread over the globe.—Coefficient of variability. (a) A number computed in accordance with the laws of chance, and expressing the fact that there is an even chance that the observed value of a given phenomenon will lie within a given range. Thus the coefficient of variability of the annual rainfall at Marietta, Ohio, is 4.1 inches; or, in other words, there is an even chance that the rainfall of any year will be 4.1 inches more or loss than its average value. Also called the probable error of the event. (b) Same as *coefficient of variation.—Coefficient of variation, a coefficient obtained by dividing the diversity among the individuals of a species, race, or population, considered as statistical deviation from the mode, by the index of variability and multiplying it by 100. See *index of variability and *madel.1.2.

II. E. Crampton, Biometrika, March-July, 1904, ii. 117.—Coefficient of velocity, in hydraul., the ratio of the actual velocity of ethux of liquid from a reservoir to the velocity which would have been attained in the absence of resistance to flow due to friction or to other eauses of retardation.—Coefficient of ventilation, a formula which expresses the number of times the air contained or resistance to now due to friction or to other eauses of retardation.—Coefficient of ventilation, a formula which expresses the number of times the air contained in a given space is renewed per unit of time: it is the fraction $\frac{a}{h}$, in which R represents the number of times the air is renewed in the given time represented by H. Buck, Med. Handbook, VI. 162.—Coefficient of viscosity, the ratio of the stress upon a moving fluid to its velocity

gradient.—Coefficient of wind-pressure, the pressure of the wind against a stationary object, or the resistance of the air of the motion, the density of the air, and the size and shape of the object. If the wind carries rain, this mass is added to that of the air and increases the pressure.—Cylindrical coefficient. Same as *coefficient of pineness.—Displacement coefficient. See advisoriation *constant.—Hyetal coefficient. See advisoriation *constant.—Hyetal coefficient. See plaviometric *coefficient.—Hyetal coefficient. See plaviometric al constant denoting the degree of hysteresis observed in a given specimen of iron or other magnetic material when it is subjected to successive magnetization and demagnetization.—Invasion coefficient, a number which expresses the degree of ionization or electrolytic dissociation of a dissolved electrolyte.—Isothermal coefficient of compressibility of a linid, nearured under conditions involving no change of temperature.—Lethal coefficient, in bacteriol.: (a) Inferior lethal coefficient, that medium concentration of a disinfectant which will kill sporeless bacteria in water at a temperature of 20-25° C. in the shortest time. (b) Superior lethal coefficient, that medium concentration of a disinfectant which will kill hacteria spores in water at a temperature of 20-25° C. in the shortest time.—Lillienthal coefficients, coefficients prepared by Lillienthal, showing the relation between the horizontal and vertical components of the force exerted by a current of moving air on an inclined vance or wing.—Midship-section coefficient. See admirally *coefficient.—Output coefficient. See admirally *coefficient.—Output coefficient. See admirally *coefficient.—Output coefficient. See acception of the design of induction motors. As proposed, it is the ratio of the wateoutput to the product of speed in revolutions per minute, gross length in centimeters, and the square of the diameter at the air-gaps in centimeters. It varies from 0.0009 for a 10-horse-power motor.—Pluviometric or hyetal coeff equation: $kt = 1 - \frac{r_t}{r_0}$, in which r is the resistance of

the substance at the temperature t_{\circ} and r_{\bullet} its resistance at 0° .

cœlacanthous (sē-la-kan'thus), a. Same as cœlacanthine.

Cœlelminthes (sē-lel-min'thēz), n. pl. [NL.] Same as Cælelmintha.

cœlenteric (sē-len-ter'ik), a. [calenter-on + -ic.] In zool., of or relating to the coelenteron or digestive cavity of a ecclenterate.

cœlenteron (sē-len'te-ron), n.; pl. cælentera (-rä). [NL., (Gr. κοίλος, hollow, + ἐντερον, interior, entrail.] The digestive cavity of a cœlenterate; an enterocœle. A. E. Shipley,

cœlenterate; an enteroca... Zoöl. of Invertebrates, p. 78. cœlho (kō-el'yō), n. [Pg., = Sp. concjo, ⟨ L. Same as *rab-

bit-fish, 4.

celian (se'li-an), α. [Gr. κοιλία, a hollow, ζ κοιλος, hollow.] Of the hollow type; concave: noting that type of vertebra in which both

faces of the centrum are coneave; biconeave; amphicedian. Wicland, 1899.

Celicolist (sē-lik'ō-list), n. [L. eælicola, heaven-worshiper, < eælum (erroneously eælum), sky, heaven, + colere, worship, + -ist.] A worshiper of the sky: one of a sect of the fourth and fifth centuries.

A Magian never can become a Greek, or a Greek a Cælicolist.

J. H. Newman, Callista, p. 170. N. E. D. cœliodynia $(s\tilde{e}''|i-\tilde{o}-din'i-\tilde{a})$, n. [NL., \langle Gr. $\kappa o \iota \lambda (a$, belly, $+ \delta \delta i \nu \eta$, ache.] Belly-ache; colie. cœlioscope $(s\tilde{e}'|i-\tilde{o}-sk\tilde{o}|)$, n. [Gr. $\kappa o \iota \lambda (a$, belly, $+ \sigma \kappa o \pi \epsilon i \nu$, view.] An instrument for the examination of the abdomen or other eavity of

the body. cœliospasm (sē'li-ō-spazm), n. [Gr. κοιλία,

belly, $+ \sigma \pi a \sigma \mu b c$, spasm: see spasm.] Cramp of the abdominal muscles or of the intestines. cœliotomy (sē-li-ot'ō-mi), n. [Gr. κοιλία, belly, + -τομια, < ταμείν, cut.] Same as laparotomy.

scar in the linea alba indicated the site of the former intomies.

Lancet, July 18, 1903, p. 149.

cœloblast (sē'lō-blast), n. [Gr. κοίλος, hollow, + $\beta \lambda a \sigma \tau \delta c$, germ.] In insect embryol., according to the nomenclature of Graber, the endoderm in a narrow sense, or a part of the en-doblast as distinguished from the myoblast. Cambridge Nat. Hist., V. 149.

cœloblastic (sē-lē-blas'tik), a. [Gr. κοίλος, hollow, + βλαστός, germ, + -ic.] Characterized by possessing a number of nuclei within a single cell-wall: applied to alge belonging to the Siphonales.

cœloblastula (sē-lō-blas'tū-lä), n.; pl. cœloblastulæ (-1ê). [NL., ζ Gr. $\kappa o i \lambda o \varsigma$, hollow, cœloplatyan (sê-lo-plat'i-an), a. [Gr. $\kappa o i \lambda o \varsigma$, + NL. b l a s t u l a.] A hollow blastula, as conhollow, $+ \pi \lambda a \tau i \varsigma$, flat, + -a n.] Concave-plane: trasted with one in which the segmentation noting that type eavity is filled up by the blastomeres, or a sterroblastula.

cœlocyrtean (sē-lō-ser'tē-an), α. [Gr. κοίλος, hollow, coneave, $\kappa\nu\rho\tau\delta\varsigma$, curved, convex, + -e-an.] Concavo-convex: noting that type of vertebra in which the anterior face is concave and the posterior face convex.

cœlogastrula (sē-lō-gas' trū-lā), n.; pl. cœlogastrulæ (-lē). [NL., ⟨ Gr. κοιλος, hollow, + NL. gastrulæ.] A gastrula with an open archenteron, as contrasted with a sterrogastrula, in which the archenteron is filled by the endoderm-cells.

Cœlogorgia (sē-lō-gôr'ji-ä), n. [NL.] The typical and only genus of the family Cœlogorgidæ. Milne-Edwards, 1867.

Cœlogorgidæ (sê-lō-gōr'ji-dē), n. pl. [NL., < Coelogorgia + -idæ.] A family of aleyonarian Anthozoa, of the order Stelechotokea. The colony Anthoroa, of the order Stetecholokea. The colony is arborescent, attached by stolon-like processes. The stem is formed by an axial zoöid with thickened ecener-chymatous walls, the hranches hy axial zoöids of the second order, and the branchlets by axial zoöids of the third order borne either on two sides or in spirals on the main stem. The spicules are straight or enryed and bear lateral processes. Celogorgia is the typical genus.

Cælogyne (sē-loj'i-nē), n. [NL. (Lindley, 1825), < Gr. κοίλος, hollow, + γυνή, female (pistil).] A genus of ornamental plants of the family Orchidaceæ. It heludes about 50 species, all of which are pseudobulbous. They are found growing on trees and rocks in tropical Asia. C. pandurata, C. Dayana, C. Massangeana, C. odoratissina, and others, are grown in the United States. C. cristata, with its several varieties, is the most popular species. It has large white yellow-fringed flowers.

cœlomesoblast (sē-lō-mes'ō-blast), n. [Gr. κοίλος, hollow, + μέσος, middle, + βλαστός,

germ.] In em-bryol., the true mesoblast surrounding true body-cavity or colom of the embryo, as distinguished fromotherkinds of mesoblast, such as the mesenchyme and ectomesoblast.

Cœlomic fluid, a coloriess nutritive fluid, containing amœboid coramœboid cor-puscles, found in the perivisceral eavity of certain annulate worms.—
Cœlomic pouch, in embryol., a pocket derived by evagination from the walls of the

in embryol., a pocket derived by evagination from the walls of the coclom.

C © 10 m o c © 1a (se-16-mo-se' ia), n. pl. [NL.] (Gr. κοίλωμα, a hollow(see cwlorse) | N. μοινοικοί (se-16-mo) | N. μοινοι

ma), + κοίλος, hollow.] In Lankester's classification, a grade of Enterozoa in which the eccloma is present as an independent second cavity, as opposed to the Enteroceda (which see), in which the sole cavity is the enteron. In this grade are included all groups of Enterozua except the Hydromedusæ, Scyphonedusæ, Anthozoa, and Ctenophora. Same as Cælomata, 1.

Transverse Section through a Frog Embryo

cœlomodæum (sē-lō-mō-dē'um), n.: pl. cœlo-modæu (-ā). [NL., < Gr. κοίνωμα, a hollow, + (†) δαίειν, divide.] The ectodermal portion of a ecclomic duct.

cœlomopore (sē-lô'mō-pōr), n. [Gr. κοίλωμα, a hollow, $+\pi\delta\rho_0$, a pore.] A pore or opening through which the eavity of a protocelom

communicates with the exterior. celomostome (se-lo'mo-stom). κοίλωμα, a hollow, + στόμα, mouth.] The fun-nel-like mouth of a colomoduct. **Zeloplana** (sê-lō-nlā'nā)

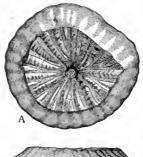
Cœloplana (sē-lō-plā'nā), n. [NL., ⟨ Gr. grafting.
κοῖλος, hollow, + L. planus, plane.] A flat cœnocyte (sē'nō-sīt), n. [Gr. κοινός, common,
disk-shaped organism which has been regarded + κέτος a hollow (a cell).] Same as syncytium.

Coffee-bean weevil. See *weevil. [NL., < Gr.

Ctenaplana to the etenophores, Caloplana being regarded as closest to the planarians. and Ctenoplana closest to the etenophores. Nothing is known of the development of either form.

vertebra which the anterior face is concave and the posterior face flat.

Cœloptychium (sē-lop-tik'i-um), n. [Gr. $\kappa \delta i \lambda \delta g$, hollow, $+ \pi \tau \delta \xi$ ($\pi \tau \nu \chi$ -), a leaf.] A genus of hexactinollid sponges having a regular mushroom-shaped frond with stalk & and radial convolutions. the estia being on the under side of the umbel. It is



Cæloptychum agarıcoides, Goldf. Upper Cretaceous; Vordorf, near Braun-schweig.

A, top view; ural size. (ogy.") "; B, profile. One half nat-(From Zittel's "Palæontol-

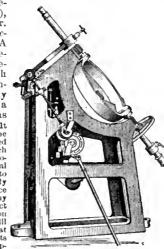
A top view; E. profile. One half nat-the only representative of a wallstee. (From Zittel's "Palæontol-oky.")

A top view; E. profile. One half nat-ural size. (From Zittel's "Palæontol-oky.")

family. Cæloptychidæ, and occurs in the rocks of the Upper Cretaceons.

celostat (se'lô-stat), n. [Erroneously for *cælostat or *celostat, < L. cælum (formerly [Erroneously for often errone-

ously cælum), sky, + Gr. στατός: seo heliostat.] A form of siderostat or heliostat which shows the image of the sky reflected in a plane mirror as stationary. 1t stationary. It consists of a plane mirror attached to an axis which is directed toward the celestial pole and made to revolve uniformly by clockwork once in 48 hours. Any in 48 hours. Any celestial object



In 48 hours. Any celestial objects seen by reflection in this mirror will appear to be at rest, so that its image thrown upon a photographic plate will be stationary and without any rotation in its own plane. In this last fact lies the superiority of the celestat over the older heliostat and siderostat, which have mirrors revolving in 24 hours. They, on the other hand, have the advantage that the reflected ray may be thrown in any desired direction, while with the celestat the available range is limited by conditions determined by the declination of the object. object.

cœlothel (sē'lô-thel), n. [Gr. κοίλος, hollow, + $\theta\eta\lambda\dot{\eta}$, nipple.] In embryol., the mesoblastic epithelium lining the true body-eavity or ecclom of the vertebrate embryo.

coemptional (kō-emp'shon-al), a. Relating or pertaining to coemption."

coendure (kō-en-dūr'), v. i. To endure to-gether, or as long (as): as, "co-enduring with time." Pusey.

connectymal germation. See *germation. cœnob (se nob), n In hot., same as cœnobium, 3. cœnobiarch (se no bi-ark), n. [LGr. κοινοβι-άρχης, ζ κοινόβιον, convent (see cœnobium), + άρχειν, rule.] The director or head of a con-

vent or monastery. N. E. D. cœnobioid (sē-nō'bi-oid). u. [canobium +

central (-trā). [Gr. κοινός, common, + κέντρον, center.] In bot, a specialized mass of cytoplasm around which the eggs of certain fungi (Saprolegniaceæ) develop.

cœnocladia (sē-nō-klā'di-ā), n. [NL., < Gr. κοινός, common, + κὐάδος, branch.] In bot., the growing together of branches; natural

as transitional from the planarians through cœnodiœcism (sē"nộ-dĩ-ē'sizm), n. [Gr. κοινός, common, + diacism.] The production of male, female, and hermaphrodite flowers on different

plants of the same species; triceism.

cœnœcic (sē-nē'sik), a. Same as canacial.

cœnogenesis (sē-nē-jen'e-sis), n. [Gr. κοινός, common, + γένεσε, genesis.] Common genesis, generation, or origin.

cœnogenetic (sē "nō-jē-net'ik), a. Of or pertaining to conogensis.—Conogenetic regeneration. See *regeneration.

Cœnogoniaceæ (sē "nō-gō-ni-ā 'sē-ē), n. pl. [NL., ⟨ Cœnogonium + -aceæ.] A family of gymnocarpous lichens named from the genus Cænogonium.

Oænogonium (sē-nō-gō'ni-um), n. [NL. (Ehrenberg, 1820), ζ Gr. κοινός, common. + γωνία, angle.] A genus of lichens, typical of Cœnogonium the family Canogoniaceae, having the thallus byssoid or fungus-like forming a flat, circular, or kidney-shaped body. The spores are hyaline, elongate, or spindle-shaped, and one- or two-celled. The species are mostly tropical and occur on the branches or trunks of trees.

Cœnograptus (sē-nō-grap'tus), n. [Gr. κοινός, common, + γραπτός, written.] A genus of Lower Silurian graptolites characterized by having two branches originating from the triangular sicula, curving sigmoidally and giving off simple branches from the convex side.

cœnomonœcism (số no mô nô sizm), n. [Gr. κοινός, common, + Ε. monæcism.] The co-existence of male, female, and hermaphrodite flowers on the same individual plant.

compose (se-nop-si'ke), n. [Gr. κουός, common, $+ \psi v \chi \dot{\eta}$, mind.] The consciousness of a community compared to a collection of intercommunicating cells each endowed with consciousness. Hacekel.

cœnosome (sē'nō-sōm), n. [Gr. κοινός, common, + σωμα, body.] In Siphonophora, the stem or trunk of the colony; the clongated manubrium of the original larval medusoid, which produces by budding all the parts of the colony.

cœnosteon (sē-nos'tē-on), n.; pl. cænostea (-ä). [Gr. κοινός, common, + ὁστέον, bone.] In iehth., an anterior lower bone of the shouldergirdle, bordering the gill-opening behind; the clavicle.

Cœnothecalia (sē "nō-thē-kā 'li-ā), n. pl. [NL (Gr. κοινός, eommon, + θήκη, case, + -aha.] An order of aleyonarian Anthozoa. They have a calcareous skeleton composed of lamella of calcite forming a dense corallum resembling that of the imperforate Madreporaria and developed from a specialized layer of ectoderm-cells. The colony consists of zooids and solenis. There is but a single living genus, Heliopora; but the group was more largely represented in Paleozoic times.

coercionist (kō-er'shon-ist), n. A supporter of coercive measures or acts; specifically, in recent British history, an advocate of the Coercion Acts in Ireland.

coestate (kô-es-tắt'), n. [co-1 + estate.] The estate held by either a tenant in common or a joint tenant.

coevality (kô-ē-val'i-ti), n. [coeval + -ity.] The quality of being coeval or of the same age or period of time.

coexcitation (kō-ek-sī-tā'shon), n. [co-1 + excitation.] In physiol., simultaneous or collateral excitation. Amer. Jour. Psychol., XII. 264.

u. 2. In logic, that reciprocal coexistence. relation which subsists between any two objects in that they exist in the same universe, generally regardless of time. In philosophy this ought to be the exclusive meaning, since contemporancity perfectly expresses the temporal meaning, and the ambiguity leads to the gravest contradictions that pass without notice.

Coeymans limestone. cof, v. and n. A simplified spelling of cough. coffearin (ko-fe'a-rin), n. [coffee + -ar² + -in².] A weak diacid base, C₁₄H₁₆O₄N₂, obtained from coffee. It crystallizes in needles, which melt with decomposition at 180° C.

which melt with decomposition at 180° C.

coffee, n.—Caracol coffee. Same as *caracolillo, 1.
—Coffee black. See *black.—Date coffee, roasted date-stones prepared for making a beverage.—Mextean coffee, the Negro or Mogdad coffee, Cassia occidentalis, a common weed in the southern United States. It is entitysted in Florida, as in Mexico, etc., as a substitute for coffee and in this capacity sometimes passes under the name of Expinoza bean.—Sudan coffee. Same as Negro or Magdad coffee (which see, under coffee.)—Wild coffee. (b) The bearberry or cascara sagrada, Rhammus Purshiana; also called wild coffee-bush, western coffee, and coffee-berry.

lated to the true coffee-plant. Its fruits are sweet and edible, but are not agreeable.

coffee-bird (kof'ē-berd), n. A name given in the British West Indies to one of the finehes, Loxiqilla riolacca, that nests in coffee-bushes.

coffee-bush (kof'e-bush), n. In New Zealand, a settlers' name for the karamu, Coprosma A driuk is made of its berries. See orangeleaf.

coffee-cake (kof'é-kāk), n. Bread sponge enriched, thinned, iced, and baked in a thin layer; a kind of a bun: often twisted and shaped in rings.

coffee-disease (kof'ē-di-zēz"), n. See *disease.

— American coffee-disease. See *disease.

coffee-fern (kof'ē-fern), n. See *fern.

coffeeism (kof ē-izm), n. [coffee + -ism.] The coffee-drinking habit or its effects on the health. G. S. Hall. Adolescence, H. 14. coffee-leaf (kof ē-lēf"), n. The leaf of the

coffee-plant.—Coffee-leaf miner, the larva of a tineid moth, Cemiostoma coffeella, which mines the leaves of the coffee-tree.

coffee-plant (kof'ē-plant), n. the genus Coffea, which yields the coffee of commerce.—2. In New Zealand, same as *coffee-bush.-3. In Tasmania, same as *coffceberru.

coffee-rat (kof'e-rat), n. A small rat, Golunda eliiotti, found in southern India and Ceylon, where it does much damage to coffee plantations, by eating buds and blossoms. It is about 10 inches in total length and olivebrown above, tawny below.

coffee-walk (kof'e-wak), n. The space between two rows of trees in a coffee plantation.

coffeic (kof'ē-ik), a. Same as caffeic.

coffer-dam, n. 3. In a war-ship, one of a series of compartments, in the vicinity of the waterline above the protective deck, built in the interior against the ship's side or around hatches, forming a double wall, which can be packed to prevent water from entering the vessel after the side has been pierced by shot. In the United States navy the packing is made

of the pith of corn-stalks. See def. 2. coffered (kof'erd), p. a. In arch., built with coffers: said of a wooden ceiling or vault, the coffers in the former being the panels between the beams, and those of the latter being re-

cesses built in the masonry.

coffering, n. 2. In arch., decorations by means of coffers or sunken panels.—3. A special method of making a watertight brickwork lining for a mine shaft, each course being laid in rings, without headers, and the bricks of alternaterings being floated in grout, breaking joints horizontally with the other rings.

coffin-bird (kof'in-berd), n. The hoopee, Upu-pa epops, so named because in China it sometimes nests in holes in coffins, or in the carved work with which they are decorated. This is possible in China, where coffins are placed under mounds above-ground.

coffin-joint (kof'in-joint), n. The second interphalangeal joint within the hoof of the horse.

coffin-lid crystals. See *crystal.
coffin-pin (kof'in-pin), n. An ornamental iron
used in hearses to hold the coffin in place.
coffin-plate (kof'in-plāt), n. The metallic plate

or shield on a coffin-lid inscribed with the

name, age, etc., of the deceased.

coffin-ship (kof'in-ship), n. A ship likely to
founder, and thus become the coffin of the crew: a term in common colloquial and newspaper use in the United Kingdom, during the agitation in Parliament begun by Samuel Plimsoll for legislation on the subject.

C. of G. H. An abbreviation of Cape of Good

cofraternal (kō-frā-ter'nal), a. and a. [co-1 + fraternal.] I. a. Concerning or pertaining to a cofraternity.

II. n. A member of a cofraternity. Francis Galton, Natural Inheritance, p. 94.

cofraternity (kō-frā-ter'ni-ti), n. All the sons and transmuted daughters, considered colleccofraternity (kō-frā-ter'ni-ti), n. tively, of like statistical mid-parents.

As all the Adult Sons and Transmuted Daughters of the As ar the Adult Sons and Transmuted Paughters of the same Mid-Parents form what is called a Fraternity, so all the Adult Sons and Transmuted Daughters of a group of Mid-Parents who have the same Stature (reckoned to the nearest inch) will be termed a Co-Fraternity.

Francis Galton, Natural Inheritance, p. 94.

cog², n.—To slip a cog, to make a single unauspected mistake in one's work or calculations.

cog. An abbreviation of cognate. cogener (kō'jē-ner), n. Same as congener.

Among the Centrarchidæ, the large-mouthed black bass is second only to its cogener, the small-monthed species, as a game-fish.

Jordan and Exermann, Amer. Food and Game Fishes,

cogged (kogd), p. a. Provided with eogs: as, a cogged wheel.—Cogged-wheel breathing or rhythm. Same as cogged breath-sound (which see, under breath-sound).

cogging³ (kog'ing), n. 1. The fitting in and working of the wooden teeth or cogs of mortise-wheels.—2. The process of rolling steel blooms from ingots.

cogging-engine (kog'ing-en'jin), n. Any engine used for driving an ingot-mill or eoggingmill.

cogging-mill (kog'ing-mil), n. A rolling-mill in which steel blooms are rolled from ingots; an ingot-mill.

coggle⁴ (kog'l), n. [Appar. based on cog1.] In ceram., a decorating wheel of wood or iron, usually grooved, designed to be run around the edges of pie-plates, to form the notches or indentations.

cogitation, n. 3. In pre-Kantian philosophy cogitation, n. 3. In pre-Kantian philosophy, especially in Deseartes, Spinoza, and the Wolfians, consciousness, especially thoughts. Usually rendered 'thought' or 'thinking'; but any mode of consciousness was meant, especially that of immediate perception of objects, whether internal or external. In modern philosophy the term is not used at all. It would be convenient to give it the meaning of consciousness of an object—that grade of consciousness which makes the distinction of subject and object, or ego and non-ego, but does not think of generals or of signs as such.

cognac, n.-Oil of cognac, the trade-name for diluted

cognitional (kog-nish'on-al), a. [cognition + -all.] Of or pertaining to cognition: as, cognitional judgments.

So many of our judgments are recognitional instead of being cognitional, that judgments usually appear to be instantaneous. J. W. Powell, Truth and Error, p. 281.

cognition-time (kog-nish'on-tim), n. In psychophys.: (a) The total time of the cognitive reaction. (b) This time minus the time of the simple reaction. The cognitive reaction is a form of the reaction experiment in which the reactor is told, for example, that he will see a color or hear a tone, and that he is to react only when he has cognized the color as red, blue, etc., or the tone as the tone of a certain pitch, of a certain instrument, etc.

cognitive, a. II. n. In gram., a particular form of a root word, expressing recognition or knowledge.

Abenaki awanoch, the cognitive of Penobacot awenoch, means Frenchman, the first whitea with whom the early Abenakis were brought in contact.

Amer. Anthropologist, Jan.-March, 1902, p. 31.

cognitor (kog'ni-tor), n. In Rom. law. the coil-clutch (koil'kluch), n. A form of friction-attorney or advocate of a party to a private clutch in which a coil of steel rod or a wire suit; one who took up the defense of a person present in court.

cogon (kō'gōn), n. [Philippine Sp. cogon, < Tagalog and Bisaya cogon, Bicol cogon-cogon.]
A name in the Philippine Islands of Imperata arundinacca, a grass which takes possession of abandoned clearings and covers vast tracts of savanna land. It furnishes excellent material for thatching, but is fit for pasture only when

young and tender. See *alang-alang. cogonal (kō-gō-nāl'), n.; pl. cogonales (-nā'lāz). [Philippine Sp., < cogon + -al, implying plantation.] A cane-field; land overgrown with

coguarantor (kō-gar'an-tôr), n. [co-1 + guar-

antor.] A joint guarantor.
cogway (kog'wā), n. A railroad-track with a
cog-rail, used on grades too steep for smooth wheels.

cohen (kō'hen), n.; pl. cohanim (kō-hä'nēm). cohen (kō'hen), n.; pl. cohanim (kō-hā'nēm). [Heb. kōhēn.] Among the Jews, a priest. Jews bearing this name or one of its numerous variants (such as Cohn, Cahen, Cahn, Coen, Coon, Kuhn, Cowen, Cowan, etc.) are assumed to be descendants from the high priest Aaron. In the synagogue service the congregation is divided into three classes, as follows: (1) Cohanim, or priests, descendants of Aaron; (2) Leviim, or Levites, descendants of the patriarch Levi; (3) Israelim, or Israelites. The last are, of conrse, the most numerous. Many of the first category (the Cohanim) have secular names, to which, when signed in Hebrew, they affix the letters C. Z., an abbreviation of cohen zedek, 'righteous priest.'

cohenite (kō'hen-īt), n. [Named after Professor E. Cohen of Greifswald, Germany.] A compound of carbon with iron, nickel, and cobalt, (Fe, Ni, Co)3C, identified in some meteoric

coherence, n. 3. In math. See *adherence, 6.

coffee-berry, n. 2. A Tasmanian name for a \cos^2 , v. t. 4. In metal., to roll, especially to coherer (kō-hēr'èr), n. In elect., a tube filled native plant, Coprosma hirtella, which is re- roll ingots into blooms. with a conducting substance in powdered or granular form, as metal filings, which, when struck by an electric wave, as that sent out from a wireless telegraph station, decreases in electrical resistance, probably by the parti-eles making a better contact with each other, and so is used to discover very minute electric waves, as in wireless telegraphy. After the passing of the electric wave the resistance of the coherer usually remains low, but it rises again when the tube is tapped.

coheritage (kō-her'i-tāj), n. The estate of one of several heirs to the same estate.

Cohiba (kō-hī'bā), n. [NL. (Rafinesque, 1836), said by its author to be of Haitian origin.] A genus of dicotyledonous plants belonging to the family Hydrophyllaceæ. See Wigandia.

coho (kō'hō), n. [California Indian 1] A salmon, Oucorhynchus kisutch, found from San Francisco northward and on the Asiatic coasts southward to Japan.

In the opinions of the canners . . . the cohe should rank next after the king salmon in food value.

Bulletin U. S. Fish Com., XVIII. 6.

cohune (ko-hö'ne), n. [Native name in Honduras.] A pinnately leaved palm, Attalea Cohune, nativo of Central America. The fruit yields oil and is used in the same manner as the ivory-nut for turning small articles. See Attalea and corozo, 1.

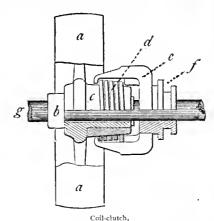
coiffeur (kwo-fér'), n. [F.] A hair-dresser. coign, n. 2. In geol, an original angular elevation of land around which as a corner-stone continental growth has taken place.

South of the Scandinavian coign.

Geog. Jour. (R. G. S.), XIII. 245.

coil¹, v. t.—Coiled basketry. See *basketry.
coil¹, n. 4. A cylindrical hoop or tube formed by coiling a wrought-iron bar and then welding to form a solid piece: formerly used in building up Armstrong guns.—Letter's coll, a coil of metal or rubber tubing throngh which a stream of hot or cold water may be made to pass: employed as a means of making thermal applications to the surface of the body.—Reactive coll. See *reactive.—Series coll, in elect., a coil placed in series with the other parts of the main circuit of any electrical machine or device, as a dynamo, motor, or arc-lamp, and traversed by the entire current flowing in that circuit.—Shunt coil, in elect., a coil placed in parallel with a portion of the main circuit of any electrical machine or device, as an arc-lamp, dynamo, or motor, and traversed by a portion of the current flowing in the main circuit. The relative amount of current received by a shunt-coll is determined by the inverse ratio of its resistance to the resistance of the conductor with which it is in shunt.—Tesla coil, a form of induction coil without an iron core and designed for the production of the form of high-frequency discharge known as the Tesla *cisteharge* (which see). ing to form a solid piece: formerly used in

coil-boiler (koil'boi-ler), n. A boiler made of one or more coiled tubes.



a, pulley loose on the sleeve or quill, b; c, split hub of pulley a; a, c, o!; c, jaw by which the coil is forced on ordrawn off the taper hub c; f, groove for the fork of the lever (not shown) by which c is moved length wise on the hub; f, shaft to drive f or be driven by it.

rope is fastened to one element, and a cone upon the other is pressed into the inside of the eoil. The multiple turns of the rod or coil make it seize upon the surface of the cone and hold with great power

coil-end (koil'end), n. Same as *coil-stand. coiler (koil'er), n. An apparatus, connected with a cotton-carding machine, for receiving the sliver and disposing of it in the form of coils, so that it may not become entangled.

coiler-can (koi'ler-kan), n. The can of the fuel. Coke burns with a short flame and no colchic (kol'chik), a. [colchic(um).] Derived coiler apparatus that receives the sliver from

Spinning, p. 127. coiler-head (koi'ler-head), n. The top part of

anism, attached to a carding-machine, for receiving the sliver and laying it into coils.

coiler-plate (koi'ler-plat), n. The upper revolving part of the coiler, which receives the sliver from the cotton-carding machine and delivers it into the ean. Nasmith, Cotton Spinning, p. 126.

coiler-roller (koi'ler-ro"ler), n. One of a pair of calender-rollers between which the sliver passes into the coiler-can from the cotton-Thornley, Cotcarding or -combing machine.

ton-combing Machines, p. 235.

coil-flux (koil'fluks), n. In elect., that part of the magnetic flux of a coil which is due to its own magnetism, and not to the presence of a magnetizable core or of anything capable of increasing the permeability of the magnetic circuit.

coil-gland (koil'gland), n. Same as sweatgland. Buck, Med. Handbook, I. 79.

coiling-machine (koi'ling-ma-shēn") wood-working, a machine for bending and forming barrel-hoops by coiling the steamed straight hoops over a drum and holding them in the right form until they are stiff and rigid.

coil-stand (koil'stand), n. An upright easting or support for a coil of steam-pipes. Some-

times called a coil-end.

or support for a coil-end.

coin¹, n.—Alliance coins, in Gr. numis., coins struck by two or more Greek cities in agreement for mercantile convenience, or for political reasons.—Bætyl coin. See ★bætyl.—Family coins, Roman silver denarii, struck under consuls.—Postal and coin scales. See ★scale².—Subsidiary coin, small coin used for change the legaltender value of which is limited by statute. See teyaltender value of which is limited by statute. See teyaltender currency, under tender?

Coinago ratio, the ratio which expresses the equivalence in value between gold and silver under the (then existing) mint law. Thus, in the United States, under the law of 1837, it is 15,988 to 1: that is, one pound of gold can be coined into as many dollars as 15,988 pounds of silver. The coinage ratio is intended (except for subsidiary coins), where binetallism is desired, to be identical with the average commercial ratio; if this is not the case the metal which is undervalued disappeara from circulation as money. Thus under the law of 1792 the coinage ratio was fixed at 15 to 1, but this undervalued gold and it disappeared from circulation; in 1834 the ratio was changed to 16,002 to 1, and in 1837 to 15,988 to 1, but this undervalued silver and it practically disappeared from circulation (except in the form of subsidiary and abraded coins) until 1873, when it was demonetized. Since that date the fall in the value of silver has brought the commercial ratio down to about 32 to 1.

coin-catcher (koin'kach'ér), n. A probang

coin-catcher (koin'kach"er), n. A probang with a special device at the end, designed to hook under a coin or other similar object lodged in the esophagus, and so draw it out.

co-inherence (kō-in-hēr'ens), n. The state or quality of inhering together.

co-initial (kō-i-nish'al), a. [co-1 + initial.]

Originating together.

co-insurance (kō-in-shör'ans), n. See insur-

Coir powder, the powder which separates in the manufacture of prepared cocoanut-fiber (for matting, etc.) from the busk of the cocoanut.

coke¹, n.— Graphitized coke, coke which has been converted into artificial graphite by the high temperature of an electric furnace in the presence of silicon in small quantity.—Native coke, an impure variety of carbon formed in nature by the destructive distillation of bituminous coal by contact with igneous rock. Called also

coke-bed (kok'bed), n. 1. A layer of coke which is put into a cupola before charging any of the iron. The amount of coke in this layer is proportionate to the amount of iron to be melted .- 2. A porous stratum of coke and clinker in pieces of various sizes, laid to a depth of several inches below a mold for casting a piece of work having large surfaces and which is bedded in. Provision is thus made for carrying off the gas generated in the mold, there being vent-pipes to allow the gas to escape from the porous stratum.

coke-breeze (kôk'brez), n. Coke from gasworks in pieces small enough to pass through a one-inch ring. In handling coke a proportion of breeze is formed by the breaking of the larger pieces. This breeze is screened from the remainder of the coke as it is a detriment to the use of the coke in fires of

coke-dust (kök'dust), n. Powdered coke: used for blacking foundry molds. cola-red (kö'coke-furnace (kök'fer"näs), n. A furnace or heating-apparatus adapted to use coke as a tannic acid.

smoke, and gives an intense local heat.

a cotton-carding machine. Nasmith, Cotton coke-gas (kok'gas), n. The hot gas from a

the coner apparatus of a cotton-carding machine, through which the sliver passes into the can. Nasmith, Cotton Spinning, p. 174.

coiler-motion (koi'ler-mo'shon), n. A mechanism, attached to a carding-machine form.

coal or coke into a powder for use in blacking foundry molds. It is usually a closed revolving cylinder inside of which are heavy balls or rollers which crush the material. Also called blacking-mill and coal-mill.

coke-oven, n.—Aitken's coke-oven, a modification of the ordinary bechive coke-oven, intended to effect the recovery of tar and ammonia in making coke from bituminous coal.—Appolt coke-oven, one of the modern forms of oven for the manufacture of coke from bituminous coal, in which air is excluded from the interior of the coking-chanher.—Breckon and Dixon's coke-oven, an improved coke-oven with flues for conveying the gases during combustion beneath the floor of the oven. This improvement, introduced about 1800, is embodied in a few of the modern coke-ovens.—Coke-oven tar. See *farl.—Jameson coke-oven, a modification of the common beehive oven, which provides for saving the tar and annonia liquor by drawing off the vapors formed in the coking through pipes connected with a system of channels, covered with perforated tiles, in the bottom of the oven.—Otto-Coppée coke-oven, an oven or kiln for coking coal, with provision for the recevery of tar and anmoniacal liquor.—Simon-Carvéscoke-oven, an oven or kiln for the manufacture of coke, specially contrived to save the volatile products given off as well tar and animoniacal liquor.—Simon-Carves coke-Oven, an oven or kiln for the manufacture of coke, specially contrived to save the volatile products given off, as well as the tar and the animoniacal liquor. The fuel used consists almost entirely of the uncondensed combustible gases given off from the coal carbonized, and these gases are passed through separate those surrounding the closed space for this coal, to which space no air is admitted.

coke-plate (kōk 'plāt), n. 1. Tin-plate, the sheet-iron base for which is made of iron refined with coke as a fuel, as distinguished from chareoal-plate.—2. Iron plate made from puddled iron, which is inferior to char-

coal-plate.

coke-scrubber (kōk'skrub"er), n. An apparatus filled with coke moistened with oil, used

placed and allowed to coke before being spread on the fire.

coking-stoker (kô'king-stō"kèr), n. chanical stoker or device for firing a furnace, which permits the tuel to coke before feeding it to the grate, thus burning the fuel with little or no smoke.

coky (kô'ki), a. [coke + -y¹.] Like coke; porous instructure from partial fusion and escape of volatile matter: said of the residue from charring certain kinds of bituminous coal. Sadtler, Handbook of Indust. Chem., p. 359.

col, n. 2. A name given by Abereromby in 1887 to the region on a weather-map between two anticyclones, where the isobars show a connecting neck or narrow region of lower pressure analogous to the col that affords a passage from one mountain peak to its neighbor: not to be confounded with a trough or an area of low pressure.

cola² (kō'lä), n. [Also kola; W. Afr., given also in other forms, as kolla, korra, gorra, gorra.] 1. A tree of the family Sterculiaceæ, Bichea acuminata (Cola acuminata of Schott and Endlicher), which yields the cola-nut. See cola-nut.—2. [NL.] Any tree of the genus Bichea, which includes about 40 species of tropical African stereuliaceous trees having entire or lobed leaves and axillary clusters of unisexual or polygamous flowers.

colaborer, colabourer (kō-lā'bor-er), n.

fellow-laborer; a colleague.

colacobiosis (κοl/a-kō-bi-ō'sis), n. [Nl..., ζ
Gr. κόλαξ (κολακ-), flatterer, + βίωσις, living.]

A form of social symbiosis, or symbiosis between two colonies of ants of different species, one of which is parasitic on the other species; Wheeler, 1901. permanent social parasitism. Wheeler, 1901. colacobiotic (kol″a-kō-bī-ot'ik), a. Of or per-

taining to colacobiosis.

taining to concompass.

colalgia (kō-lal'ji-ii), n. [NL., < Gr. κόλον, colon, + ἀλ; ος, pain.] Pain in the colon.

colander, n. 2. A perforated hemispherical vessel used in easting shot. Urc.

colanine (kö'la-nin), n. [Also kolanine; \langle cola^2 + ine^2.] A substance obtained from the cola-nut. It is probably a mixture of caffein tannate and a little theobromine tannate, and is used as a sedative in cases of scasickness.

cola-red (kô'la-red), n. The red coloring-mat-

from colehicum.—Colehic acid, an amorphous acid, $C_{16}H_{15}O_8N_7$, obtained from colchiceine by heating it with concentrated hydrochloric acid, which removes two methyl groups.

colchiceine (kol-chis'ē-in), n. [colchic(um) + -e- + -ine².] A colorless, crystalline, slightly bitter alkaloid, $C_{21}\Pi_{23}NO_6+\frac{1}{2}H_{2}O$, contained in meadow-safiron (Colchicum autumnale).

in meadow-saffron (Colchicum autumnate).
colchyte, cholchyte (koľ kit), n. [Prop. eholchyte; = F. colchyte, < Gr. χολχύτης, a word
found in pl. in papyri, with a fem. χολχυτίδες,
pl., and explained as Egyptian, but prob. an
error for *χοαχυτης. < Gr. χοἡ, a pouring out, a
drink-offering, libation, + χύτης, a pourer, <
χείν, pour. See Van Herwerden, Lex. græcum
supplet. et dial., 1902, p. 903.] A funeral director in ancient Egypt; one who provided
liturgical services. Wilkinson.
colcol (koľ koľ), n. [California Indian.] The
shells of Olivella, which are strung and used

shells of Olivella, which are strung and used as money by certain California Indians.

or saving to vapors as money by certain California Indians.

cold. I. a.—Cold plague. (a) A form of pernicious es, in the malarial fever in which death occurs during the cold stage. (b) Epidemic cerebrospinal meningitis in horses.

co-oven, —Cold-rigor point, the degree of cold (0°C.) at which a cell loses its irritability.—Cold-stage, the chill in mach conhustible essegases the closed teed.

(b) The testing of the ductility of iron and steel bars and plates by bending, while cold, to a certain angle, 90°, both with and across the grain, to determine whicher this can be done without fracture.—Cold wall. See *wall!

II. n.—Pole of cold. See *pole2.—Strangers' cold, a catarrh which attacks the inhabitants of certain remote islands whenever they are visited by ships.

cold-blast (köld'blast), n. and a. I. n. 1. A blast that has been cooled by artificial means.

blast that has been cooled by artificial means.

II. a. Using an unheated blast or one that has been cooled.

to purify street gas, which is forced through it.

W. L. Dibdin, Public Lighting, p. 132.

coking-plate (kō'king-plāt), n. The dead-plate;
a plate at the door of a furnace which uses
bituminous coal, on which the fresh coal is
placed and allowed to colo before heing extract.

colder (kō'lder), n. [Also calder, caulder, cholder, chaudder; origin unknown.] 1. The husk or refuse of threshed wheat.—2. Rubbish from old buildings, [Prov. Eng. in both uses.]

colder (kō'lder), n. [Also calder, caulder, caulder, cholder, chaudder; origin unknown.] 1. The husk or refuse of threshed wheat.—2. Rubbish from old buildings, [Prov. Eng. in both uses.] cold-drawn.

> cold-frame (köld'fram), n. A small glasscovered structure, and the bed of earth which it covers, used for starting plants in the spring, or to receive plants transplanted from hotbeds or greenhouses, or to carry semi-hardy

> plants over winter. It differs from a hotbed in that there is no heat in the soil except that which accumulates from the sun's rays.
>
> cold-riveting (köld'riv"et-ing), n. The process of heading-over rivets without first heating them. This is done only with rivets not over three eighths of an inch in diameter.

> cold-rolled (kold'rold), a. Rolled while cold, instead of at a red heat; specifically, noting a metal which has become brittle from excessive rolling or hammering. cold-rolling (köld'röt"ing), n. The process of

rolling iron and steel plates or rods while they are cold. A smooth, finished surface is attained, resistant to abrasion, and needing no subsequent machin-

cold-saw (köld'sâ), n. A saw for cutting cold metals; especially, a power sawing-machine nsed in cutting iron beams, rods, rails, etc. Such machines employ heavy circular saws driven at high speeds, the metals to be cut being clamped to a table and led to the saw. In some machines the saw is fed to the metal. Steel disks driven at very high speeds are also used in place of saws, and are called friction-disks. In some smaller machines band-saws are used. There is also a metal-sawing machine which employs a reciprocating saw resembling a hack-saw. The large machines are also called cold-saw cutting-off machines. See milling ****aave.

cold-sawing (köld'så"ing), n. The process of sawing cold metal with a circular saw or cold-

cold-shortness (köld'shôrt"nes), n. Brittleness when cold: a condition of wrought iron, steel, or other metal, in which the metal, on account of its brittleness, cannot be worked when cold without fracture or cracking at the edges. Compare red-shortness.

cold-shoulder (köld'shöl"der), v. t. To 'give the cold shoulder' to; treat with studied coldness, indifference, or neglect.

cold-soldering (köld'sod"er-ing), n. A process of amalgamating metallic substances by the colanine (kô'la-nin), n. [Also kolanine; < cola?]

4 · ine².] A "substance obtained from the cola-nut. It is probably a mixture of caffeln tanuate and a little theobromine tanuate, and is used as a sective in cases of seastekness.

cola-red (kô'la-red), n. The red coloring-matter of cola-nut, formed by the oxidation of colatannic acid.

of amatgamating metalite substances by the dark of mercury. A hard amalgam, made of 5 or 6 parts of pure silver, 3 or 4 parts of tin, and from 3 to 5 parts of p

insensitive to pressure, pain, or warmth: also termed a cold-point.

The warm-spots are more difficult of identification than the cold-spots. E. B. Titchener, Exper. Psychol., I. ii. 82. cold-ulcer (köld'ul'sèr), n. An ulcer on a

finger or toe, resembling a chilblain, but due to interference with the local blood-circula-

tion.

colein (kō'lē-in), n, [Cole(ns) + $-in^2$.] A purple-red resinous compound, $C_{10}\Pi_{10}O_5$, obtained from the leaves of Coleus Blumei.

coleopod·(kō' lē-ō-pod), n. [NL. coleopodium, $\langle \operatorname{Gr. κο\"{\it Ze}} \delta \rangle$, sheath, $+ \pi o i \gamma (\pi o \delta -)$, foot.] In certain myriapods, one of the accessory structures which form a sheath for the phallopods or essential parts of the external reproductive apparatus

coleopodium (kö "lē-ē-pō 'di-um), n.; pl. co-leopodia (-ä). [NL.: see *coleopod.] The pe-enliar protoplasmie process extruded by certain diatoms and believed by some to be the means

of locomotion in these plants.

coleopterin (kol-ē-op'te-rin), n. [colcopter + -in².] A red pigment found in the wing-eovers of beetles.

coleopterology (kol-ē-op-te-rol'ō-ji), n. [Coleoptera + Gr. -λογία: see -ology.] The science of Coleoptera: a branch of entomology.

Coleosporium (kö^{*}lē-ô-spō'ri-im), n. [NL. (Léveillé, I847), ⟨Gr. κολεός, a sheath, + σπορά, seed (spore).] A genus of uredineous fungi having the æcidia usually produced on the leaves of conifers, and the uredospores and teleutospores on other hosts. The teleutospores form soft, reddish, waxy sori and germinate while attached to the host. C. Senecionis produces its teleutospores on species of Senecio, and its acidia on Pinus sylvestris.

of Senecio, and its acidia on Pinus sylvestris.

Coleroa (kol-ē-rō'ā), n. [NL. (Rabenhorst, 1851).] A genus of parasitic pyrenomycetous fungi having membranous or thin, leathery peritheeia furnished with radiating bristles. The spores are ovoid, two-celled, hyaline, and greenish or brownish yellow. C. Chetomium attacks the leaves of species of Rubus in Europe.

species of Rubus in Europe.

Colic, n.—Copper-colic, a colic, analogous to lead-colic, arising from chronic copper-poisoning.—Crapulent colic, a colic resulting from overeating.—Menstrual colic, pain in the abdomen due to obstruction to the free flow of the menstrual blood.—Pancreatic colic, pain in the abdomen due to obstruction in the excretory duct of the pancreas.—Saburral colic, pain attending intestinal indigestion.—Uterine colic, a colicky pain supposed to be due to slight muscular contractions of the non-gravid intering.

colica, n. 2. Colic.—Colica metallica, colica sicca. Same as lead-colic.
colic-weed (kol'ik-wēd), n. The squirrel-corn, Bikukulla Canadensis; also, less frequently, the dutchman's-breeches, B. Cucullaria, and species of Capnoides.
colicwort (kol'ik-wert), n. 1. The colic-root,

Aletris farinosa.—2. The parsley-piert, Alche-

milla arvensis.

colitis, n.-Amœbic colitis. See *amæbic

coll. An abbreviation (a) of college; (b) of collegiate.

collæmia (ko-lē'mi-ā), n. [NL., ζ Gr. κόλλα, glue, + αἰμα, blood.] The presence of uric acid in colloidal form in the blood.

collage (ko-läzh'), n. [F., < coller, glue, elarify with gelatin, < colle, < Gr. κόλλα, glue.] The process of clearing wine by means of isinglass

or gelatin. colla parte (köl'lä pär'te). [It., 'with the part.']
In music, a direction for the accompaniment to
follow the tempo of a soloist or leading singer or player. In vocal music also expressed by

collaps, v. and n. A simplified spelling of eol-

colla voce.

(a) Se. (a) (4). A deposit of shell matter about the siphonal funnels in some of the cephalopod mollusks. (b) In plambing, a cone or ring on a pipe to check the flow of melted solder.—Collar- and cuff-shaper, a combined turning- and shaping-machine, made in several forms, all essentially bending-rolls adapted to starched fabrics; a collar-turner and -shaper.—Compensating collar, an annular ring or collar placed on the spindle of a drilling-machine, between the feed-screw and the grooved spindle, to form proper bearing-surfaces, and by the adjustment of which the wear of the collars and spindles can be taken up.—False collar, in a harness, a broad piece of act leather cut to fit the horse's neck. It is worn under a round collar to equalize the pressure upon the neck.

collar, v. t. 5. In cricket, to become complete master of (the bowling): said of the batsman. [Slang.]—6. To lay hold of; 'nab'; take possession of; in foot-ball, to tackle. [Slang.]

A gentleman has a glass of punch before him . . . , when another gentleman comes and collars that glass of punch, without a "with your leave." Dickens, Nich. Nickleby, xv.

collar-bearing (kol'är-bar'ing), n. A bearing collar-bearing (kol'är-bär"ing), n. A bearing *colla parte.
for taking the end thrust on a shaft, made by collect, v. t. 4. In horsemanship, to gain con-

forming or fastening a collar on the shaft and using one face of the collar as the bearing-

collar-bound (kol'är-bound), a. eramped between collars; so caught by collars as to make rotation difficult or impossible. Engine-shafts are sometimes collar-bound by the heating of bearings that run between collars.

collaret, n. 3. In zoöl.: (a) In certain goniatite cephalopods of Devonian age, one of a which apseries of swellings in the shell parently represent successive positions of the stoma or shell-aperture. (b) The circle of tentacles in sea-anemones.

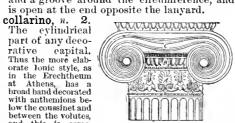
collar-gage (kol'är-gāj), n. A hollow cylinder for testing the size of a cylindrical piece,

collar-gall (kol'ar-gal), n. An indolent raw sore appearing on the shoulders of horses as a result of the irritation caused by an improperly fitting collar.

collargol (ko-lär'gol), n. [Gr. κόλλα, glue, + ἀρχ (γρος), silver, + -ol.] A trade-name for a non-irritant combination of silver with proteid material (colloidal silver), intended for surgical use. Nature, March 26, 1903, p. 503. collar-heart (kol'är-härt), n. Naut., a heart-

block which has one large hole in the center and a groove around the circumference, and

rative eapital. Thus the more elab-orate lonic style, as in the Erechtheum at Athens, has a broad hand decorated with anthemions below the conssinct and between the volutes, and this is some-times called collar-



A, collarino; B, quarter-round or echinus; C, coussinet.

collar-nut (kol'är-nut), n. A nut having a evlindrical collar at one end. The collar is deaigned to provide a suitable bearing-surface and also to prevent a bur which has been formed on the corners of the nut from cutting into the end of the piece which bears against the nut.

collar-pad (kol'är-pad), n. A piece of sole-leather or metal shaped to fit a horse's neck

under the top end of the collar.

collar-palm (kol'är-päm), n. A tool used by horse-collar makers for shaping the collar. It is of iron bent in the shape of a double elbow. collar-pore (kol'ar-por), n. A ciliated tube, or pore, connecting the eavity of the collar of Balanoglossus with the first gill-slit. Parker and Haswell, Zoölogy, II. 2.
Collateral power, in law, a power in which the donee has no estate in the land subject to the power.

collaterate (ko-lat'e-rat), v. t.; pret. and pp. collaterated, ppr. collaterating. [collater(al) + -ate².] To use or pledge as collateral security. [Recent.]

collation, n. 12, (a) In bibliog., detailed comparison of a book with a perfect copy, usually by specifying, by signature-marks or other in dications, the number of leaves (blank as well as printed) and detachable plates or maps, present or absent, in the copy examined, as compared with a perfect copy. The process is usual in the case of all valuable books, especially old ones, it being a highly probable assumption that any book in hand is imperfect. (b) In bookbinding, the examination of the folded sections (signatures) of a book for the purpose of discovering omissions or misplacements of sections.

collationary (ko-lā'shon-ā-ri), a. and n. I. a. Of or pertaining to collation (in some sense).

—Collationary Fathers, apparently, a religious society, so called; but perhaps a feigned name under which Erasmus veiled an allusion to the proselyting orders or protects of the Proselyting. priests of the Roman church.

They were placed in a house of Collationary Fathers. Except from this account of Erasmus, I never heard of these people, nor can learn any more about then. Erasmus says that they were a community who had nests all notes says that they were a community who mad nests an over Christendom, and made their living by netting proselytes for the regular orders. Their business was to catch in some way superior lads, threaten them, frighten them, beat them, crush their spirits, tame them, as the process was called, and break them in for the cloister.

Froude, Erasmus, p. 7.

II. n. A collationary father. See above

The Franciscans and Dominicans admitted that without the Collationaries' help their orders would die out.

Froude, Erasmus, p. 7.

colla voce (kôl'lä vô'che). [It., 'with the voice.'] In musie, a direction for a singer to follow the tempo of the leading singer. See

trol (of a horse) and bring it into a position where it has proper command of its powers.

By a judicious use of the curb rein, yon collect a tired horse. . . You draw his hind-legs under him, throw him upon his haunches, and render him less hable to fall even on his weary or weak fore-legs.

Art of Training Horses, viii. N. E. D.

Collecting-hairs. See *hair1.
collection, n. 8. In logic, many independent
or discrete objects regarded as a single object composed of these objects. In this sense 'many' is to be taken as including the case of a single object regarded as being composed of itself alone. The modern logicomathematical science of multitude (often called the theory of cardinal numbers) relates to the magnitudes of collections.

9. A plural object: an individual object whose existence consists in the existence of whatever individuals may have been mentally connected and regarded as parts of it. Different logicians and mathematicians have different objects in mind in speaking of a 'collection,' without always recognizing that they are at cross-purposes. Most logicians are in the habit of thinking of objects as they would be if they were real, so that each is assumed to be in itself definitely distinguished from every other. With them, the identity of a collection lies in the identity of its individual members; so that whatever metamorphoses the different individuals might undergo, as long as their identities were conserved, that of the collection would remain. But if an individual member is destroyed or a new one created, a different collection is produced, though the definition of the class (which is a collection recognized as consisting of whatever existent objects possess a certain common character) may individuals may have been mentally connected collection is produced, though the definition of the class (which is a collection recognized as consisting of whatever existent objects possess a certain common character) may be unchanged. Most writers on pure mathematics, on the other hand, are in the habit of studying objects that are purely hypothetical, without any consideration of whether any such objects exist. These objects, being mere creatures of thought, possess only such individuality as is determinately predicated of them. They are what the logicians term 'indesignate individuals,' a name which fails to recognize the extrinsic, superimposed character of their individuality. A mathematician, for example, will think of a collection consisting of a dot, of a dot expressly supposed to be other than the former, and of a dot expressly supposed to be neither of the others. These dots, being mere creatures of thought, are entirely alike as long as they are not thought as unlike. But being expressly supposed to be each other than either of two, so they necessarily are in their hypothetical being. Thus the mathematician's collection, being a mera creature of thought, changes its identity as soon as It is altered at all, unless it be expressly supposed to remain the same collection. The logician's collection is also created by thought, but it is thought to exist in the real extence of its individual members. Thus the logician's collection has a derived existence distinct from its essence, which latter lies in the intention of the act of thought which severs the universe into two portions, the one to form the inside and the other the outside of the collection. Accordingly,

has a derived existence distinct from Massesuce, Which after lies in the intention of the act of thought which aevers the universe into two portions, the one to form the inside and the other the outside of the collection. Accordingly, a logician's collection may contain but a single member with which the collection is identical in existence, although its essence refers also to everything excluded. So, too, if to the question, 'What is in this box?' the answer be, 'Nothing,' this word, as a reply to that question, signifies the essence of a collection, namely of the one sole logical collection which has no existence. Collective bargaining, in polit. econ., the determination of wages and conditions of employment by agreements between an employer or a group of employers on the one hand, and a body of employees, acting in concert, on the other. In its simplest form it may be merely the determination of wages, etc., by agreement between a single employer and an informal union of his employees. More often it is extended to practically all the shops of one industry in a city or district, and sometimes in an entire country, as in the cotton-spinning industry in England and the glass-blowing industry in the United States.—Collective suggestion, telesis. See *suggestion, *telesis*. Collective suggestion, telesis. See *suggestion, *tel-

collectivistic (ko-lek-ti-vis'tik), a. Pertaining or related to or accordant with collectivism.

In order to promote the realization of the ideal collectivistic state, Marxists are ready... to become the servants and supporters of capital.

Athenæum, July 7, 1894, p. 24.

collector, n. 8. [pl.] Same as collecting-*hairs.

-9. In the manufacture of artificial silk, a device for collecting and coalescing several collodion filaments from the spinning apparatus, and then winding them upon bobbins. paratus, and then winding them upon bobbins. college, n.—Agricultural college. See *agricultural.—College settlement.—See **ettlement.—College widow, a woman residing in a college town who is assumed to have received the attentions of students of several successive classes, but remains unmarried. [Slang.]—Land-grant college, one of those colleges of the United States, which, under the Land Grant Act of 1862, and the supplementary law of 1890, received grants of land and money for the education of young farmers.

Collemaceæ (kol-ē-mā'sē-ē), n. pl. [NL., < Collema + -aceæ.] The now preferred form for the name of the lichen family Collemei (which see).

(which see). collembolan (ko-lem'bō-lan), a. and n. I. a.

Pertaining to or having the characters of the Collembola.

II. n. One of the Collembola.

collenchyma, n.—Bast-collenchyma. See *bast1. Colleri (kol'e-ri), n.; pl. Colleries (-riz). One of a race occupying the country south of Trichinopoli, formerly so predatory that the word came to be the equivalent of 'thief' in that region.

Colletotrichum (kol-ē-tot'ri-kum), n. [NL. (Corda, 1837), so called from the glutinous character of the hairs; \langle Gr. $\kappa o \lambda \lambda \tau \tau \delta c$, glued, $+ \theta \rho i \xi (\tau \rho \iota \chi -)$, hair.] A genus of melanconiaceous fungi having the fructifications (sporodochia) dark-colored and breaking through the surface of the host. Dark-colored setware produced among the sporophores. The spores are simple and hyaline or light-colored in mass. A number of the species produce serious diseases of cultivated plants. C. Gossypii attacks the cotton-plant. See *\text{Anthracnose of cotton.}

colliculate (ko-lik'\(\text{u}\)-lat), a. [NL. *colliculatus, \(\text{L. colliculus}\), a little hill: see colliculus.]

Having small eminences.

collidone (kol'i-don), n. [collid(in) + -one.] A basic substance related to collidine.

collier1, n.-Collier's stomach, motor weakness of

the stomach due to anemia.

Collier plant-louse. See *plant-louse.

colligation, n. 3. In psychol., a form of mental connection or association in which the constituent elements, after combination, are as distinct as (or even more distinct than) they were or would be in isolation.

Simultaneous color contrast may serve as a typical instance of colligation.

O. Kulpe (trans.), Outlines of Psychol., p. 21.

colligative (ko-lig'a-tiv), a. Pertaining to or effecting colligation.—Colligative properties, in phys. chem., properties which depend only on numbers of molecules: contrasted with additive and with constilutive properties.

But of the purposes served by the colligative properties, that of giving molecular measurements without recourse to the evidence afforded by chemical change is well known to be of the very widest application.

Rep. Brit. Ass'n Atonneement of Sci., 1902, p. 14.

collimate, v. t. 2. To render the line passing through the optical center of the object-glass of a telescope and the middle wire of its reticule strictly perpendicular (or sometimes parallel) to the axis on which the telescope turns: usually by the aid of a collimator, or of star-observations in reversed positions of the instrument.

Collimation axis. Same as line of collimation. collimator, n.—Floating collimator, a small telescope attached to an iron float which swims in mercury. The collimator may be horizontal or vertical: in the latter case the float is a ring, the mercury cistern annular, and the collimating telescope points downward through the sector of the view. center of the ring.

collinal (kol'i-nal), a. [colline + -all.] Relating or pertaining to a colline.

Verrill refers to cases of apparent exothecal budding on the collinal ridges of Meandra. Annals and Mag. Nat. Hist., Nov., 1902, p. 391.

colline, n. 2. In zoöl., one of the ridges of a meandriform coral.

collinear. I. a.—Collinear relationship, a geometrical relationship between two portions of space such that each point, line, and plane in the one has one and but one corresponding point, line, or plane in the other. The object-space of s lens and the image-space corresponding to it are thus collinearly related; every point in the latter being the image and only image of some point in the former. in the former

II. n. A trade-name of a variety of *anastigmat (which see).

collinearity (ko-lin-ē-ar'i-ti), n. [collinear + -ity.] The quality or fact of being collinear, that is, costraight.

collinearly (ko-lin'ē-är-li), adr. In a collinear or costraight manner.
collingual, a. II. n. A person who speaks the

same language as another.

In brief, the tribal relations of the Seri seem always to In orief, the tripal relations of the Seri seem always to have been antipathetic, especially toward the sboriginal tribes of allen blood, in somewhat less measure toward Caucasians, and in least—yet still considerable—degree toward their own collinguals and (presumptive) consangulneals.

17th An. Rep. Bur. Amer. Ethnol., il. 135.

Collinson's flower. The horse-balm, Collinsonia Canadensis.

colliquescence (kol-i-kwes'ens), n. [NL. *colliquescentia, (L. colliquescere, become fluid, (com-, together, + liquescere, become fluid: see liquescent.] Same as liquescence.

Collision and damage, the technical name of a suit in admiralty brought to recover damages by reason of a collision between vessels upon navigable waters.

collocation, n.—Collocations of matter, those features of the physical universe which a complete dynamic explanation would leave unexplained, referring them to initial conditions, namely: the positions and velocities of all particles at any one instant, assumed as an origin of time-measurement.

collocational (kol-ō-kā'shon-al), a. [collocation + -al.] Of or pertaining to collocation.

In the collocational stage of syntax, the chief means resorted to for this end was repetition.

J. Earle, Philol. Eng. Tengue, ¶ 567.

collocative (kol'ō-kā-tiv), a. [collocate + -ive.]
Based on collocation or order of arrangement; of the nature of collocation. S. - 18

There are three kinds of instrumentality which are the most active in the production of this effect [a continuous and consistent signification in the parts of a sentence]. The first of these is collocation, or the relative position of words. . . This . . . we call . . . flat or collocative syntax. J. Earle, Philol. Eng. Tongue, ¶ ¶ 552, 553.

collodiochlorid (ko -lo"di - o - klo'rid). photog., noting a printing process in which the sensitive surface on glass or paper consists of collodion impregnated with silver chlorid.

collodion impregnated with survival collodiogelatin (ko-lo"di-ō-jel'a-tin), a. In process in which a plate photog., noting a process in which a plate coated with washed collodion emulsion is immersed in a solution of gelatin, casein, or a similar substance, to perfect the film; or a plate coated with washed collodion emulsion is washed with hot water and covered with a thin film of rapid gelatin emulsion.

collodion, n.—Albuminized collodion, collodion which has been treated with a clear aqueous solution of egg-albumin, and then separated from the white precipitate.—Blistering collodion, the collodium cantharidatum of the U. S. Pharmacopeia.—Cantharidal collodion, a preparation of collodion containing the chloroformic extract of 60 parts cantharides in 100 parts of the fluished liquid.—Caustic collodion, a solution of corresive sublimate in collodion.—Collodion emulsion. See **Economic extraction**. sive sublimate in collodion. Collodion emulsion. See *emulsion.—Collodion sac method, a method of increasing the virulence of bacteria by growing them in sacs composed of colledion (analogous to parchment dialyzers), introduced into the perticoneal cavity of an animal. Med. Record, April 4, 1903, p. 522.—Collodion transfer, in photog., a finished picture produced in a collodion film on glass which by suitable preparation and handling may be removed from the glass and transferred to paper.—Enamel collodion, an unsensitized collodion used as a varnish for films or prints.—Flexible collodion, collodion with the addition of castor-oil and Canada turpentine. After the evaporation of the ether the collodion film remains soft and pliable owing to the addition.—Methylic collodion, in photog., collodion made by the use of methylic instead of ethylic alcohol.—Styptic collodion. See styptic.

See styptic.

Collodionized paper, paper coated with a film of collo-dion. Photographs so covered may then be painted with oil celers

collographic (kol-ō-graf'ik), a. Of or pertaining to the collograph or to collography. Collographic process. Same as *collography.

collography (ko-log'ra-fi), n. 1. The manifolding of a writing or document by means of the collograph.—2. The art or practice of making prints from photographically prepared printing-surfaces of gelatin. There are two processes, known as heliotype and *collotype (which see), analogous in principle but different in details.

Colloidal metals, metals in a peculiar condition of ex-treme subdivision, in which they remain for an indefinite time suspended or dissolved in water, and often present colors quite different from those exhibited by the same metals in massive form. Silver, gold, mercury, and platinum have been especially studied in this condition.

colloidize (kol'oi-diz), v. t.; pret. and pp. colloidized, ppr. colloidizing. [colloid + -ize.] To produce colloidal or jelly-like structure, as in the incorporation of guncotton with nitrogly-cerin and vaseline or camphor in the manufacture of smokeless powder.

collop, n. 3. A rounded fold of flesh, as on some very fat animals.
colloped (kol'opt), a. Having rounded folds of flesh, as a very fat animal. N. E. D.
collophore (kol'offor), n. [Gr. κόλλα, glue, + -φορος, ζφέρειν, bear.] In entom. the ventral tube of the Collophole tube of the Collembola.

These turned out to be specimens of Podura aquatica, commonly called "Spring-talls," a low type of insect life, in which the month parts have degenerated, [and] a collophore, or sucker, has developed on the ventral side of the abdomeu.

Knowledge, Nov., 1903, p. 259.

colloq. An abbreviation of colloquial.

colloquialism, n. 2. Colloquial style, quality, or usage: as, "a transcript of the colloquialism or usage: as, "a trans of the day," Colcridge.

colloturine (kol-ō-tū'rin), n. [Gr. κόλλα, glue, + L. lus (tur-), incense (?), +-ine².] A crystalline alkaloid found in small amount in the

bark of Symplocos racemosa.

collotype (kol ' ō -tīp), n. [Gr. κόλλα, glue, + rivπος, type.] 1. A photomechanical process by which prints in greasy ink are obtained from a gelatin film used as a printing-surface. When bichromated gelatiu is exposed behind a reversed negative and is washed, a greasy ink will adhere only to those places which have been affected by light. This property was discovered by Fox Talbot in 1853. It is usual to employ a thick glass plate (though metals and parchment paper also serve) for supporting the gelatin, and to cover this glass with a silicate, or an albumin solution, which is dried, as a substratum for the gelatin. More prints can then be run off. The surface of the developed gelatin is kept moistened with a mixture of glycerin and water. The ink is applied with a leather roller for the shadows, and a gelatin roller for the half-tones. The paper on which the proofs are pulled may be glazed or unglazed, and a protecting varnish may be put over the print. from a gelatin film used as a printing-surface.

Collotype would have done more justice to the 'Alphabet of Death' and the Old Testament wood cuts than the line process which has been employed.

Athenæum, Dec. 19, 1903, p. 832.

A print from a photographically prepared film of gelatin upon a glass or metal plate. collotypic (kol-ō-tip'ik), a. Of or pertaining to collotype productions or processes.

colloxylin, colloxyline (ko-lok'si-lin), n. [Gr. κόλλα, glue, + E. oxy(gen) + -l- + - in^2 .] Same as pyroxylin.

colluctation, n. 2. An agitation or disturbance of the particles of a substance. [Rare.]

Natural Baths, or Hot-Springs, do not owe their Heat to any Colluctation or Effervescence of the Minerals in them.

J. Woodward, Nat. Hist. of the Earth, iii. 161.

colluvial (ko-lū'vi-al), a. [colluvies + -al¹.] Belonging to or composed of colluvies; consisting of alluvium in part and also containing angular fragments of the original rocks: contrasted with alluvial and diluvial.

Collybia (ko-lib'i-ä), n. Collybia (ko-lib'i-ä), n. [NL (Endlicher, 1836), so named from the flat circular pileus; $\langle Gr, \kappa \delta \lambda \lambda \nu \beta o \varepsilon, a \text{ coin.}]$ A large genus of white-spored agaries, having a fibrillose stem without volume. without volva or annulus and the gills mostly adnate. C. radicata is a very common and widely distributed species occurring in woodlands, and producing a long, root-like extension of the stem.

Collyrites (kol-i-rī'tēz), n. [NL., (Gr. κολλυρίς, a loaf of bread, + -ites, E. -ite².] A genus of spatangoid Eucchinoidea, or sea-urchins, having the apical system disconnected, the bivium and trivium widely separated, and periproct posterior: typical of the family Collyritidæ and very abundant in the Jurassic and Cretaceous rocks.

collywest (kol'i-west), adv. [Also colleywest, kolliwest.] Same as collyweston. [Prov. Eng.] collyweston (kol-i-wes'ton), n. [Appar. from the name of a person.] 1. In the phrase 'lt's all along of Colly Weston,' said when anything goes wrong.—2. Nonsense.—3. Oppositions of the collision of the collisio position. [Prov. Eng. in all uses.]

collyweston (kol-i-wes'ton), adv. [Also colleyweston, collywesson, collywest, galleywest, etc.; from the noun.] In an opposite direction; often as an adjective, contrary, contradictory.

[Prov. Eng.] Colo. The official abbreviation of Colorado.

coloboma, n.—Bridge coloboma, n defect in the iris by which it is divided into two by a thin band of normal iris tissue.—Coloboma palpebra, a fissure dividing the eyelid vertically.

colocentesis (kol*ō-sen-tē'sis), n. [NL., \langle Gr. κόλον, colon, + κέντησις, puneture.] In surg., puneture of the colon to give egress to retained

colocolic (kol-ō-kol'ik), a. [Gr. κόλον, colon, + κόλον, colon, + -ic.] Pertaining to two non-contiguous portions of the colon.

When a colectomy is impossible because of the site of the lesion, as, for instance, in the splenic flexure, an anas-tomosis is indicated, either colo-colic or ileo-sigmoid. Therapeutic Gazette, Feb. 15, 1903, p. 102.

colocolostomy (kol*ō-kol-os'tō-mi), n. [Gr. κόλον, colon, + κόλον, colon, + στόμα, mouth.] In surg., establishment of a permanent communication between two non-contiguous portions of the colon.

colocynth, n.—Compound extract of colocynth, a brown cathartic powder made by melting purified aloes 16 parts, adding alcohol 10 parts, soap 14 parts, extract of colocynth 16 parts, and resin of scammony 14 parts; heating to 120° C. until homogeneous; cooling; adding cardamon 6 parts; and reducing to a fine powder: the extractum colocynthidis compositum of the U. S. Pharmacopæia.

colo-enteritis (kol " ō - en - te - rī'tis), n. [Gr. κόλον, colon, + NL. enteritis.] Inflammation Inflammation of both the large and the small intestine.

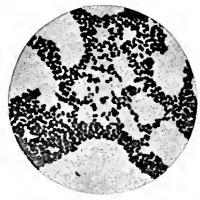
cologarithm (kō-log'a-rithm), n. The logarithm of the reciprocal of a number so taken that the mantissa is positive. The characteristic may be positive or negative.

Cologne brown. See ★brown.—Cologne spirit, a trade-name for common or ethyl alcohol freed with special care from fusel-oil or other disagreeably smelling inpurities, and used in the manufacture of can de Cologne and other perfumes: also frequently selected for pharmaceutical use.—Cologne yellow. See *yellow.

colombiano (kō-lōm-bē-ā'nō), n. [Sp., < Colombia (see def.): see Colombian.] A silver coin of Colombia, of the value of 8 reales.

colon³ (kō-lōn'), n. [Named after Columbus, Sp. Colón, the discoverer of America.] silver peso or dollar of Costa Rica, of the value of 46½ cents or 100 centavos.

Colon bacilins. Same as ★Bacillus coli communis, See cut on following page.



Colon Bacillus (Bacillus coli communis) from agar culture.

Magnified tooo times. (From Buck's "Reference Handbook of the Medical Sciences.")

colonel. n. 2. In angling, the name of an artificial salmon-fly. Colonel commandant, the chief of a brigade of artillery, engineers, or marines in the British service.

Colonel Bogie. In *golf*, an imaginary player to whom is assigned, by the committee in charge, a score against which the players have

This "Bogie" score usually represents par play over the green, and it is made known before the competition begins, so that each competitor knows what he has to do at every hole. Each player counts his score at every hole, and if he holes out at that particular hole in lewer strokes, or in the same number, or in more than the appointed number, he wins, halves, or loses the hole to "Bogie" as the case may be. At the end of the game the number of holes won from "Bogie" are placed against those lost to "Bogie," and the player who is the greatest number of holes up or the fewest down wins the competition.

W. Park, Game of Golf, p. 13.

colonial. I. a.—Colonial goose, a boned leg of mutton stuffed with sage and onions. [Australia.]

II. n. 2. pl. Colonial products, securi-

ties, etc.

colonialism, n. 3. The colonial principle or system: as, British colonialism works well.

colonialist (ko-lo'ni-al-ist), n. One who favors

colonialism or the colonial principle.

colonic (kō-lon'ik), a. [Irreg. \(\cdot colon + -ic \)

The normal adj. is colic.] Relating to the colon. Buck, Med. Handbook, l. 14.

colony, n., 4. (c) A circumscribed aggregation of bacteria of the same species in artificial culture.

5. In sociol., a group of individuals of like nathres or having a common interest, living by themselves as a self-sufficient social organization.

Many schemes have been suggested, such as that carried out by the Salvation Army, for giving such men work in a labour colony; but as yet no scheme offers a solution.

Encyc. Brit., XXXII. 675.

Charter colony. See ★charter.—Doctrine of colonies in paleon., a proposition set forth and defended by the Bohemian paleontologist Barrande to account for the appearance of representatives of a fauna in rocks antedating the normal horizon of that fauna. He supposed this earlier partial appearance of a fauna to be due to the in-cursion of its species from an outside basin or neighboring carrier param appearance in a familia 50 bette to the ring province through the temporary breaking-down of geographical barriers, and the hypothesis involved the conception that the same faunas which were contemporaneous in adj-ining provinces may be successive in the provinces independently. The invading congeries, finding itself in an environment unpropitions for its perpetuity, was soon extinguished, and the normal fauna resumed its occupancy until driven out and replaced by its permanent successor. These ideas have been combated by other ge-logists, and the phenomena involved in the Bohemian basin have been for the most part accredited to displacements by faulting; but it is now conceded that the fundamental conceptions involved in the theory are true for any normal succession of faunas, the culminant development of any fauna being preceded or heralded by the appearance of detached bodies of that fauna in the rocks before the earlier dominant fauna has departed. Such premature appearances have been termed prenuncial faunas.

colopexy (kol-ō-pek'si), n. [Gr. κόλον, colon, $+\pi_i(\xi_i)$, a fixing.] lu surg., an operation for the attachment of a too movable portion of the colon to the abdominal wall.

colophan (kol' $\hat{0}$ -fan), n. [colophon(y) + -an.] An amorphous resin obtained from elemi.

Golophene camphor. See *camphor. colophilene (kol'ō-fi-lēn), n. [coloph(ene) + -il + -ene.] A hydrocarbon of uncertain identity, formed by treating colophene hydrochlorid with barium hydroxid.

colophonin (kol'ō-fō-nin), n. [colophon(y) + -in².] A crystalline compound (colophonin hydrate), C₁₀H₂₂O₃ + H₂O, formed when that portion of the oil obtained by distilling colo-

phony which boils at 103-104° C. is allowed to stand for some days with water. The free

colophonin is also crystalline.

colophonone (kol'ō-fō-nōn), n. [colophon(y) + -one.] An oily mixture obtained by the dry distillation of colophony.

coloproctia (kol-ō-prok ti-ā), n. [Gr. κόλον,

coloproctia (kol-ō-prok'ti-ā), n. [Gr. κόλον, colon, + πρωκτός, anus.] Same as *colostomy. coloptosis (kol-op-tō'sis), n. [Gr. κόλον, colon, + πτῶσις, falling, lapse.] Prolapse of the colon.

colopuncture (kol'ō-pungk-tūr), n. [Gr. κόλον, colon, + L. punctura, puncture.] Same as *colocentesis.

color, n. 18. pl. In faro, a system of play by which the cards bet upon are selected according to the color of the first winner or first loser.—19. pl. The commission of ensign in the British military service; usually a pair of colours .- 20. In calico-printing, any mordant or pigment that is printed on cloth, made into a paste by means of some thickening subor pigment that is printed on cloth, made into a paste by means of some thickening substance, as starch, gum, etc.—Acid color, one of an important class of artificial dyestuffs; so named because they are applied in an acid bath. They are used in dyeing and printing animal fibers, but are of little or no value in the coloring of vegetable fibers.—Acridine color, a color related to acridine.—Albumen colors, in textile printing, colors which are held upon the fiber mechanically by means of coagulated albumen. They are, without exception, pigments.—Alizarin colors, a group of artificial dyestuffs which are related to alizarin in their composition and therefore belong to the larger group of anthracene colors. They are mordant colors, polygenetic in character, and noted for their fastness. The term is sometimes erroneously applied to mordant dyestuffs not related to alizarin.—Animal color, a color of animal origin. Such colors are derived chiefly from insects, and include such dyestuffs as cochineal, kernnes, and lac-dye.—Anthracene color, one of an important group of coal-tar coloring matters directly related to anthracene. This group includes alizarin and other important mordant colors.—Anthracyptic colors. See *anticryptic colors. See *anticryptic colors. See *anticryptic colors. See *anticryptic.—Apastetic.—Azon color, any artificial dyestaff which is an azo compound, that is, which contains one or more azo groups. The azo colors are very extensive, and are divided into a number of subclasses. sce *anicryptic. Apatetic colors. See *apatetic.—Aposematic colors. See *aposematic colors. See *aposematic.—Azin color, a color related to one of the azins.—Azo color, any artificial dyest. Which is an azo compound, that is, which contains one or more azo groups. The azo colors are very extensive, and are divided into a number of subclasses. See coal-tar colors.—Basic color, one of an important class of artificial dyestuffs, for the most part substituted ammonias and consequently basic in character. They dye cotton upon an acid mordant, commonly tannic acid, and dye wool directly. They are largely used in calico-printing and in the coloring of ginghams. As a class they are very fast to washing, but not fast to light. Also called tannin colors. For specific basic colors see *bdue, *preen, *red, etc.—Benzidine colors, a name by which the direct cotton colors are sometimes designated, since benzidine is the starting-point in the preparation of many of them. Christiansen's colors, colors produced by submerging pieces of a clear colorless substance, such as glass in a colorless liquid of the same refracting power. Owing to the different dispersion of the solid and liquid the indices of refraction of the two are strictly identical for only a single wave-length. For other wave-lengths there is reflection of light at the faces between solid and liquid, and since the intensity of reflection depends on the difference of the indices, color-effects sometimes of great beauty result.—Color index, a term used in hematology to designate the relative amount of hemoglobin contained in a red blood-corpuscle. The index is obtained by dividing the hemoglobin percentage by the red-corpuscle percentage. Colors of thin plates, the colors produced by the interference of light reflected from the first with that reflected from the second surface of thin layers or films of any transparent substance.—Color standard, a classified assortment of pigments the color constants of which are known. Comparison with these makes it possible to desig

Ingrain colors, insoluble colors which are actually formed upon and within the grain or body of the fiber during the coloring process. With one or two exceptions their application is confined to the vegetable fibers. The ingrain colors are discontinuously and the pass of application is to prepare the cloth with one compound and then pass it through a solution of a second substance which will react with the first and form an insoluble colored compound upon the fiber. See prenantemities were which will react with the first and form an insoluble colored compound upon the fiber. See prenantemities were which simultaneously possess the characteristics of the acid and basic colors and also the peculiar property of dyeing unmordanted cotton in an acid bath. In composition they are characterized by containing sulphonic said groups and both amido and azogroups. They are applied to wool as acid colors and to cotton as basic colors are coloring, a name by which the direct cotton colors are sometimes designated; so called from Kongo red, discovered in 1884, which was the first direct cotton colors are sometimes designated; so called from Kongo red, discovered in 1884, which was the first direct cotton colors. Mongon and slate-colors are excellent examples of mode shades.—Monozogo Color, one of a class of coal-tar coloring and slate-colors are excellent examples of mode shades.—Monozogo Color, one of a class of coal-tar coloring and slate-colors. A colory and a coloring control of the most part acid colors. Monogenetic colors, dyestuffs capable of producing only one color, of, at the most, that so reshades alone colors. See also polygenetic *colors.—Monogenetic colors, and the most, that so reshades do no color. See also polygenetic *colors.—Monogenetic colors, and the most, that so reshades do no colors. See also polygenetic *colors.—Monogenetic colors, the control of the colors of the colors. The content outward, as recorded by Sir Isaac Newton. The con Colorado grass. Same as concho-grass.—Colorado group. See *group1.

Colorado River trout. See *trout1.

color-blindness, n. Since it is estimated that one man in twenty-five is color-blind, the importance of recognizing this defect in railroad or maritime employees, whose occupation requires the ability to distinguish quiekly between signals of different colors, is evident. Many

color-blindness

European governments and a few of the United States now have laws regulating the examination of applicants for such positions. The large railroad companies on their own account test the vision of new men and require all employees to submit to reëxamination at stated intervals. Numerous tests have been devised for this purpose, but practically only two are used in official examinations. One of these is nearly always founded on the wool test of Holmgren. In this a hundred or more skeins of wool, all different in color or shade, are placed in a pile, and the applicant is required to select first all the skeins corresponding in color to a light green skein. The test is then repeated with a rose-pink skein, and in some cases with a bright red one. The color-blind person hesitates in making his selections and matches the colors incorrectly. The other test consists in the use of a lantern so arranged as to show the light through one or more disks of glass, the color, size, and brightness of which can be varied so as to simulate lantern signals under different conditions of distance, fog, smoke, etc. The wool test is sometimes modified by having the skeins suspended side by side from a stick, so that the selections may be made more quickly. Instead of skeins of wool, colored blocks, small glass tubes filled with colored powders, or slips of paper of different colors, are sometimes used, or colored letters are printed on a colored background in such a way that some of them cannot be distinguished from the background by color-blind persons. In official examinations the aenteness of vision for form and the hearing are usually tested, as well as the function of color-perception. It should be added that the wool and lantern tests are by no means adequate tests of colorbolindness at large. Many the aenteness of vision for form and the hearing are usually tested, as well as the function of color-perception. It should be added that the wool and lantern tests are by no means adequate tests of color-blindness at large. Many cases of red-green blindness are missed by the wool test; and the lantern test merely shows whether or not the employee can distinguish the particular colors used under the particular conditions of observation, not whether or not he is partially color-blind. To detect the less obvious cases of partial color-blindness, recourse must be had to some instrument of precision, such as Hering's color-blindness tester, in which the color-tone and brightness of complementary color-pairs can be accurately and measuromplementary color-pairs can be accurately and measur-

color-box, n. 3. In calico-printing, a long trough, attached to a cylinder printing-machine, for holding a color to be applied to an color-box, n. engraved roller.

color-chord (kul'or-kôrd), n. A fanciful term sometimes used to describe color combinations which are decidedly agreeable, like the russet and green of a forest, or the violet and yellowish green of the wistaria.

color-curve (kul'or-kerv), n. A curve which shows the differences in the focal length of the object-glass of a telescope for rays of different color (wave-length).

color-defective (kul'or-dē-fek"tiv), n. One who is partially or completely color-blind. Stud. Yale Psychol. Lab., VIII. 17.

color-disk (kul'or-disk), n. A disk for use in the color-wheel. See Maxwell color-disks (under disk); and *color-mixer, and Masson's *disk (with cuts).

colored sounds. See *sound5.
color-hearing (kul'or-hēr'ing), n. A condition in which a certain sound calls up the memory of a certain color, and vice versa. See *ehromæsthcsia. Buck, Med. Handbook, HI 603

Colorimeter, n.—Hehner's colorimeter, an apparatus for volumetric analysis by the color-method. Two graduated glass cylinders, with stop-cocks at the sides and with flat bottoms, are used—one to hold the solution having a standard color, the sample to be tested being placed in the other. The comparison of color is made by looking avisilly through the cylinders. Liquid is withdrawn from the one having the deeper that until hoth are alike. The strengths of the solutions are inversely as the readings of the graduated scales. Thus if 100 cubic centimeters of the unknown solution give the same that as 20 cubic centimeters of the standard, the unknown solution is one fifth as strong as the standard.—Leed's colorimeter, an apparatus for comparing the relative depth of color of liquids. The light is reflected from above by a mirror, and is transmitted lengthwise through the tubes, and the colors are compared in the mirror below the stage.—Stead's colorimeter or chromometer, an apparatus for the comparison of colored solutions, used in estimating the proportion of carbon in steel.

colorimetrical (kul-o-ri-met'ri-kal), a. Same

colorimetrically (kul *o-ri-met 'ri-kal-i), adv. Having reference to a colorimetric comparison; by means of the colorimeter.

colorimetry, n. 2. The quantitative measurement, as in chemical analysis, of a colored substance by comparing the depth of color of its solution with that of a solution of known strength of the same or a similarly colored

substance.

substance.
colorin (kō-lō-rēn'), n. [Sp. colorin, intense color, ⟨color, color.] A name in Mexico of several plants having bright-colored seeds which are sometimes used by the natives for beads, especially of Erythrina coralloides, a small thorny tree, with trifoliate leaves, belonging to the Fabaceæ.—Colorin chiquito, the Mexican rosary-pea, Dolicholus phaseoloides, a twining plant with small, hard, red-and-black seeds very closely resembling the common crabs'-eyes of the West Indies (Abrus Abrus). The plant, however, is easily distin-

guished by its trifoliate leaves, the leaves of Abrus being pinnate with many pairs of leaflets. See also $\star chilicote$.

guinared by its tritoliate leaves, the leaves of Abrus being pinnate with many pairs of leaflets. See also *chilicote.

Coloring, n.—Aggressive coloring. See *aggressive.
—Cryptic coloring, animal coloring which serves to conceal its possessor, so as to hide it from its enemies or prevent its prey from discovering it. It may be for defense or for attack, general or special.—Epigamic coloring, sexual coloring which by its display serves to attract or stimulate the other sex during the countship of animals.—Episematic coloring, animal coloring which serves as a recognition-mark for other individuals of the species.—Procryptic or pretective coloring, organic coloring which serves to conceal its possessor from enemies.—Pseudallosematic, pseudaposematic, pseudaposematic, pseudaposematic, pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic, *pseudaposematic coloring, warning or aposematic coloring like that of allied species. Coloring-wheel (kul'or-ing-hwel), n. In leather-manuf., a wheel or drum into which skins are

manuf., a wheel or drum into which skins are put with the coloring liquid and revolved until sufficiently colored. Flemming, Practical Tanning, p. 179.

coloristic, colouristic (kul-or-is'tik), a. Of or pertaining to color or coloring.

Instead of imitating the old masters, let us paint the colouristic charms that were unknown to them.

Encyc. Brit., XXXII. 440.

coloritype (kō-lor'i-tīp), n. [L. color, color, + Gr. τίπος, type.] The art of making photoengraved plates or printing-surfaces that can be used for the production of prints in many colors from three plates only, respectively planned for the primary colors yellow, blue, and red. See *colortype.

colorless, a. 2. In bot: (a) Having no other

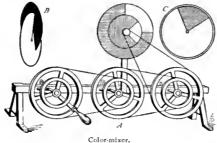
color than green. (b) Pale or hyaline. Jack-

son, Glossary.

color-line, n. 3. In psychophys.: (a) The outline of the plane figure (circle, square, triangle) which gives a diagrammatic representation of color sensations and their interrelation. (b) Any straight line joining two points on or within the solid figure (sphere, double cone, double pyramid) which gives a diagrammatic representation of the totality of visual sensations.

colorman, u. 2. In leather manuf., the man who mixes the dyes. Most factories have a special workman who attends to this.

color-mixer (kul'or-mik"ser), n. In psychophys., an instrument for the mixture of colors. The usual form of the instrument is the color-top or color-wheel. This consists essentially of a vertical or horizontal axle, capable of rotation at high speed, upon which may be



A, color-mixer; B and C, disks.

clamped disks of black, white, or colored cardboard. clamped disks of black, white, or colored curdboard. If
the disks are slit along one radius, several may be fitted
together, and mounted on the uxle at the same time; the
separate Impressions on the retina then succeed each
other so swiftly that only the result of mixtmre is seen.
The color-wheel, electrically or mechanically driven, is
one of the staple instruments of the psychological laboratory.—Marbe's color-mixer, a form of the color-wheel
in which the relation of the sectors of the mounted disks
may be changed at will during rotation.—Reflection
color-mixer, a color-mixer in which a pane of clear glass
is set, at a certain inclination, between two horizontal
strips of colored paper. The observer, looking down
through the glass, sees the reflection of one strip projected
upon the image of the other.

color-pan (kul'or-pan), n. In calico-printing, a vessel, usually of copper, employed for dissolving and stirring thickeners and colors.

color-plate (kul'or-plāt), n. A printing-plate for one color only made for a print which is to be fully developed, in a perfect copy, by the printing of other colors from separately prepared plates.

color-screen (kul'or-skren), n. A plate of colored glass or other transparent medium, interposed in the path of a beam of light to absorb certain rays while allowing the rest to pass; specifically, a screen which cuts out but the middle portion of the spectrum, so that when it is interposed before an isochromatic plate it becomes possible to obtain satis-

factory photographs of celestial objects with refractors which are not photographically corrected.

color-slab (kul'or-slab), n. A slab or plate of white porcelain upon which little patches of the various colors used in porcelain-painting have been burned in to serve as a guide to the artist, showing the result each material will give in firing.

color-tone (kul'or-ton), n. 1. Gradation and harmony of color.

'The most important part of color-tone atmosphere, Millet was fond of saying, 'can be perfectly rendered in black and white.'

J. Cartwright, in Burlington Mag., V. 52.

2. In psychol., the color quality of a colored impression; chroma or hue, as opposed to

color-top (kul'or-top), n. A top the surface of which is systematically tinted in such a way that when it revolves it exhibits the phenomena of color-mixture by persistence of See *color-mixer.

color-tub (kul'or-tub), n. In printing calico by hand with blocks, a box for holding the color employed by the printer.

color-tube (kul'or-töb), n. See *tube.
color-type (kul'or-tip), n. A pictorial print
produced on the ordinary typographic printingpress by the three-color process from three photo-engraved plates that respectively convey the primary colors yellow, blue, and red. When the outline or form is indistinct, a fourth plate of black is sometimes added. Secondary and tertiary shades of color are made by the dissection and combination of the overlapping primary colors in the processes of printing. color-weakness (kul'or-wek-nes), n. lnability

to distinguish colors at low degrees of saturation: for example, the inability to see the redness of a washed-ont pink or the blueness of a navy blue.

color-wheel (kul'or-hwell), n. A wheel designed to demonstrate the phenomena of colormixture. See *color-mixer.

colory, coloury (kul'or-i), a. and n. [color + -y¹.] I. a. 1. Abounding in color: as, good colory cows. [Colloq.]—2. Of a color that indicates excellence of quality: as, colory hops, or coffee, or tobacco.

n. A packer's grade of light leaf-tobacco, from which tobacco for pipes and cigarettes is manufactured. This grade of tobacco is produced chiefly in Maryland and Ohio and is largely exported.

An abbreviation of Colossians.

colossalize (kō-los'al-īz), v. t. [colossal + -ize.] To render colossal; impart colossal proportions.

proportions.

A third-rate author, owing his fame to his effigy colossalized through the lens of John Wilson.

Emerson, Letters and Social Aims, p. 188.

colostomy (ko-los'tō-mi), n. [Gr. κόλου, colon, + στόμα, mouth.] In surg., the establishment of a permanent opening (artificial anus) into some portion of the colon.

Med. Record, July

some portion of the colon. Med. Record, July 11, 1903, p. 71.

colpalgia (kolp-al'ji-ä), n. [NL., ⟨Gr. κόλπος, bosom, womb (vagina), + ἀλγος, pain.] In med., pain in the vagina.

colpocystocele (kol-pō-sis'tō-sēl), n. [Gr. κόλπος, womb (vagina), + κίστις, bladder, + κήνη, tumor.] In surg., prolapse of the bladder, which pushes before it the well of the der which pushes before it the wall of the vacina.

colpocystotomy (kol"pō-sis-tot'ō-mi), n. [Gr. κόλπος, womb (vagina), + κίστις, bladder, + -τομία, < ταμείν, ent.] In surg, incision into the bladder through the vagina.

colpodesmorraphia (kol-pō-des-mō-raf'i-ā), n. [Nl., ζ Gr. κόεπος, womb (vagina), + δεσμός, a band, + ραφή, a sewing.] In sury.. an operation for reducing the capacity of the vagina by removing a section of the mucous mem-brane and uniting the edges of the defects. The object of the operation is to furnish support to a prolapsed womb.

colpohysterectomy (kol-pō-his-te-rek'tō-mi), u. [Gr. κόλπος, womb (vagina), + hysterec-tomy.] In surg., removal of the uterus by an

operation through the vagina.

 ${\bf colpomyomectomy} ({\it kol-p\"o-m\"i-o-mek't\"o-mi}), n.$ [Gr. $\kappa\delta\sigma$ $\pi\sigma_c$, womb (vagina), $+\mu\bar{\nu}c$, muscle, + $\ell\kappa\tau\sigma\mu\eta$, excision.] In surg, removal of a myoma of the uterns through an incision in the vaginal wall.

colporrhexis (kol-pō-rek'sis), n. [NL., < Gr. κόκπος, womb (vagina), + ρηξίς, breaking, < ρηγνίναι, break.] In surg., a laceration of the vaginal wall.

colpos (kol'pos), n.; pl. colpoi (-poi). [Gr. κόλπος, the bosom, the lap, a deep hollow, bay, gulf, etc.: see gulf.] In Greek costume, a fold in a garment, as the chiton, above the girdle. It was sometimes used as a pocket.

colpos

colpostenosis (kol"pō-stē-no'sis), n. [NL., < Gr. κόλπος, womb (vagina), + στένωσις, narrowing.] In surg., stricture of the vagina. colpotomy (kol-pot 'ō-mi), u. [Gr. κόλπος, womb (vagina), + στομία, < ταμεῖν, eut.] In

surg., incision into the vaginal wall.

supp., meision into the vagina war. colpoxerosis (kol pok-sē-rō'sis), n. [NL., < Gr. κόλπος, womb (vagina), + ξήρωσις, a drying up, < εποδιν. dry up, < επρός, dry.] In med., ox-brane.

colt. v. t. 2. To beat with a rope's end. See colt, n., 4. Marryat.

colter, n. 2. In medieval armor, a two-banded

Flemish weapon with one edge straight and the other curved: so called from its resemblance to the colter of a plow.

colt-ill (költ'il), n. An infectious eatarrhal fever affecting horses. Young animals principally are attacked. One attack confers sub-

sequent immunity. See strangles. coltskin (költ'skin), n. The skin of a colt; as a trade term, leather made from skins of colts or of horses. Flemming, Practical Tanning, p. 397.

colt's-tail, n. 2. The small mare's-tail or cat's-

colugo (kō-lō'gō). n. [E. Indian.] The common name for the flying-lemm, Galeopithecus volaus. Called also kaguan and kubong.

colulus (kol'ū-lus), n.; pl. coluli (-lī). [NL., dim. of L. colus, distaff.] A small comb-like selerite at the base of and between the front spinnerets in many spiders. Annals and Mag. Nat. Hist., Jan., 1904, p. 65.

Columbellaria (kol-um-be-lā'ri-ā), n. [NL.] A genus of platypodous gastropods with spiral ribs, long and narrow aperture, thickened and spirally ribbed outer lip. It occurs in the Upper Jurassic rocks.

Columbia black, blue, brown, etc. See *black, *blue, *brown, etc.
Columbia formation. See *formation.

Columbia River sucker, trout. See *sucker,

columbiad, n. 2. [eap.] An epic of Columbia, that is, America: used as the title of several poems, as one by J. L. Moore (1798), one, better known, by Joel Barlow (1808), and one in French (La Colombiade) by Madamo de Boecage (1756).

Columbian 1, a.—Columbian type, a former name of a type-body now known as 16-point (.2213 of an inch). Columbian² (kō-lum'bi-an), a. [Columbus + -ian.] Of or pertaining to Columbus; in ethnol., pertaining to the period of American history beginning with the discovery of the continent by Columbus: called more definitely post-Columbian.

columbiform (kō-lum'bi-fôrm), a. bus, a dove or pigeon, + form, form.] Having the characters or appearance of a pigeon.

columbin² (kō-lum'bin), n. [columbo + $-in^2$.] A colorless, crystalline, bitter principle, C_{21} $H_{22}O_7$, contained in African columbo-root,

H₂₂O₇, contained in African columbo-root, Jateorhiza palmata.

columbine², n.—Red or wild columbine, Aquilegia Canadensis, a favorite American wild-flower, sometimes cultivated, with bright red showy nodding flowers: common on rocks from Nova Scotis to North Carolina and westward to the great plains. The large red columbine is A. coccinea, a larger and less common species with a similar but somewhat more restricted range. —Tuffed columbine, a name applied to both Thalictrum glaucum, native in Spain, and T. aquilegifolium. The former is also called Spanish-tuft, and the latter feathered columbine. See Thalictrum.

columbium, n. 2. In chem., a supposed new element announced in 1879 by J. L. Smith as present in the mineral samarskite: its existence has not been confirmed. Distinct from the previously known element columbium or nio-bium.

columbo, n.—Extract of columbo. See *extract. columbotitanate ($k\bar{0}$ -lum - $b\bar{0}$ -ti' tan - \bar{a} t), n. [columb(ie) + titan(ic)² + -ate².] In chem. and mineral., a compound in which the basic element or elements are united to the radicals of both columbie (niobie) and titanie acids, as in the mineral enxenite.

Columellar lobe, in the nomenclature of the septal sutures of the cephalopods, the median lobe on the dorsal surface of the whorl, which is usually the inner or concave aurface. Also called antisiphonal lobe, dorsal lobe, and comb-basket (kōm'bàs"ket), n. In bec-keep-combinate, a. 2. Combined.

interior lobe. - Columellar muscle, in gastropods, a muscle that is attached to the columella and serves to draw the body into the shell.

column, n. 11. A short upright line which separates written or printed words or symbols. Its most common uses are to indicate, in copied or reprinted passages, especially title-pages, the ending of a line in the original copy, and in metrical works, liturgies, chants, etc., the close of a foot, rhythm, or measure.

12. The mast or vertical member of a hoisting apparatus, such as a crane, usually so constructed that no bracing or guys shall be required at the top to resist the bending stresses due to the load.—Close column, a hattalion in column of companies or platons with less than full distance between the subdivisions. Also called battalion distance between the subdivisions. Also called battation in mass.—Column at full distance, a battalion in column of companies or platoons with such distance between subdivisions that the column can wheel into line.—Column of files, two files (or one file) of men faced to right or left.—Column of fours, a column composed of four files or of ranks of four.—Diminished column, one whose shaft is tapered. Seventasis and *diminish, v. i., 2.—Erosion column, a tower-like form resulting from rain wash and weathering of incoherent strata or loosely humal sediments with more resistant enuity. bound sediments with more resistant capping. Amer. Jour. Sci., April, 1904, p. 265.—Lotus column. See lotus *capital.—Parallel columns, two or more columns of printed matter placed side by side to show agreement or disagreement in words or expression.

columnal. II. n. A segment or joint of the stem of the Crinoidea.

columnar, a. 3. In geol., divided into columns, by tension-joints, as is frequent in flows of basalt. The Giant's Causeway, in Ireland, is a famous instance. Gcikie, Textbook of Geol., p. 136.—4. Arranged, written, or printed in columns, as in Chinese, Japanese, Korean, etc., writing.—Columnar architecture, cell. See *architecture, *cell.—Columnar structure.

(b) In petrog., a structure resulting from a system of columns, often six-sided: produced in igneous rocks by shrinkage upon cooling, in sedlinentary rocks by loss of volume due to contact-metamorphism.

Columnaria (kol-um-nā'ri-ä), n. [NL., < LL. columnaris, columnar.] A genus of extinct Tetracoralla growing in compound stocks, composed of polygonal corallites, which bear horizontal tabulæ and two cycles of septa. It occurs in Silurian and Devonian rocks.

Columnia Intermedia, an area of gray matter in the spinal chord, between the anterior and posterior horns. columniated (ko-lum'ni-ā-ted), a. Same as columnated.

column-pipe (kol'um-pīp), n. 1. The pipe which eonveys the drainage water in a mine shaft from the bottom pump to the surface. - 2. The pipe and fixtures connecting a steam-boiler to the water-column which carries the water-gage and try-eocks.

colunar (kō-lū'när), a. $[eo^{-1} + lune + -ar^3]$ Pertaining to the same lune. If A and A' be opposite points of a sphere, then the spherical triangles ABC, A'BC are columar. Together they make up a lune. Colure, n. 2. In vegetable pathol., a disease of the grape, characterized by the falling of the

flowers and the imperfect development of the fruit. It has been attributed chiefly to unfavorable elimatic conditions.

com. An abbreviation (a) of commission; (b) of commoner; (c) [cap.] of commonwealth.

coma), n.—Diabetic coma, the coma which often marks the final stage of diabetes mellitus.—Uremic coma, coma occurring in the later stages of uremia. comale (ko-mā'le), n. [Sp., < Nah. comalli.] A flat disk or stone for baking corn-bread.

Comanche series. See *scries.

comatulin (kō-mat'ū-lin), n. [Comatula + -in².] A red pigment found in certain inver-

tebrates (crinoids).

comb¹, n., 2. (m) A series of points fastened to a stick, used in pricking the skin in tattooing. (n) pl. In zoöl., paired ventral pectinated appendages of the shdomen of scorpions. They are of systematic importance. (o) A wooden form employed by riggers for weaving mats, etc. (p) In agri, an implement with teeth and a long handle, used to strip the seed from grass or other low-growing plants; a seed-gatherer. (q) In zoöl., one of the rows of immense cilia, fused at their proximal ends, which form the swimming-plates and serve as the locomotor organs of Ctenophora.

10. See *comb-flower. A **A**

10. See *comb-flower.—Antlered comb, in poultry. 10. See *comb-flower.—Antlered comb, in poultry, a comb formed of two divergent branches, or 'horns,' such as is found in some Pollsh fowls and in the La Flèche.—Drone comb, honeycomh in which drone-brood or drone-honey may be found.—Segmented comb, in cotton-manuf,, the needle-segment on the cylinder-comb of a combing-machine. See *comb-segment.

combl, v. t. 4. To subject to a process or action in the cylinder comblets.

tion similar to that of combing, as in dredging: as, to comb oyster-beds.

comb-bar (köm'bär), n. In bobbin-net and lace-manufacture, an iron bar divided into a number of grooves, or combs, for guiding the thread-bobbins in forming the lace meshes.

Also called a conducting-bar.

Combinantive (kom' bi-nan-tiv), a. [combinantive] [

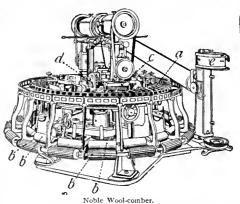
ing, a receptacle for the combs in a honey-extractor.

comb-bucket (kōm'buk"et), n. In bee-keeping, a wooden bucket with a tight-fitting lid, used in transporting frames filled with honeycomb from the hives to the building where the combs are uncapped and the honey extracted.

comb-cylinder (kom'sil"in-der), n. A revolving cylinder which performs the chief part of the combing process on a cotton-combing machine.

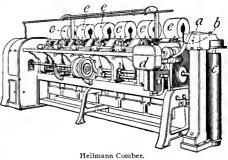
combed, a. 2. In geol.: (a) a term applied to prismatic crystals, especially of quartz, which grow toward each other from opposite walls of a fissure and interlock: used chiefly in describing mineral veins. Also comb-in-comb. (b) Surmounted by a sharp edge or comb.:-

comber1, n. 3. A machine for combing cotton, wool, and other textile fibers .- Alsatian



a, conductors or boxes; b, b, b, b, c, creel-rolls; e, dabbing-brush; d, stroker or divider; e, coiler,

comber, a recent improvement of the Heilmann principle of cotton-comber, whereby the fluted segment is abolished and the nip and feed apparatus has a movement toward the detaching rolls, which permits an increased production to be passed through these rolls at each revolution of the cylinder.—Bourcart's comber, a cotton-combing machine having two sets of combs, which, with the necessary appliances, emble the machine trun at an increased speed for an increased production.—Heilmann comber, a machine used chiefly



a, coiler; b, sliver; c, sliver-can; d, draw-box; e, lap,

for combing cotton, to be used in the finer qualities of yarn, by means of nipping and combing devices that lay the fibers, of uniform length, parallel to each other for a continuous and even sliver. It was invented by Josué Heilmann of Mülhausen, Alsace, to whom an English patent was granted In 1846. It is substantially the same to-day as when first invented, the improvements being confined to mechanical details.

 ${\bf comber-board} \ ({\tt k\"o'm\'er-b\"ord}), \ n. \ \ {\tt A} \ \ {\tt perforated}$ board, on a Jacquard loom, for keeping the harness-cords separate and in position.

comber-lap (kô'mèr-lap), n. A ribbon or web of eotton prepared for the operation of combing on a combing-machine.

comb-fish (kōm'fish), n. A name given in British Guiana to the saw-fish, Pristis pectinatus, one of the thick-tailed rays, having the rostrum produced and armed with spines lat

comb-flower (kom'flou "er), n. eone-flower or black-sampson, Brauneria purpurea, so called from the stiff and sharp comblike chaff of the receptacle. The name is extended to other species of the genus. The dry heads with persistent chaff are called *combs*.

A work . . . thoughtfully planned out, so as to be wrought . . . by combinate minds, could never possess, if accomplished singly, the . . . character and intentions of its original desirant desirant countries. of its original designers.

Mrs. Browning, Letters to R. H. Horne, H. 110.

combination, n. 6. At ball-pool, a designed shot by which a cue-ball makes one or more objeet-balls drive another into a pocket; at ordinary billiards one that similarly effects a carom or pocket. - 7. In lace-manufacture, a complex arrangement of threads.—8. Same as combination-room.—9. Same as *combination garment. -10. Specifically, in organ-playing, whatever stops are drawn for use in a particular piece or passage, or the tonal effect thus produced. The process or art of choosing the stops to be used is registration, but each particular choice is a combination.—Back combination, in photog., that portion of a doublet lens which is situated nearest the focusing-screen.—Combination and double-action die. See *die3.—Combination and double-action die. Back combination, in photon, that portion of a doublet lens which is situated nearest the focusing-screen.—Combination and double-action die. See *die3.—Combination bearing. See *bearing.—Combination bevel. See *bearle.—Combination bevel. See *berel.—Combination button or pliston, in organ-building, a push-knob belonging to some one section of the instrument, and usually placed just below its keyboard, by pushing which a stop or combination of stops for that keyboard can be called into action. If there is a series of auch pistons, pushing one releases any previously in operation, and all can be released by a special piston called the release. The mechanism is either pneumatic or electric. Sometimes it actually moves the stop-knobs, in which case the combination not only replaces that previously obtained by the latter, but may subsequently be modified by drawing or retiring them; but sometimes the piston action does not affect the stop-knobs, in which case, if the piston is released, the combination through the knobs is reinstated. In some organs the combination secured by a particular piston is fixed, but in others it is adjustable in various ways according to taste. Compare combination pedal and composition pedal.—Compination by volume, in chem., combination considered in the gaseous, such volumes or bulks of substances in the gaseous, such volumes being compared under the same conditions of temperature and pressure. The volumes of solids and liquids which combine have also been atadied, but do not exhibit relations of the same definiteness and simplicity.—Combination by weight, in chem., combination to the continuous considered with reference to the atudied, but do not exhibit relations of the same definiteness and simplicity.—Combination by weight, in chem., combination considered with reference to the definite weights, or more properly masses (quantities of matter), of the substances which are found to combine with each other. See law of equivalents, under equivalent, n.—Combination car, chock, die. See *\arrangle arrangle arrangl

Combinational distribution. See *distribu-

combinatoric (kom - bī - ua - tor 'ik), n. [combinator-y + -ic.The theory of the formation, enumeration, and properties of the combinations, permutations, partitions, and variations of a finite number of elements according to different given conditions.

comb-in-comb (kom'in-kom'), a. Same as *combed, 2.

combine, r. i.—Combining weights, in chem., the relative quantities of different substances which are found to combine with each other: as, 35.18 parts of chilorin and 22.88 parts of sodium, or quantities in this proportion, are required to produce common salt.

combing-needle (kō'ming-nē'dl), n. One of a attached to a cylinder known as the combing-eylinder.

combining-tube (kom-bi'ning-tub), n. The tapering tube or channel in the injector for feeding boilers, within which the feed-water meets the energizing steam-jet and combines comdt. with the latter. In the injector this combin-comedist (kom'e-dist), n. [comed-y + -ist.] ing-tube is convergent in section; in the ejector A writer of comedies. Athenæum. it is a divergent orifice.

comb-rib (kom'rib). n. The meridional swim-

ming-organ of a etenophore, from which it derives its name.

comb-roller (kom'ro''ler). u. A roller having projecting teeth of radial or curved wire, to act upon fibers (as of cotton) and cause them to lie straight and parallel for the next process: used in spinning-machinery.

comb-segment (kom'seg'ment), n. A section of the combing-cylinder of a cotton-combing machine. There are usually two segments, the needle and the fluted: the object of the former is to comb the fibers, and that of the latter to enable a tuft of cotton to be detached after it has been combed, and to aid in attaching it to the previously combed sliver.

comb-spring (kom'spring), n. A series, or one of a series, of parallel springs attached to and projecting from a supporting base like inder to which are attached the combing-needles of a cotton-combing machine. Nasmith,

Cotton Spinning, p. 152. comburent (kom-bu'rent), a. and n. [L. comburens, ppr. of comburere, burn up: see combust.] I. a. Supporting combustion.

II. n. Anything that supports combustion. combust, v.i. 2. To burn up or consume with fire. Caxton.

"Good Lord, yon don't suppose that I would go spontaneously combusting any person?"

Dickens, Bleak House, xxxiii.

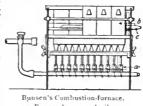
Dickens, Bleak House, xxxiii.

combust, a.—Combust way, in astrol., the space in the second half of Libra, and through the whole of scorpio. combustion, n.—Heat of combustion. See *heat.—Isothermal combustion, combustion which takes place at a constant temperature, or without change of temperature.—Spontaneous combustion. Besides the rapid oxidation, beginning at common temperature and leading to heating and ignition, of such materials as greasy rags, the pyrites of coal, etc., spontaneous combustion is in some cases exhibited by substances, such as zinc-ethyl and cacodyl, for which the temperature of ignition lies at or below the common temperature of the sir, and which therefore take fire at once on coming in contact with atmospheric oxygen.—Supporter of combustion, in chem., the substance, usually gaseous, and in the most common cases oxygen gas, which is relatively electronegative in the union with production of heat and light (combustion or burning) of two substances, the other, relatively electropositive, being spoken of as the other, relatively electropositive, being spoken of as the combustible or fuel. - Surface combustion process.

combustion-chamber (kom-bus'chon-cham'-ber), n. A space, of relatively large crosssection, behind the furnace which must be traversed by the hot gases from a boilergrate, and in which they will be thoroughly mixed with oxygen and have an opportunity to burn completely. It is usually a chamber into which the gases pass directly from the fire-hox. combustion-furnace (kom-bus'ehon-fer"nās).

The heating apparatus used in chemical laboratories in earrying out the usual process for the ultimate analysis of an organic substance by subjecting it to com-plete combustion and collecting the produets. As originally devised by Liebig, it consisted of a trough of sheet-iron in which charcoal was bnrned; at the present day it usually consists of one or more rows of gas-jets with separate stop-cocks, serving to heat the tube of hard glass, or of platinum, in which the combustion is effected.—Bun-

sen's combustion-furnace, a form of heating-apparatus especially designed for the ultimate analysia of forganic aubstances. From 10 to 20 Bunsen burners in line, each provided with a stop-cock and with an air-regulating slide, serve as the source of heat. The com-



of heat. The combustion-tube. bustion-tube orbited paratus to be heated is supported in an iron trough lined with asbestos, while fire-clay tiles inclose it and form a chimney, confining the heat to the space about the tube. A high temperature is thus obtained.

Combustion-tube (kom-bus'chon-tub), n. A

tube of hard (Bohemian) glass, infusible except at high temperatures, in which substances combing-needle ($k\bar{o}'$ ming-ne \bar{o}' dl), n. One of a are subjected to heat, as in ultimate analysis, series of graduated needles which form the comby ($k\bar{o}'$ mi), a. [comb1 + -y1.] 1. Like a comb of a cotton-combing machine. They are comb; specifically, in grol., applied to banded mineral veins some or all of whose layers consist of thickly set, parallel prismatic crystals in section resembling a comb. Geikic, Textbook of Geol., p. 814.—2. Like a honeycomb; honeycombed: having many cavities. An abbreviation of commandant.

Comedy, n. 5. A narrative poem: applied to the Divina Commedia ('Divine Comedy') of Dante. See Dante and Divina Commedia in the Cyclopedia of Names.—Light comedy, a humorous and refined play with a more or less complex plot and a happy ending, representing events, situations, and scenes in ordinary life.—Low comedy, a broadly humorous or 'droll' comedy with no particular plot and tending to farce.

come-hither (kum-hiru'er), n. committeer, comitteer, commether, comether, comother, etc.] 1. A persuasive call to a child or an animal. Compare *comether.—2. A call to a horse to come toward one: usually to the left side, where the carter walks when driving without reins. [Prov. Eng. and Scotch.] comendite (ko-men'dit), n. [Comende on the island of San Pietro, S. W. coast of Sardinia, + -ite².] In petrog., a name given by Bertolio (1895) to a variety of rhyolite with ægirite,

arfyedsonite, or riebeekite.

comb-stock (kōm'stok), n. The barrel or eyl- comenic (ko-men'ik), a. [A metathesis of meconic.] Derived from meconic acid.—Comenic acid, a bibasic acid, $C_6 \Pi_4 O_5$, obtained by boiling meconic acid with water or with hydrochloric acid.

come prima (kō'me prē'mā). [It.: come, as, < L. quo modo, in what manner; prima, at first, before, < L. primā, abl. fem. of primus, first: see prime.] In music, as at first: a direction for repetition.

comer, n. 2. In stock-raising, an animal that is 'coming on' or promises well.

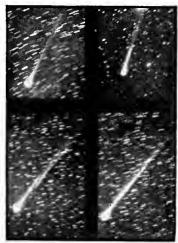
He has made good growth since he came before the public as a feature of the Nave dispersion, and still shows that remarkable looseness and elasticity of hite that indicates a "comer" when he is put next to the feedbox.

*Rep. Kan. State Board Agr., 1901–1902, p. 202.

comes, n. 5. In astron., a small companionstar in any double, triple, or multiple 'sys-

come sopra (kō'me sō'prā). n. [It.: come, as; sopra, < L. supra, above.] In music, as above: a direction for repetition.

comet, n. 1. Comets are doubtless visitors, and not members of the solar system in any such sense as are the planets. Until recently it was believed that they come from interstellar space: but from the facts that hyperbolic orbits are extremely rare, and that there is no distinct arrangement of their orbits relative to the direction of the sun's motion in space, it now appears nearly certain that they originate in clouds of matter which partake of that motion, remote, outlying remnants of the huge nebula within which the solar system is supposed to have been developed. The distance from which they descend and to which they return is, however, generally so great that their orbits, though really elliptical, cannot be distinguished from parabolas in the part near the sun. The orbits of short period (Jupiter's comet-family for instance) are in all probability due to the capture of comets passing near one of the larger planets under such conditions that their speed is retarded, while the few hyperbolic orbits are explained by planetary encounters under the less frequent conditions which produce acceleration. The dimensions of comets are enormous: none less than 10,000 miles in diameter are recorded, and some have considerably exceeded the size of the sun itself. Their mass. 10,000 miles in diameter are recorded, and some have considerably exceeded the size of the sun itself. Their mass,



Borrelly's Comet of 1903.

From photographs made at the Yerkes Observatory, wer figures show the remarkable changes in the comet's to took place during about four hours on the night of July 24.

on the other hand, is relatively insignificant, as is demonstrated by the fact that in certain cases, when they have passed so close to a planet as to suffer violent perturbation and even disruption, the planet itself and its satellites have shown not the slightest effect from the encounter. The mean density of comets must therefore be extremely low,—comparable with that of the best artificial vacuum. But it does not follow that they may not contain dense particles of stone, or even iron, widely diffused in rarefied gas: indeed this is probable from the ascertained connection between comets and meteors, and from certain spectroscopic phenomena. While reflecting sunlight to some extent, the comet is also self-luminous with a light in some way excited by its approach to the sun, though not by simple heating. The spectrum is always mainly gaseous, and is usually marked by four bright bands identical with those shown by the blue cone of a Bunsen burner flame: there are, however, occasional exceptions, and when a comet has passed very near the sun, as in 1882, the bright lines of various metals have appeared in the spectrum. The gaseous spectrum must not be regarded as showing that the gas is the principal constituent of the comet's mass, but only that it is the one which is most consplcuously luminous; nor must it be taken as necessarily indicating a dame-like temperature: it is much more probable that the temperature is low, and that the gas shines by luminescence rather than by heat. While the tail of a comet is due mainly to solar repulsion, there is also distinct evidence of forces acting from within the comet itself, excited by the nearness of the sun. The tail often consists of a narrow stream or streams emanating from the comet's head, and this type is perhaps more frequent than the horn-shaped come which envelops the head and widens out behind it, shown in the figure under comet. As to the energy which acts against gravitation and drives off the materials of the train, it is likely that several forces coope on the other hand, is relatively insignificant, as is demon-

onstrated repulsive power of light-waves upon minute onstrated repulsive power of light-waves upon minute particles, the action of electrified corpuscles and 'ions' liberated from intensely heated surfaces, and the influence of 'radioactive' substances presumably abounding in the sun; all these and others still are conceivable and not improbable. Photography promises much in the study of these bodies, and has already brought out many interesting facts. The light of comets is strongly actinic, and the photograph reveals much which the telescope utterly fails to show.

to show.

5. In photog., a comet-shaped defect appearing on gelatin dry plates. Woodbury, Encyc. Dict. of Photog., p. 132.—Biela's comet. A short-period comet discovered by Biela in 1826, the second of its class. Its period is 6.6 years. In 1846 it separated into two, and has not been seen since its reappearance in 1852. The Andromedid or Bielid meteors, appearing in occasional meteoric showers about the 90th to the 23d of November, travel in its orbit, and are supposed to be the products of its disintegration.

Cometary nebula. See *nebula.

comet-family (kom/et-fam/i-li), n. A number of periodic comets which have orbits that nearly intersect the orbit of one of the larger planets and are supposed to have been captured

planets and are supposed to have been captured on some past occasion of near approach, their orbits having then been transformed from parabolas to ellipses. Jupiter's comet-family comprises nearly thirty members with periods ranging from three to eight years. Saturn'is credited with two, Uranus with two, and Neptune with six.

comet-group (kom'et-gröp), n. A number of

comets which, though certainly distinct, have orbits almost identical, and are presumed to have had a common origin. Four or five such comet-groups are recognized, the most remarkable of which is composed of the great comets of 1668, 1843, 1882, and 1887, all of which passed extremely near the sun.

comether (ko-meth'er), n. [Also comedher, committeer; a dial. pronunciation of come hither, used in coaxing children, cows, horses, etc.: see *come-hither.] 1. Used in the phrase 'to put one's (or the) comether ou (a person),' that is, to subject him to coaxing or wheedling; to win him over by flattery or persuasion, beguile him. [Prov. Eng. and Irish.]

How does nt come about, sort, that whin a man has put the comether on wan woman he's sure bound to put ut on another? . . . An ye thought ye'd put the comether on her.

R. Kipling, Courting of Dinah Shadd, ii.

2. Friendly intercourse. [Irish.]—3. Matter; affair. [Irish.] Eng. Dial. Dict. cometoid (kom'e-toid), a. and n. I. a. Re-

sembling a comet. A name proposed in 1805 (but never II. n. adopted) for the asteroids, on account of their eccentric orbits.

comet-seeker, n. 2. An astronomer who makes a specialty of seeking comets.

comforter, n.—Job's comforter. (a) One who (like Job's three friends), while professing to comfort and console a friend in affliction, really makes matters worse by argumentative fault-finding, or the like. (b) A boil: in allusion to those with which Jobi's supposed to have been afflicted. [Colloq. in both uses.]

Com.-in-Chf. An abbreviation of Commander-in chief.

comitative (kom'i-tā-tiv), a. [NL. *comitativus, & L. comitatus, accompaniment: see comitatus.] 1. That serves to express accompaniment, association, or connection; associative.

A small number of adverbial prefixes are found only in combination with other elements. Thus:...(b) The comtitative prefix sa, used instead of the preposition sám, and exchangeably with sahá, before nouns and adjectives.

Whitney, Sanskrit Grammar, p. 364.

2. In gram., noting the case expressing com-

panionship (with). Also as a noun. Amer. Anthropologist, Jan.-March, 1903, p. 26.

comiteco (kō-mi-tā'kō), n. [Mex. Sp.] A stimulating liquor distilled from a species of agave. [Mexico.] Sci. Amer. Sup., Dec. 12, 1903, p. 23365.

comitium (kō-mish'i-um), n. [L.: see eomitia.] In Rom. hist., the meeting-place of the comitia (which see).

(which see).

comitiva (kō-mi-tō'vä), n. [It., a party, for *comitativa, < L. comitatus, a company: seo comitatus.] An organized band of brigands or of lawless people. [Southern Italy.]

comi-tragedy (kom-i-traj'e-di), n. [comi(e) + trayedy. Cf. tragicomedy.] A tragedy with a conic element in it.

a comic element in it.

I know no better method . . . than . . . quoting . . . a passage in which he transfers the whole comi-trayedy from Italy of old to England in 1861.

Kingsley, Roman and Teuton, Lecture ii.

Comley sandstone. See *sandstone. comm. An abbreviation (a) of Commander; (b) of commentary; (c) of commerce; (d) of

commonwealth. Comma degeneration, progressive degeneration of the nervous substance comprising the comma tract.—
Comma tract, a tract of white nerve-fibers found within the posterior external column of the spinal cord.—Gray

comma, an American nymphalid butterfly, Polygonia progne, found in the northeastern United States and Canada. Its larvæ feed on the elm, currant, and gooseberry.

—Green comma, an American nymphalid butterfly, Polygonia faunus, common in the northern United States and Canada. Its larvæ feed on the alder, willow, black birch, currant, and gooseberry.

command, n.—9. In whist and bridge, the best card of a suit, usually of one which the adver-

saries are trying to establish.

commandeer (kom-an-der'), v. t. [D. commandeeren, (F. commander, whence E. command, v.] To order (the enrolled militia) into active military service: originally with reference to the late Dutch republics of South Africa, which were charged with forcing aliens also into the military service.

The naive claims put forward by the Boers to some special Providence—a process which a friendly German critic described as "commandeering the Almighty."

A. Conan Doyle, Great Boer War, xili.

2. To seize private property for military or other public use.—3. To seize public or private property for private use, under color of military necessity or right; steal from a helpless victim. [Humorous.]

However, we were able by using the commandeered property of the Boer frau, to produce a newspaper of pretentious size and considerable importance.

J. Ralph, in War's Brighter Side, p. 52.

commandeer (kom-an-der'), n. The act of commandeering.

"So here'a my bloomin' health," says he; "I'm on the commandeer."

And without another word he commandeered it.

War's Brighter Side, p. 157.

commando, n. 2. The enrolled militia of an electoral district in the late Dutch republics of South Africa.—3. A unit of the Boer army

commanded by an officer whose title was Com-

A messenger was also sent to warn the Fauresmith commando of 400 to 500 men, which was approaching the town, that they had better disperse.

J. Ralph, in War's Brighter Side, p. 90.

To go on commando, to take the field or join an armed force in the field.

We sailed upon commando
To vierneuk our Brother Boer—
A landlord and a Protestant,
What could the bloys want more?
R. Kipling, The Friend, in War's Brighter Side, p. 136.

commelinaceous (ko-mel-i-nā'shins), a. pertaining to, or having the characters of the Commelinaceæ.

commensally (ko-men'sal-i), adv. In the manner of a commensal.

commerce, n.—Bureau of Foreign Commerce. See $\star bureau$.—Interstate commerce law. See $\star law^1$. commerce-destroyer (kom'ers-des-troi"er), n.

A type of cruiser designed with special reference to the destruction of an enemy's com-merce. It has high speed and coal endurance, with comparatively weak offensive and defensive powers.

commerce-destroying (kom'ers-des-troi"ing), m. The systematic pursuit and capture of merchant vessels of the enemy, by armed cruisers especially devoted to this purpose. It is the modern equivalent of privateering, which has been abolished among civilized nations.

The advantage of geographical nearness to the enemy, or to the object of attack, is nowhere more apparent than in that form of warfare which has lately received the name of commerce-destroying, which the French call guerre de course. This operation of war being directed against peaceful merchant vessels which are usually defenceless, calls for ships of small military force.

Mahan, The Influence of Sea Power upon History, p. 30.

Commercial agency. See mercantile *agency.— Commercial botany. See *botany.— Commercial geography. See *geography.— Commercial pitch. Same as auction-pitch (which see, under pitch!).

commercialism, n. 3. A commercial custom or expression.

The excruciating commercialism 'Maria wrote Mrs. Inchbald' for 'wrote to Mrs. Inchbald' defaces almost every page. Athenæam, Mar. 3, 1883, p. 273. N. E. D.

4. The supremacy of commercial over moral considerations; regard for commercial or financial advantage only: as, commercialism in politics.

commercialist (kg-mer'shal-ist), n. A commercial person; an adherent of commercialism. Heaven forbid that the clamour philosophizing commer-cialists should prevail! Southey, Espriella's Letters, xxxviii.

commerciality (ko-mer-shi-al'i-ti), n. Commercial quality or spirit; as, "the commerciality of modern artists," Pall Mall Gazette, Oct. 4, 1889.

commercialization (ko-mėr/shal-i-zā'shon), n. [commercialize + -ation.] Conversion to com-

mercial character or uses: as, the commercialization of the military railways of India or Rus-

commercialize (ko-mer'shal-iz), v. t.; pret. and pp. commercialized, ppr. commercializing. [commercial + -ize.] To render commercial in character, methods, or spirit; make a matter of

Agriculture . . . nas been . . . really a branch of trade.

J. Bryce, Amer. Commonwealth. Agriculture . has been . . . commercialized, and

commerge (ke-merj'), r.; pret. and pp. commerged, ppr. commerging. [L. com-, together, + mergere, drown, bury: see merge.] I. trans.

To merge together; mingle.

II. intrans. To come together; coincide.

Carlyle.

commergence (ko-mer'jens), n. The condition of mingling, particularly mingling of blood. commers, n. See *kommers.
commissary, n. 5. [F. eommissaire de police.]
A superior officer of police in France. Macaulay.

- 6. A general store for supplying workmen in any large industry.

commissary-general, n. 2. A chief commissarv.

commission, n. 9. In navaluse, a period of active service of a war-ship, from the time she is put into commission until she is again out of commission. In the British navy this period is from 2 to 5 years. In the United States navy there is no fixed length of commission.

The commanding officer of one of these ships has atated "that they may go through a commission and never beel or roll more than one or two degrees."

White, Manual of Naval Arch., p. 245.

White, Manual of Navat Arch., p. 245.

Commission of stamps, in Eng. taw, the commissioners of inhand revenue who had the care and management of the stamp-duties.—International Polar Commission a commission representing ten of the most important nations, appointed for the purpose of carrying out the proposition of Lieutenant Weyprecht, that there be at least one year of simultaneous meteorological, magnetic, and other physical work executed by all nations of the globe within the arctic circle. The period August lat, 1882–8ept. 1st, 1884, was agreed upon for this work, and about twenty stations were occupied in the arctic region, and ten in the antarctic. All of the observations made have been published by the respective governments.—Out of commission, (naval), not in active service, as a war-ship laid up in ordinary, or in reserve without officers and crew: by extension, said of anything not in condition for use or not in working order.—United States Commission of Fish and Fisheries.

See *Bureau of Fisheries.

commission, v. t. 3. To order, as a war-ship, into active service, or to place in commission with formal ceremony.

with formal ceremony.

commissioner, n. 5. A betting-broker at a race-track. [Slang.]—Commissioner of array.

See *array.—Shipping commissioner, an officer appointed by the circuit courts of the United States for a port of entry, whose duty it is to facilitate and superintend the hiring and discharge of seamen; to secure the presence on board at the proper time of the men employed, and to facilitate apprenticeship to sea-service, etc. The officer in the United Kingdom charged with these duties is called the shipping-master.

commissionership n. 2. The district under

commissionership, n. 2. The district under a commissioner.

If the Government is wise they will add to his commis-sionership the whole of the Kalahari desert.

Pall Mall Gazette, November 19, 1884.

n the covernment is wise they will add to his commissionership the whole of the Kalahari desert.

Pall Mall Gazette, November 19, 1884.

Commissura aberrans, a band of commissural fibers crossing the epithelial roof of the third ventricle midway between the dorsal (hippocampal) and superior (haben-ular) commissures: present in Lacertilia and Sphenodon. The commissura aberrans indicates in the mesial plane the caudal limit of the attachment of the cerebral hemisphere to the rest of the neural tube. G. E. Smith.—

Commissura ansata, fibers of nervous substance which pass across the optic chiasm between the tuber cinereum and the lamina terminalis cinerea.—Commissura cruciata, the decussating fibers of the optic chiasm.—Commissura dorsalis, a band of fibers, in or near the lamina terminalis, which extends into each hemicerebrum and ultimately enters the hippocampus. Some have homologized this structure in the lower vertebrates with the rudiment of the fornix or callosum, or both.—Commissura fornicis, a term sometimes used to designate the fornix of the brain in mammals. The name has been provisionally applied by Wilder to a transverse band that the internal of the crista fornicis. In the lower vertebrates it is identical with the commissura abervans of Smith.—Commissura habenularum, a band of fibers passing transversely in the roof of the third ventricle near the anterior pedancles of the epiphysis. The peduncle is known as the habena or habenula. The commissure takes its name from its position adjacent to the habenulæ. Also called superior commissure and supera commissure.—Commissure commissure and supera commissure commissure, commissure and precommissure, the latter terms being more commonly used in connection with the higher vertebrates. Also applied to the anterior commissure of the spinal cord.

Commissure, a.—Arcuate commissure. Same as Gudden's *commissure.—Gudden's *commissure. abundary.

commissure, n.—Arcuate commissure. Same as Gudden's *commissure. — Gudden's commissure, a bundle of nerve-fibers, at the posterior part of the optic

chiasm, running along the mesial side of the optic tracts to join the internal geniculate bodies of the two sides. Also known as the inferior or arcuate commissure.

Hippocampal commissure, a term sometimes used to indicate the fusion of the hippocampion the median line to form the formix. In the lower vertebrates it is synonymous with *commissura fornicis* and *commissure* aberrans. Some have homologized it with the *commissure* aband of fibers immediately posterior to Gudden's commissure, a band of fibers immediately posterior to Gudden's commissure, a tris closely applied to the optic chiasm and appears to give fibers to it: described by Edinger in reptiles and by Boyce and Warrington in birds.—Superior commissure, Same as *commissura habenularum.—Supra-infundibular commissure, a bundle of fibers situated near the caudal attachment of the infundibulum to the brain. It appears to arise in the lateral walls of the third verticle.

commit² (kom'it), n. [Said to be a mistaken form for the F. cométe, comet. The game was invented during the appearance of Halley's comet, and the idea of the game is that of a string of cards forming a tail to the one first string of cards forming a tail to the one first played.] A game of cards. The eight of diamonds is thrown ont of a full pack. Cards are dealt out one at a time as far as they will go, any remaining being left on the table for stops. The eldest hand leads, and every card in sequence and suit with it must come in order, the play being much the same as in newmarket (which see), the first to get rid of all his cards winning the pool.

commodatum (kom-ō-dā'tum), n. [ML.: see commodate.] In law, a kind of bailment in which property is loaned to another to be returned without compensation for its use.
commodo (kom'ō-dō), a. [It., easy, moderate:

see commodious.] In music, easy or moderate,

as in a tempo commodo, in moderate time.

Common counts. See *count1.—Common feeling, in psychol., the general feeling of bodily comfort or discomfort, which is conditioned mainly upon the mass of organic sensations that constitute the background of consciousness. See canesthesis.

The common feeling is always the immediate expression of our sensible comfort and discomfort, and is therefore, of all our composite feelings, most closely related to the simple sense-feelings.

W. Wundt (trans.), Outlines of Psychol., p. 161.

common traverse. See *traverse. commonage, n. 3. The commonalty.

The whole baronetage, peerage, commonage of England.

Thackeray.

common-law marriage. See *marriage. communal, a. 3. Of or pertaining to the commune of Paris (which see, under commune²).

communal forest. Same as town *forest. Theory of communal intensity. See *intensity. communality (kom-ū-nal'i-ti), n. [ML. *communalitas, < communalis, common: see communal and commonalty.] The condition of belonging to a community.

Finally the material sacrifice commonly leaves dependents (widows, children, and perhaps agelings) to be supported by the informal public bounty of tribal life, or perhaps to be distributed among scattered families in such manner as to strengthen sentiments of community in interests.

Smithsonian Rep., 1901, p. 76.

communalization (kom'ū-nal-ī-zā'shon), n. [communalize + -ation.] The act of communalizing or of rendering communal; specifically, the abolition of private ownership in certain kinds of property in which the public is inter-ested, such as land, water, light, etc., and the vesting of it in the commune or local community for the common good; the conversion of private ownership and management into communal ownership and management.

communalize (kom'ū-nal-īz), v. t.; pret. and pp. communalized, ppr. communalizing. 1. To render communal; to convert into municipal property, as water-works, street railroads, etc. —2. To convert to a belief in communal ownership and initiative.

communalizer (kom'ū-nal-ī-zer), n. advocates or favors the communalization of land and some other kinds of property in which the general public is interested.

communicant, a. 2. In anat., same as com-

municating; noting one of several nerves or arteries. Buck, Med. Handbook, H. 251.

communication-room (kg-mū-ni-kā'shon-röm), n. In a war-ship, a compartment with sound-proof walls below the protective deck, containing a steering-wheel, the switchboards for telephones and speaking-tubes, and engine and steering telegraphs, which forms a central station for the interior signaling apparatus and other means of communication throughout

Communion in both kinds, the reception of the sacrament of the eucharist under the forms of both bread and wine.

communionist (ko-mū'nyon-ist), n. Same as communicant.

[Irreg. Of or belonging to a

communitorium (ko-mű-ni-tő'ri-um), n.; pl. communitoria (-a). [communit-y + -orium.]
The home of a (socialistic) community; a settlement on communistic principles. N. E. D.
communization (ko - mū - ni - zā shon), n. [communize + -ation.] The making of anything the public property of the community.

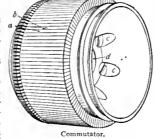
communize (kom'ū-nīz). r. t. [L. communis, eommon, + -ize.] To make common; make (something) the property of the community.

commutate (kom'ū-tāt), v. t.; pret. and pp. commutated, ppr. commutating. [L. commutatus, pp. of commutare, change: see commute.]
To change; commute; specifically, to change the direction of, as an electric or magnetic circuit, or part of a circuit.

commutator, n. 3. In elect., that part of a continuous current dynamo electric magning.

continuous-current dynamo-electric machine

which, by revolving in contact with the brushes, turns or directs the electrical actions in the armature coils of the machine so as to make the current and the voltage in the external circuit continuous. It usually consists of a large number of



a. commutator bars; δ , mica insulation ϵ , clamping-screws; d, shaft-hole.

copper bars, con-nected with the armature coils of the machine, and sepa-rated from each other by mice insulation.

4. In photog., a device for automatically effecting the exposure of a number of photographic plates at various predetermined instants during a total celipse of the sun. D. P. Todd, in Rep. Brit. Ass'n Advancement of Sci., 1901, p. 541. commutual, a. 2. Contiguous; adjoining; noting, in anat., two surfaces in apposition or nearly so.

Comocladia (kō-mō-klā'di-ä), n. [NL. (Patrick Browne, 1756), ζ Gr. κόμη, hair, foliage,



Comocladia ilicifolia, a branch bearing leaves and spikes of minute flowers (reduced). (From Engler and Prantl's "Pflanzenfamilien.")

κλάδος, shoot, branch.] A genus of plants + $\kappa\lambda$ doc, shoot, branch.] A genns of plants of the family Anacardiaecæ. They are shrubs or trees, with odd-pinnate leaves, clustered toward the ends of the branches, the leaflets usually mucronatedentate. The flowers are minute and are disposed in axillary panicles nearly as long as the leaves. There are about ten species, natives of the West Indies and Central America. The fruits of C. integriodia and C. dental America. The dye. The abundant glutinous juice of C. ilicifolia and on ther species which turns black on exposure to the sir, is poisonous to the touch.

comoid (kō'moid), a. [Gr. $\kappa \delta \mu \eta$, hair, + $\epsilon l \delta \sigma_{\epsilon}$, form.] Hair-like; resembling hair: in metcor, noting the hair-like structure of some kind of

noting the hair-like structure of some kind of

cirrus clouds (mare's-tail cirrus). comortgagee (cō-môr-gā-jē'), n. One of several parties to whom the same mortgage is

comospore (kō'mō-spōr), n. (Gr. κόμη, hair, + comospote (as interpret), i. (CI. λομη, nan, σπορά, seed.] In phytogeog., a plant whose seed or fruit is provided with hairs or bristles as a help to dissemination. F. E. Clements. compact¹, a. 6. In petrog., dense without pores: also applied to extremely fine-grained textures

in which the individual crystals or grains cannot be seen by the unaided eye: equivalent to aphanitic, cryptocrystalline, and *cryptoclastic.

A com- companion v. t.—II. intrans. To associate or keep company: used with with: as, to companion with vagabonds.

companionage (kom-pan'yon-āj), n. The whole body of Knights' Companions, or a list of them: as, "The Peerage, Knightage, Baronetage, and Companionage of the British Empire." (Title of a book.)

companion-cropping (kom-pan'yon-krop"ing), n. The practice of growing companion crops (which see, under ★crop).

companion-hatch (koin-pan'yon-hach), n. Naut., a hatch fitted with companion-ladders

for access to living quarters.

companion-ladder, n. 2. A sloping ladder with flat treads or steps, for passage from one deck to another.

deck to another.

COMPANY, n.—Bearer company, a company of soldiers whose duty is to remove the wounded from the bsttle-field.—Catalan Grand Company, a body of adventurers which Peter of Aragon brought into Sicily in 1282 against Charles of Anjou. In 1302 they entered the service of the Byzantine Emperor Andronicus against the Turks. When their chief Roger di Flor was assassinated in 1306, they abandoned the emperor and settled in the duchy of Athens, where they remained until the end of the four-teenth century.—City company, one of the corporations that historically represent the medieval trade and craft gilds of London.—Company's rupee. See *rupee.—One-man company, a pretended association of several persons for the purpose of carrying on an enterprise which in reality is owned and controlled by a single person. Encyc. Brit., XXVII. 177.—Trust-company. See *trust-company.

company-boat (kum'pa-ni-bot), n. A guestboat; a beamy gig having side-seats in the after half and an awning over the cockpit. It is used on English rivers.

comparascope (kom-par'a-skōp), n. [Irreg. < L. comparare, compare, + Gr. σκοπείν, view.] In microscopy, a device attached to an ordinary microscope for the simultaneous comparison

microscopy, a device attached to an ordinary microscope for the simultaneous comparison of two slides.

comparator, n., 1. The standards to be compared are usually metal bars with transverse lines ruled upon them, and it is the distance between these lines which is to be determined. In some cases the entire length of the bar constitutes the standard of length. The distances to be compared are usually very nearly equal in length, and the measurement to be made is of the small difference between them and not of the whole length of the standard. The comparator in the form commonly employed consists of a rigid bed or plate upon which the standard bar is placed in a horizontal position. Provision is made for the raising and lowering and lateral shifting of each end of the bar mechanically, and also for its longitudinal movement, so that it can be brought into perfect alinement under two microscopes mounted above it with axes vertical. The microscopes, which have micrometer eyepieces, are focused upon the rulings at the ends of the standard bar, with the cross-hairs in the eyepieces accurately set upon the lines. These adjustments made, the bar is removed without disturbing the microscopes, and the one to be compared with it is put in its place. When the ruling at one end is brought precisely under the cross-hairs, that at the other end will be somewhat out of coincidence on account of the inequality in the length of the bars. This small difference is neasured by noting the revolutions of the micrometer-screw of the eyepiece necessary to bring the cross-hairs over the line. To provide for cases in which the inequality is such as to bring the line entirely out of the fleid, this microscope is sometimes so mounted that it can be moved longitudinally in the direction of the length of the bar and its motion measured by means of a micrometer-screw. For the comparison of standards in which the length to be determined is the entire length of the bar and its motion measured by means of a micrometer-screw. For the comparison *interferometer.

2. A vessel in which liquid is kept rapidly

stirred and at a uniform constant temperature so that thermometers immersed in it must all be so that thermometers immersed in it must all be maintained at the same temperature. Simultaneous readings of the secondary thermometers and the standard are made, and the corrections to the former are thus determined for a wide range of temperatures.

—Transfer comparator, an instrument for comparing the distances between or over the ends of contact points on a gage to the distances defined on a standard bar.

—Associative comparison in

on a gage to the distances defined on a standard bar.

COMPATISON, n. — Associative comparison, in Windt's psychology, a connection of two sensations, in which the quality of each is determined by its relation to that of the other; exemplified in the phenomena of visual contrast.—Comparison of hands, in law, the admission in evidence of writings otherwise irrelevant, solely for the purpose of determining by comparison whether a certain writing was written by a certain person.—Comparison spectrum. See **exetrum.—Method of pairsd comparisons, in experimental psychol., a form of the method of impression, employed in the study of the affective

The content of stimuli—for example, colors—are prepared, and are presented to the observer two sit a time, the pairs being so constituted that every color is given once along with every other. The observer declares which member of the pair before him is the more pleasant or the more unpleasant. The judgments are recorded. When the whole series has been worked through, the experimenter plots an 'affective curve': the abscisse are the color stimuli, in serial order, and the ordinates represent the number of times that the particular colors have been preferred to their rivals. E. B. Titchener, Exper. Psychol., I. ii. 161.

comparison-star (kom-par'i-son-stär), n. star of known position used as a reference-point from which to determine the position of some planet, comet, or other object near it.

compartment, n. 4. A division or chamber in any part of a plant or of an animal.—5. In forestry, the unit of area treated in a working plan. The size and the shape of compartments are determined mainly by topographic features. ments are determined mainly by topographie features.—Compartment line, in forestry, the boundary of a *compartment (which see). It may be marked by a road, a ride, or a natural feature, such as a stream or the crest of a ridge. In Europe, when other demarcation is wanting, clean cuttings upon narrow strips are made to mark the boundaries of a compartment. These are known as rides. A ride which separates two cutting series, and thus runs parallel to the prevailing wind direction, is called a major ride, while those rides which complete the demarcation of the compartments are known as minor rides.—Compartment system. See *stand method.—Wing-compartment, one of a series of watertight compartments of a war-ship, formed between the outboard longitudinal bulkhead and the ship's side below the protective or lower deck.

compartmental (kom-part-men'tal), a. [com-partment + -all.] Pertaining to or consisting of compartments; divided into compartments.

The cells may or may not be compartmental, the latter type predominating. The conditions favor the series connection of the electrodes.

Electrochem. Industry, July, 1903, p. 378.

COMPASS, n. 11. [cap.] In astron., a small southern constellation.—Compass caliper. See *caliper.—Compass corrections (naut.), the quantities (points or degrees) which must be applied to courses or bearings in order to obtain correct magnetic readings.—Compass course, the course steered by compass, independent of leeway, variation, deviation, currents, send of the sea, etc.—Compensated compass, a compass which has been corrected for deviation by the employment of magnets.—Declination compass, a compass arranged to measure the variation of the magnetic needle from the astronomical meridian.—Demagnetized compass, a compass the needle of which has lost its magnetism. Electric disturbances have been known to produce this effect.—Dry-card compass. Same as dry *compass.—Dry compass, a compass which is Inclosed in an air instead of a liquid-chamber: also known as a dry-card-compass.—Elevated compass, any compass that is elevated beyond the influence of the ship's iron, which, being more or less magnetized, is liable seriously to affect the pointing of the magnetic needle. Under this head are included masthead, pole, and tripod compasses.—Hanging compass, a tell-tale compass; an inverted compass; one that is suspended face downward from a deck beam.—Liquid compass, a compass the card of which is inclosed and completely submerged in a chamber filled generally with 35 parts of alcohol and 65 parts of distilled water, the freezing-point of the mixture being—10° F. Compasses used in arctic work have their bowls filled water, the freezing-point of the mixture being—10° F. Compasses used in arctic work have their bowls filled water, the freezing-point of the mixture being—10° F. Compasses used in arctic work have their bowls filled with pure alcohol. The disadvantage of undiluted alcohol is that it east the paint on the card. The Germana have successfully used refined oil for their liquid compass, a compass, a compass alevated above the deck to the removed from the sphere of influe Electrochem. Industry, July, 1903, p. 378. compass, n. 11. [cap.] In astron., a small

compass, v. I. trans.—7. To grasp mentally; comprehend.

"Forebodings of ill . . . that cannot be compassed.

Longfellow,

8. To adjust or orient by means of a compass.

II. intrans. To level a compass.

compass-bearing (knm'pas-bar"ing), n. The direction of an object as indicated by a magnetic compass.

compass-error (kum'pas-er"or), n. Same as deviation of the compass (which see, under deviation).

compass-joint (kum 'pas-joint), n. A joint having parallel and concentric disks permitting relative motion or opening in one plane,

as in a drawing-compass.

compass-plant, n. 3. In California, Wyethia angustifolia and other species, coarse composites with sunflower-like heads, whose large erect

leaves are said to stand with their edges north and south. M. E. Par-sons, Wild Flowers of California. — 4. The prairie bird's-foot trefoil, Lotus Americanus, of the western United States, the numerous distichons branches of which are polarized on the stem after the manner of the leaves of other compass-plants.

other compass-plants. We have then in this plant another example of a true compass plant, but involving an entirely different principle from that of Silphium lactiniatum L. Lactuca Scariola L., etc., in which it is the leaves and not the branches that are affected.

Plant World, May, 1898, p. 118.



Compass-plant (Lotus Americanus). One fourth natural size.

compass-rose (kum'pas-roz), n. The ornamental diagram of a compass found printed on some charts

compass-weed (kum'pas-wed), n. A name of the prickly lettuce, Lactuca Scariola, and probthe prickly lettuce, Lactuca Scariota, and pronably of any of the compass-plants. It is also applied to one of the button-weeds, Diodia teres, in allusion, perhaps, to its radiate habit.

compelled (kom-peld'), p. a. In pathol., involuntary; compulsory; noting movements and attitudes in certain diseases of the central

nervous system.

compellent (kom-pel'ent), a. [L. compellens (-ent-), ppr. of compellere, compel: see compel.] Compelling; compulsive.

And when we bear
Our virtue outward most impulsively,
Most full of invocation, and to be
Most instantly compellant, certes, there,
We live most life!

Mrs. Browning, Sonnet, Love, I. 6.

compendency (kom-pen'den-si), n. [NL. *compendentia, (*compendens, hanging together: see compendent.] In math., connectivity.

This doctrine of the compendency of aurfacea is a creation of Riemann's.

W. B. Smith, Modern Geometry, p. 145.

compendent (kom-pen'dent), a. [NL. *compendens (-ent-), ppr. of *compendere, hang together, < com-, together, + pendere, hang.] Connected; closed.

The straight is thus a closed line compendent through s point at infinity.

Merriman and Woodward, Higher Mathematics, p. 73.

compensated (kom'pen-sā-ted), p. a. Adjusted so as to neutralize or balance differences or deviations; as a compensated balance or pendulum.—Compensated alternator. See *alternator. Compensated constant-pressure gas-thermometer.—Compensated motor. See *motor.

compensating (kom'pen-sā-ting), p. a. justing so as to neutralize or balance differences; producing compensation; characterized by compensation; compensatory.

A compensating mixture of sweet and salt gives rise to an insipid, flat, alkaline taste.

E. B. Titchener, Exper. Psychol., I. ii. 110.

Compensating exciter. See *exciter.—Compensating compound wedge. See *exciter.—Compensating compound wedge. See *exciter.—Compensating-gear (kom'pen-sā-ting-gēr"), n. A device for connecting the two parts of a shaft in such a manner that one part can run at varying speeds relatively to the other part; specifically applied to the driving-device which connects the two parts of the driving-axle of a motor-car. This compensating-gear allows one wheel to travel further than the other in turning corners. Called also differential gear and compensation-gear.

compensation, n. 6. In pathol., an increase in

functional power of some organ or part of an organ to make up for a defect in another organ or in another part of the same organ.-7. psychophysics, the neutralization of a sensation by a stimulus process of a complementary or antagonistic kind.

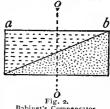
The principle of smell compensation is familiar to us in everyday life.

E. B. Titchener, Exper. Psychol., I. ii. 131.

8. In vegetable teratol., the occurrence of opposite abnormal conditions in different parts of the same plant, as an atrophied condition of one part associáted with a hypertrophied condition of another. Masters.—Compensation of func-tions, in neurol., the law or principle that inhibition of the activity of one region of the cerebral cortex is always connected with increased activity in the regions with which it is interrelated. W. Wundt (trans.), Ontlines of Psychol., p. 274.— Compensation supply, or compensation water, water held in reservoirs to be delivered in a river in compensation for water which is claimed by riparian owners.

The water aupplied to the stream from such a reservoir ia known as "compensation water," and is generally a first charge upon the works. Encyc. Brit. XXXIII, 771.

compensation-sac (kom-pen-sa'shon-sak), n. In certain polyzoans, a structure lying inside the body eavity, and communicating with the external water; regarded as the apparatus by which the protrusion and retraction of the polypide is effected. *Jullien*.



the body cavity, and communicating with the external water; regarded as the apparatus by which the protrusion and retraction of the polypide is effected. Jullien.

Compensator, n. (c) In elect, an antotransformer, frequently employed to compensate for variations of voltage. See **Autotransformer.* (d) In photog., an apparatus designed to render the illumination of a field uniform. It constats of a plano-convex lens of smoky glass, and a plano-concave lens, of equal curvature, of plain crystal glass so united as to make a thin glass with parallel sides. (c) In optics, a device for producing a known and measurable retardation of a beam of light. One of the simplest forms of compensator is that used by Jamin in making measurements with this refractometer. (See **inter/erometer.*) In this refractometer there are two parallel beams of light the difference of phase of which is to be determined. If these beams are made to pass through two similar glass plates, they will auffer equal retardation when the plates are parallel; but if one of the plates is turned through an angle, thus varying the distance through through the means be varied at will; and if the two rays, before traversing the compensator, differed in plases, this difference of phase can be computed. Senamont's compensator of phase can be computed. Senamont's compensator of phase can be computed. Senamont's compensator consists of a quarter-wave plate, that is, a plate of crystal of such thickness that it introduces a difference of phase of phase plate the vibration form of an elliptically polarized ray. Babinet's compensator consists of two wedges of quartz, cut perpendicular to the surface do will be resolved into two components. The component which is more retarded in passing through the auricae and also to the axis of the prism and perpendicular to the surface do will be resolved into two components. The component which is now retarded in the lower wedge, and rice evera; and the difference of phase of quartz, cut perpendicular to the same direction. The Compensatory hypertrophy. See *hyper-

compete, v. i.-2. In polit. econ., to engage in rivalry in the sale or purchase of a commodity or service; also, figuratively, of a commodity or service, to be open to choice as against some other commodity or service. Thus iron is said to compete with stone in the construction of buildings; water routes compete with railways

in the handling of traffic. competence, competency, n. 5. In phys. geog., the ability of a stream to transport the amountof land waste that is brought into it.

competent, a. 5. In phys. geog., of a stream, capable of transporting fragments of a given size.—6. In gcol., having sufficient firmness and strength to transmit pressure to other strata or to lift an overlying burden, as a rock or stratum.

competition, n. 4. In polit. ccon.. rivalry in the purchase or sale of a commodity or service: as, the competition of wage-earners lowers.

wages: British merchants have to meet German competition.—Competition price. See ★competition rent, rent determined by active competition on the part of landlords and tenants, as opposed to customary rent and monopoly rent.—Potential competition, a condition of things which would amount to actual competition were a particular change, such as a rise in price, to take place.

Competitive price, the price determined by active competition on the part of both buyers and sellers, as opposed to monopoly price and customary price.

Compilatorv (kom-ni'la-tō-ri). a. Of or he-

compilatory (kom-pi'la-tō-ri), a. Of or belonging to a compilator or compiler; connected with, or incident to, compilation: as,

compilatory judgment; compilatory labors.
compile, v. t. 6. To score, earn, 'pile up'
(usually of a large number of runs). [Cricket

slang.

compital (kom'pi-tal), a. [L. compitalis, < compitam, competum, a place where several ways meet, the cross-ways, < competers. come together, meet: see compete.] 1. In Rom. antiq., belonging to the cross-ways. The lares compitales were domestic deities whose shrines stood on the street-

corners.

2. In bot.: (a) Intersecting and crossing at the point of leaves. various angles: said of the veins of leaves.
(b) Situated at the point of junction of two

veins; said of the sori of ferns.

veins; said of the sori of terms.

complaisance, n.—Operation of complaisance, in sury., an operation which is not ungently demanded to save life, and which therefore may be delayed until all the conditions are most favorable.

complanation, n. 2. A flattening or flattening out: as, a crater of complanation. Dana.

complement, n. 8. In physiol. chem., same as

*alexin. See the extract.

*alexin. See the extract.

Two principles are concerned in lysis. These principles are different in origin. One—that which is stable—is the product of immunization, and, on account of certain combining properties possessed by it, they call it the 'intermediary body.' The other is normally present in the body juices, but is easily destroyed by heat and tends to disappear spontaneously when the fluids are removed from the body. This latter principle, on account of the complemental nature of its action, they [Ehrlich and Morgenroth] propose to call the complement. . . . This hody is called 'alexin' by Bordet, and probably agrees in part with the body of the same name described by Buchner. Metchnischt calls it 'cytase.' Jour. Exper. Med., VI. 282.

Complement of the humidity. See *humidity:—Deviation of the complement. In the simultaneous presence of receptors, complements, and an excess of amboceptors the complements may be largely taken up by the amboceptors and prevented from setting upon the receptors.—Phonetic complement. See the extract.

The Assyrian scribes usually attached one or more phonetic characters to the ideographs they employed, in order to indicate their pronunciation in a given passage, but these phonetic complements, as they are termed, were frequently omitted in the case of well-known proper names, such as those of the native kings and deities.

A. II. Sayee, Anc. Monuments, p. 19.

complementarism (kom-plē-men'ta-rizm), n. The state or property of being complementary or antagonistic. E. B. Titchener, Exper. Psy-

or antagonistic. E. B. Titchener, Exper. Psychol., I. ii. 15.

Complementary air. See *airl.—Complementary male, in certain cirripeds and myzostomidan worms, adwarf male that lives as a parasite upon the ordinary hermaphrodite individuals which appear to be unable to fertilize themselves.—Complementary rocks, a name suggested by Brogger (1894) for igneous rocks, found associated together in one locality, whose compositions are such that when they are combined they represent the magma from which they are supposed to have originated by processes of differentiation. Thus pyroxenite and anorthosite are complementary rocks whose combination is equivalent to gabbro.

complementative (kom-ple-men'ta-tiv), a. [complement, v., + -ative.] In philol.. serving to complement a notion or its expression: applied to certain verb forms in some agglutina-

tive languages.

The highly agglutinating character of this language [the Kuki-Lushai of North Kachar Hills and parts of Nagaland] is evident from the numerous conjugations given by Mr. Sopplt, for some of which he has no names, but which may be called Acceleratives, Retardatives, Comptementatives, and so on.

Keane, Man Past and Present, p. 185.

complementoid (kom-ple-men'toid), n. [complement + -oid.] In physiol. chem., a complement (see *complement, 8) which has lost its zymotoxic group, but retains the haptophorie group for the amboceptor.

complementophile (kom-plē-men'tō-fīl), a. [complement + Gr. φιλείν, love.] In phsyiol. chem., having affinity for the complement (see *complement, 8); noting that group of an amboceptor which unites with the complement.

If the two components are present in corresponding quantities the amboceptor will unite with the bacterium by its haptophore group, the complement will then fit into the complementophile group of the amboceptor and the bacterium will be destroyed.

**Lancet*, April 4, 1903, p. 943.

complementophilic (kom-plē-men-tō-fil'ik), a. Same as *complementophile.

wages: British merchants have to meet German competition.—Competition price. See *competition price.—See *competition price.—Competition of the part of landlords and tenants, as opposed to customary rent and monopoly rent.—Potential competition, a condition of things which would amount to actual competition were a particular change, such as a rise in price, to take place.
Competitive price, the price determined by active competition on the part of both buyers, and sellers, as opposed to monopoly price and customary price.
Competition.—Competition were a particular change, since the corresponding straight of the one the join of the corresponding straights of the other.—Complete perspectives, in geom., two figures such that to every point of the one a straight of the one the join of the other, and to every point of the other, and the other, and the other, and the other and every point of the other, and the other and the other, and the other and the other and the other and the other and the othe

completion, n.-Equivalent by completion. See

completion, n.—Equivalent by completion. See ★equivalent.

complex, n.—Cell complex, a mass of closely united or intertwined cells, as in the case of certain fungi.

—Cosingular complexes, such complexes as have the same singular surface.—Fundamental complex, the same singular surface.—Fundamental complex, the assemblage of straight lines which satisfy one given condition, that is, of lines whose coordinates satisfy one equation of given form. Since a line has four coordinates, the lines of a line-complex are triply infinite, or ∞ 3, in number.—Pallial complex, the mass of organs, including the gills, osphradia, nephric and genital ducts, which lie near one another in the mantle-chamber of gastropod mollusks and may be considered as an anatomical unit.—Quadratic complex, a complex in which the equation of the line-complex is of the second degree in the coordinates. The quadratic complex involves 19 constants.—Tetrahedral complex, the quadratic complex composed of the lines which meet the faces of a given tetrahedron in four points whose double ratio or cross ratio is constant. A tetrahedral complex is determined by its fundamental tetrahedron and by one of its lines or by the cross ratio of the complex. Since the fundamental tetrahedron nay be chosen in ∞ 12 ways, there are ∞ 13 tetrahedral complexes.

complex (kom* pleks), v. t. [complex. a,] To

hedral complexes. complex (kom'pleks), v. t. [complex, a.] To combine intricately; involve; mix up.

Murdered thus

Mutatione vestimm, in disguise,
Whereby mere murder got complexed with wile.

Browning, Ring and Book, viii. 1319.

5. In psychol., a term procomplexion, n. posed for a certain type of mental connection or association. See the extract.

The melody, e.g., is a complexion. It contains both the consolidating contents, the various notes played or sung, the members of the complexion; and the consolidated contents, i. e., the new factor that emerges when the notes are taken together, the unifying factor in the complexion, the 'taken-togetherness' itself, the unity of the new fund that-cancels the old debts.

I. M. Bentley, in Amer. Jour. Psychol., XIII. 280.

complication, n. 6. In psychol., the simultaneous association of perceptions or ideas of different senses.

These connections of Ideas of disparate senses which are referred to the same objects, and so belong closely together, we may term with Herbart complications, W. Hundt (trans.), Human and Animal Psychol., p. 285.

Let us call the reproducing presentation A, and that with which it has been associated B_i the reproduced presentation may be denoted by b. When b is an integral part of A and incapable of independent existence, the process is called complication, because the result is merely a change in the constitution of A, and for the most part an increase in its complexity.

G. F. Stout, Manual of Psychol., p. 90.

G. F. Stout, Manual of Psychol., p. 90.

Complication pendulum, in exper. psychol., an instrument for presenting a series of visual stimuli any term of which may be accompanied by some disparate stimulus (sound, pressure, electric shock). The primary visual series is given with the movement of a clock-hand over the divisions of a dial; the complicating stimulus is thrown in, at the required moment, by a gear attached to the pendulum of the clock-work. The instrument was devised by Wundt for the study of attention: although the selected visual impression and its complicating sound, etc. are objectively coincident, they are not necessarily 'apperceived' as coincident; there may be a 'temporal displacement' of the two simultaneous impressions, according to the direction of attention. Recently the complication pendulum has been replaced by the complication clock: the difference between the two instruments is that the hand of the clock moves uniformly round its dial, whereas the pointer of the older apparatus repeats the acceleration of the pendulum movements.

complt. An abbreviation of complainant.

Component society. See *society. comport² (kom'pōrt), n. A perverted form in trade eatalogues, etc., of compote, 2.

composimeter (kom-pō-sim'e-tèr), n. [Irreg. (composi(tion) + Gr. μέτρον, measure.] A device used in connection with gas-engines for indicating the calorific value of the gas employed in the engine.

composit, a. A simplified spelling of composite. composite bow, dike, forest, etc. See *bow2,

compositeness (kom-poz'it-, kom'pō-zit-nes), Composite structure or make-up; composite character or quality.

From an early date the compositeness of this work [Book of Enoch] was recognized. Encyc. Brit., XXV, 490.

composition, n. 12. In chem., the kind and relative amounts of the components of a compound; commonly, the kind and relative weights of the elements, or the kind and number of the atoms, which make up the compound. The gravimetric composition states the relative weights

compression

of the components; the volumetric composition their relative volumes; the centesimal or percentage composition their percentages; and the atomic composition of the molecular composition, the kind and number of the atomic which make up their molecules. For example, the atomic which make up their molecules. For example, the atomic which make up their molecules. For example, the atomic which make up their molecules. For example, the atomic which make up their molecules. For example, the stomic or molecular composition of water is 1 part by weight of hydrogen and 7.94 parts by weight of oxygen; the centesimal composition is 11.19 per cent. of hydrogen and 20027 volumes of hydrogen; the stomic or molecular composition is 1 stom of oxygen and 2 atoms of hydrogen. The composition belonging to the eritical temperature is a critical composition and a solution of such composition a critical solution.—Critical composition of solution. See *solution.—Demotic, so-cial composition. See *demotic, *social.

Compositors' cramp, an occupation neurosis, analogous to writers' eramp, which affects the muscles of the forearm and hand in type-setters.

Composti, n. 3. A compost is any mixture of a not easily decomposable substances or with chemicals to secure decomposition and render available the fertilizing constituents of the whole. The typical compost is a combination of peat with dung, fish, or the like, moisture substances is absorbed and conserved while the organization of the woody matter is broken down and its content of plant-food released. Straw, dead leaves, and any kind of litter may be used in the place of peat. Another class of composts are made by the combination with peat of sikaline substances, particularly line, with or without salt, also wood ashes, peat ashes, or gas-line. Composts are also made of bones with line and wood ashes.—Compost are also made of bones with line and wood ashes.—Compost heap, a compact pile of the materials of a compost, at first in layers. The material is usually turned over

compost¹, v. t. 3. To form or convert into compost. See ★compost¹, n., 3.

compost. See *compost, n., o.
compost2t, n. [OF. compost, an erroneous form
of compot, < LL. computus < L. computare,
eompute: see compute, v. and n.] A eomputation or ealendar of astronomical and ecclesi-

astical data. N. E. D. composting (kom'post-ing), n. [compost v. + -ing/l.] The operation of making a compost or of making into a compost with the proper

substance.

Thorough composting with lime is a remedy for these conditions [that is, the injurious action of muck].

Yearbook U. S. Dept. Agr., 1901, p. 170.

compound1, v. t. 9. To make (a steam-engine) operate on the compound principle, whereby the steam expands first in a small cylinder and does work in propelling the piston, and thence exhausts into a larger low-pressure cylinder, where it expands still further until released at the exhaust when the traverse is completed.

The era of compounding, as applied to locomotives, was inaugurated by Mr. A. Mallet in 1876 in France, followed by Mr. A. von Borries in Germany, Mr. T. W. Worsdell and Mr. F. W. Webb in England, and Mr. S. M. Vanelain in America, all about the year 1889. Encyc. Brit., XXXII. 152.

compound^I. I. a.—Compound arch, halance-rudder. See *arch1, *balance-rudder.—Compound crystal, a twin crystal. See twin 11, 3.—Compound dike. Same as composite *dike—Compound evolution, flexure, etc. See *evolution, *flexure, etc.

tion, flexure, etc. See *evolution, *flexure, etc.

II. n.—Copulated compoundt in chem., a compound formed by the union of two other compounds and exhibiting to some extent the chemical character of the one modified by that of the other. Originally the term, which is now out of use, was applied to compounds of organic with inorganic substances. Also called conjugated compound.—Cyclic compounds. See *eyelic.—Lard compound, trade name for an initation of hog's lard, made from the stearin left in the production of oleo-margarin, refined cotton-seed oil, and, usually, some actual lard. Also known as compound lard.—Psychical compound. See *psychical.

comprehensive, a. 4. In logic, intensive; relating to logical comprehension.

lating to logical comprehension.

It is an axiom in logic that the more extensive any general term is, it is the less comprehensive. Reid.

5. In biol., of a general or synthetic type of structure. See synthetic, 3.—Comprehensive type, in paleon., any ancient organism possessed of characters which in geologically later periods have become distributed among different and more highly specialized groups. The comprehensive type always precedes the specialized type in time, and the sum of its characters, once broken up, is never recombined at a later date. Also once broken up, is never recombined at a later date. specialized type in time, and the sum of its characters, once broken up, is never recombined at a later date. Also called *generalized type*. **compress**, n. 4. An establishment in which

cotton-bales are compressed for transportation. [U. S.]

Compressed-air motor. Same as air-motor (which see, under motor).

compressibility, n.—Adiabatic coefficient of compressibility. See *coefficient.—Isothermal coefficient of compressibility. See *coefficient.

compressing-bottle (kom-pres'ing-bot*), n.

A stout glass vessel for the digestion of sub-

stances under pressure.

compression, n.—Center of compression. See $\star conter1$.—Compression atrophy, beam, etc. See $\star trophy$, etc.—Compression by stages, a process occupression in which a gas is introduced successively

into a series of cylinders which decrease in size as the pressure increases. A compressor or pump with four such cylinders, for example, is called a four-stage compressor.—Compression myelltts. See *myelitis.—Compression of the brain, intractanial pressure caused by an effusion of thood, a tumor, depressed fracture of the skull, etc. The usual symptom is coma, but there may be convulsions.—Compression of the poles, of the earth or other planet, its oblateness, that is, the ratio of the difference between its equatorial and polar diameters to the equatorial diameter.—Isothermal compression, compression of a fluid, or other body, under conditions involving no change of temperature.

compressional (kgm - presh gn-al), a. [compression + -all.] Of or pertaining to compression, that is, to the strain due to a stress, such as hydrostatic pressure, which tends to

such as hydrostatic pressure, which tends to produce diminution of volume without shearproduce diminution of volume without shearing. See clasticity.— Compressional energy, energy stored in an elastic medium as the result of work done in compressing it.—Compressional strain, a strain in an elastic body resulting from and corresponding to compressional stress.—Compressional strength, that property of an elastic body by which it resists compression. Compressional strength is denoted by the bulk modulus in cases in which the stresses tend to reduction of volume, and by the stretch modulus when the stress is longitudinal.—Compressional stress, stress which tends to reduce the length, breadth, thickness, or volume of a body.—Compressional wave. See *wave1.

compression-chamber (kom-presh on-chām%-compression-chamber (kom-presh on-chām%-

compression-chamber (kom-presh on-chām"-ber), n. A space or compartment the volume of which can be reduced, usually by the pushing in of a piston or plunger, for the purpose of compressing the contents; a compressing-

eylinder.

compression-coupling (kom-presh'en-kup"-ling), n. A form of shaft-coupling for uniting lengths of driving-shaft end to end, in which the two ends each have a split cone keyed on. These two cones are drawn in and compressed by bolts against two complementary female cone surfaces inside a cylindrical casing which receives both of the split cones. The coupling shows no bolts, and can be used to carry a driving-belt.

compression-curve (kom-presh'on-kérv), n.
That curve or part of an indicator-diagram
from an engine which shows the pressures in
the cylinder on that part of the return stroke
which takes place after the exhaust-port has

closed.

compression-cylinder (kem-presh'on-sil inder), n. 1. Same as *air-compressor, n.—
2. A form of cylinder in which air is retained under pressure to act as a pneumatic spring under shock or impact, as in the recoil of

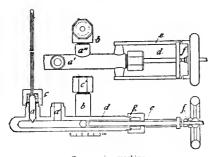
gun-earriages.

compression-engine (kem-presh'en-en'jin), n. A gas-engine in which the mixed charge is subjected to compression before being ignited. The advantage of employing compression is that the pressure resulting from the explosion of the charge is very much higher than at atmospheric pressure. For this reason the economy and efficiency of the engine are increased.

compression-faucet (kom-presh'on-fâ'set), n. A faucet in which the valve is closed by pres-

sure only.

compression-machine (kem-presh'en-ma-1. An air-compressor; a machine shen"), n. for compressing any substance. - 2. A testing-



Compression-machine.
(From Travers's "Study of Gases.")

machine for finding the compressive strength of materials.—3. A machine for determining the physical constants of gases, as vapor the physical constants of gases, as Vapor pressure, critical temperature, etc. It consists of a wrought-iron barrel to hold mercury, into which compression-tubes for gases, and manometers are inserted at a, a', and a''. The caps as at a, and a'', the latter attached to the off-set b, serve to keep the manometers in place. Pressure is exerted on the gases when by turning the screw f, held by the guide-bars e, and the cap g, the plunger d is forced against the mercury in the barrel. compression-member (kom-presh'on-mem"- sion (of the Bible).
ber), n. Any part of a structure, as a bridge or con6 (kon), a. Short for 'confidence': as a con a building, in which the stresses due to the loads produce compression.

compression-pump (kem-presh'on-pump), n.
A pump for the compression of air or other

gas, either as a source of power, for con-conacaste (kō-nä-käs'tā), n. [Guatemalan.] venience of storage, or for producing liquefaction as in the manufacture of liquid air.

compression-valve (kom-presh'on-valv), n. A valve whose opening or release will relieve excessive compression behind it: used in internal combustion motors to relieve an ineonvenient compression when such motors are to be started by hand. Often called relief-

compressorium, n. 2. Same as compressor, (a). compromission (kem'prō-mish"on), n. [LL. See compromise.] Compromise: used now only

in the following phrase.—Election by compromission, election to an office by a committee to whom power to elect has been delegated.

comptograph (komp'tō-grāt), n. [Badly formed from L. comp(u)tare, count, + Gr. γράφειν, write.] A key-actuated machine which prints or lists successive numerical items on paper, adds the items, and, at the will of the operator, records their sum.

comptometer (kemp-tom'e-ter), n. [Badly formed from L. comp(u)tare, eount, + Gr. µ- $\tau \rho \sigma \nu$, measure.] A key-actuated machine for performing addition, subtraction, multiplication, and division. It has nine keys and one lever for each column of figures; the keys actuate the levers, and the levers figure-wheels which indicate results. *En-*gin. Mag., July, 1904, p. 612.

Compulsive insanity. See *insanity. Compulsory idea, an imperative concept, or obsession, which completely dominates the will.

compunctious, a. 2. Troubled with a feeling of compunction.

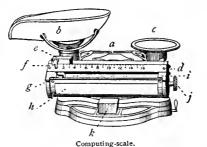
Spears had been deeply computations for the part he had aken.

Mrs. Oliphant. N. E. D.

computant (kem'pū-tant), n. [L. computans (-ant-), ppr. of computare, compute.] A computer; an arithmetician. Carlyle, German Romanee.

computative (kem-pūt'ā-tiv), a. [NL. *com-Given putativus, \langle L. computare, eempute.]

to computation: calculating. Ruskin.
computing-machine (kom-pū'ting-ma-shēn"),
n. A machine which performs the simpler
operations of arithmetic by mechanical means. computing-scale (kem-pu'ting-skāl"), n. A combined weighing and price-calculating ma-



α, weighing-heam indicator—beam not shown; δ, tray holding goods to be weighed; ε, platform for weights; ε, weight-scale; ε, sliding weight; ε, pointer indicating weight on scale; ε, pointer indicating perion of the scale indicating price at that weight; ε, casing inclosing computing mechanism; ε, price scale; ε, operating-handle controlling computator; ε, extra weight.

chine. It consists essentially of a beam, spring, or platform weighing-scale, and a mechanical computing-machine affixed to the weighing-scale. The computing mechanism may be of any form and be joined to any type of weighing-machine, the essential feature being that the method of indicating the weight shall be so applied that it also indicates the selling price of the article weighed. In the illustration a simple form of beam-scale is shown, the sliding-weight, resting on the graduated scale, appearing at the left. Beneath the scale-beam is shown the cylindrical easing inclosing the price-calculating mechanism. This consists essentially of a revolving cylinder, marked in figures representing cents, arranged in parallel horizontal lines and operated by the nurled screw at the right. On turning the serew the cylinder is revolved until the line of figures calculated for any particular price is brought into view in front. On weighing any article in the scale the weight is moved until the beam balances, when a pointer on the lower side of the weight indicates the computed price in cents on the computing-cylinder. evlinder.

compy. An abbreviation of company. comr. An abbreviation of commissioner. Comrade palmer-worm. See *palmer-worm. com.-sergt. An abbreviation of commissaryseracant

of conclusion.

Comstock lode. See *lode. Com. Ver. An abbreviation sion (of the Bible). An abbreviation of Common Ver-

man; a con game. See confidence man, confidence game (under confidence).

The eardrep-tree, Enterolobium cyclocarpum, or its fruits. The latter for tanning, like divi-divi-The latter are sometimes used con agilità (kon ä-je-le-tä'). [It.] In music, with agility or nimbleness: used especially of

the vocal execution of rapid runs or figures.

con anima (kon ä'ni-mä). [It.] In music, with animation.

Conant dollar. See *dollar.

conarite, n. See *connarite.
conation, n. 3. In sociol., social effort, especially that put forth by a community to L. F. Ward, Pure transform its environment. Seciol., p. 247.

concameration, n. 4. In anat., an arrangement in the form of connecting eavities or hollow cells.—5. The vault or sphere of the heavens; one of the celestial 'spheres' of

older astronomy. N. E. D.

concassation (kon-ka-sā'shon), n. [NL. *con-cassatio(n-), for, *conquassatio(n-), < *conquassare, \(\lambda \)L. con-, together, + quassare, erush: see quash².] The reduction of roots or woods to small fragments, that their active principles may be more easily extracted by solvents. concatenation, n. 3. The association of a

number of nerve-cells in a series to form a nerve or nerve-tract.-4. In elect., same as

concave, n. 4. The vault or arch of heaven: as, "the blue concave."—5. A playing eard so trimmed that it can be separated from others according to the purpose for which the pack was prepared.

conceiv, v. t. and i. A simplified spelling of conceive

concelebrate, v. II. intrans. In the Rom. Cath. Ch., to repeat, as a newly ordained priest, the words of the mass along with the

ordaining bishop, who celebrates.

concelebration (kon-sel-ē-brā'shen), n. The
act, of a newly ordained priest, of repeating
the words of the mass along with the ordain-

ing bishop, who celebrates. concento (kon-chen'tō), n. [It., < L. concentus, harmony: see concentus.] Harmony; in music, indicating the simultaneous sounding of the tenes of a chord: opposed to arpeggio.

indicating the simultaneous sounding of the tones of a chord: opposed to arpeggio.

concentration, n. (c) Concentration may be: (1)

The reduction of volume by the process of concentrating, as by the evaporation of water from a solution, or the removal of gangue from an ore. (2) The strength of a solution as increased by concentrating it and as depending on the amount of some dissolved substance contained in a given volume of the solution. (3) The strength of a solution as depending on the amount of some substance dissolved in a given amount of the solution, simply, and without reference to any process of concentrating it: it may be measured in percentage, or by specific gravity of the solution. (4) The number of gram-atoms or gram-equivalents or gram-molecules of the dissolved substance, as the case may be, which are contained in unit volume of the solution. The unit volume is commonly the liter, but sometimes the cubic centimeter. A solution containing one gram-molecule, etc., in the liter is called a normal solution; and one containing one tenth of a gram-molecule, etc., in the liter is called a normal solution, and one containing one tenth of a gram-molecule, etc., in the liter is called a normal solution, of off more of gram-atoms, gram-equivalents, etc., contained in the unit volume, although not in solution, as in case of gases or vapors. (9) In Herbart's pedagogic system, same as *absorption, 2.—Concentration camp, deposit. See *camp2, *adeposit.—Ionic concentration, in phys. chem., the number of gram-atoms or gram-equivalents of an ion which are contained in the unit volume of a solution.—Molecular concentration, in phys. chem., the ratio of the number of molecules of a dissolved substance which are contained in a given volume to the number of molecules of the solvent contained in the same volume.

concentrator, n. 4. An apparatus wherein solutions or other products of manufacture are

concentrator, n. 4. An apparatus wherein solutions or other products of manufacture are solutions or other products of manufacture are concentrated.—Beit-concentrators, a class of concentrating-machines in which the work is done on the surface of an inclined endless belt, usually of rubber, over which the pulp flows. The heavier minerals are retarded by friction, while the lighter ones move more rapidly. The separation is aided by mechanical jarring or shaking of the frame which carries the belt. Also called belt-table.—Centrifugal concentrator, a machine for separating minerals by centrifugal force. In one form the ore particles are thrown from a rapidly revolving disk outward into a series of concentric troughs, the denser grains being thrown farther than the lighter grains of gangue.

concept, n.—Classific concept, the governing idea of a system of classification or of any part of such a system.

conceptacle, n.—Nentral, sterile, or vegetative conceptacle. Same as cryptostoma. concept-feeling (kon'sept-fe"ling), n. In psychol., a characteristic feeling which accompanies the consciousness of vicarious or symbolic value attaching to the concept-idea. Also

fidence game (under confidence).

Con. An abbreviation (a) of Consul; (b) [l. c.] ealled conceptual feeling.

concept-idea (kon'sept-i-de'ä), n. In psychol., an idea which is recognized as having only a

vicarious or symbolic value; an idea which serves as the vehicle of the logical concept. Also called conceptuol idea.

They serve to invest the concept-idea with the consciousness of its vicarious significance, and with the resultant concept-feeling.

W. Wundt (trans.), Human and Animal Psychol., p. 310.

conceptionist, 2. A member of the Roman conchoidal, a. 2. In math., pertaining or re-Catholic religious order of the Sisters of the lating to the conchoid: as, Holm's conchoidal Catholic religious order of the Sisters of the Conception of Our Lady, founded in Portugal by Beatrix de Sylva in 1484.

Conceptual time. See *time1.

conceptually (kon-sep'tū-al-i), adv. As a mental conception.

A substance is neither actually nor conceptually the sum of its radicals.

Nature, Sept. 18, 1902, p. 501. conchologize (kong-kol'ō-jīz), v. i.; pret. and

concert, n.—The European concert, the great powers of Europe when acting together diplomatically. See the powers, under power1. Concertante, a., (b) An old term used to designate or chestral parts or instruments that were employed throughout a piece: opposed to the names which were applied to the horny distribution of the names which were applied to the horny size of the property of the names which were applied to the horny distribution. ripieno parts, which were used only at intervals for fuller effect.

concert-hall (kon'sert-hâl), n. A hall in which

concerts, chiefly, are given.

concertinist (kon-ser-te'nist), n. [concertina

taken collectively.

concertist (kon'ser-tist), n. [concert + -ist.]
A performer in a concert. [Colloq.]
concertistic (kon-ser-tis'tik), a. In music,
pertaining to or after the manner of a concert: usually in distinction from ecclesiastical or oper- concis. An abbreviation of the Latin concisus,

concerto, n.—Concerto grosso 'great concerto,' a concerto in which a group of solo instruments occupies the principal place.
concession, n. 4. In China, Korea, and other

countries where extraterritoriality prevails, a tract of land at or near a sea- or river-port, set apart for the use of the citizens and subjects of the treaty-nations when that port is opened by treaty to foreign residence and trade: as, the French and British concessions at Shanghai; the British concession at Han-kau; the Foreign Concession at Tientsin, etc. Here forroreign Concession at Tremsin, etc. here for eigners may lease land and erect such dwellings and other buildings as are required in their business, and in most instances the right of municipal self-government has been acquired by agreement with the sovereign power.

concessionaire (kon-sesh-on-ar'), n. [F.] A

concessionaire (kon-sesh-on-ar'), n. [F.] A

concessioner or concessionary.

The rules to which exhibitors, concessionaires, and state and foreign governments must conform in the erection and maintenance of structures on the St. Louis Exposition grounds have received the final approval of all authorities concerned.

conch, n. 8. In the cephalopod mollusks, the postembryonic shell: contrasted with proto-conch or embryonal shell, and with shell, a term which loosely covers the entire external skeleton.—9. (a) The whelk, Fulgur carica; (b) the helmet-shell, Cassis.—10. In Rom. antiq., the name for various small vessels used for oil, salt, etc.

conch2 (kongk), n. Same as *conk2.

conch., conchol. Abbreviations of conchology. concha, n. 4. Same as *conch, 10.

The admirable figure of Marforlus, casting water into bars of steel having right-angled corrugations.

a most ample concha.

Evelyn. N. E. D. concrete, v. t. 3. To treat or lay with con-5. The thin, translucent shell of a bivalve mollusk, sometimes used for window-panes in the East Indies

conchal (kong'kal), a. [concha + -al.] Re-

lating to or resembling a concha.

Conchidium (kon-kid'i-um), n. [NL., ζ Gr. κόγχη, a shell, +-idium, dim.] A genus of extinct brachiopods of the family Pentameridæ, having in the ventral valve a spoudylium supported by a median septum and two vertical septa in the dorsal valve. The shells are strongly ribbed on the exterior. The genus is widely distributed in Silurian and Devonian rocks.

conchifragous (kon-kif'ra-gus), a. [Gr. κόγχη, a shell, + L. -fragus, \(\sigma frangerc, \) break.] Shellbreaking: said of the jaws of animals adapted

for feeding on shellfish.

Cranium.—Agreeing in most characters with the existing Cheloninæ, but specialized for a conchifragous habit; short, very broad, with external nares directed as much upward as forward.

Amer. Jour. of Sci., Sept., 1904, p. 192.

forming a considerable part of the calcareous

secretions of molluscan shells and supposed to have specific characters. It is probably only a form of aragonite. conchitis (kong-kī'tis), n. [NL., < concha

Inflammation of the external ear. conchoid, n.—Spherical conchoid, a curve like a conchoid, but on a sphere.

conchoidally (kong-koi'dal-i), adv. In a conchoidal curve.

The sandstone of this formation has the peculiarity of racturing conchoidally. Pop. Sci. Mo., LIV. 64. fracturing conchoidally.

pp. conchologized, ppr. conchologizing. [con-cholog-y + -ize.] To collect or study shells.

 $\langle \text{Gr. } \kappa \delta \gamma \chi \eta, \text{ a shell, } + \rho \epsilon \gamma \chi \circ \varsigma, \text{ a snont.} \rangle$ One of the names which were applied to the horny jaws of the fossil cephalopod Temnocheilus bidorsatus, of the Triassic rocks, before it was known to what shell they appertained.

conchotome (kong'kō-tōm), n. [Gr. $\kappa \delta \gamma \chi \eta$, shell, + - $\tau \circ \mu \circ \varsigma$, $\langle \tau \circ a u \varepsilon i v$, cut.] An instrument for dividing one of the turbinals in the nose.

+ ist.] One who plays upon a concertina.

concertino, I., n. 2. In a *concert grosso (which see), the group of solo instruments

for dividing one of the turbinals in the nose.

conchula (kong'kū-lä), n.; pl. conchulæ (-lē).

[NL, dim. of L. concha, a shell.] The thickened, lobed extremity of the siphonoglyph in Siphonactinidæ.

conchyliferous (kong-ki-lif'e-rus), a. κογχύλη, a shell, + L. ferre, bear.] Same as conchiferous.

atic. [Rare.] cut.

concertize (kon'ser-tīz), v. i.; pret. and pp. conclusiuncule (kon-klö'zi-ung-kūl), n. [L. concertized, ppr. concertizing. [concert + -ize.] conclusiuncula, dim. of conclusion: one of the stock sion.] A trifling conclusion: one of the stock sophisms of traditional logic.

concomitant, a. 2. In bot., running side by side, as bundles which are not separated by other bundles.

concordance, n. 4. In music, concord or consonance in the technical sense of these words: opposed to dissonance or discord.

Concord axle, buggy, coach, hame. See *axle, etc.

concrescence, n. 5. In embryol., the formation of the body of the vertebrate embryo by the growing together of the lips of the blasto-

concresce.] Growing together; coherent.

A single male flower consists of an axis enclosed at the A single mane nower consists of an axis entrosed at the base by an inconspicuous perianth formed of two concrescent leaves and terminating in two, or as many as eight, shortly stalked or sessile anthers.

Encyc. Brit., XXIX. 191.

Elect. World and Engin., Jan. 24, 1903, p. 148. concrete, I. a. 5. In bot., growing together.

concrete, I. a. 5. In bot., growing together.

II. n.—Adobe concrete. See ★adobe.—Armored concrete. Same as reinforced ★concrete.—Reinforced concrete, any form of concrete construction in which the concrete is reinforced by the use of steel or from bars, rails, rods, wires, netting, etc., bedded in it, to give it additional strength and solidity. In the most important form, called steel concrete, the concrete is reinforced by corrugated bars of steel or expanded metal. It is used in erecting bridges, culverts, sewers, fire-proof floors and roofs, footings, and walks or foundations. The steel is disposed in the mass of the concrete to resist the various strains to which the structure may be subjected. Thin floors, walls, and roofs are reinforced by sheets of expanded metal; foundations, bridges, arches, sewers, etc., are strengthened by bars of steel having right-angled corrugations.

crete: as, to concrete the foundations of a building; to concrete a cellar floor, or a sidewalk. concrete-mixer (kon'krēt-mik'ser), n. A ma-

chine for mixing cement, sand, crushed or broken stone, and water in varying proportions for making concrete. The most common type is a rotary cylinder operated by a small portable engine or motor, and arranged with suitable inlets for the water and other materials, and for stirring and mixing them, etc.

concretion, n. 5. In old chem., reduction of a liquid to a solid, commonly by partial evaperation.

Concretionary granite. See *granite. concretize (kon-krē'(īz), v. i.; pret. and pp. concretized, ppr. concretizing. [concret + -ize.]

To make specific; give definiteness to.

The method of resolving bodies into particles I call analysis, and the proof of analysis is synthesis. I use the term analysis with a specific meaning, to distinguish it from abstraction. The proof of abstraction is concretizing. J. W. Powell, in Amer. Anthropol., July-Sept., 1901, [p. 409.

conchite, n. 2. A form of calcium carbonate, concur, v. i. 6. (a) In law, to assert, with other claimants, a claim against the estate of

an insolvent. (b) In Eng. law, to unite in two

or more persons the title to a single estate, concur (kon-ker'), n. [concur, v.] In mod. grom., the straight determined by two coplanar flat pencils.

concurrence, n. 5. In math., the meeting of lines, surfaces, etc.—6. In mod. geom., the meeting-point or cointersection-point of three or more lines.—7. In French law, equality of rights of several parties in the same subject-

matter or thing.

concurrency, n. 2. In logic, a relation in which no individual object stands to any other than itself, such as 'being at once black and also—.'

concusconine (kon - kus'k $\bar{0}$ - nin), n. [con + cusconine.] A crystalline alkaloid. $C_{23}H_{26}O_{4}$ $N_{2}+H_{2}O$ found in the bark of Remijia purdieana. The hydrate melts at 144° C., the anhydrous alkaloid at 208° C.

concussion-bellows (kon-knsh'on-bel"oz), n. Same as winker, 6.

concussion-table (ken-kush'on-tā"bl), n. A table for sizing and sorting rock or ore by means of a sidewise jarring motion which, in combination with the effect of gravity, brings particles of the same size or of the same specific gravity into separate groups and results in a mechanical separation.

Condemnation money. See *money. condensance (kon-den'sans), n. [condense +

-ance.] In elect., a negative reactance or capacity reactance. See *reactance. condensate, a. II. n. The substance formed by condensation.

Culture liquids tainted by the filter, the absorbing liquid, and the condensate.

Buck, Med. Handbook, 1. 157. and the condensate.

condensation, n. 3. In organic chem., the union of two carbon atoms which may be in umon of two carbon atoms which may be in the same or in different molecules. Thus acetylene, C₂H₂, condenses to benzene, C₆H₆. In recent years the term has been applied to reactions involving the union of a carbon atom to an atom of some other polyvalent element, usually accompanied by the removal of the elements of water. Thus acetaldehyde, C₂H₄O, and hydroxylamine, NH₂OH, condense to form acetaldoxine, C₂H₄NOH, and water, H₂O.—Aldol condensation theory. See *aldol, *temperature, *theory.

condensational (kon-den-sa'shon-al), a. [condensation $+ -al^{1}$.] Of or pertaining to condensation; having the power to condense or reduce the volume of a substance.

And why may one attribute to ionised air different condensational properties, according as positive or as negative ions are in question, without having first established that the corresponding air nuclei do not differ in size sufficiently to account for the condensational difference observed.

Nature, Dec. 3, 1903, p. 104.

Condensational energy, wave. See *energy, *wavel. Condensed numbers. See *number.—Extra condensed type, any face or style of printing-type that is unusually narrow for its height.

This line is in Extra Condensed on 8-point body.

condenser, n. (f) A device for removing from a current of gas such elements as will be caused to fall out from the gas by reducing its temperature. Tar and ammonia are separable in this way.—Abbé condenser, a form of achromatic condenser (which see, under achromatic).—Ammonia condenser. See *ammonia.—Condenser yarns, a trade-name applied to cotton yarns spun from roving made on a carding-machine with a condenser apparatus.—Counter-current condenser, a jet-condenser in which the direction of the current of air taken away from the condensed water is contrary to the direction of the current of injection-water; consequently the air passes through the injection-water and is thoroughly cooled.—Reflux condenser, a condenser so adjusted as to return condensed vapors to the vessel from which they came. Amer. Chem. Jour., Jan., 1903, p. 39.
condensery (kon-den'ser-i), n. [condense

condensery (kon-den'ser-i), n. [condense + cry.] An establishment where condensed milk is prepared.

condensing-engine (kon-den'sing-en"jin), n. See *enuine

condiction (kon-dik'shon), n. [L. condictio(n-), Condicere, agree, promise, proclaim, reclaim, etc.: see condition.] In Rom. law, an action of a personal nature, founded upon an obligation to perform a certain and defined service or to give or do a certain thing.

condictitious (kon-dik-tish'us), a. [LL. condicticius, \(\) condictus, pp. of condicerc, reclaim: see *condiction. \(\) Of or pertaining to condic-

condidit (kon'di-dit), n. [From the principal word in the plea, L. condidit, 'he made' (the will), perf. ind. third pers. sing. of condere, put together, make, compose, etc.; see condiment.] In cccles. law, a plea to a libel alleging that the decedent made the will in suit, and that he was of sound mind at the time.

condition, r. t. 7. In the tobacco trade, to spray with a 2-per-cent. solution of glycerin. This operation is performed only on chewing,

plug, and cigarette tobaccos.

conditioner (kon-dish'on-er), n. [condition + -er¹.] In milling, a machine for drying damp or musty grain and bringing it into proper condition for use. It consists of a tall tower, the upper part of which is formed of a series of circular blinds and the lower part (one third) of woven-wire netting. Inside the tower, and extending throughout its length, is a pipe or cylinder of perforated sheet-metal. The damp grain is fed into the top of the tower, and falls to the bottom in a cylindrical sheet between the outside blinds and netting and the central perforated metal pipe. In falling, the grain is first exposed to a heavy blast of hot air which passes through the grain and the blinds to the open air. Falling still lower, it meets a blast of cold air, which, passing through the falling grain, escapes through the wire netting. The heating, drying, and cooling leave the grain clean, dry, and in good condition.

condol. A name in the Philippine Sp., < Tag. condol.] A name in the Philippine Islands and Guam of the ash-pumpkin or wax-gonrd, or musty grain and bringing it into proper con-

and Guam of the ash-pumpkin or wax-gonrd, Benincasa hispida, the fruit of which is used as a vegetable and is preserved as a sweet-

meat. See benincasa.

Condolence council, a tribal council of the Iroquois held after the death of a sachem. During the council the successor of the deceased sachem was installed.

He was engaged on the Grand River reservation in Canada, where he successfully made special effort to obtain the chants and speeches used in the condence council of the league. Smithsonian Rep., 1890, p. 49.

condonance (kon-do'nans), n. [condone +

-ance.] Condonation. Athenaum. Condroz psammites. See *psammite. Condrusian (kon-drö'si-än), a. and n. [L. Condrusi, n. pl., name of a people in Belgic Gaul, in the district now called Condroz.] I. a. In gcol., a term applied to the uppermost division of the Devonian rocks in Belgium and northern France, being otherwise known as the Psammites of Condroz and constituting the upper of two subdivisions which together make the Famennian stage.

II. n. The Condrusian division.

conduct, v. t.—Conducting cells, sheath. See ★cell,

conduct1, n. 10t. The arrangement and com-

position of a picture. Walpole. conductance (kon-duk tans), n. [conduct + -ance.] In elect.: (a) the conducting power of a given mass of specified material of specified shape and connections. Standard Elect. Diet. (b) in alternating-current circuits, the energy component of admittance, defined as the ratio of the energy current divided by the electroof the energy current divided by the electro-motive force. See *admittance, 6.—Specific conductance, in elect., conductivity; the conductance of a portion (of any given material) one centimeter long and one square centimeter in cross-section. conducting-bar (kon-duk'ting-bär), n. Same as

comb-bar.

conduction, n. 4. In physiol., the transfer of nervous influence along a nerve-fiber or of the contractile force from point to point in muscletissue.

Just as in a nerve fiber, when excited by a localized stimulus, the excited state spreads from the excited point to the adjacent unexcited ones, so in muscle the "contraction," when excited at a point, spreads to the adjacent uncontracted parts. Both in muscle and in nerve this spread is termed "conduction." Encyc. Brit., XXXI. 738.

Avalanche conduction. See *avalanche.—Fourier's law of conduction. See *law1.—Wernicke's aphasia of conduction. Same as word-deafness.

Conductive tissue, in bot., same as conducting tissue (which see, under tissue).
conductivity, n. 2. In physiol., the power of

a nerve to conduct an impulse.

When a nerve is divided it will lose its motor con-When a nerve is divided it with the ductivity only after the lapse of some time.

**Lancet*, April 18, 1903, p. 1089.

Lancet, April 18, 1903, p. 1089.

Conductivity of the atmosphere. (a) The calorimetric conductivity of the atmosphere expressed in absolute units of heat, or the number of calories conducted through a unit distance and a unit mass of air in a unit of time under the influence of a unit gradient of temperature. This small quantity becomes very important in meteorology, where it is converted into thermometric conductivity. (b) The thermometric conductivity of the atmosphere; the change in temperature of the atmosphere due to its calorimetric conductivity. It is equal to the latter divided by the specific heat of a unit mass multiplied by the ensity of the gas. It is therefore a large quantity in the upper regions of the atmosphere.—Coefficient of thermometric conductivity. See *koefficient.-Conductivity water, in phys. chem., water specially purified for use in measuring the electrical conductivity of solutions. Ordinary water is commonly regarded as a fairly good conductor of electricity; even distilled water is far from being a non-conductor; but most of its conducting power depends on the presence of dissolved substances, such as ammonia and carbon dioxid. Water freed as far as possible from these is used in experiments on the con-

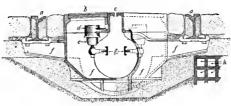
ductivity of solutions.—External conductivity. See **emissivity.—Magnetic conductivity, the magnetic induction of a circuit divided by the magnetizing force; magnetic permeability or specific permeance; the reciprocal of reluctivity.—Molecular conductivity, in phys. chem., the specific electric conductivity of a solution divided by the concentration; the conductivity which would be exhibited by a solution of the specified concentration, and of such volume as to contain one gram-molecule of the dissolved substance when entirely inclosed between large electrodes one centimeter apart.—Specific conductivity. Same as *specific **conductance.—Surface conductivity, radiating power expressed in terms of the heat emitted per second by a square centimeter of surface when the radiating body has a temperature one degree centigrade above its surroundings. Also called *emissivity.—Thermal conductivity, a physical constant used to express quantitatively the rate of transfer of heat through a medium by conduction. The conductivity, k, is the quantity of heat which would pass, in a unit of time, between the opposite faces of a layer of the substance of unit area and unit thickness when the difference of temperature between the faces is one degree. See conduction and conductivity.—Thermometric conductivity. Same as thermal **adifusivity.*

conductor, n. 9. Specifically, in elect., a substance through which electric currents can flow. Metals are the best conductors; glass, rubber, air, etc.

conductor, n. 9. Specifically, in elect., a substance through which electric currents can flow. Sletals are the best conductors; glass, rubber, air, etc., are very poor conductors. The following divisions may be made (1) Conductors of the first class, or metallic conductors, as the metals, carbon, silicon, etc., which, except that they are heated, are not affected by the current (2) Conductors of the second class, or electrolytic conductors, as salt solutions, in which the passage of the current is accompanied by ehemical action. (3) Pyroelectrolytes, as glass and magnetite, which are non-conductors or poor conductors at ordinary temperatures, but which become good conductors at high temperatures, (4) Gaseous conductors, as gases at low pressures, which carry the current only if the electromotive force is high and which then show luminosity. (5) Arcs, that is, vapors of first-class conductors, which become conductors, in elect., two conductors which form purts of a divided circuit and are so placed that an electromotive force in the one produces no current in the other.—Cord conductor, in elect, a conductor consisting of many fine strands twisted or braided together and covered with fiexible insulating material. Cord conductors are need in making switchboard connections and for many other purposes where a flexible conductor is desirable.—Core conductor, in a three-wire or Edison system of low-tension electric distribution, the middle conductor, which has against each of the two outside conductors. In a directurrent three-wire distribution the two outside conductors are the positive and the negative conductors respectively.

conductor-rail (kon-duk'tor-ral), n. In electrotechnics, a metallic rail by means of which the electric current is conveyed to motors of an

conduit¹, n.—6. Same as *copula, 9.—Electric conduit, a permanent tubular space or system of spaces or ducts designed to receive insulated electric conductors.



Sub-trolley Couduit.

traffic-rail; δ , cover-plate; ϵ , slot-rail; d, holder; ϵ , insulator; oke; g, working conductor; h, conduits for cables.

Sub-trolley conduit, a sub-surface inclosed space with openings at the top, intended to support and protect the working conductors of a sub-trolley electric railway. conduplication, n. 2. Specifically, in bot., a form of estivation in which the sides of an

organ are applied to each other by their faces. condurangin (kon-dū-rang'gin), n. [condurango, var. of cundurango, +-in²] A name given to two glucosides, C₂₀H₃₂O₆ and C₁₈H₂₈O₇, found in the bark of the South American plant cundurango, Marsdenia Cundurango.

They are powerful nerve-poisons.

condylarth (kon'di-lärth), n. A member of
the group of extinct mammals termed the
Condylarthra.

condylarthran (kon - di - lär 'thran), a. and n. I. a. Of or pertaining to the Condylarthra.

II. u. A member of the Condylarthra. 11. u. A memoer of the conaguardara. condylarthrosis (kon "di-lär-thrō sis), n. [Gr. κόνδυλος, knuckle, + ἀρθρωσες, articulation.] In anat., a form of hinge-joint, usually with some lateral movement, in which a condyle of one hone fits into a suitable depression in the opposite bone.

condyle, u.—Mandibular condyle, in ornith., the facet on the distal end of the quadrate for the articulation of the jaw or mandible.—Pterygold condyle, in ornith., the projecting rounded facet on the anterior edge of the quadrate for the articulation of the pterygold.

condylion (kon-dil'i-on), n.; pl. condylia (-ä).

[NL., < Gr. κουδύλιον, dim. of κουδύλη, socket: see condyle.] In craniom., a corner of the condyle of the lower jaw. The lateral and the medial condylia are distinguished.

Condyloid joint. Same as *condylarthrosis. condylomatoid (kon-di-lom'a-toid), a. [con- $\frac{dyloma(t-)}{dyloma(t-)} + -oid.$] Resembling a condyloma. Buck, Med. Handbook, I. 51.

condylome (kon'di-lom), n. Same as condy-

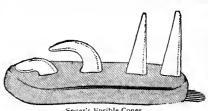
condylotomy (kon-di-lot'ō-mi), n. [Gr. κόνδυλος, knuckle, + -τομία, 〈ταμεῖν, cut.] In surg., removal of the whole or of a part of the condule of a bone.

cone, n. 2. (h) The conical top of a helmet or of a hat.

He amote him on the helmet's cone, where streamed The horse-hair plume. Bryant, tr. of Iliad, I. iv. 579.

He smote him on the helmet's cone, where streamed The horse-hair plume. Bryant, tr. of Iliad, I. iv. 579. (f) The crystalline lens of the compound or faceted eye (ommatevan) of an insect.

Alluvial cone, in phys. peog., a fan-shaped deposit of detritus formed by a stream at the mouth of a ravine; an alluvial fan.—Antipodal cone, in cytol., the coneshaped bundle of fibers opposite the spindle-fibers in the karyokinetic figure of the dividing-cell.—Apical cone, asymptote cone. See *apical, *asymptote.—Cone of cruption, a volcanic cone formed by the accumulation of erupted material, such as dust and ashes.—Gone of growth, in bot., the growing point at the apex of a stem, which is conical in shape.—Cone of light. Same as *light-spot.—Cone of planes, the planes of correlated straights of two copunctal non-coplanar flat pencils, projective but not perspective.—Cone of shade or shadow, in astron., the conical shadow projected into space by a planet.—Parastic cone, a secondary cone formed at a temporary vent; an offshoot from the main volcanic vent.—Pyrometric cones. Same as *Seger's *cones.—Reverse cones. (a) Cones which when used in pairs have their similar base together, so that their elements run in opposite directions or make an angle with each other: used in bearings of lathe head-stocks, and in roller-bearings as used in motor-cars. (b) A pair of equal cones with parallel axes, but with the small base of one in line with the large base of the other, at such a distance that an endless bett on their surfaces or an idle transmitting-wheel between them can transmit power from one to the other. In either form the device may be used to transmit a varying velocity rstio by adjusting belt or wheel so that a large eitemmerence of driver is opposite a small circumference of driver is opposite a small circ



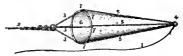
Seger's Fusible Cones

a series of pyramids or cones of varying fusible composition, each melting at a different temperature, used to determine the several degrees of heat in porcelain-kilns: first devised by Lauth and Vogt at Sèvres, and perfected by Seger at the Royal Berlin Forcelain Works. There are 60 in the series. The first Indicates a temperature of 590° C. and the last one of 1,890° C. Many of the cones contain alumina and silica in the proportion Al₂O₃ + 1081O₂. Those melting at high temperatures contain only Al₂O₃ and SiO₂ in varying proportion, while those indicating lower temperatures contain K₂O, CaO, Ra₂O + PbO, with SiO₂ and B₂O₃. They are inserted at windowed draft-holes in the kiln, and the degree of heat is determined by their point of fusion.—Tactile cone, in some trematoids, one of the conical elevations bearing groups of non-motile sensory cilia.—Torrential cone, a lan-shaped-deposit of detritus built on the land by rivers.—Vertex of a cone, the apex.—Visnal cone, in optics, the cone of rays whose vortex is at the retina and whose surface is determined by the pupil of the eye or, when looking at a small object, by the boundaries of the object.

Cone, v. II. intrans. To bear cones: said of

cone, r. II. intrans. To bear cones: said of coniferous trees.

cone-anchor (kon'ang"kor), n. A sea-anchor or drag in the shape of a cornucopia, made of



1, tripping-line; 2, towing-line; 3, four-part bridle; 4, tripping-line ring; 5, roping of drag; 6, month of drag; 7, iron ring.

an iron ring and of canvas: employed by vessels in heavy weather to keep them headed to the sea and wind, and to prevent them from drifting rapidly to leeward.

M. Heureux dropped his cone-anchor and waited until a tug-boat, sent out especially from Dunkerque, threw a rope to the car, hy which the balloon was tugged easily and reached Dunkerque fully inflated. Nature, Sept. 4, 1902, p. 447.

cone-bearing (kōn'bar"ing), a. Coniferous; belonging to the *Pinaceæ* or any of the families of the order *Pinales*.

cone-belt (kon'belt), n. A descriptive name for a form of furnace-tube which is made up of a series of frustums of cones riveted to-

cone-cell (kön'sel), n. In histol., one of the cells which secrete the crystalline cone in the ommatidinm of the compound eyes of crustaceans and insects.

cone-clutch, n.—Internal cone-clutch, a friction-clutch in which the contact-surface is an internal cone.
Usually the contact is made by pushing a disk with a conical rim into the internal cone.

cone-drive (kon'driv), n. A device consisting of two cones of equal slant on parallel shafts, with their bases in opposite directions, and a leather loop pressed between them at one point. The leather loop can be shifted along, and as the distance between the cones is constant, one cone can drive the other with different velocity-ratios.

cone-drum (kön'drum), n. An elongated cone-shaped pulley or wheel. *Taggart*, Cotton Spinning, I. 18.

cone-duster (kon'dus"ter), n. A machine consisting of a conical cylinder armed with teeth and revolving in a cylindrical casing armed with teeth on the inside; a devil. The stock fed into the machine is caught between the fixed and the revolving teeth, and is torn apart or opened and the dust shaken out.

conejo (kō-nā'hō), n. [Sp. conejo. a rabbit, L. cuniculus, a rabbit: see cony.] 1. A fish, Alepisaurus altivelis, of the family Alepisau-

ridæ: found in rather deep water in the West Indies.—2. Same as *rabbit-fish, 4. cone-key (kôn'kê), n. A frustum of a cone in which is a cylindrical hole, used for keeping a wheel in place on its shaft when the hole in the wheel is larger than the shaft. The wheel is bored conically, and the cone-key, after being turned to fit it, is cut into three pieces, so that it may be forced tightly into the wheel snd keep it concentric with the shaft. Such a key can be used to fasten a wheel which has to pass over a section of the shaft larger than that where it is fastened.

Conemaugh series. See *scrics.

cone-nose, ».—Blood-sucking cone-nose. Same as gigantic ★bedbug.

cone-pick (kon'pik), n. A form of overpickmotion for throwing the shuttle of a loom, applied to some fast-running looms for weaving light and medium cotton fabrics: named from a cone-shaped antifriction roller which is a part of it. Fox, Mechanism of Weaving, p. 314. cones (könz), n. [Origin unknown; perhaps orig. alluding to 'cones' of paper used in scattering the flour over the loaves and troughs.] A fine white flour used by bakers to 'dust' their loaves and troughs.

cone-screw (kōn'skrö), n. A threaded cone or frustum of a cone: used in cases where the screwed joint is liable to be subjected to very heavy pressures and it is desirable that the end of the screw shall not bottom or jam in its hole. It is used on the ends of punches for heavy hydraulic cupping-presses.

con espressione (kon es-pres-i-ō'ne). [It.] In music, with expression or feeling. cone-spring (kōn' spring), n. A spiral wire spring wound, not in one plane, but as a helix

on a cone. By this method of winding, the turns of wire fit one inside another when the spring is compressed, thus allowing it to close to practically the thickness of the wire.

cone-stand (kon'stand),

n. A stand or pedestal,

of a conical shape, forming the lower fixed part of a mount for light guns.

Cone-spring.

conf. An abbreviation of conference. confection, v. t. 2. To make up (elaborate articles of female attire). [French, occasionally used in English.]

believes in confederation, with preservation of the autonomy of each component group, as a

form of social or political organization. confederationist (kon-fed-e-rā'shon-ist), One who favors or supports confederation or a confederation.

confelicity (kon-fē-lis'i-ti), n. [con-+ felicity.] Participation in the joy of others; sympathy.

The confelicity . . . is . . . as rare as comparison is commonplace, and is far fainter and less educible or contagious.

G. S. Hall, Adolescence, 11, 581.

conference, n.—Synodical Conference, the largest of the Lutheran general bodies in the United States, organized in 1872 by the delegates from the Missouri, Ohio, Wisconsin, Minnesota, Illinois, and Norwegian synods.

The conference proclaims Lutheranism of the most positive character, and an unreserved acceptance of the Augsburg Confession. The members are called Missournans from the name of the largest synod.

Conform ferment. See *ferment. conformable, a. 6. Specifically, that accepts and conforms to the usages of the Anglican Conformation of the largest synod.

conferted (kon-fer'ted), a. [L. confertus, pp. of confercire, cram together, \(\) com-, together + farcire, cram: see farce, v.] In bot., crowded closely together.

Confervales (kon-fer-vā'lēz),n. pl.[Conferva + -alcs.] An order of the grass-green algae, or Chlorophyceæ, containing some 10 or 12 families and widely distributed.

confession, n.-Augsburg Confession. See confes-

confessionalian (kon-fesh-o-nā'lian), n. who favors formal confessions or articles of faith. N. E. D.

confessionism (kon-fesh'on-izm), n. [con-fession + -ism.] A morbid tendency to pour out one's psychological states, mental struggles, hopes, fears, longings, likes, dislikes, etc., in diaries, autobiographies, and the like.

Women are more easily hypnotized, more prone to jeal-onsy, ill-temper, and confessionism.

G. S. Hall, Adolescence, 1, 490.

confessive (kon-fes'iv), a. Giving knowledge of something not obvious; indicative.

An exclamation too confessive of the ardour of the ad-ess. New Monthly Mag., 11. 351.

confessorial (kon-fe-sô'ri-al), a. [LL. confessorius (\$\circ\$ confessor: see confessor) + -all.]
Pertaining to the office of a confessor.

The Priest's Tale is a sermon, prolix indeed, but, except in . . . holding up the confessorial office of the Priest-hood, . . . moral in its scope.

Milman, Latin Christianity, VI. xiv. 7.

2. The name given by the English designer Hepplewhite to a species of sofa, similar to an ordinary stuffed couch, with ad-

ditional seats at the ends, all made in one. configuration, n., 5. (b) A system of a finite number of points with their duals.

The diagram illustrating this theorem is worthy of no-The diagram illustrating this theorem is worthy of no-tice as representing a class of remarkable configurations characterized by a certain regularity of form. It consists of ten points and ten straight lines; three of the ten points lie upon each of the straight lines, and three of the ten lines pass through each of the points. T. F. Holyate, Geom. of Position by Reye, p. 5.

6. In organic chem., the arrangement of the atoms within the molecule, especially that arrangement in space which occasions optical activity.—Algebraic configuration, See **alaebraic.*—Maclaurin's configuration, in projective geom., the figure for the dual theorems:

A tetrastim with dots in A tetragram with sides in a tetrastim with dots in A tetragram with sides in a direction begins. 6. In organic chem., the arrangement of the

rangement in space which occasions opposate activity.—Algebraic configuration, he projective geome, the figure for the dual theorems:

A tetrastim with dots in A tetragram with sides in a conic range has each pair of codots costraight with a diagonals copunctal with a pair of fan points of the tetragram of tangents at tetrastim of contacts on the stream of tangents at the dots. the dots. sides.

confined, p. a. 3. Restricted to the service of one employer, as a laborer hired by him for the year; as, "a numerous body of confined labourers." Daily News (London), July 20, 1888. confinedly (kgn-fi'ned-li), adv. In a confined,

limited, or restricted manner, sense, or degree. The beauties of Nature, as they have been confinedly called. Lamb, Life and Letters, I. 214. N. E. D.

confirmand (kon-fer-mand'), n. [L. confirmandus, that is to be confirmed, gerundive of confirmare, confirm.] A candidate for confirmation. N. E. D.

confirmant (kon-fer'mant), n. One who confers the sacrament of confirmation.

confiscatable (kon-fis'kā-ta-bl), a. [confiscate + -able.] Liable to be confiscated: as, unde-

clared goods are confiscatable.
conflagrate, v. II. intrans. To burst into flame; take fire, either literally or figuratively.

conflagrative (kon-flagra-tiv), a. Incendiary: as, the conflagrative Russians. Carlyle. conflagrator (kon-flagrator), n. [NL. *con-

flagrator, (L. conflagrare: see conflagrate.] confederalist (kon-fed'er-al-ist), n. [confeder-One who sets on fire; an incendiary, N. E. D. (ation) + -all + -ist (after federal).] One who conflate, a. 2. In diplomatics, marked by conbelieves in confederation, with preservation of flation; inadvertently formed by combining two different readings into one: as, a conflate text or passage. Westcott and Hort.

confluence, n. 4, In psychol., the mutual assimilation of mental processes set up by adjacent stimuli: opposed to contrast. E.B. Titchener, Exper. Psychol., I. ii. 323.

Confluent fruit, measles. See *fruit, *measles. conflux, n. 3. The point or place where lines meet.

confocal, a. II. n. A figure having the same focus as another. A theorem which of course includes the corresponding

proposition for confocals in plano.

Rep. Brit. Ass'n Advancement of Sci., 1902, p. 506.

Church.

Yet this man that stopped his ears like the adder to the charms of the Bishop, was after persuaded by a lay-man, and grew conformable. $Sir\ J.\ Harrington$.

conformal (kon-for'mal), a. [conform, a., + -all.] 1. Of the same form.—2. In math., conserving angles or establishing infinitesimal similarity.

If ds is the element of arc on the plane, $d\sigma$ that corresponding to it on the sphere, we have $\frac{d\sigma}{ds} = \frac{ds}{ds}$

 $d\sigma = \frac{ds}{x^2 + y^2 + 1},$ a formula of great importance hereafter, inasmuch as it indicates the conformal character of the representation. F. Hardcastle, Riemann's Theory of Algebraic Functions,

Conformal representation. See ★representation. conformer, n. 2. An apparatus for obtaining a graphic tracing of the form of the body. conformist, n. 2. In entom., a British col-

lector's name for a noctuid moth, Xylina conformis

conformity, n. 4. In geol., parallelism of dip and strike between two strata or groups of strata. It may be produced by faulting, differing in this respect from conformability.

conformly (kon-fôrm'li), adv. In a conform

way; so as to conserve angles. con forza (kon fôrt'sä). [It.] In music, with torce or power.

confrunt, v. A simplified spelling of confront. confusion, n.—Confusion of goods, in law, an admixture of the property of two or more persons so that the individual property of each cannot thereafter be determined. determined.

Confusional insanity. See *insanity.

Cong. An abbreviation (a) of Congregation, Congregational, or Congregationalist; Congress or Congressional.

congelation, n. 3. The deposition of a mineral substance, as from an aqueous solution, either in crystals or otherwise: used particularly in regard to the formation of stalactites.

congener, n. 2. In anot., a muscle which acts with another in producing the same move-

usnai direction oegins.

In 1864 the American naturalist, Gill, published the conclusion that Lieptocephalus morristi was the young or larva of the conger, and Leptocephali generally the young stages of species of Murenidæ. In 1886 this conclusion was confirmed from direct observation by Yves Delage, who kept alive in a tank at Roscoff a specimen of L. Morristi, and saw it gradually transformed into a young conger.

Encyc. Brit., XXVII. 685.

conger-eel, n. 4. In Australia, Leptocephalus labiatus, Leptocephalus conger L., and Gonor-hynchus Gronow.

Dongeria (kon-je'ri-ä), n. [NL., from Conger, a surname.] A genus of extinct Pelecypoda Congeria (kon-jē'ri-ā), n. having large mytiliform shells with double myophores: abundant in the Pliocene Tertiary.

— Congeria stage, in geol., the lowest stage of the Pliocene Tertiary in the Vienna basin: so maned from the abundance of the molluscan genus Congeria.

congestin (kon-jes'tin), n. [congest + -in².] A poison found in the tentacles of Actiniæ.

Congestion, n.— Active congestion, arterial congestion due to greater afflux of blood to the part: distinguished from passive or renous congestion, which arises from obstruction to the escape of blood from the part.

Conglobate gland. See *gland.

Conglobate gland. See *gland.

conglomerate, n.—Allegrippus conglomerate, in geol., a mass of gray sandstones and conglomerates occurring in central Pennsylvania. It attains a thickness of 1,600 feet, and is regarded by the geologists of that State as equivalent to the lower part of the Cheming stage of New York, that is, as appertaining to the Upper Devonian.—Bloomsbury conglomerate, in geol., a division of Middle Devonian age underlying the Dadoxylon sandstone in New Brunswick.—Crush conglomerate, in geol., an aggregate of rounded fragments of rock, produced by the crush along a fault-line.—Dwyka conglomerate, in geol., an aggregate of rounded fragments of rock, produced by the crush along a fault-line.—Dwyka conglomerate, in geol., a formation in Sonth Africa of great thickness and extent, composed of pebbles and boulders, the latter often weighing a ton or more. It contains no fossils, but is regarded by most writers as a sheet of glacial deposits, the age of which has not been deficitly ascertained, though it doubtless belongs to the closing stages of Paleozoic time.—Mispec conglomerate, in geol., a division of the Middle Devonian series in New Brunswick.—Olean conglomerate, in geol., a subdivision, in New York, of the Upper Carboniferous or Pennsylvanian series, the highest and latest of the Paleozoic rocks in that State. It is a quartz-pebble conglomerate overlain by a small amount of shale, and has been found to contain plant remains of the age of the Pottsville sandstone of Pennslyvania.—Onelda conglomerate, in geol., a division of the Paleozole series in New York, lying

at the base of the Upper Silurian, above the Lorraine beds and below the Medina sandstone. It consists largely of white-quartz conglomerate and sand, and carries no fossils, but attains considerable thickness, especially in eastern New York, where it constitutes the greater part of the Shawangunk Mountains and is termed the Shawangunk File.—Panama conglomerate, in geol., a conglomerate lentil in the midst of the Cattarangus redshale formation of the Paleocarbonic series in Cattarangus and Chantanqua counties, New York, and McKean and Warren counties, Pennsylvania. It has also received the names of Salamanca, Mount Hermon, Pope Hollow, and Tuna conglomerate.—Prieska conglomerate, in geol., a conglomerate, in geol., a local conglomerate of Premian age in the Orange River Colony, South Africa, regarded by some writers as of glacial origin.—Skunnemunk conglomerate, in geol., a local conglomerate of great thickness capping the Skunnemunk and Bedvale mountains, in southeastern New York, and overlying the Middle Devonian Bellvale dags.—Wolf Creek conglomerate, in geol., a local conglomerate in Allegany and Cattarangus counties, New York, lying on the Cattarangus shales and containing the earliest evidences of the Carboniferous fauna in this section.

conglutinated (kon-glö'ti-nā-ted), p. u. Same us conglutinate, a.

Congo blue, brown, etc. See Kongo *bluc,

congreganist (kong'grē-gan-ist), n. gréganiste, irreg. (congrégan(t), congregant, + -ist.] In the Rom. Cath. Ch., one who belongs to one of those religious associations which go under the common name of congregations. See congregation, 6.

congregant (kong 'grē-gant), n. [L. congregans (-aut), ppr. of congregare, congregant.]

A member of a congregation or assembly.

congregation, n. 10. The coming together of

the elements of a population by immigration, as opposed to the growth of a population by a birth-rate in excess of a death-rate. It is an aggregation of individuals or of families that have not been living together from their hirth, and that therefore come together as partial or entire strangers. Giddings, Prin. of Sociol., p. 91. See genetic *aggregation.

congregationalize (kong-grē-gā'shon-al-īz), v. l.; pret. and pp. congregationalized, ppr. congregationalizing. [congregational + -ize.] To render congregational in regard to polity

as, to congregationalize a Presbyterian church. congregationist (kong-gré-ga'shon-ist), n. [congregation + -ist.] A member of a (Roman Catholic) congregation; a congreganist.

congregativeness (kong'grē-gā-tiv-nes) Tendency to congregate or form assemblies. communities, etc., as for protection, social enjoyment, profit, etc.

congressionalist (kon-gresh'on-al-ist), n. [con- conimene (kō'ni-mēn), n. A sesquiterpene, A member of a congresgressional - -ist. sional party; one who favors or supports congressional action or congressional measures. congressist (kong 'gres-ist), n. [congress + -ist.] A member of a congress (as of scientists, educators, or the like).

Contribute . . . to the emargement experience and knowledge of the congressists.

Nature, Sept. 24, 1903, p. 515. Contribute . . to the enlargement of the geological

congruence, n. 5. In gcom., identity in shape and size. Its symbol is ≡.

In the traditional geometry the foundation of all proof by Euclid's method consists in establishing the congruence

G. B. Halsted, in Popular Astronomy, VIII. May, 1900, pp. 277.

6. In line geom., a set of ∞ 2 lines, such that any two given conditions determine a definite finite number of lines of the set.

To any set of $\propto 2$ lines the name congruence is attached. C. M. Jessop, A Treatise on the Line Complex, p. vii.

congruent, a. 5. In geom., identical in shape and size.

But since no part of a curve can be congruent to any piece of a straight, so, for example, no part of a circle can be equivalent to any sect.

G. E. Halsted, in Pop. Astron., May, 1900, p. 277.

congruism (kong'grö-izm), n. [F. congruisme, \langle Nl., *congruismus. \langle 1., congruisme onitable congruous: see congruous.] In theol., the theory which makes the efficacy of grace depend upon its congruity with the conditions or circumstances under which it is granted.

congruist (kong'grö-ist), n. [F. congruiste, < NL. *congruista, < L. congruus, congruous: see congruous.] In theol., one who holds the theory of congruism.

congruistic (kong-grö-is'tik), a. Pertaining

to congruism or congruists.

Congruous grace. See *grace.
Coniacian (kō-ni-ā'shian), a. and n. [NL. *Coniacianus for *Coniacanus, < ML. Coniacum, Cognac.] I. a. In gcol., pertaining to a division or substage of the Cretaceous formation in France and Belgium. consisting mainly of white chalk

Congo blue, ... *brown, etc.

Congolese (kong-gō lēz'), a. [Congo + -c- (prob. after Angolese, from Angola).] Of or pertaining to the Kongo region, especially to the Kongo Free State. Also Kongolese.

congonha (kōn-gōn'yā), n. [Brazilian.] A shrub of southern Brazil, Villaresia Congonha, belonging to the family Icucinaeææ. From its leaves is prepared a beverage like mate, and on the Paraguay river it is called mate.

conic who congrature who congrature

coniceine (kō-nis'ē-in), n. [con(inc) + -ic + -e- + -ine².] An alkaloid, $C_8H_{15}N$, which exists in three forms—a- and β -coniceine, observed in the statement of the coniceine, observed in the coniceine of the conicein tained by heating conhydrine with hydrochloric acid (the first is a liquid which boils at 158° C., the second melts at 41° C.), and γ -coniceine, found in crude conine. The last boils at 173° C. and is 18 times more poisonous than conine, which it resembles. conicine (kon'i-sin), n. [con(ine) + -ic + -inc².]

Same as conine.

conico-elongate (kon"i-kō-ē-lông'gāt), a. Extended in cone-like form.

conicograph (kon'i-kō-graf), n. [Gr. κωνικός, conic, + γράφειν, write.] A conic-describing instrument. Sylvester.

conicohemispherical (kon "i - ko - hem - i - sfer 'ikal), a. Blending in shape the cone and hemi-

conicopoly (kon-i-kop'ō-li), n. [Tamil kan-akka, an account or writing, + pillai, a person (used also as a title of respect).] In the presidency of Madras, a native writer or clerk. Yule and Burnelt. [Anglo-Indian.]

conicosubulate (kon "i-kō-sub'ū-lāt), a. Slen-

derly conic; tapering toward a point. conid² (kō-nid'), n. [conidium.] A shortened and Anglicized form of conidium.

conidian (kō-nid'i-an), a. Same as conidial.

enjoyment, profit, etc.

congregator (kong'grē-gā-tor), n. [LL. congregator, < c

 $C_{15}H_{24}$, obtained from icica resin. It boils at 264° C.

coniopterygid (kō"ui-op-ter'i-jid), a. and n. I. a. Of or belonging to the family Conioptery-

II. n. A member of the family Conioptery-

Coniosporium (kon-i-ō-spō'ri-um), n. [NL. (Link, 1809), < Gr. κόνις, powder, + σπορά, seed (spore).] A genus of hyphomycetous fungi which have the hyphæ and sporophores very short and produce a powdery layer of dark simple spores on the surface of the host, About 75 species have been described, mostly saprophytic. C. Arundinis is a common species on Arundo.

Coniothyrium (kon-i-ō-thir'i-um), n. [NL. (Corda, 1840), ζ Gr. κόνις, powder. + θυρεός, shield (perithecium).] A genus of sphæronsidaceous fungi which have the pyenidia mestly scattered and embedded in the surface of the host. The spores are small, ellipsoid, and dark-colored. Over 150 species have been described, some of which are parasitic. *C. Diplodiella* is the cause of the white-rot of the grape. See *grape-rot*.

coniscope, koniscope (kon'i-skop), n. [Gr. .. κόνις, dust, + σκοπείν, view.] An apparatus for making visible and estimating the quantity of dust in the atmosphere, as distinguished from the dust-counter which is supposed to give an absolute measurement of the number of dust-particles. Specifically, Aitken's koniscope, consisting of a tube inclosing moist paper. When the inclosed air is nearly saturated and is allowed to expand slightly it forms a light mist, and the light transmitted through the tube is dimmed and colored in proportion to the number of dust-particles that serve as nuclei for condensation.

An abbreviation (c) of conjugation. conjective (kon-jek'tiv), a. [conject + -ive.]
In projective geom., said of two projective primal figures of the same kind of elements when both are on the same bearer.

conjecturably (kon-jek'tū-ra-bli), adv. In a conjectural manner; by way of conjecture. conjectural, a. 2. Given to conjecturing or to depending on mere conjecture: as, a con-

jectural critic.

conjoined, p. a. 2. Bimanual: noting a method of examination or manipulation of an organ with the two hands.—Conjoined manipulation, use of the two hands, one externally, the other internally, in obstetrical operations.

Conjoint bundle, in bot., a vascular bundle composed of

conjugable (kon'jö-ga-bl), a. [NL. *conjugabilis, < L. conjugare, conjugate.] Capable of

being conjugated. conjugata (kon-jö-gā'tä), n. [NL.: see conjugate.] The anteroposterior diameter of the human pelvis from the promontory of the sacrum to the symphysis pubis. Also called conjugate diameter.—Conjugata vera (true conjugata), the diameter of the pelvis measured from the upper and posterior portion of the symphysis pubis to the second sacral segment.

conjugate, I. a. 6. In gearing, said of tooth-profiles when they are of such a form that one will drive the other with a constant velocityratio, that is, when the ratio of the angular velocity of the driver to that of the driven is constant. The necessary condition for a constant ve-locity-ratio is that a normal to the two curves at the point of contact shall cut the straight line joining the centers of the gears at the point where it is intersected by the

two pitch-circles.
7. United by a transverse furrow, as the paired ambulacral pores of the echinoids.— Conjugate conics, foramen, spiral, sulphates. See *conic, etc.—Harmonically conjugate points. Same harmonic conjugates

as harmonic conjugates.

II. n.—Isogonal conjugates, two points so related to a triangle that the two rays through them from any vertex are isogonals with reference to that angle. The isogonal conjugate to the centroid of a triangle is called the Lemoine point of the triangle.—Isotomic conjugate. (a) of a point A with respect to the sect EC, a point A such that the sect AA has the same mid-point as BC, (b) of a point O with respect to the triangle ABC, a point O' such that on it are copunctal AX, BY, CZ when X, Y, Z are the isotomic conjugates, with respect to the sides, of X, Y, Z the points where transversals from A, B, C through O meet the sides.

Conjugate. v. t.—Conjugated double unions. See

conjugate, v. t.—Conjugated donble unions. See

conjunction, n.—Causal conjunction. See *causal. conjunctival fold, reflex. See *fold1, *reflex. conjunctive threads, tissue. See *thread, *tissuc.

conjunctivitis, n.—Egyptian conjunctivitis, Same as trachoma.—Spring or vernal conjunctivitis, a form of inflammation of the conjunctiva which prevails especially in the spring.

conjure, v. t. 4. To exorcise or 'lay'; quiet;

allay.

The mutinous spirit of the army had been conjured by the intrigues of a woman, when the name of the Roman Princeps had failed to coerce it.

C. Merivale, Rom. Empire, V. xlii.

Conjustment (kon-just'ment), n. [con-+(ad)justment.] Adjustment.

The conjustment of man and environment.
W. J. McGee, Smithsonian Rep., 1901, p. 73.

conk² (kongk), n. [Also conch, konk; prob. a figurative use of conch, a shell, etc. Com-



Conk (Trametes pini), one third natural size.

pare the slang use of cocoanut, knob, etc., as 'head.'] 1. The head. [Prov. Eng. slang.]— 2. The nose. [Prov. Eng. slang.]—3. In bot., a tough, leathery, or woody fungus, especially Trametes pini, whose fruiting bodies are bracket-like in form and occur upon the trunks of trees, producing a decay of the timber. [Colloq.]

The conk or bracket seen on affected trees is the fruit-The conk or bracket seen on affected trees is the fruiting organ. On its under side are innumerable minute spores or seeds. These float through the air and lodge upon other trees. Conk spores never enter through the bark, but usually through the scars of broken branches. Once the spore is established, root-like fibers grow inward, destroying the structure of the wood. When sufficient nourishment has been extracted a small conk is produced, which grows by annual layers on its under side, and in turn liberates millions of spores.

Bureau of Forestry, Bulletin 33, p. 15.

and in turn liberates millions of spores.

and in turn liberates millions of spores.

Bureau of Forestry, Bulletin 33, p. 15.

conker (kongk'er), n. [conk² + -er¹.] 1. A connection-strip (ko-nek'shon-strip), n. In snail-shell.—2. A snail-shell or a horse-chest-elect., a metallic strip joining points on a nnt used in a boys' game, in which the object is to break the snail-shell or horse-chestnut by striking it with another.—3. pl. The game itself. [Prov. Eng. in all uses.] Eng. Dial.

conky (kongk'i), a. [conk2 + -y1.] Attacked by fungi called conks: as, a conky hemlock. See *conk2, 3. [Colloq.]
Conn. An abbreviation of Connecticut.

Connaraceæ (kon-a-rā'sē-ē), n. pl. [NL (Rob-ert Brown, 1818), < Connarus + -aceæ.] A family of dicotyledonous archichlamydeous plants of the order Rosalcs, typified by the genus *Counarus (which see), and characterized by 5merous, chiefly hermaphrodite flowers with separate carpels. There are 19 genera and about 160 species, mostly tropical woody climbers or lianas, with odd-pinnate leaves and flowers in racenes.

connaraceous (kon-a-rā'shins), a. Of or belonging to the family Connaraceæ.

connarite (kon'a-rit), n. [Also konnarite and

Connarus (kon'ä-rus), n. [NL. (Linnæus, 1753, first proposed by him in 1747), ζ Gr. κόνναρος, the name of some unidentified evergreen tree.] Α name of some unidentified evergreen tree.] A genus of dicotyledonous evergreen trees or shrubs, type of the family Connaraceæ. They are characterized by their odd-pinnate coriaceous leaves with entire leaflets, and small white flowers in axillary and terminal pannicles. The flowers have five densely pubescent ovaries, one of which develops into an oblique atipitate capsule, the other four being usually abortive. About 70 species are recognized, natives of tropical and aubtrophical regions of America, Africa, and Asia, being particularly abundant in the Malay archipelago. See pigeonwood (d) and zebra-neood, 1.

connation, n. 3. In bot., the act of growing together, or the state of being grown together, as in connate leaves or petioles. See connate leaf (cut), under connate.

connect, v. I. trans .- Connected surface. See

II. intrans. 2. To make connection in time and place (with another train or boat): as, the boat connects with the train at Fall River.

connectible, connectable (ko-nek'ti-bl,-ta-bl), Capable of being connected.

Connecticut River sandstone. See *sand-

Connecticut trough. See *trough.

connecting-zone (ko-nek'ting-zōn), n. In bot., the zone or girdle connecting the valves of a

diatom. See hoop!, 4. connection, n. 8. Whatever connects or is used to connect; a connecting part or thing: nsed to connect; a connecting part or ining; as, hot-water connections.—Cascade connection, in elect.: (a) Connection in series, that is, so that the same carrent passes through different apparatus, as Leyen jars. (b) Inductive neries connection of induction motors or transformers, that is, such connection that the primary of the first apparatus connects to the supply-circuit, the secondary of the first to the primary of the second apparatus, the secondary of the second apparatus to the receiving-circuit or to the primary of a third apparatus, etc. Usually called connection or tandera connection.—Huntingdon Connection, the sect of to the receiving-circuit or to the primary of a third apparatus, etc. Usually called concatenation or tandena connection.—Huntingdon Connection, the sect of Methodists organized in England by the Countess of Huntingdon (1780). The Connection atill exists, with about 30 chapels. See Huntingdonian.—Multi-circuit connection, in series arc-lighting, a method of connecting in aeries alternately an arc-circuit consuming voltage and a section of the arc-light generator or constant-current transformer generating this voltage. By this means a very large number of arc-lamps can be operated from one machine or transformer without excessive voltages in any arc-circuit.—New Connection. (a) A body of Baptists in England which seceded in 1770 from the General or 'Arminian' Baptists, condemning the Unitarian tendencies in the latter and holding to the original Arminian doctrines. (b) A body of Methodists in England which seceded from the Wesleyan Methodist Connection (1797), advocating the distribution of power of government be-

tween the ministers and the laity.—Ring connection, star connection, in elect. See \star polyphase.—Tandem connection. Same as $ascade \star$ connection.

connectionalism (ko-nek'shon-al-izm), n.

[connectional + -ism.] The theory and practice of the system of the Methodist connection, that is, the complete organization and unification of the different societies by means of the class-meeting, the itinerant ministry, the conference, etc.

connection-peg (ko-nek'shon-peg), n. In elect., a metallic peg or plug, usually conical, cmployed in making temporary electrical connections. For this purpose the peg is inserted in the conical hole of a contact-block or connection-strip or between two blocks or strips, serving in the latter case to bridge the gap between the blocks or strips.

switchboard between which permanent electrical connection is desired, or serving a similar purpose in the case of any other electrical apparatus.

apparatus. **connective**, a.— **connective** arrangement, that special feature of the psychophysical organism, whatever it may be, by virtue of which attention and volition after they cease, as far as the subject can be aware, leave behind a continuance of their effects, perhaps more efficient than they. Thus, in reading music one first notices the clef, and then, without further apparent attention to it, proceeds to read the music without difficulty, although the signification of every note depends upon the clef, the thought of which does not consciously persist through the thought of which does not consciously persist through the reading. G. F. Stout, Anal. Psychol., i. 124.—Connective-tissue tumor. See *tumor.

tissue tumor. See *tumor.

connectivity (kou-ek-tiv'i-fi), n. [connective + -ity.] In math., the order of connection. In Riemann's theory the connectivity of a surface is p, the number of loop-cuts which can be drawn on the surface without resolving it into distinct pieces. For the sphere, p = 0, since it is divided into 2 disconnected regions by any closed curve drawn on its surface. For the ordinary anchor-ring, p = 1; a cut can be made along one and only one closed curve — though this may have a very arbitrary form — without resolving the surface into distinct portions. connarite (kon'a-rit), n. [Also κοματικο αικα (incorrectly) conarite or konarite, ζ Gr. κόνναρος, an evergreen tree, + -ite².] A hydrated nickel silicate occurring in bright green crystalline connector, n. (d) In geom., one of the ranges determined by n coplanar points ('dots') in a

In the case of a tetrastigm, it is often convenient to use the word opposite. Thus, in the tetrastigm ABCD the connector CD is said to be opposite to the connector AB; and AB, CD are called a pair of opposite connectors. It is evident that the six connectors of a tetrastigm consist of three pairs of opposite connectors.

R. Lachlan, Mod. Pure Geom., p. 83.

connexionalism, n. See ★connectionalism.

connexionalism, n. See *connectionalism.

conning-tower, n.—Conning-tower shield, an armor-plate at the rear of the entrance at the back of a conning-tower to protect the opening from the enemy's projectiles.—Conning-tower tube, an armored tube, extending from the floor of the conning-tower to the protective deck, in the interior of which are placed the transmission-shafts of steering-gear, speaking-tubes, signal-wires, etc., leading from the conning-tower below.

conniption (ko-nip'shon), n. [A made word of Latin appearance, as it were a blend of contraption) and terebuntion.

con(vulsion) and (er)uption.] An attack of hys teria; a fit of rage or vexation. [Slang, U. S.]

connive, r. i. 6. In biol., to be connivent.
connivence, n. 2. In nat. hist., the convergence of parts toward a common point. Same as counivency, 2.

The connivence of the anthers in a cone.

Lindley, Nat. Syst. Bot., p. 225. N. E. D.

connoisseurship, n. 2. Skill as a connoisseur; proficiency as an art critic.

Conognenessing sandstone. See *sandstone. connotively (ko-no'tiv-li), adv. In a conno-conscientialism (kon-si-en'shal-izm), n. live manner.

Among some primitive peoples, Individual names are applied connotively in such manner as to indicate order trank, which is synonymous with position in the camping group.

Smithsonian Rep., 1892, p. xxiv.

connubium (ke-nū'bi-um), n. [NL use of L. connubium, marriage.] In bot., the stage at which the protoplasm of filamentous algre coalesces in conjugation.

conocarpium (kō-nō-kär'pi-um), n.; pl. conocarpium (kō-nō-kär'pi-um), n.; pl. conocarpiu (-ä). [NL.] Same as conocarp.

Conoceras (kō-nos'e-ras), n. [NL., < Gr. κόνος, a cone, + κίρας, a horn.] A genus of nautiloid cephalopods or orthoceratites, having a straight shell with closely crowded septa in which the funnels are split on one side, the hiatus being closed by a flattened fold extending from one funnel to the next. It is of Lower Silurian age.

Concoryphe (kō-nō-kor'i-fō), n. [Gr. κῶνος, a cone, + κορνφή, vertex.] A genus of trilobites of Cambrian age, with rather small head, free cheeks carrying the genal spines, thorax

with 14 segments, and small pygidium. The genus is also called Conoccphalites.

Conoidal pump. See *pump1. conoodle, v. See *canoodle. conopid (kō'nō-pid), a. and n.

I. a. Of or belonging to the dipterous family Conopidæ. II. n. A member of the family Conopidæ.

conopodium (kō-nō-pō'di-um), n.; pl. conopodia (-ä). In bot., a conical receptacle.

Conorbis (kō-nor'bis), n. [L. conus, a cone, + orbis, a circle.] A genus of gastropods belonging to the family Conidæ, which have a high spire and curved, deeply notched outer lip. It occurs in the Eocene and Oligocene

Conoryctidæ (kō-nō-rik'ti-dē), n. pl. [NL., < Conoryctes, the type genus, + -idæ.] A family of extinct primitive edentate mammals belonging to the subborder Ganodonta. The species are from the Wasatch (Eocene) of the western United States. Wortman, 1896.

conotheca (kō-nō-thē'kā), n.; pl. conothecæ

(-sē). [NL., \langle Gr. κόνος, a cone, + θήκη, a box.] In the extinct dibranchiate cephalopods termed belemnites, the thin lining of the phragmacone, which is produced forward on the dorsal side into the proöstracum.

Pertaining to conothecal (kō-nō-thē'kal), a. or resembling a conotheca.—Conothecal striæ, the striations on the membranous investment of the conotheca of the belemnites.

con ottava (kon ot-tä'va). [lt.] In music, with the octave, usually the octave above: a direction added to a melody that is to be played in octaves. Abbreviated con 8va, con 8vi, or simply 8va, 8vi.

conplane (kon'plan), a. [con-+ planci.] Coplanar; situated in a common plane.

conquer-John (kong'ker-jon), n. The smaller or dwarf Solomon's-seal, Polygonatum biflorum. See Solomon's-scal, 1.

conquien (kon-ki-an', in Texas usually kön-Mexican game of cards for two players. The court cards are all thrown out. Each of the players receives ten cards, two or three at a time. The top of the stock is turned face up, and each in turn says whether or not it shall remain withhim. To use it, he must combine not it shall remain with him. To use it, he must commine it with two or more others in the same suit to make a sequence, or with two or three others of the same denomination. For every card taken from the stock the user must discard one from his hand. All combinations are left face up on the table, and the first to get down eleven cards wins. If neither gets down eleven, it is a tableau or tie.

conquinine (kon'kwi-nin), n. [con- + quininc.] Same as quinidinc.

Cons. An abbreviation (a) of Constable; (b) of Constitution; (c) [l. c.] of consonant; (d) of

consanguineal, a.—Consanguineal organization, a social organization based on consanguineous groups.

II. n. A person consanguineous with another one.

consanguined (kon-sang'gwind), a. Related by birth to another.

consanguineous, a. 4. In petrog., derived from a common parent magma: said of igneous

consanguinity, n. 2. In pctrog., the genetic relationship existing between those igneous rocks of one locality which have been derived from a common parent magma by processes of differentiation

conscience-stricken (kon'shens-strik"n), a. Same as conscience-smitten.

conscientia, consciousness (see conscience), + -all + -ism.] The doctrine that an external world is a hypothesis founded on our experience and that this hypothesis ought to be rejected as unnecessary. This is entirely different from the opinion of pragmaticism, which is that nothing exists but objects of conscionsness, but that this means possible consciousness, since consciousness in its wider sense is only possibility, and that the external world is entirely contained in that consciousness.

entirely contained in that consciousness.

CONSCIOUSNESS, N.—Action consciousness, in psychol., the consciousness immediately preceding, accompanying, and immediately following the performance of an action; specifically, consciousness during the reaction-experiment. E. B. Titchener, Exper. Psychol., I. i. 118.—Association consciousness associative consciousness, in psychol., the contents and disposition of consciousness during the process of associative reaction. E. B. Titchener, Exper. Psychol., i. i. 201.—Consciousness of kind, the awareness or consciousness on the part of any individual that another individual is in any respect, physical or mental, like himself.

The consciousness of kind, then, is that pleasurable

physical or mental, like himself.

The consciousness of kind, then, is that pleasurable state of mind which includes organic sympathy, the perception of resemblance, conscious or reflective sympathy, affection, and the desire for recognition.

Giddings, Inductive Sociol., p. 90.

Cosmic consciousness, a mystical consciousness of the life and order of the universe.—Disaggregation of consciousness, the separation of consciousness into more or less disconnected consciousnesses, of which the most striking instances are those of multiple personality. Ilypnosis, which has been defined as an inhibition of inhibition, is thought by some writers to be due to a loss of the normal harmony between the action of higher and lower nerve-centers. These writers regard all suggestibility as dependent upon a separation of the controlling and the reflex consciousnesses. In a state of drowsiness the ideas do not hang together; and this is an incipient disaggregation of consciousness. But it is evident that we cannot be directly aware of a disaggregation of awareness, since we "refer our ideas to ourselves," that is to say, have a certain union or harmony of such awareness as there is for us, "ourselves" consisting in this union. Consciousness is essentially a being of wholes.—Double consciousness is essentially a being of wholes.—Double consciousness is essentially a being of wholes.—Double consciousness, dual consciousness, in psychol., double or alternating personality; the apparent coexistence or alternation of two selves or persons in one and the same individual. It sometimes happens, with hypnotic subjects, that memory is continuons from hypnosis to hypnosis, as it is from normal state to normal state; so that there seem to be two distinct minds or selves (the normal self and the hypnotic self) within the single individual. Here, however, the facts readily admit of explanation in terms of the known laws of memory. If we wish to review a past experience, we must reproduce, so far as may be, the total conscious contents that constituted that experience. Now there is a marked difference between the consciousness of profound hypnosis and the waking consciousness. Hence there is no reason why one should remember from hypnosis to waking, or conversely; while there is no reason, psychologically, why memory sh

The psychologists of France, during the past few years have been diligently at work studying the phenomena of double consciousness and double personality in hysterical

A. Binet (trans.), Double Consciousness, p. 14.

Field of consciousness, in psychol., consciousness considered on the analogy of visual perception. As in the field of vision there is an area of clear perception and a surrounding region of obscure perception, so in the field of consciousness we have the focal area of attention and the marginal or peripheral region of inattention.—Printhe marginal of peripheral region of mattention.—Principle of the economy of consciousness, the principle that, in understanding anything, we do not actually recall in consciousness more than is necessary for the purpose.—Reaction consciousness, in psychophys., consciousness immediately preceding, during, and immediately following a reaction-experiment.

The reaction consciousness is the laboratory form of the action consciousness of everyday life.

E. B. Titchener, Exper. Psychol., I. i. 118.

con. sect. An abbreviation of conic section or of conie scetions.

consensually (kon-sen'sū-al-i), adv. By con-

or comensually (kon-sen'sū-al-i), adv. By consensually (kon-sen'sū-al-i), adv. By consensus or consent.

Consensns gentium, the general persuasion of mankind. This was urged by the Stoics as a confirmation of the opinion that there are immortal gods. The argument was adopted by the scholastic doctors and has been employed by theists ever since.

Consent rule, in law, in an action of ejectment, an entry on the record by the defendant confessing the lease, entry, and ouster, and insisting upon title slone.—Universal consent, the unanimous assent of all contemporary sane men, or, at least, of all men who are at present qualified to express an opinion which onght to weigh in the mind of a reader. Propositions which are admitted by universal consent ought to be reckoned as absolutely certain, according to the philosophy of common sense, but not in any very exact sense. Thus, it is a matter of universal consent that human thought can cause motions of matter; but when it comes to an exactly defined philosophical statement of this point, there is no universal consent, nor would it have any value if there were.

consentian (kon-sen'shian), a. [L. consentes, a word of unknown origin (Etruscan?) and meaning, in the phrase dii consentes.] Of or belonging to the dii consentes, or twelve superior deities of the Etrusco-Roman religion.

rior deities of the Etrusco-Roman religion.

consentience, n. 2. Agreement of opinion; the quality of being consentient (in sense 1): as, "the consentience of contemporary historical witnesses," Nineteenth Century, Oct., 1879,

consentient, a. II. n. One of two or more agree-

ing and mutually consenting minds. Ross, Moot Points in Sociol., VIII. 762. consequence, n. 7†. In astron., motion from an earlier to a later sign of the zodiac, or

from west to east; direct motion.

consequent, a. 4. In phys. geog., resulting directly from original conditions; having a course determined by the form or slope of an initial land-surface: as, a consequent divide, consequent drainage, a consequent river, a con-

conserve

3. In England, a court or conservation, n. board of commissioners having jurisdiction over a port (as London, Liverpool, etc.) or of a river (as the Thames, the Mersey, etc.), and charged with the regulation as well as the conservation of its navigation, fisheries, etc Conservation of areas. See *area.—Conservation of density in phase. See the extract.

In an ensemble of mechanical systems identical in nature and subject to forces determined by identical laws, but distributed in phase in any continuous manner, the density-in-phase is constant for the varying phases of a moving system; provided that the forces of a system are functions of its coordinates, either alone or with the time.

J. W. Gibbs, Statistical Mech., p. 9.

[Conservation of extension in phase. See the extract.

When the phases bounding an extension in phase see the extract in the course of time according to the dynamical laws of a system subject to forces which are functions of the coordinates either alone or with the time, the value of the extension-in-phase thus bounded remains constant. In this form the principle may be called the principle of conservation of extension-in-phase.

J. W. Gibbs, Statistical Mech., p. 10,

Law of conservation of mass, the law that the mass of any system is unchanged by any process which takes place within that system.—Law of conservation of matter, the general fact that in the innumerable changes of properties undergone by matter, involving the production and the disappearance of particular substances, there is neither creation nor destruction of matter in the abstract, or, in other words, that the total quantity of matter in existence, as far as observable by us, is unchangeable. Thus, when a piece of wood burns it ceases to exist as wood, and at the same time a part of the oxygen of the surrounding air ceases to exist as oxygen gas, but instead of these there come into existence and mingle with the remaining air carbon-dioxid gas and vapor of water, and the sum of the quantities of these newly formed substances exactly equals the sum of the quantities of those which have disappeared.

conservatist (kon-ser'va-tist), a. and n. Conservative, or a conservative. Law of conservation of mass, the law that the mass of

conservative, or a conservative. conservative organs. See *organ!. consider, v. i. 3. To look carefully or attentively. Lev., xiii. 13.

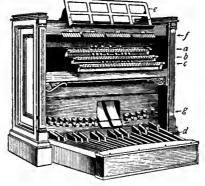
tively. Lev., xiii. 13.

consideration, n.—Illegal consideration, a consideration which will not support a contract by reason of the fact that the thing done or promised is centrary to public policy.—Impossible consideration, a consideration which from its nature cannot be performed. Such a consideration is void in law.—Meritorious consideration, a consideration based upon natural love and affection. A contract depending upon such consideration will be sustained in a court of equity where the relations of the parties are such as father and son, brother and sister, husband and wife, etc.; otherwise not.—Moral consideration, a consideration based upon moral duty, but which carries with it no legal obligation.—Past consideration, something done prior to the making of a contract. The contract cannot be enforced upon a past consideration alone. consigne, n. 2. A form of punishment consisting in confinement to prescribed limits. sisting in confinement to prescribed limits.

sisting in confinement to prescribed limits.

Consilience of inductions, the sgreement in final result of scientific investigations along widely different lines of research: a term introduced by Whewell. Instances of this phenomenon are extremely rare. But the agreement between the determinations of the number of atoms in a molecule by osmotic pressure and the depression of the freezing-point of solutions, the rough agreement of different estimates of the size of molecules, the agreement of the different ways of determining the velocity of light, etc., may be considered as a consilience of inductive arguments in favor of the different general principles upon which these various determinations were based.

consimilar, a. 2. In bot., having both sides alike: specifically applied to the valves of a diatom.



Console.

Console.

a, swell-organ keyboard or manual, with six combination pistons above affecting the swell-organ stops; \(\delta\), great-organ keyboard or manual, with eight combination pistons: \(\delta\), chi-organ keyboard or manual, with six combination pistons: \(\delta\), pedal-organ keyboard, which is both concave and radiating; \(\delta\), music-rack; \(\delta\) tilling tablets, controlling both stops and couplers (taking the place of the draw-knobs formerly used), grouped according to the keyboards to which they belong, those of the pedal organ being on the left, those of the choir-organ next.etc.; \(\delta\), combination pedals, with two swell pedals in the center, the one belonging to the swell-organ, the other to the choir-organ.

sequent valley, etc. Contrasted with *insequent, 2, *obsequent, 2, *antecedent, 2. conserv, v. t. and n. A simplified spelling of adopted."

conserv, v. t. and v. A simplified spelling of adopted."

conserv, v. t. and v. A simplified spelling of adopted."

consistent equations. See *equation. consociationism (kon-so-shi-a'shon-izm), n. The theory and practice of consociatism.

The theory and practice of consociatism.

consolation, n.—Dutch consolation, the thought that things might be worse, or might have been worse.

console², n. 4. In organ-building, the desk in which the keyboards and stop-action are contained and before which the player sits. Where the action is pneumatic or electric, the consola may be quite detached from the rest of the instrument and even capable of movement from one position to another, the action being transmitted through tubes or wires. In this case it is said to be movable. See ut in preceding column.—Detached console. See *console², 4.—Movable console. See *console², 8. Consolidated annuties. See annutu and consols.—

Consolidated annuities. See annuity and consols.—Consolidated content. See Funded ★content

consolidating-apparatus (kon-sol'i-dā-tingap-a-ra*tus), n. In the crinoids of the family Cupressocrinidæ, a peculiar annular structure situated on the upper interior margin of the calyx between the arm-bases. consolidation, n. 7. In geol., the mechanical

consolidation, n. 7. In geol., the mechanical process by which separated parts of a rock are brought closer together through pressure. The pressure may be due to superincumbent weight or lateral thrust, or it may accompany mineral growth and metasomatism. Fine sediments, such as sitts or muds, are most affected by this process. The included water, which largely acts as a separating film in them, is squeezed out, bringing the mineral particles into contact. This, together with mechanical readjustments of the particles themselves, results in great increase of cohesion. Van Hise, U. S. Geol. Sur., Monograph 47, p. 596.

8. In finance, the combining of two or more sources of revenue into a common fund, or of

sources of revenue into a common fund, or of varied forms of public indebtedness into a stock bearing interest at a uniform rate.

N. E. D.

consolute (kon-sō-lūt'), a. [con- + solute.] In phys. chem., commonly soluble: when two solvents which do not mix are in contact and have each in solution a given third substance, the latter is sometimes said to be consolute, that is, to be a solute common to the two solvents.

He showed that in the case of two non-miscible liquids and a consolute liquid, the equilibria can be represented by the mass law equation, and that there are only two sets of equilibria over the whole range of concentration, and these are represented by two different equations.

Jour. Phys. Chem., April, 1904, p. 248.

conspiracy, n. 3. An ancient writ which was issued against parties alleged to be guilty of a conspiracy to indict a party for treason or a

conspirital (kon-spir'i-tal), a. [In form, < L. com-, together, + spirit(us), spirit, + -al. The sense implies a formation from conspire or conspir(acy) + -ital.] Constituted conspiracy.

Unscrupulous adventurers . . . create relations of personal allegiance by means of bribery, patronage and preferment. Intrigue and conspiracy are the social bonds. The social type is the conspirated.

Giddings, in Am. Jour. Sociol., X. 169.

const. An abbreviation (a) of constitution; (b) of constable.

constable, n. 3. The commander of a constabulary or company of men-at-arms.

In the matter of administrative organization the menatarms were distributed into constabularles, being commanded by officers called constables.

J. W. Fortescue, Hist. Brit. Army, I. i. 2.

constancy, n. 4. A constant job: as, "a constancy and good wages promised for a good workman," The Scotsman (advt.).

constant. I. a.— constant current. See *current1.

—Constant-deviation spectroscope. See *spectroscope.—Law of constant heat sums, law of constant proportion. See *law1.

scope.—Law of constant heat sums, law of constant proportion. See *tawl.

II. n.—Affinity constants. See *affinity.—Capillary constant, a numerical constant denoting the attraction between two surfaces to which the phenomenon of capillarity is due.—Constant of aberration. (b) The seminajor axis of the aberrational ellipse which every star apparently describes in a year on account of the aberration of light. It is very nearly 20.5".—Constant of capillarity. See capillary *constant.—Constant of light-equation, the number of seconds by which the distance of a body, expressed in astronomical units, must be multiplied to give the corresponding equation of light. (See equation.) It is 499*, the time in which light travels from the sun to the earth.—Constant of nutation, the seminajor axis of the nutational ellipse described in 19 years by the axis of the earth under the nutational disturbance produced by the moon. Its value is 9.21".—Constant of precession, the average amount by which the equinox moves annually westward along the ecliptic. Its value is at present 50.25".—Cyclic constant, the constant by which a many-valued function changes on describing a cycle.—Dielectric constant, in elect., the specific Inductive capacity of an insulating medium, measured as the ratio of the capacity of a condenser with air-insulation.—Diffusion constant, a numerical constant or coefficient denoting the

rate of liquid or gaseous diffusion.—Dissociation constant, in phys. chem., a number from which can be computed the degree of dissociation at any desired dilution of any electrolyte which obeys a certain law. The degree of dissociation varies greatly with the varying volume In which a gram-molecule of the electrolyte is dissolved, but from the variable dissociation of an electrolyte we can compute in many cases a quantity which does not vary with the dilution. For an electrolyte which dissociation into two ions, in many cases, if we put m for the degree of dissociation at any volume represented by v, which stands for the number of liters which contain one gram-molecule of the solute, we find $\frac{m^2}{(1-m)v} = a$ con-

stant; and the numerical value of this quantity is the dissociation constant for the given substance.—**Electrical** constant, a numerical quantity, such as the specific inductive capacity, employed to designate or describe some electrical property of a body.—**Kerr's constant**, the quantity k in the expression $\epsilon = k I_0$, where ϵ is the rotation of the plane of polarization of a ray of polarized light reflected from the surface of a magnet and I_0 is the normal component of magnetization. Kerr's constant is used in the optical method of measuring the strength of the magnetic field.—**Kundt's constant**, the constant quantity ψ in the equation $\epsilon = \psi Id$, which expresses the power of ferromagnetic substances (taken in thin layers) to turn the plane of polarization of transmitted light. The angle of rotation is ϵ ; I is the strength of the magnetic field; and d is the thickness of the layer.—**Level constant**. See *elvel1.—**Newtonian constant**. Same as gravitation constant, which see, under constant).—**Optical constant**, a numerical quantity, such as the index of refraction, employed to designate or describe some optical property of a substance.—**Precession constant**, the quantity $\frac{C-\lambda}{2}$, where C is the moment of inertia of the requantity $\frac{C-\lambda}{2}$, where C is the moment of inertia of the restant; and the namerical value of this quantity quantity $\frac{C-A}{A}$, where C is the moment of inertia of the re-

refraction, employed to designate or describe some optical property of a substance.— Precession constant, the quantity \$\frac{C}{A}\$ where \$C\$ is the moment of inertia of the revolving body about its polar axis and \$A\$ is its moment of inertia about an equatorial diameter. The seven numerical quantities used to compute the precession of the equinox are also called precession constants.— Radiation constant, the heat, in calories, lost by radiation from a unit aurface in a unit of time when the radiating body has a temperature one degree centigrade above its surroundings; the emissivity.— Solar constant. See selar.— Spheroidal constant, one of the numerical quantities, such as the ratio of the axes, used in astronomy to define quantitatively the form of the earth.— Temperature constant, in phenology, the thermal constant.— Thermal constant, the phenology: the thermal constant.— Thermal constant, the phenology degrees required by a plant in order to attain any phase of plant life. This is not, strictly speaking, a constant, and the various attempts to define and compute it are known by the names of the respective authors, as follows: Adanson's constant (1750), the sum of all the positive mean daily temperatures on the centigrade scale, counting from the beginning of the year. Boussingault's constant (1837), the same as Adanson's except that it counts from the beginning of twegetation. Marie Davy's constant (1880), the sum of all the mean daily actinometric degrees in full sunshine, counting from the date of vegetation. Marie Davy's constant (1850), the sum of all the mean daily actinometric degrees in full sunshine above 5° C.), counted on the centigrade scale and from the date in the springtlme when such effective temperatures (the excesses of mean daily temperatures above freezing, (the positive maxima) on Reamon's constant (1857), the sum of all the positive daily mean temperatures above freezing, the positive maxima) on Reamon's constant (1857), the sum of all mean daily temperatures above freezing, the positi

constantan (kon'stan-tan), n. [From Constant, a personal name.] An alloy consisting of 60 per cent, copper and 40 per cent, nickel. Its electrical resistance, which is more than 50 times that of copper, varies inappreciably with change of temperature; its thermo-electromotive force in combination with copper is very large. It may be heated to 300° C. without oxidation. It is freely ductile.

Constantinian (kon-stan-tin'i-an), a. pertaining to Constantine the Great, a Roman emperor, or his reign (306-337 A. D.).

constantino (kon-stan-te'nō), n. [Amer. Sp.] A fish, Centropomus robalito, of the family Centropomidæ: found from Mexico to Panama.

Constellaria (kon-stel-ā'ri-ā), n. A genus of trepostomatous bryozoans growing attached to foreign bodies and having thin-walled cells consubstantialist, n. 2. Same as *consubwith abundant mesopores and the surface of

It is of Silurian age.

onstituent. I. a.—Constituent society, a society which is a constituent part of a larger social order, for example, a business corporation, a church, a political party, or a club. In the constituent society individuals work or find pleasure together, though they may not dwell in the same neighborhood or even in the same state. In the *component society (which see) individuals absent for an interest or an armony or may not work together. Gid. dwell together and may or may not work together. dings, Elem. of Sociol., p. 7.

dings. Elem. of Sociol., p. 7.

Constitution, n.—Constitution Church, the church which was established in France by the decree of the Constituent Assembly, July 12, 1790. This decree provided that all bishops should be elected by Jocal conventions of the clergy, without recourse to the holy see, and that the entire clergy should take an oath to maintain the civil constitution provided by the assembly.—Provincial constitutions, the decrees of provincial synods held under divers archibishops of Canterbury. Bouvier, Law Diet.—Social constitution. See *wociol.

Constitutional Law. (a) A valid law; one which is not unconstitutional. (b) That branch of the law which defines and interprets the scope and meaning of a constitution.

constitutionally, adv. 4. As regards constitution or composition: as, the substances differ both toxicologically and constitutionally.

constitutive, a. 3. In phys. chem., a term introduced by Ostwald to denote those propconstitutive, a. erties of a compound which depend on the constitution of the molecule, or on the mode of union and arrangement of the atoms in the union and arrangement of the atoms in the molecule. For instance, of two molecules having the same number of the same atoms, one turns the plane of polarized light to the right and the other to the left; this difference is obviously due to something in the structure of the molecule—it is a constitutive property, as distinguished from an additive or a colligative property.—Constitutive government. See *government.

**constrain, r. t. 6. In mech.: (a) To prevent the occurrence of (motion), except in a particular direction; as the relative motions of

ticular direction: as, the relative motions of the parts of any machine are always constrained. (b) To prevent the operation of the motion of (a material point or body), except in a particular and definite manner: as, lo ain a part of a mechanism.-Constrained

system, a system of points subject to constrained system, a system of points subject to constraints, that is, force regarded as infinite which compel a certain relation between their motions.

construct, a. II. n. 1. Something constructed or created.—2. In compar. psychol., the mental picture answering to a real or a possible object of sense: regarded as the mental result of the action of external stimuli.

In all these eases, the object is constructed at the bidding of certain sensations, which suggest to my mind the associated qualities. The object is a construct.

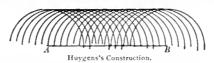
C. L. Morgan, Animal Life and Intelligence, p. 312.

3. In math., a configuration or surface. The notion of monogenic construct is wider than that of monogenic function.

Ency. Brit., XXVIII. 541. a monogenic function.

constructible (kon-struk'ti-bl), a. Capable of being constructed.

Construction, n.—Burean of Construction and Repair. See *bureau.—Henneblque construction, a system of construction in concrete reinforced by steel or iron introduced in various ways. It was first brought to perfection by M. François Hennebique, a French builder. See reinforced *concrete.—Huygens's construction, a geometrical method, first employed by Huygens, for represent-



ing the front of a light-wave. It consists of a set of equal semicircles the centers of which are equidistant points along a line, AB, which represents the front of the wave at along a line, AB, which represents the front of the wave at a given instant, t. The envelop of the semicircles is the wave-front at a later time, t, such that their radius measures the progress of the wave during the intervening interval.—Mill construction, in arch, construction by means of solid timbers and thick planks with no inclosed hollow spaces. Thus the floors are of very thick planks resting directly on girders. Such a building resists fire, and is often said to be of slove-burning construction.—Terrace of construction. Same as alluvial *terrace. constructional, a. 2. Controlled by the original and still prevailing surface attitude and inal and still prevailing surface attitude and structure of the land: said of watercourses. See *consequent and *attitude.—3. Formed by or resulting from consequent drainage: said of land-forms: as, a constructional divide or val-

ley.—Constructional slope. See **slope.
construction-train (kon-struk'shon-train), n.
A train of cars adapted to the conveyance and application to use of the materials for the construction or repair of railroads.

Constructive theft. See *theft. construe, r. II. intrans. To yield to or admit of grammatical analysis or interpretation: as, a sentence that will not construe.

stantiationist.

the zoaria covered with star-shaped maculæ. consubstantiationist (kon "sub-stan-shi- \hat{a}' shon-ist), n. One who holds the doctrine of consubstantiation.

consul, n. 5. Formerly, in southern France and Catalonia, a municipal magistrate. E. D.—6. Formerly, within the foreign colony or settlement of a town, the representative chief of the merchants and their intermediary with the local government. N. E. D. -7. A local representative of a cyclists' touring club. consul (kon'sul), v. t. [consul, n.] To submit (an invoice) for certification to the consul of a country to which goods are consigned.

country to which goods are consigned.

Consular bureau, see *bureau.—Consular court, a court of justice presided over by a consul. Such courts are established only in countries where extraterritoriality (which see) has been conceded by treaty to other foreign nations, as by China, and formerly also Japan. The jurisdiction of these courts is limited to suits arising between the consuls own countrymen, and to hearing and deciding snits brought against any of them by subjects of the country in which the count is established.

Consultation game, in chess, a game in which two or more persons play on one side and the moves are made after joint deliberation.

Consumption, n. 5. In Rom. law, loss of a right of action after commencement of the Suit.—Acute, galloning, hasty, or rapid consumption.

suit.—Acute, galloping, hasty, or rapid consumption, pulmonary tuberculosis running a rapidly fatal course.—Hatters' consumption, a catarrhal condition of the bronchial tubes and pulmonary alveol, due to the inhalation of particles of felt, silk, or other materials used in the manufacture of hats.—Luxus consumption, the ingestion of an excessive amount of albuminoid food, far beyond the needs of the organism.—Potters' consumption, same as potters' *asthma.

consumption-weed (kon-sump'shon-wed), n. The round-leaved wintergreen, Pyrola rotundifolia: so called from its supposed medicinal

consumptive, a. 5. Indicating the presence of consumption: as, a consumptive cough.

contact¹, n. 4. In geol., the surface of june-ture, specifically of an igneous intrusion and its containing-walls, along which mineralogical and structural changes, and especially oredeposits, are often developed; also applied to the surface of juncture of any two contrasted rocks.—5. In anthropol., the meeting of tribes or peoples of different culture, particularly that of a primitive tribe with the trade influence of a superior people. - 6. psychol.: (a) A light pressure upon the skin; a low degree of intensity of the adequate stimulus of the pressure-spots. (b) A weak sensation of pressure. Some psychologists regard the sensation of contact as qualitatively different from the sensation of pressure. In all probability, however, the two are simply degrees of one and the same sensible quality.

Still other points on the skin, very wealthily inter-spersed amongst the others, give us, if excited in isola-lation, sensations of contact or of pressure. Royce, Outlines of Psychol., p. 133.

Contact sensation; Ger. Berührungsempfindung; F. sensation de contact; Ital. sensation di contatto. A sensation made up probably (Dessoir) of touch sensation and pressure sensation. Buldwin, Dict. Philosophy and Psychology.

Angle of contact. (b) See *nnyle3.—Center of contact, the point of intersection of two tangents at two points of contact of two conies or other plane curves.—Circumaxial contact. See *circunaxial.—Contact action. An important application of this principle to industrial purposes is the manufacture of sulphuric acid by the combination of sulphur dioxid with additional oxygen, on passing these gases over heated platinum in a finely divided state, the platinum remaining unchanged, while the resulting sulphur trioxid is conducted into water: spoken of as the contact process for the manufacture of sulphuric acid.—Contact difference of potential, electricity, electromotive force, metamorphism, mineral. See *potential, *electricity, *electromotive, *metunorphism, *mineral.—Contact paper, in photog., sensitized paper used for contact-printing.—Contact phenomena, effects produced upon older rocks by the introduction of an igneous mass, as a dike or an intruded sheet. The presence of the more highly heated body, with its attendant inheralizers and the circulation of waters induced, leads to many changes in the minerals and rock-structures near the contact.—Contact print, in photog., a print made by the exposure to light of a sensitive surface placed behind and in contact with a negative or other object to be copied. See contact-printing, below.—Contact-printing upon bromide paper behind, and in contact with a negative; also, printing upon bromide paper behind, and in contact with a negative; also, printing upon bromide paper behind, and in contact with a negative, exposed a few feet ways from an artificial source of light.—Contact process, in phys. chem., a process which is accelerated to a useful rate by contact of the acting substance with an other substance which is left unchanged at the end of the reaction, in phys. chem., a reaction which is much accelerated by contact of the acting substance with another substance that is left unchanged at the end of the reaction; a catalytic reaction.—Contact transformation, in mat

contact

an element by such substitutions as transform into itself the linear differential equation dx - pdx - qdu = 0. Two manifoldnesses, having a contact, that is, having a surface-element in common, are changed by the transformation into two others which also have a contact; hence the name given by Lie to the transformation.—Gontact velin, same as contact deposit.—Internal contact, the apparent contact of the edge of the disk of the moon at the time of an annular celipse, or of the planets venus or Mercury at the time of transit with the inner edge of the sun; opposed to external contact, when the moon or planet appears to touch the sun's disk from the outside.—Optical contact, in photog, the contact of any two substances brought into close union with each other and presenting two instead of four surfaces, as a silver-backed nuiror.—Sensation of double contact. (a) The sensory experience which arises when a movable object, as a stick or a pencil, is thrust or pressed by the hand against a second object, or passed over its surface; the experience of projected touch, in which the sensations appear to have their origin, not in hand or arm, but at the tip of the stick or pencil. (b) The sensations aroused by pressure of one part of the skin upon another. (c) The twofold sensation (pressure followed by pain) which arises when the skin, for example, of the wrist is tapped with the point of a needle whose shaft is held loosely between the finger and thumb of the other hand.—Sliding contact, the communication of motion by means of surfaces which drive with a necessary slipping of one surface on the other, as distinguished from rolling contact, where no slip occurs. Sliding contact occurs when the driving is by cams, the teeth of wheels, screws, wedges, and pin-joints.—Wipe contact. (a) Interrupted contact; the touching of one part of a machine by another in the course of the travel of either part; the wiping of one part of a machine or engine by mother. (b) A method of making an electric circuit, the contact poin

termittently filtered in order that contact with bacterial organisms and atmospheric oxygen, over the great surface presented by the pores of the mass, may bring about chemical destruc-tion of the noxious organic matter present.— 2. In geol., a bed lying next to (in contact with) a formation of a different character.

contact-block (kon'takt-blok), n. In elect., a metallic block forming part of an instrument, as a rheostat, and serving, in conjunction with a peg, plug, serew, or brush, to convey current to any portion of the electric circuit with

which it may be connected.

contact-irritation (ken'takt-ir-i-ta shon), The irritation produced in the cells of a plant by the contact of an insect or fungus, which frequently stimulates growth and produces slight abnormalities.

Some epiphytes, however, are able to fix their hyphe to the epidermis by sending minute peg-like projections to the eutide—Trichosphæria, Herpotrichia—while others send haustoria right through the outer epidermal walls—e. g. Erysiphe—and thus supplement mere contact-irritation and shading by actual absorption from the external cells. H. M. Ward, Disease in Plants, p. 135.

contact-pin (kon'takt-pin), n. In elect., a metallie pin by means of which contact for the conduction of current is secured between the parts of any electrical apparatus.

contact-ring (kon'takt-ring), n. In elect., a metallic ring on the shaft of a dynamo or motor, or of any electrical apparatus, for the trans-mission of current, by sliding contact, between the fixed and moving parts. contact-screw (ken'takt-skrö), n.

In elect. a screw by means of which metallic contact for the conduction of current is secured between the parts of any electrical apparatus.

contact-stud (kon'takt-stud), n. In elect., a stud or peg by means of which metallic contact for the conduction of current is secured between the parts of any electrical apparatus. contact-vein (kon'takt-van), n. A vein fellowing the plane of contact between different rock-formations.

contagion, n. 5. A contagious disease.—psychical contagion, the propagation of nervous disorders through imitation, as when chorea attacks many children in a school. The dancing manias of the middle ages are typical examples of psychical contagion.

contagiosity (kon-tă-ji-os'i-ti), n. [contagious (L. -iosus) + -ity.] Contagiousnoss.
Contagium vivum (L. living contagium), a living germ of infectious disease, either a bacterium or a protozoan parasite.

contain, v. t. 9. To hold (a body of troops) in position, usually by deploying the containing force in its front and threatening an at-

Regiments or even brigades lying flat on the ground, . . their presence in front of the enemy will have the

advantage of containing him; but in the open, across which an enemy has to advance, a containing force of a proportion of one man to five of the cnemy is quite sufficient. $H.\ A.\ Gaymac$, in War's Brighter Side, p. 174.

contano (kon'tä-nō), r. [It., 'they count' (time), pres. ind. 3d pers. pl. of contáre, count', r.] In writing music for an orchestra, a direction that a particular instrument is to be silent for a time. Abbreviated cont. content³, n. 6. The amount or quantity

vielded.

The director of the Arizona Experiment Station reported that the sugar content in pounds per acre from five characteristic soils of that Territory ranged from 1,491 to 3,361 pounds. Yeurbook U. S. Dept. Agr., 1901, p. 41. Funded content, in psychol., a mental content of the second order, supposed to be produced by the bringing together of other contents into a unitary whole; a form quality, or form of combination.

Funded or consolidated contents are, then, such contents as are produced by bringing together, in a very in-timate way, various part-contents.

1. M. Bentley, in Amer. Jour. Psychol., XIII. 279.

conterminousness (kon-ter'mi-nus-nes), n.

The condition of being conterminous. contestation, n. 5. Same as contention, 5.

contiguity, n.—Synthesis of contiguity. See ★syn-

Continent, it.—Indo-African continent, a term referring to the former more or less extensive union of Asia and Africa by a supposed land connection in the vicinity of the southern end of the Red Sea. This is indicated by soundings, but especially by the character of the fossii fauna of the Sivalik Hills, India.—Dark Continent,

circuit, the contact points passing over each other with a sliding or wiping contact. The arc terminals are kept free of oxid or deposit, because the surfaces are cleaused by the sliding action.

contact? (kon-takt'), n. [L. contactus: see circuit and specially by the contact points passing over each other with a person suffering from it. Med. Record, Feb. 28, 1903, p. 346.

contact-bed (kon'takt-bed), n. 1. A layer of porous material through which sewage is internal part of Europe.

contactivit the contact points passing over each other with a soliding or wiping contact. The arc terminals are kept from its kilding action. Africa.

Contactive (contact part contact size of the sosi fanna of the Sivalik Hills, India.—Dark Continental

Africa.

Continental divide. See **divide.—Continental gladeler, high, *sizand1, circ.

Continental size (kon-takt-bed), n. [continentalism (kon-ti-nen'tal-izm), n. [continentalism (kon'tra), n. [continentalism (kon'tra), n. [contact-bed (kon'takt-bed), n. 1. A layer of porous material through which sewage is intental part of Europe.

contactly (kon'takt-bed), n. 1. A layer of porous material through which sewage is intental part of Europe.

continental divide. See **divide.—Continental gladeler, high, *sizand1, recontact part of the mountains of Utah, where the waves of Lake Bonne-dividence of the continental gladeler, high, *sizand1, recontact part of the mountains of Utah, where the waves of Lake Bonne-dividence of the many ways resmible the elevated shore of the mountains of Utah, where the waves of Lake Bonne-dividence of the mountains of Utah, where the waves of Lake Bonne-dividence of the many ways resmible the elevated shore of the mountains of Utah, where the waves of Lake Bonne-dividence of the many ways resmible the elevated shore of the continental gladeler, high, *idental part of the mountains of Utah, where the waves of Lake Bonne-dividence of the many ways resmible the elevated shore of the continental gladeler, high, *idental part of the mountains of Utah, where the

tinental part of Europe.

continentality (kon*ti-nen-tal'i-ti), n. [continental+-ity.] 1. The character of being continental.—2. In meteor., the extent to which the climate of any spot agrees with the typical continental climate. As defined by typical continental climate. of temperature divided by the sine of the latitude; but he uses the arc itself.

continentalize (kon-ti-nen'tal-iz), v. t.; pret. and pp. continentalized, ppr. continentalizing. [continental + -ize.] To make continental; infect with the ideas and ways of the continent of Europe.

contingency, n. 4. In biometry, a method of studying statistically biological data that do not admit of numerical expression.

I think . . . I have surmounted the difficulty of scale orders by applying the new method of contingency, which completely dispenses with any scale order.

Pearson, in Biometrika, March and July, 1904, p. 150.

Contingent damages, debt. See *damage,

continuant, n. 2. A consonant such as f, v, s, z, etc., the sound of which may be indefinitely prelonged, as distinguished from a 'stop,' such as p, b, etc., which involves a complete closure of the mouth.

continuating (kon-tin'ū-ā-ting), p. a. Serving to continue.—Continuating glasses. See *glass. Continuation school, a school in which instruction is given, usually in the evening, in continuation or extension of that given in the ordinary day-schools; an evening-school for popular instruction by lesson or lecture. [Eng.] Nature, Sept. 17, 1903, p. 492. continuative, n. 3. In philol., a form that

indicates continuation.

The continuative [in the Chinook verb] is a purely intransitive tense, because in transitive verbs the object limits the action in such manner as to preclude the possiits occurrence.

Amer. Anthropologist, April-June, 1900, p. 213.

Continued fraction of the second order. See ★frac-

tion.—Continued rest. See *rest. continuist (kon-tin'ū-ist), n. [L. continuus, continuous, + -ist.] One who holds that a certain thing is continuous; as, specifically, that a declaration or prophecy in the Revelation of St. John refers in part to the past and continues to refer for the rest to the future.

continuity, n. 4. In biol., the existence of successive generations of living beings without any gap or interruption of material compoany gap or interruption of material composition. See *germinal continuity.—Amputation in continuity. See *amputation.—Doctrine of continuity, the doctrine that all real variations are continuous and without sudden jumps. The doctrine was particularly advocated by Leibnitz, and more and more fully as his reflections advanced. There are many varieties of the doctrine. Thus, it may be held absolutely or only as a regulative principle, or even only as a sound working hypothesis. It may be held as strictly applying to every character (so that, for example, its advocate will contend that things are mure or less real but not abso-

lutely real, etc.) or it may be held under definite or indefinite restriction. The continuity predicated may also be understood in several senses.—Germinal continuity. See *\(\pm\)erminal.—Protoplasmic continuity, in cytol., the connection, by means of very delicate strands of protoplasm, between the living substance of adjacent cells. In plants these strands pass through minute pores in the cell-walls.—Synthesis of continuity, direct union of the ends of a fractured bone or the lips of a wound.

continuo (kon-tin'ū-ō), n. [It. basso continuo, continued bass.'] Same as figured bass, which see, under bass3.

Continuous action. See *action.—Continuous current. See *current1, 6.—Continuous flow calorimeter. See *calorimeter.

continuum, n. 2. In math., the whole system of positive and negative integral, fractional,

and irrational numbers.

contort (kon-tôrt'), a. [L. contortus, pp.: see
eontort, r.] Twisted; contorted.
contortion, u. 3. In regetable teratol., an

irregular twisting or bending of the stems or branches of plants, due to various causes, usually accidental. Masters.—4. In geol., the disordered attitude of irregularly folded stratified rocks. Geikie, Text-book of Geol.

contour, n.—Complex contour, in math., a contour consisting of several curves.—Simple contour, in math., a non-intersecting closed curve which is a contour, contour, v. II. intrans. To follow a level line on

an irregular slope; imitate the path of a contour-line.

The cliffs and beaches that contour around the slopes of the mountains of Utah, where the waves of Lake Bonne-ville once beat, in many ways resemble the elevated shore

contracoup (kon'tra-köp"), n. Same as *counter-coupé.

contract, n. 6. A contracted word; a contraction.—Certain contract, in law, a contract in which the thing to be done presumably rests upon the will of the party, or, when, in the ordinary course of events, it must happen in the manner agreed upon.—Contract job, a piece of work executed according to conditions (respecting quality of workmanship, time of delivery, price, etc.) determined by contract in advance of execution: contrasted with a piece of work executed in anticipation of sale, or production for the open market.—Contract of beneficence, in Louisiana law, a contract in which a benefit is secured to only one of the contracting parties, as a gratuitous loan.—Contract prices, prices determined, by contract, in advance of the production of goods: contrasted with market prices. The term is sometimes used to designate competitive prices, as distinguished from customary prices.—Contract surgeon.—See *surgeon.—Contract system, the system of obtaining public supplies, or the performance of public services, through direct public management or through direct purchase in the open market.—Dependent contract, s contract containing one or more dependent covenants. See dependent covenant, under covenant.—Gratuitous contract, a contract in which the object is to benefit the party with whom it is made without any consideration to the other party. Such a contract is not binding unless under seal.—Hazardons contract, in Louisiana law, a contract in which the performance of that which is the object, or one of the objects, of the contract, a contract in which the performance of that which is the object, or one of the objects, of the contract, a contract in which the things to be pendent contract, a contract in which the things to be pendent contract, a contract in which the things to be pendent contract, a contract in which the things to be pendent contract, a contract in which the things to be pendent contract, a contract in which the things to be contract, n. 6. A contracted word; a conformance of that which is the object, or one of the objects, of the contract depends upon an uncertain event.—Independent contract, a contract in which the things to be performed by the various parties have no relation to each other as equivalents or as mutual considerations.—Naked contract. Same as nude pact, which see, under nude.—Nude contract. Same as nude pact, which see, under nude.—Obligation of contract, the duty imposed by law upon a party to a contract.—Onerous contract, a contract in which the consideration is inadequate to that which is given or promised.—Separable or severable contract, a contract in which several considerations and corresponding obligations are so expressed as to render the contract susceptible of divisibility in such a way that each or one consideration may be enforced upon the performance of its corresponding obligation.

contracted, p. a. 5. In gram. and phonetics, shortened by combination or by omission of letters or sounds. See contract, v. t., 3, and

letters or sounds. See contract, v. t., 3, and contraction, 3.

contractile cells. See *cell.

contractile cells. See *cell.
contraction, n.—Anodal closure contraction, muscular contraction occurring at the anode when the circuit is closed.—Cathodal closure contraction, muscular contraction occurring at the cathode at the moment of closure of the circuit.—Cathodal duration contraction, muscular contraction courring at the cathode and continuing during the entire time of the passage of the current.—Clonic contraction, an intermittent muscular contraction alternating with intervals of relaxition.—Coefficient of contraction. See *coefficient.—Contraction volume, See *rotume.—Isometric contraction, the change in tension in a muscle whose extermitles are fixed, upon the application of a stimulus:

contraction

opposed to isotonic *contraction.—Isotonic contraction, the shortening of a muscle upon the application of a stimulus, with approximation of its extremities: opposed to isometric *contraction. Pflüger's law of contraction, the law that the stimulation of a nerve by an electric current is stronger at the occurrence of catelectronus than at the disappearance of anelectrotonus. It has been ascertained that a nerve is stimulated by an electric current at the moment that the current is made and at the moment that it is broken. As the current is closed, the stimulation occurs at the negative pole; as it is opened, it takes place at the positive pole.—Tetanic or tonic contraction. Same as tetanic spann, which see, under tetanic.—Volkmann's contraction praphytic flexion of the fingers, presumably caused by tight bandaging in cases of injury to the arm.

 ${\bf contraction\text{-}ring} \ ({\tt kgn\text{-}trak'shon\text{-}ring}), \ n. \ \ {\tt See}$ the following phrase.—Contraction-ring of Bandi, a circular constriction of the pregnant uterus, caused by unequal contraction of the nuscular segments, sometimes occurring in threatened rupture of that organ. contractment (ken-trakt'ment), n. Contraction; abridgment.

A very masterly production; . . . with judicious contractments, might be rendered an interesting Drama on the stage.

Athenæum, March 23, 1895, p. 379.

contracurrent (kon-trä-kur'ent), a. Noting optical systems in which conjugate focal lengths are of opposite signs, so that if a point moves from right to left its image will move from left to right, and if a point moves in the

contradeciduate (kon "trä - dē - sid ' ū - āt), a. placenta does not leave the uterus after birth, but is broken up and absorbed. This occurs in the mole and the bandicoot, the latter heing noteworthy as a marsupial having a small placenta. Parker and Haswell, Textbook of Zool., 11, 562.

contradiscriminate (kon"trä-dis-krim'i-nāt), v. t.; pret. and pp. contradiscriminated, ppr. contradiscriminating. To discriminate con-

Act, operation, energy, are contradiscriminated from power, faculty, capacity, disposition and habit.

Sir W. Hamilton, Metaphysics, Lecture X.

contragamba (kon-trä-gam'bä), n. In organ-per. Psychol., l. i. 17.
building, a stop giving tones an octave lower contrast-feeling (kon'trast-fe'ling), n. In than the usual gamba.
Wundt's psychol., a composite feeling, made contragamba (kon-trä-gam'bä), n. In organ-

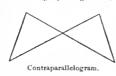
contraharmonically (kon "trä - här - mon 'i-kal-i), adv. In a contraharmonical way. contralation (kon-tra-la'shon), n. [contra-+

contralation (kon-tra-lā'shon), n. [contra-+ lation.] A lation which does not subsist between the members of every pair reciprocally. An essential contralation is a lation which must by logical necessity be a contralation; a potential contralation is a lation which is under no logical necessity of subsisting between the members of every pair in both orders. contrambilation (kon-tram-bi-lā'shon), n. [contra-+ ambi-+ lation.] A relation in which no individual of the universe of discourse stands to any other than itself; a concurse stimulus (kon-tri-stimulism (kon-tri-stimulism), n. [contra-stimulism] (kon-tri-stim'ū-lizm), n. [contra-stimulism] (kon-tri-stim-stim-stimulism) (kon-tri-stim-stimulism) (kon-tri-stim-stimulism) (kon-tri-stim-stimulism) (kon-tri-stim-stimulism) (kon-tri-stim-stimulism) (kon-tri-stim-stimulism) (kon-tri-stimulism) (kon-tri-stimulism) (kon-tri-stimulism) (kon-tri-stimulism) (kon-tri-stimulism) (kon-tri-stimulism) (kon-tri-stimulism) (kon-tri-s

currency

contranominal (kon-trä-nom'i-nal), a. [L. contra, against, + nomen, name: see nominal.]
In math., containing contrasted terms. If x is y, then non-y is non-z, and two such statements are called each the contranominal, or contranominal form, of the

contraparallelogram (kon"trä - par -a - lel'ogram), n. A plane quadrilateral having alternato sides equal but not parallel, two of them being erossed; the figure formed by the nonparallel sides and the



diagonals of an isosceles trapezoid. contraperlation (kon'tră-per-lā'shon), n. parison-prisms.

[contra- + pcr- + lation.] A relation in which contrast-stain (kon'trăst-stān), n. Same as some individual of the universe of its relate *counter-stain. does not stand to any individual of the uni- contratabulant (kon-trä-tab'ū-lant), n. verse of its correlate.

contrapone (kon-tra-pon'), v. t.; pret. and pp.

contraposaune (kon tra-pô-zou'ne), n. In organ-building, a stop giving tones an octave lower than the usual posaune or trombone.

contrapositive (ken-trä-poz'i-tiv), a. and n. **I.** a. Of, pertaining to, or produced by contraposition: as, contrapositive propositions; contrapositive conversion.

II. n. In logic, a contrapositive proposition.

contrapposto (kon-trap-pos'to), n. [It., pp. of contrapporre, l. contraponere, set opposite: Roman law, to make an affirmative defense; see contrapose.] In pictorial or seulptural composition, the crossing of limbs and concernation (kon"trä-vin-di-kā'shon), n.

trasting of masses which is especially pro- In Roman law, an affirmative defense; a counnounced in the works of Michelangelo.

In the figure of the soldan he gives a superb instance of almost Michel-angelesque contrapposto.

B. Berenson, in Burlington Mag., H1. 20.

 $\begin{array}{ll} \textbf{contrareperlation} & (\text{kon"tr\"{a}-r\~{e}"p\'{e}r-l\~{a}'shon}), \\ n. & [contra-+re-+per-+lation.] & \text{A relation whose converse is a contraperlation.} \end{array}$

tion whose converse is a contraperlation.

contrast, n. 5. In psychol. optics, the reciprocal induction of colors and brightnesses in the present field of regard. Contrast is essentially a matter of the present moment; under steady fixation the phenomena of contrast give place to those of adaptation. The chief laws of contrast are as follows: (a) Contrast always takes the direction of greatest qualitative difference—red-green, blue-yellow, black-white, etc. (b) The effect of contrast varies directly with the degree of saturation of the inducing color. (c) The nearer together the contrasting surfaces, the greater is the contrast-effect. (d) Color-contrast is maximal when brightness-contrast is absent. (e) The contrast-effect is enhanced by the elimination of boundary lines or contours.

6. In psychol., generally, any supposed intensi-

6. In psychol., generally, any supposed intensification or throwing into relief by juxtaposition with an opposite.

The third law, that of contrast, applies to the ethnic mind the curious fact in mental life that a prolonged devotion to one idea leads to a reaction in which the opposite of that idea becomes dominant.

Brinton, Basis of Social Relations, p. 43.

from left to right, and if a point moves in the direction in which the light travels its image Law of psychical contrasts, in Windt's psycholo, one of the three general psychological laws of relation. The subjective components of our immediate experience contradeciduate (kon 'trii -dē-sid 'ū-āt), a.

Noting that condition in which the fetal placenta does not leave the uterus after birth,

Marginal contrast, the contrast-effect produced at the apposed edges of two contiguous contrasting surfaces. See ★contrast, 5.

contrast-color (kon'trast-kul/or), n. due to contrast and not to the character of the

objective stimulus. E. B. Titchener, Exper. Psychol., I. i. 19.

contrast-disk (kon'trast-disk), n. A party-colored disk, which when mounted on the color-mixer shows the phenomena of brightness and color-mixer operator. ness and color-contrast. E. B. Titchener, Ex-

up of partial feelings of opposite character,

contra-stimulism (kon tra-stim ū-lizm), n. [contra-stimulus + -ism.] Medical practice based upon the doctrine of contra-stimulus.

contra-stimulist (kon "trä-stim 'ū-list), n. [contra-stimulus + -ist.] An adherent of the medical theory of contra-stimulus.

contra-stimulus (kon"trā-stim'ū-lus), n.; pl. contra-stimuli (-11). [L. contra, against, + stimulus, stimulus.] A force which tends to diminish vital action.—Doctrine of contra-stimulus, the doctrine of Rasori, that all vital processes depend upon stimulus, or exciting force, and contra-stimulus, or depressing force. When these two forces are in equilibrium the condition is that of health; when one or the other is in excess disease is present and is to be combated by either a stimulant or a contra-stimulant.

contrastment (kon-trast'ment), n. The aet of contrasting: contrasting.

contrast-plane (kon'trast-plan), n. In a photometer-screen, the plane between the com-

modern term, irreg. $\langle contratabul(ar) + -ant.1 \rangle$ contrapone (kon-tra-pōn'), v. t.; pret. and pp. contraponed, ppr. contraponing. To convert of a decedent contrary to his will or testament. by contraposition (which see). Bowen, contratabular (kon-trä-tab ŋ-lär), a. [A modern term, < L. contra, against, + tabula, a writing, a will: see tabular.] In civil law, contratabular (kon-tra-pō-zou'ne), n. In orof a will or testament.

contratempo (kon-trä-tem'pō), n. [It. con-trattempo = F. contretemps: see contretemps.] In music, same as syncapation. contravindicate (kon-trä-vin'di-kāt), v. i.;

pret. and pp. contravindicated, ppr. contravindicating. [LL. contravindicate, \lambda L. contra, against, + vindicate, claim: see vindicate.] In Roman law, to make an affirmative defense;

ter-claim.

contrectation, n. 2. In civil law, such handling and removing of goods as will amount to theft if they are not restored to their original place.

An abbreviation of the Latin concont. rem. tinnetur remedium, 'let the remedy be continued.'

not contrive. [Colloq-] control, n. 4. Whatever serves to control or

check; particularly, a standard of comparison by which, as in scientific investigation or experiment, inferences or results already obfained are checked.

Further study in physiological chemistry, experimental pathology, and allied studies must be undertaken to isolate the exact toxic agents, care always being exercised in maintaining normal controls and excluding the products of the disease from those causing it.

Med. Record, Feb. 14, 1903, p. 253.

5. A person or persons who control a business,

or act as a cheek on others concerned. A resident rival and control upon the Doge. Milman. 6. In spiritualism, the supposed spirit who is alleged to control or direct the action and

utterances of a medium. Everything known to the normal Mrs. T. must be considered equally known to the ostensible "control" speaking with Mrs. T.'s mouth.

Sir Oliver Lodge, in Proc. Soc. Psychical Research, [XVII. 65.

7. In racing with motor-cars or motor-cycles, the authorized persons along the route who observe and record the times of arrival and departure of the cars, maintain the time and rate schedule if there is any, and enforce the regulations of the contest.

II. a. Of the nature of or used as a control.

Since it is impossible to tell, without removing bits of Since it is impossible to tell, without removing bits of muscular tissue by a surgical operation, whether any mouse is infected spontaneously, even a severe infection being compatible for many mouths with a sleek appearance and the usual vivacity, control observations were made upon mice during the whole period of the investigation.

Jour. Exper. Med., Nov. 29, 1901, p. 9.

Control mice, which were not previously injected with this new Aronson serum, all died when injected with the same fatal dose of streptococcus bouillon.

Med. Record, March 7, 1903, p. 374.

Control test. See $\star test1$. Specifically -2. An officer who has certain duties to perform in examining the accounts and managing the financial affairs of a public or private corporation, or of a city, a public of private corporation, of of a city, state, or government. Two controllers are employed by the government of the United States—the controller of the Treasury and the controller of the currency; the latter administers the laws relating to the national banks. There is also an assistant controller of the Treasury. Some States and cities also have officers styled controllers, with similar duties. [In this sense often spelled comptroller, a false form (see the etymology).]

Should we have ministers of the church to be comptrollers of the myntes?

Latimer, Ploughers (Arb.).

My excellent friend Sir Byam Martin, Comptroller of the avy. Sir J. Ross, N. W. Pass., 11. 8.

4. In mech., a part of an apparatus or an adjunct which controls the motion or operation of the main part. Specifically, in *clect. engin.*, a compact arrangement of switches, contacts, electromagnets, and rheostats, manipulated by one or more handles of hand-wheels, by means of which one or more electric motors, connected by electric wires to the controller, are started or stopped, or their speed is controlled; as, an electric street-car *controller*; an electric turret-turning

5. In ship-huilding, a heavy iron block secured to the deck near a hawse-pipe, with a movable section so arranged that the chain cable passing over it is held or allowed to run out as the movable section is lowered or raised.—Master controller, in the multiple-unit system of electric-rail-way operation, a main controller, which operates the controllers in the individual units or cars from one point.

controlling-bit (kon-tro ' ling - bit), n. A bit consisting of a long piece of rawhide with loops at the ends for rein-rings. The mouthpiece is formed into a loop, the two ends running parallel and held together by small metal rings: the double portion of the loop is put into the horse's mouth, the single portion passing under the jaw. controlling-valve (kon-trô'ling-valv), n. Any valve for regulating pressure or speed, as with steam, air, or water, in motors or other maehinery.

controversialism (kon-tro-ver'shal-izm), n. A

controversial spirit, tendency, or habit, conular (kon'ū-lär), a. [conul(us) + -ar1.] Solution (kold design), it. [Constitution of the cone-shaped; having a tendency to assume the shape of a cone; in zoöl., said of the cusps or ridges of teeth. [Rare.]

The specimen, which belongs to M, latidens or a closely related species, exhibits an interesting stage in the passage of the molar teeth of the Proboscidea from the conduct type of the mastodous to that of the elephants, where the enamel is arranged in numerons transverse laminæ.

Science, April 8, 1904, p. 585.

conule (kon'ūl), n. [NL. conulus.] In sponges, same as *conulus.

conulus (kon'ū-lus), n.; pl. conuli (-li). [NL., dim. of L. conus, cone: sec cone.] In sponges, a tent-like elevation of the surface, produced by the vertical projection of the principal fibers of the skeletal system.

co-numerous (kō-nū'me-rus). a. [co-1 + numerous.] Co-extensive, or equal in number.

Organs or senses . . . co-numerous with the modes of

existence.
D. Masson, Recent Brit. Philos., p. 133. N. E. D.

conus, n. 3. A patch of atrophied choroid near the optic papilla in myopia. conv. An abbreviation (a) of convent; (b) of

convention. convalescence, n. 2. In Roman law, the estab-

lishment of a right or title by the retroactive effect of removing an original defect in its validity.

convallamaretin (kou "val-a-mar'e-tin), n. [convallamar(in) + Gr. $\rho\eta\tau i\nu\eta$, resin.] A crystalline compound, $C_{20}H_{36}O_{8}$ (?), formed, together with a sugar, by the hydrolysis of convaliamarin.

convallaretin (kon-va-lar'e-tin), n. $valla(ria) + Gr. \rho \eta \tau i \nu \eta$, resin.] A crystalline product, C₁₄H₂₆O₃, obtained by warming the glucoside convallarin contained in the lilyof-the-valley (Convallaria majalis) with dilute mineral acids.

Convallariaceæ (kon-va-lā-ri-ā'sē-ē), n. [NL. (Link, 1829), Convallaria + -accæ.] A family of monocotyledonous plants of the order taining of monocotyperdonous plants of the order Liliales, the lily-of-the-valley family, included by some botanists in the family Liliaeeæ. It includes about 23 genera, of which Convallaria is the type, and 215 species, scapose or leafy-stemmed herbs of temperate climates, and some showy or even fragrant flowers. See Convallaria, asparagus, Paris, and Trillium.

Transferred, as convected (kon-vek'ted), a. heat, by means of a convection current.

heat, by means of a convection current.

convection, n.—Compound atmospheric convection, the total transfer of heat from one part of the atmosphere to another by two distinct methods: (a) by currents of air or water carrying heat with them by virtue of their specific capacity for heat; (b) by liberation of the latent heat of evaporation which remains with the aqueous vapor contained in the air until it is liberated by condensation into cloud. In so far as the liberated heat remains in the cloud, it may be consumed in reevaporating the cloudy purticles or be lost by radiation; in so far as it is brought down to the earth with the rain or snow, it affects the local climate powerfully.—Electric convection, a term nsed for the conduction of electrolytes and of gases; motion accompanies the conduction in these cases. See *conductor, 9.

convectional (kon-vek'shon-al), a. [convection + -all.] Pertaining to or of the nature of convection; caused or formed by convection.

The pressure is comparatively uniform below the sun's surface, and widely discontinuous at the surface. Hence, the convectional currents and the dependent phenomenon of rotation in latitude are leisurely motions compared with the explosive action at the surface layers.

U. S. Monthly Weather Rev., Feb., 1904, p. 77.

Convectional circulation. See general *circulation of the atmosphere.—Convectional currents, vertical interchanges due to differences of temperature in any

liquid or gas. Convective resistance, resistance in a moving fluid due to changes in its motion and particularly to the formation of surfaces of discontinuity. In the atmosphere convective friction may be due to the mixing of warm and cold air or to the mixing of eddies produced by obstacles.

convenance (kon ve-nans', F. pron. kôn-ve-nons'), n.; pl. convenances (-nons'). [F.: see convenience.] 1. That which is becoming or proper; conventional propriety.

The duration of a glance Is the term of convenance.

Emerson, The Visit, 1. 24.

2. pl. The conventionalities of life.

This careless . . . widow is evidently but ill qualified to take charge of unsophisticated Gladys, with her utter Ignorance of London convenances and proprieties.

Spectator, April 9, 1881, p. 476.

Mariage de convenance [F.], a marriage based on considerations of family interests, such as birth, position, fortune, or the like, rather than on personal predilection.

convenience (kon-vē'niens), v. t.; pret. and pp. convenienced, ppr. conveniencing. To provide convenienced, ppr. conveniencing. To provide with facilities and accommodations which make for ease, comfort, effectiveness in action, movement, or the like; accommodate.

conventicular (kon-ven-tik' ū-lar), a. [L. conventiculan, assembly, +-ar³.] 1. Of the nature of a conventicle: as conventicular meetings .- 2. Characteristic of conventicles or of those who attend them

You can, by an infallible diagnosis, detect the conven-cular Gothic. Saturday Rev., Aug. 27, 1864, p. 271. ticular Gothic.

convention, n. 8. In the fine arts, a generalization of nature which expresses certain phases of the actual and suppresses others, according to custom or tradition.

A gorgeons convention has been substituted for any attempt to render the literal tints of nature.

W. Armstrong, Portfolio, N. S., XIV. 78.

9. In card-playing, a play adopted for convenience: as, in bridge, leading a heart when the pone doubles a no-trumper, or scoring

spades without playing when the make is not doubled and the score is not 20 or better.

conventional, a. 7. In card-playing, noting any method of conveying information which is not based on the principles of the game, such as the trump signal, the American leads, etc. Conventional heir, one who succeeds to an inheritance by reason of a contract (for example, a marriage contract) to that effect.

3. In anthrop., the tenconventionalism, n. dency of human activities to lose their significance in the course of the development of culture, and to become conventional. - 4. In the fine arts, the tendency of realistic representations of animals, plants, and other natural forms to become more conventional; in the course of the development of decorative art, the tendency of realistic motives to change into geometrical forms.

conventionism (kon-ven'shon-izm), n. [conrention + -ism.] Mere conventional custom; conventionalism.

The researches conducted in the Bureau have already rendered it clear that decoration, as indeed the greater portion of the fine arts, arises in symbolism and develops through conventionism; and the researches of the year suggest a related genesis for industries.

An. Rep. Bur. Amer. Ethnol., 1898-99, p. xiv.

conventionist, n. 2. A member of a convention.

conventionize (kon-ven'shon-iz), v. t.; pret. and pp. conventionized, ppr. conventionizing. [convention + -ize.] Same as conventionalize. J. W. Powell, An. Rep. Bur. Amer. Ethnol., 1897-98, p. xx.

converge, v. i. 2. In *biol.*, to exhibit resemblances which are not inherited from a common ancestor.

convergence, n. 3. In biol., the manifestation of a tendency, among allied or diverse groups of organisms, to assume series of modifications by the same methods or along parallel lines, and with somewhat similar results. Thus, through successive rock strata representing periods of time, species originally dissimilar evolve in such a manner that the derived forms of each series resemble each other much more than do the ancestral forms. The term is also applied to a like developmental process in a single organ or group of organs. Convergence is the process of which homogeneously is the result. morphy is the result.

morphy is the result.

If two species, belonging to two distinct though allied genera, had both produced a large number of new and divergent forms, it is conceivable that these might approach each other so closely that they would all have to classed under the same genus; and thus that the descendants of two distinct genera would converge into one. But it would in most cases be extremely rash to attribute to convergence a close and general similarity of structure in the modified descendants of widely distinct forms.

Darwin, Origin of Species, iv.*

Absolute.convergence.of a series.

Darwin, Origin of Species, iv.

Absolute convergence, the convergence of a series which would still converge if for every term were substituted the modulus of that term. It is a theorem that absolute convergence is the same as unconditional convergence. Non-absolute convergence is called semiconvergence.—Convergence frequency, in a spectrum series of lines (see *series), the limiting frequency or wave-number (the reciprocal of the wave-length) toward which the higher members of the series asymptotically converge, crowding more and more closely together as they approach it. It is the value of N₀ in the formula which expresses the law of the series, namely, N = N₀ — A B₁₀, in which N is the wave-number or frequency of any line in the series, A and B are coefficients determined

 m^2 m^4 any line in the series, A and B are coefficients determined by observation, and m is an integer -1 for the first line of the series, 2 for the second, and so on. A. M. Clerke, Problems in Astrophysics, p. 53. **Convergent**, a. 2. In biol., illustrative of or due to convergence; similar in structure but

different in origin (polyphyletic).

[1t] seems probable that the three orders of Ratitæ arose independently from primitive Carinatæ, and that the entire division is to be looked upon as a convergent or polyphyletic group, owing its distinctive characters, not to descent from a common ancestor, but to the independent acquisition of similar characters under the influence of like surroundings. Parker and Haswell, Zoology, II. 416.

Convergent analogy, ladybird, lens. See **analogy, **ladybird, **lens.**—Convergent squint. Same as convergent strabismus.

converging, p. a. 2. Capable of causing convergence: as, a converging lens.—Converging associations, associations which cooperate in tending to revive in consciousness the same idea.

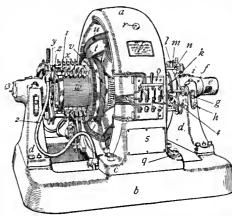
conversion, n. 10. Substitution of or exchange for something else, especially of one kind of

property for another; specifically, the change of an issue of public securities, of bonds, debentures, stocks, shares, etc., into another of different character or with an altered (generally reduced) rate of interest. Also attributively: as, conversion scheme, conversion operation, etc. N. E. D .- 11. In ship-building, the selection, laying out, and working of plank and timber so as to have the least possible waste.—12. In forestry, a change from one system of forest management to another, as from the sprout system to the seed system. -13. In steel manuf., the process of changing iron into steel, especially by the cementation process. See cementation.—Constructive conversion, in law, such an act, in reference to the personal property of another, as will be deemed in law to constitute an appropriation of the property although there may be no actual taking.—Direct conversion, in law, the actual wrongful taking of the personal property of another and appropriation of the same to the taker's use.

convert, v. t. 9. In ship-building: (a) To work

up, as rough plank or timber, into the shape required for use on a vessel. (b) To alter so required for use on a vessel. as to change the type to which a vessel belongs: as, to convert a steamer into a sailingship.—Converted gun. See *gun!. converter, n. 3. In elect., an apparatus for changing electric power into a different form

by mechanical motion. The synchronous converter or rotary converter changes alternating (single-phase or polyphase) currents into direct currents; the inverted converter changes direct currents into alternating currents; the frequency-converter changes alternating currents into alternating currents into alternating currents into alternating currents into alternating currents of different frequency;



Rotary Converter.

a, field-frame; b, base; c, foot; d, pillow-blocks; c, speed-limiting device; f, bearing; g, oil-gage; h, pet-cock; i, oil-cup cover; k, collector-ring; l, alternating-current brush-holder tycke; m, insulator: n, alternating-current brush-holder stud; a, field break-up switch; p, name-plate; q, holding-down bolts; r, pole-piece boit; s, field break-up switch-leads; t, shunt field-winding; w, series field-winding; v, armature; w, commutator; x, direct-current brush-holder stud; z, armature-lead; J, eod-play device; d, alternating-current brush; 5, hand-hole cover.

the phase-converter changes alternating, usually single-phase, currents into alternating currents of a different number of phases; the direct-current converter changes direct into direct currents. The most common type is the synchronous converter, commonly called converter or rotary converter, which is used for changing the transmitted polyphase alternating current into direct current for use on electric railways, for lighting, etc.—Holley's modification of the Bessemer converter, an improvement of the Bessemer converter introduced by A. L. Holley, which consisted in a removable bottom which greatly increased the rapidity of working, as many as 100 blows being thus obtained in 24 hours in one converter. Holley's invention also made it possible to renew the lining of the bottom, which wears out in about 20 blows, without changing that of the body of the converter, which lasts for many thousand blows.

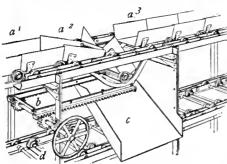
lasts for many thousand blows.

Convertible anastigmat, lens. See *anastigmat, *lens. - Kater's convertible pendulum. See *pendulum.

converting-pot (kon-ver'ting-pot), n. A chest or trongh of fire-brick or fire-stone into which bar-iron is put for cementation.

convex, a. 3. In geom., having no reëntrant angle.—Convex polyhedron, one which has no summits on different sides of the plane of a face.

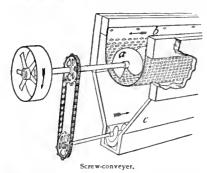
4. In transportation, a general conveyer, n. term applied to a variety of machines used in moving coal, grain, and other materials in bulk over short distances, in a horizontal bulk over short distances, in a horizontal direction or up and down moderate inclines. Conveyers are named from the material transported (as box, coal, hide, paper, or log-conveyer) and also from the method of operation. An apron-conveyer consists of endless chains npon which wood or metal slats are placed close together, forming a continuous traveling platform. It is closely allied to the *carrier (which see). A belt-conveyer employs a broad endless belt of leather, rubber, or similar fabrie, running over stationary rollers placed at equal distances apart. When in operation a stream of light material, such as grain, can be fed to the belt and be transported at high speed in large quantities. If the feed corresponds to the speed of the belt, the material can be handled without loss, since the slight vibration of the belt, when in motion, causes the load to gather at the center where it rests during transit or until the belt changes its direction by turning over a horizontal roller at the point of delivery. Two types of idle rollers are nsed with belt-conveyers to support the helt. For very light materials a horizontal roller is used; for coal, wet sand, broken stone, and heavy materials the rollers are disposed in sets of three, one small horizontal roller in the middle and two others, each inclined toward the center to give the belt a dishing or trough-like surface for the purpose of concentrating the load in the middle of the belt and thus preventing loss over the sides. Belt-conveyers are in general use in all industrial and engineering plants where large quantities of heavy ores, coal, ashes, etc., must be moved over distances of a thousand feet, more or less, and up moderate inclines. For direct fifts, short belts, each at a slight incline, stranged in series, one feeding into the next, are often used. To pass at a right angle two belts are used, one delivering to the other at a slightly lower level. A bucket-conveyer is one direction or up and down moderate inclines. series, one feeding into the next, are often used. To pass at a right angle two belts are used, one delivering to the other at a slightly lower level. A bucket-conveyer is one having V-shaped buckets fixed and sometimes pivoted to a pair of chains. As a flight-conveyer, it can be operated in a horizontal direction hy using the buckets as flights to drag the msterial to be removed along a trough. The same buckets can also be used to pick up and lift the material in a vertical direction. When used in both directions the machine is a combined conveyer and clevalors. An enderstream conveyer is one in which chains tor. An endless-trough conveyer is one in which chains



Endless-trough Conveyer with Dumper,

a, buckets forming continuous trough, traveling on two pairs of flanged wheels on different tracks; a1, loaded; a2, entering dumper, forward wheels follow loop track, rear wheels on straight track; a3, empty troughs; b, dumper; c, chute; d, hand-wheel controlling dumper.

carry a sheet-metal trough open at each end. The buckets fit one into another and form a continuous trough, used to convey spikes, boits, castings, etc. A flight-consequer consists of a trough, of square or semicircular section, through which scrapers, called flights, supported by traveling chains, drag the loose material. (See cut under monobar *chain.) In some forms the boxes, barrels, or other packages of goods are pushed along a smooth wooden platform by means of lugs or low flights attached to conveyer-chains. A rotary conveyer is a cylindrical conveyer of the screw type mounted on wheels and made to turn upon its axis. It is used to dry and nix the material which is being transported through it. A screw-conveyer



a, screw-conveyer; b, perforated trough for screening material to transit; c, trough for screw-conveyer transporting screenings from b. Arrows show direction of travel.

employs a trough of a cylindrical section, fitted with a helicoidal screw, which is supported by a shafting in the trough. The screw fits the trough so closely that in turning it forces the material along the trough in the direction of the thrust of the screw. The troughs used in screw-conveyers are sometimes made of perforated metal which serves as a screen in cleaning the material from dust, lint, etc.—Holst-conveyer, a cableway or wire-rope tramway

in which the load to be conveyed can be hoisted from the in which the load to be conveyed can be hoisted from the ground to the transway; a lifting wireway; used in sewer and subway construction. Not properly a conveyer, though often so called.—Push-plate conveyer, a device for transporting loose material, such as coal, crushed stone, or sand, for short distances. It consists of an endless chain, to which plates are fastened at regular intervals, and a wooden or metal trough in which the material slides. The plates stand at right angles to the chain and push the material along as the chain is pulled. See flight-conveyer, above. flight-conveyer, above.

 $\begin{array}{ll} \textbf{convicine} & \text{(kon'vi-sin), } n. & \text{[} con\text{-} + Vicia + \\ -ine^2.\text{]} & \text{A crystalline alkaloid, C}_{10}\text{H}_{15}\text{O}_8\text{N}_3 + \\ \end{array}$ H₂O, found in the seeds of vetch, Vicia sativa. convictional (kon-vik'shon-al), a. [conviction + -al1.] Relating to conviction, settled belief, or opinion.

convincing (kon-vin'sing), p. a. Of a nature to convince or persuade; such as to convince or impress seriously or to win one's sympathy or assent; in art criticism, exhibiting com-

of assent, in are createsm, exhibiting completeness and propriety.

Convocation week, the week in which the first day of January falls. This week has been recently set aside by some American societies and universities, on the initiative of the American Association for the Advancement of Science, for the holding of meetings of scientific and other learned societies.

Convoluted tubule. See *tubule.

convolution, n.—Central convolutions, the convolutions which border on the central sulcus.—Wernicke's convolution, the first temporosphenoid convolution of the brain.

convolutional (kon-vö-lu'shon-al), a. Relating to or like a convolution.

convolutionary (kon-vo-lu'shon-a-ri), a. Of or relating to a convolution or convolutions, particularly to the convolutions of the brain.

Many of these are so excellently preserved that every detail of the convolutionary pattern can be recognised, and by transferring it to the surface of the cranial cast an accurate model showing exactly the size, shape, and arrangement of the sulci with perfect accuracy can be obtained.

Nature, Nov. 5, 1903, p. 8.

convolvulinol (kon-vol'vñ-lin-ôl"), n. [convolvulin + -ol.] A crystalline substance said to have been obtained by the hydrolysis of convolvuling. Later characteristics volvulin. Later observers have failed to

convolvulonolic (kon-vol "vū-lon-ol'ik), a. [convolvulinol + -ic.] Derived from convolvuconvolvation + -tc.] Derived from convolvation.—Convolvationality acid, an acid, C₁₅ll₃₀O₃, obtained by the hydrolysis of convolvatinic acid with dilute sulphuric acid. It is monobasic and melts at 51.5°C. Convolvation moth, a European and African sphingid moth, Phiegethontius convolvation, whose larva feeds on the foliage of plants of the family Convolvationers.

convulsant (kon-vul'sant), a. and n. [con-vulse + -ant.] I. a. Causing muscular spasms. II. n. An agent which causes muscular spasms.

convulsibility (kon-vul-si-bil'i-ti), n. dency to convulsion or the capability of being convulsed. Buck, Med. Handbook, 111. 275.

convulsion, n.—External convulsion, spasmodic contraction of the voluntary muscles.—Internal convulsion. (a) Spasmodic contraction of the involuntary muscles. (b) Same as laryngismus stridulus.

convulsion-root (kon-vul'shon-rot), n. Indian-pipe, Monotropa uniflora. See Monotropa (cut). Also called convulsion-weed.

cony, n. 8. The West Indian agonti, Dasy-procta cristata, so called by the early English colonists from its fancicd resemblance to a rabbit.

There are no quadrupeds, natives of Dominics, except the Indian Coney, which is nearly the size of a rabbit. $T.\ Alvord$, Hist. of Island of Dominica, p. 45.

9. The name of several West Indian serranoid fishes: (a) The guativere, Cephalopholis ful-rus. (b) Cephalopholis cruentatus, a brown fish with many spots, called in Spanish enjambre.

conylene (kon'i-lên), n. [con(ine) + -yl + -cne.]
A hydrocarbon, C₈H₁₄, formed by distilling trimethylconine. It is an oil which boils at

conyrine (kou'i-rin), n. [con(ine) + -yr (varied from -yl) + $-ine^2$.] An oily base, C_5H_4 N. C_3H_7 , which boils at 172° C, and is obtained by heating conine with zinc chlorid.

coobah (kö'bä), n. [Aboriginal Australian.] In Australia, a small tree, Acacia salicina. It ylelds an excellent tan-bark and its wood is close-grained, heavy, dark brown, and nicely marked. The aboriginals make boomerangs and the colonists furniture from it. Also called natire willow.

coöbligant (kō-ob'li-gant), n. One who binds or has bound himself with another or others in regard to some matter; one who is under some obligation jointly with another or others. coöbligor (kō-ob'li-gôr), n. One of parties bound by the same obligation. One of several cook1, v. t. 5. In tobacco-manuf., to overheat (tobacco) in the process of sweating in bulk, depriving it of the power of heating up again. This happens when the temperature is kept long at 65° F. or raised still higher.

The oxidase and catalase are now killed. Such tobacco is called *cooked*. U. S. Dept. Agr., Rep. No. 65 (1900), p. 46.

cook¹, n. 2. Same as *cook-fish.

cook-camp (kuk'kamp), n. The building used as kitchen and dining-room in a logging-camp. [U. S.]

cooker, n. 2. Specifically, a receptacle in which cooker, n. 2. Specifically, a receptacle in which food may be cooked by steam. A common form is that of a sheet-metal vessel resembling the portable oven of a gas-stove, fitted with shelves for the various foods to be steamed. Water is placed in a tank below, and, on placing the cooker on the stove, steam is formed which fills the entire vessel and cooks the food. A portion of the steam escapes into a condenser, and the resulting hot water returns by gravity to the tank. In other forms steam from some outside source is led by pipes through the cooker, causing the water inside to heat and cook the food. Another cooker consists of a double plate, the space between the plates being filled with steam: the oyster-cooker used in restaurants is an example of this type. Steam soup-kettles and steam-kettles used in canneries and in cooking food for cattle are steam cookers.

cook-fish (kuk'fish), n. A labroid fish, Labrus bimaculatus.

cook-house, n. 2. A building or room, whether detached from a honse or attached to it, in

which cooking is earried on. **cook-shop** (kük'shop), *n*. A shop where food is cooked and sold.

At noon I, with my wife and Mercer, to Philpot Lane, a great cookshop, to the wedding of Mr. Longracke, our purveyor.

*Pepys, Diary, Aug. 28, 1666. cool¹, v. t. 5. In painting, to strengthen

(colors) on the blue and violet side of the spectrum, or to reduce (reds and yellows).

coolamin (kö'la-min), n. [Australian.] A drinking-cup made of a hollow gum-tree knot. coold, pp. A simplified spelling of cooled. cool-drawn (köl'dran), a. Same as cold-drawn

(which see).

cooler, n. 2. (b) In motor-car construction, the apparatus used to lower the temperature cooler, n. of the circulating water which keeps the cylinder walls of the internal-combustion motor der walls of the internal-combustion motor from overheating. It is an air-surface condenser, with air circulating around the exterior surface of tubes containing the water; or the water may be on the outside surface and the air pass through the bores. In the first type, radiating and contact surface are increased by spines or colls projecting from the tube-surface; for the second, the cooler is often made with hexagonal tubes so as to get the greatest number in a given space. Such coolers or radiators are called honey-comb coolers. The water can usually be kept at about 180° F., but when the car moves very slowly the water may be forced to the boiling-point.

4. A heavy square horse-blanket of sufficient size to envelop the horse's body.-5. A cooling drink.—Remsen cooler, a compound of Old Tom gin, lemon-peel, club soda, and cracked ice.—Renwick cooler, same as Remsen *cooler, except that ginger-sle takes the place of soda.

coolgardite (köl'gär-dīt), n. [Coolgardic (see def.) + -ite².] A supposed gold telluride from the Coolgardie gold-field in Western Australia:

probably only a mixture of known species. coolibah (kö'li-bä), n. [Also coolibar: aboriginal Australian name.] In western Queensland, a tree, Eucalyptus microtheca, the wood of which is reddish brown, remarkably hard, heavy and elastic, and useful in building. Also called goborro, and by the colonists bastard, black, or flooded box.

cooliman (kö'li-man), n. [Also coolaman, coolamin, coolieman, koolaman; aboriginal Australian.]

tralian.] A small trough of wood or bark used for carrying food or water.

The "gins" and "picaninnies" go carefully over the ground with a pointed stick in one hand and a wooden "cooliman". . . in the other, gathering up any lizard, snake, or grub which has perished in the flames.

Geog. Jour. (R. G. S.), XI. 262.

cooling-bridle (kö'ling -brī dl), n. A bridle consisting of a single strap, with backles and chapes on the ends by which the bit is attached. It has no brow-band or throat-latch.

cooling-cell (kö'ling-sel), n. In photog., a cell with parallel glass sides, which contains water or a solution of alum and is placed in front of a lantern to shield plates used in projection from the action of heat.

cooling-drum (kö' ling-drum), n. 1. An enlarged section of a pipe used to increase the area for the radiation of heat .- 2. A drum or cylinder containing a refrigerating-coil; a condenser

cooling-pond (kö'ling-pond), n. A pond the water of which, having been used for condens-

or a surface-condenser, is exposed to the air and cooled so as to be used again.

cooling-stack (kö'ling-stak), n. Same as *cool-

ong-concer.

cooling-stove (kö'ling-stōv), n. An apparatus for lowering the temperature of the air of a room in hot weather. A mixture of broken ice and salt is placed in a sheet-metal vessel, and the air of the room passes downward through flues in contact with the freezing-mixture, and so out into the room. Sci. Amer., May 16, 1903, p. 372.

of an institution, as distinct from representative governors.

coopted (kō-op*ted), p. a. Chosen by eoöptation.

It may be remarked that of 271 schemes approved by the Board of Education, some two-thirds provide for such coopted members with expert knowledge.

Nature. Feb. 11, 1904, p. 344

cooling-surface (kö'ling-ser"fās), n. 1. A surface on which steam is condensed.—2. Any surface which is cool enough to abstract heat from the substance on one side of it, as in the eoils which circulate brine in cold-storago

rooms or in ice-making plants. cooling-table (kö'ling-ta"bl), n. A place where rolled sections of metal are placed as they come from the rolls to allow them to cool and

harden before being straightened and finished. cooling-tower (kö'ling-tou"er), n. A device for cooling the water used in a steam-confor cooling the water used in a steam-condenser or refrigerating-plant. It consists of a series of drip-pans placed one above the other in a water-tight tower, in combination with an air-blast. The hot water from the condenser is pumped into the uppermost pan, and falls from it in a shower to the next pan, and from this to the next, and so on until it reaches the reservoir below. A fan deliversa large volume of air undermoderate pressure to the tower near its base, the air rising through the falling water and escaping through blinds at the top of the tower. The water passing through the tower is cooled from 15° to 30°, and can then be again used in the condenser.

coolooly (kö-lö'li), n. In Algiers, a person of mixed blood.

2. The borage, Borago officool-tankard, n. 2. The borage, Borago offi-cinalis, used in preparing the beverage so named.

coolth (költh), n. [cool + -th.] 1. Coolness: the opposite of warmth. [Now ehiefly dialee-

My father and Mrs. Thrale seated themselves out of oors . . for coolth and chat.

Mme. d'Arbloy, Diary, I. 379.

2. A cold in the head. [Prov. Eng.] \mathbf{coom}^3 (köm), n. [Dial. form of $eulm^1$.] The wooden frame used in building the arch of a bridge. [Scotch.]

combe-rock (köm'rok). n. [coombe = comb copa de oro (kō'pā dā ō'rō). [Sp., 'eup of + rock'1.] A term which has been applied in Sussex, England, to unstratified loose Pleistocene materials which have been regarded as due to the action of heavy rains while the copaibic (kō-pā'bik), a. Same as copairic.

coom-ceiled (köm'sēld), p. o. Having an

[Seoteh.] coomed (kö'mi), a. Arch-shaped. [Seoteh.] coomy (kö'mi), a. [eoom1 + -y1.] 1. Full of eoom or dust: as, very coomy coal.—2. Becoom or dust: as, very coomy coal.—2. Begrimed with eoal-dust and soot: as, coomy hands and face. [Seoteh in both senses.] coon, n. 4. A negro. [U.S. slang.]—To go the whole coon, to go the whole hog. [Slang.]—To hunt the same old coon, to keep on doing the same thing. [Colloq.]

cooncan (kön-kan'). n. See *conquien. coon-cat (kön'kat), n. A name in New England of a large, long-haired variety of the domesticated eat, with ringed tail, whose pelage suggests that of a racoon.

coon-dog (kön'dog), n. A dog trained to follow

and tree racoons.

coonery (kö'ner-i), n. [Coon + -ery.] The aims and methods of the 'Coons' of the old Whigparty in the United States. See coon, n.. 2. coon-root (kön' röt), n.
guinaria Canadensis. The bloodroot, San-

coon-song (kön'sông), n. A popular song, such as is common among the negroes in the southern United States: so called because originally associated with coon-hunting. [Colloq.]

cooperancy (ko-op'e-ran-si), n. [cooperan(t) + -cy.] Cooperant relation or state.

This conception of a reign of law, amid which and under This conception of a reign of law, and which and under which we live, affects the emotions in various ways: at times it may cause despondency, but we shall more and more find occasion for joy and triumph in the co-operancy of the energies of himanity with those of their giant kindred, light, and motion, and heat, and electricity, and when the effectivity. chemical affinity

Edward Dowden, Studies in Literature, p. 99.

coöperation, n. 3. In psychol., the process by which a mental group, in the exercise of its apperceptive function, prompts other groups to a entirely satisfactory. similar activity. G. F. Stout, Anal. Psychol., cope¹, v. t. 3. To muzzle, as a ferret, by sew-II. 128.

ing purposes in a steam-engine either in a jet Cooper's lemming-mouse. See *lemmingmouse

coöptative (ko-op'ta-tiv), a. [cooptate + -ive.] Chosen by cooptation: as, cooptative governors of an institution, as distinct from representa-

coorash (kö-räsh'), n. [Ar. kurāsh, seratehing, < karasha, drive away, hurry, serateh.] A pruritie skin disease accompanied by a pustular eruption: common in parts of Africa.

coördinate. I. a.—Coördinate paper. See *paper. coördinate. I. a.—Coördinate paper. See *paper. II. n.—External coördinate, in statistical mech., a coördinate of a body external to a given system but upon which, in part, the potential energy of the system depends.—Positional coördinate, a coördinate which serves to define or locate a point or system.—Projective coördinates. From von Standt's quadrilateral construction (see *quadrilateral) is obtained a purely descriptive, projective, non-metrical definition of cross-ratio; and, given a pair of points, it is possible to obtain, without the nse only ratio or measurement, the harmonic conjugate to any third point of the same straight line. Starting with any 3 points on a straight line, assign to them arbitrarily the numbers 0, 1, \(\pi\); then find the harmonic conjugate to the first with respect to 1, \(\pi\), and assign to it the number 2; then find the harmonic conjugate to the point 1 with respect to 2, \(\pi\), and assign to it the number 3; and so on. By introducing such a numerical system on 2 straight lines, or on 3, the projective coördinates of any point in a plane or on 3, the projective coordinates of any point in a plane or in space are obtained.

coorongite (kö'rong-īt), n. [Coorong (see def.) + -itc².] A mineral substance resembling india-rubber: found in the Coorong district of South Australia. Groves and Thorp, Chem. Technol, II. 129.

 $\begin{tabular}{ll} {\bf co\"{o}rthotomic} & (k\rlap{\Bar{o}}-\^{o}r-th\rlap{\Bar{o}}-tom'ik), & a. \end{tabular}$ orthotomic.] In math., erossing at right angles at every intersection: said of a set of curves.

coot, n. 1. The name is variously applied in different localities to rails, gallinules, and ducks. Thus the hyacinthine gallinule, Porphyrio hyacinthus, is known as the purple coot; the scoter Edemia perspicillata, as the surf-coot; and another scoter, O. Americana, as the whistling coot.

cop1, n. 11. In golf, the face of a bunker. Cop. An abbreviation (a) of Copernican; (b) of Coptic; (c) [l. c.] of copper.

as due to the action of neavy rains winter the ground below the surface was permanently frozen.

coom-ceiled (köm'sēld), p. a. Having an arched or sloping eeiling, as an attic or garret. [Seoteh.]

coomed (kömd), a. Arch-shaped. [Seoteh.]

See Bursera and copal.

copalcocote (kō-pāl-kō-kō'tā), n. [Mex. co-pālcocote, ⟨ Aztee copalxocotl, ⟨ copalli, gum or resin, + xocotl, fruit.] Cyrtocarpa procera, a small Mexican tree belonging to the sumae family, with odd-pinnate leaves having entire leaflets. It bears a yellow, acid, plum-like fruit, called cirucla by the Spaniards, with a resinous mesocarp and a stony endocarp, which is used medicinally.

copaliferous (kō-pa-lif'e-rus), a. [E. eopal + L.-fer, < ferre, bear.] Producing eopal: as, copaliferous sand.

copalillo (kō-pā-lēl'yō), n. [Sp. copalillo, dim. of copal, which see.] Exothea Copalillo, a Mexican tree belonging to the Sapindacæ, having upright branches, abruptly pinnate leaves with usually two pairs of entire leaflets, and berry-like fruit.

copalite ($k\bar{o}'$ pal- $\bar{i}t$), n. [copal + -ile2.] Same as conalin.

Copalm balm. Same as eopalm balsam (which

see, under balsam).

copang (kō'pang). n. [Also cupang, coupang, kupang, < Malay kūpang, a copper coin, = Jav. kobang = Jap. koban: see coban.] A Malayan copper coin.

copatentee (kō-pat-en-tē'), n. [co-1 + patentee.] One who holds a patent jointly with another or others.

cop-dyeing (kop'di"ing), n. The process of dyeing yarn upon the cop, in order to save the expense of reeling it into skeins and rewinding it upon bobbins. Many machines have been devised for this purpose but none has been

ing or tying up its mouth .- To cope off, to lift or

draw that part of a pattern which is embedded in the top box or cope of a foundry-flask. The cope is lifted off and turned over for this purpose. cope-head (kop'hed), n. In wood-working, an

attachment to a tenoning-machine for forming a coping on the tenon. See tenoning-machine. copellidine (kō-pel'i-din), n. Hexahydroeolli-dine, or 2-methyl-5-ethyl piperidine, C₅H₁₁N. CH₃.C₂H₅, a basic oil which boils at 162° C. and has a disagreeable ammoniacal odor.

coper¹ (kō' per), n. [Also cooper; < D. and Flem. kooper, buyer, trader, < koopen, buy, trade: see cope², v.] A kind of floating grogshop, stoeked with indifferent liquors, tobaeco, etc., which accompanies or plies its trade among the North Sea fishing-fleets.

cope-ring (köp'ring), n. A metal ring with trunnions, used to carry the sand and loam which form the cope of a loam-mold.

coperiodic (kō-pē-ri-od'ik), a. [co-1 + peri-odic.] Synchronous as to period; undergoing periodic fluctuations or changes in equal intervals of time.

Copernicanism (kō-per'ni-kan-izm), astronomical theory of Copernicus; that is, the doetrine that the earth and all the planets (except the moon and telescopic satellites diseovered since the enunciation of the doctrine) eovered since the enumeration of the doctrine) revolve round the sun. Originally no definite meaning could be attached to this statement unless one regarded vacuous space as a real substance, an opinion which is now out of vogue; but the dynamics of rotation supplies a meaning which is true and which does not (at least, explicitly) suppose space to be a thing.

coperta (kō-per'tā), n. [It. coperta, a cover: see covert.] In ceram., the final film of glaze put on the later Italian majolica-painting which acted like a varnish and increased the

which acted like a varnish and increased the brilliance of the colors. This practice was not followed in France. M. L. Solou, French Faïence, Glossary.

cop-frame (kop'fram), n. A machine for wind-

ing yarn on a cop. cophasal (kō-fā'zal), σ . [$e\sigma^{-1} + phasal$.] Be-

copigue (kō-pē'gwā), n. [Also copikue; a native name in Chile.] Lapageria rosca, a half-woody elimber, belonging to the lily family, with beautiful rose-colored or erimson flowers and sweet edible berries the size of a hen's

egg. [Chile.] coping-brick (kō'ping-brik), n. A brick east to a shape fitting it to form part of a coping, as with a single or a double slope on its up-

copinol (kō-pē-nōl'), n. [Central Amer.] Same as *quapinol

copivi (kō-pē'vē), n. Same as copaiba. coplaintiff (kō-plān'tif), n. [co-1 + plaintiff.] One of several parties plaintiff in the same ac-

[coplanar + coplanarity (kō-plā-nar'i-ti), n. -ity.] The quality of being coplanar or of lying in the same plane.

The divergence from coplanarity as a rule has small mportance.

Biometrika, Aug., 1902, p. 413. importance.

copopod (kõ'pō-pod), a. and n. Same as co-

copper¹. I. n. 8. The plate of copper which contains or is intended to contain on its sureontains or is intended to contain on its surface the engraved or etched design prepared for printing.—Aceto-arsentte of copper. Same as Paris green.—American copper, Heodes hypophlæas, a butterfly of the family Lycænidæ, common in the Atlantic United States where in the larval state it feeds on sortel.—Ammonionitrate of copper, a substance, ANII3.cN(N2)2, which has been proposed for use as an explosive agent, to be granulated and fired by a detonator.—Bronze copper, an American butterfly, Chrysophanus that, of the family Lycænidæ, the male of which has wings of a coppery brown spotted with black, the female's wings being orange-red with black spots. It is of wide distribution, and the larva feeds on curled dock, knotweed, and prickly ash.—Copper arsentte, a substance occurring in various green powders (as Paris green, emerald-green, Schweinfurt green, etc.) used as pigments and as insecticides.—Copper harilla. Same as *barilla, 2.—Copper hat he colie. See *bath, *colie.—Copper glass. Same as Alexandria blue (which see, under blue)—Copper—mixture of Gironde, the original name for Bordeaux mixture used in spraying plants as a fungicide.—Copper-pitch ore, a not uncommon silicious ore of copper occurring in massive form with a dark-brown or black color and usually a dull, pitchy luster. It often contains besides copper other metallic oxids, as of iron, zine, manganese, etc., and has been regarded as an impure chrysocolla; this, however, is not generally true, and in some cases it seems to be a definite compound. See *melanochalcite. Copper rock, ore containing nastive copper. [Lake Superior.]—Copper silicide. Same as *silicon-copper.—Copper sucrate, a fungicide solution used in spraying fruit-trees and other plants made with 4 pounds of crystallized sulphate of copper, 5 pounds of line, 2 pounds of molasses, and 4 gallons of water.—Manhès copper process, the process of refining copper matte in a Bessener converter face the engraved or etched design prepared

with twyers in the side of the vessel and above the level of the molten metal. The advantage of the Manhès converter lies in the fact that it protects the pure copper at the bottom from the blast and that it prevents the setting metal from closing the twyers. It is now replaced by newer designs.—Moss copper, metallic copper in fine filaments resembling moss which sometimes exudes from copper matte during the contraction of the latter in one of the stages of copper-smelting by the Swansea process.—Phosphide of copper, siliclum copper. See *phosphide, *silicon-copper,—Potassium cyanide copper process. See *synaide process.—Stamp copper, native copper which has been separated from the copper rock by stamping and washing, as distinguished from mass copper and barrel-work. [Lake Superior.]—Underpolled copper, copper from which the suboxid has not been sufficiently removed by poling.

H. a.—American copper hindwing. See *hinds-transfer in the fact that it protects the mankes corper and barrel-work. [Lake Superior.]—Underpolled copper, copper hindwing. See *hinds-transfer in the fact that it protects the mankes corper and barrel-work. [Lake Superior.]—Underpolled copper, copper promoved by poling.

The *tagestal of copper tail (kop'ér-tāl), n. A person of low social standing. [Bush cant, Australia.] spelling of copper work, n. 2. In candy-making, the copper copps copper work, n. 2. In candy-making, the copper copps (kettles, pans, caldrons, and other vessels collectively in which syrups, pastes, conserves, etc., are boiled or otherwise treated in cookstation of the stages of colper-smelting by the Swansea process.—Phosphide of copper, spelling of copper (kettles, pans, caldrons, and other vessels collectively in which syrups, pastes, conserves, etc., are boiled or otherwise treated in cookstation of the stages of colper-smelting by the so-called red spider, species of the stages of colpers, and the copper in the copper in the copper leaves, leaves which show yellowish spots, gradually received in cookstation of the st

II. a.—American copper hindwing. See *hindwing.—Copper age, luster. See *age, *luster2.

copper 1, v. t. 3. To coat with copper; as to

copper type; also, to color by means of a salt of copper: as, to copper pickles, etc., in order to make them a bright-green color.

The colouring of preserved peas by the use of a little copper sulphate is on a different basis, as the copper is considered liable to produce injury to health, and many yendors of coppered peas have been fined during recent years; yet the public object to purchase preserved peas of the natural brown colour.

Encyc. Brit., XXV. 92.

copper² (kop'er), n. A policeman. See cop⁴. ISlang.

copper-bill (kop'er-bil), n. A centrarchoid thread is formed in fish, Lepomis pallidus, found in the eastern coppy (kop'i). n. United States.

copper-blende (kop'èr-blend), n. Same as

copper-bloom (kop'er-blom), n. Same as chalcotrichite.

copper-cut (kop 'èr - kut), n. and a. I. n. A late engraved on copper. Carlyle, French Rev., III. iii.

II. a. Pertaining to a copper-cut.

one cent, struck in the United States during the Civil War.—5. In ornith., the yellow-headed blackbird, Xanthoccphalus xanthoccphalus, of the western United States: so ealled from the reddish-yellow color of its head.

coppering-hammer (kop'er-ing-ham "er), n. See $*hammer^1$.

copper-manganese (kop"er-mang-ga-nes'), n.

copper-manganese (kop-er-mang-ga-nes'), n. Same as crednerite. copper-Maori (kop"ér-mä'ō-ri). [A colonial rendering of Maori kapura, the common fire used for cooking (or from kopu, the hole scooped out for a native oven?), + Maori, Maori ('native').] In New Zealand, a native oven

copper-nose, n. 2. A disease, aeue rosacca, of the nose, caused sometimes by excessive use of alcohol.-3. A person having this disease; a drunkard.

copperplate (kop'ér-plāt), v. t.: pret. and pp. copperplated, ppr. copperplating. To engrave or etch on a plate of copper for the production of a printing surface.

copper-schist (kop'er-shist), n. A schistose slaty bituminous and very persistent bed, which carries copper ores containing some which carries copper ores contained silver, in the Mansfeld district, Saxony. The industry is a very sniver, in the Mansiera district, Saxony. The geological horizon is the Permian. The industry is a very old one, the mines are extensive, and the metallurgical problems, on account of the aluminous nature and relatively low-grade of the ore, are of special interest and importance. The rock is rather a shale or slate than a solid.

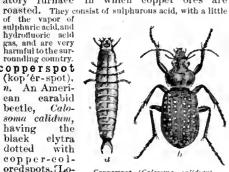
copperskin (kop'er-skin), n. A member of

the American race; a redskin.

copper-slate (kop'ér-slät), n. A clay-slate in
the Mansfeld district, Saxony, which carries copper ore.

atory furnace in which copper ores are

copperspot (kop'er-spot), n. An American earabid beetle, Calosoma calidum, having the elytra black dotted with copper-coloredspots.[Loeal, Canada.]



The 'coppets' or 'hammocks,' as they are called in Florida, are areas devoid of either pines or palmettos and often occupy isolated areas entirely surrounded by pine forests as in sonthern Florida.

Science, July 22, 1904, p. 113.

Coppice forest. Same as sprout *forest.—Coppice system. Same as *sprout system.—Standard coppice system. Same as reserve *sprout method.

coppice-shoot (kop'is-shot), n. Same as sprout, 1, (b)

coppice-wood (kop'is-wud), n. A wood with

underbrush. Bacon.

copping-beam (kop'ing-bem), n. A beam which forms part of the machine by which thread is formed into cops.
coppy² (kop'i), u. [cop¹ + -y¹.] A crested

copracrasia (kop-ra-krā'si-ā), n. [Gr. κόπρος, excrement, + ἀκρασία, powerlessness.] Loss of power to retain the feces.

copragogue (kop'ra-gog), a. and u. [Gr. κόπρος, thartic.

A cathartic remedy. II. n.

copperhead, n. 4. A private token, equal to cop-reel (kop'rel), n. A machine for winding yarn into hanks from mule-cops.

coprin (kop'rin), n. [Coprinus.] A fungus of the genus Coprinus.

coprodæum (kop-rō-dē'um), u.; pl. coprodæa (-ä). [Gr. κόπρος, dung, + (irreg.) δαίειν, di-

 (-ā). [Gr. κόπρος, dung, + (irreg.) δαίειν, di- graph.
 vide.] In anat., the anterior division of the copygraph (kop'i-graf), n. [copy + Gr. γμάφειν, cloaca which receives the rectum in such animals as birds: correlative with proctodæum and *urodæum.

coprolalia (kop″rō-lā'li-ā), n. [NL., < Gr. κόπρος, dung, + λαλείν, speak.] A morbid

tendency to indecent speech.

coprolite, u. 2. Any rounded concretionary mass or pebble containing largely calcium phosphate and representing the more or less altered debris of fossil bones, teeth, etc., used as a source of phosphoric acid in the manufacture of fertilizers. *Thorpe*, Diet. Applied facture of fertilizers. Thorpe, Dict. Applied Chem., I. 609.—Radiolarian coprolites, round or cylindrical bodies, often attaining the size of a goose-egg, found in the Lias of Germany. They contain great numbers of radiolarians. "They probably originated from fish or cephalopods which had fed upon Crustacea, Pteropoda, and similar pelagic organisms whose stomachs were already full of radiolarian skeletons." Hacekel (quoted in Nicholson and Lydekker, Mannad of Paleont., p. 148).

coprologist (ko-prol'ō-jist), u. A writer or painter whose work is characterized by filth or indecency. Fortnightly Rev.

coprology (ko-prol'ō-ji), u. [Gr. $\kappa \delta \pi \rho \sigma c$, dung, + $\lambda \ell \gamma c v$, gather.] 1. The collection or a collection of filth or dung; figuratively, filth in literature or art.

How far poetry may he permitted to go in the line of sensual pleasure or sexual emotion may be debatable between the disciples of Ariosto and the disciples of Milton; but all English readers, I trust, will agree with me that coprology should be left to Frenchmen.

A. C. Swinburne, Ben Jonson, ii. 94.

copper-smoke (kop'er-smök), n. The gases coprophagy(ko-prof'a-ji), n. [Gr. $\kappa \delta \pi \rho \rho c$, exwhich escape from the hearth of a reverberatory furnace in which copper ores are among insects, of customarily feeding upon excrement. It also occurs as a pathological condition in man.

condition in man.

coproprietorship (kō-prō-prō'e-tor-ship), n.
Joint proprietorship or ownership.

Coprosma (kō-pros'mi), n. [NL. (Forster, 1776), ⟨Gr. κοπρος, dung, + ὁσιν, smell. The allusion is to the odor of the herbage in some species.] A genus of plants of the family Rubiacca. They are shrubs or small trees with opposite or whorled, entire leaves, and white or greenish, mostly inconspicuous flowers, either axillary or terminal and borne singly or in small cymes or heads, the fruit consisting of a 2- or 4-celled berry. There are about forty species, extending from New Zealand and Australia to Java, the Hawaiian Islands, and Juan Fernandez. C. Baueri is sometimes cultivated in greenhouses for its small, coral-red, ornamental fruits. C. factidissimo is the sterile wood, and C. lucida the karanau or voffre-bush, of New Zealand. See sterile wood, under sterile, and *cofee-bush.

coprosterol. n. See *koprosterol.

Copperspot (Calosomo calidum), a, larva; b, heetle, Natural size (from Riley). coprosterol, n. See *koproslerol.

A former (and recent simplified)

coppertail (kop er-tai), n. A person of two cops, n. A former (and recent simplified) social standing. [Bush cant, Australia.] spelling of copse.

copperwork, n. 2. In candy-making, the copper cops² (kops), n. [Also copse, < ME. cops, < AS. kettles, pans, caldrons, and other vessels collectively in which syrups, pastes, conserves, etc., are boiled or otherwise treated in cookset. [Auglo-Saxon use.]—2. A hasp. [Prov. Eng.]—3. A bow-shaped piece of metal, bent into the form of a capital U, used as a holdfast at the end of a pole or beam (of a plow or wagon, etc.); a clevis. [Prov. Eng.]

copse², n. Same as *cops².

Copt. An abbreviation of Coptic.

copula, u. 5. In bot., same as zygospore.—6. In zoöl., the cell resulting from the union of a microgamete and a macrogamete among the Sparozoa.—7. In chem., one compound subspandant.—7. In chem., one compound substance united with and modifying the character of another. See copulated *compound.

E. ron Mcyer, Hist. Chem., p. 283.—8. A commissure; the corpus callosum.—9. In music, a brief connecting passage, especially between the subject and answer of a fugue. Also called codetta or conduit. - 10. Same as *amboccptor.—11. In ichth., same as actinost. copulated (kop'ū-lā-ted), p. a. United by a copula; joined.—Copulated compound. See *com-

copulation, n. 3. In chem. See copulated *compound. E. ron Meyer, Hist. Chem., p. 325. See copulated fowl, such as the Houdan or Polish. [Local, copunctal(ko-pungk'tal), a. [L. co-, together, Eng.] + punctum, point, + -all.] In geom., being on the same point; concurrent.

Planes all on the same point, or straights all with the same cross, are called copunctal.

Merriman and Woodward, Higher Mathematics, p. 71.

excrement, $+\frac{i}{a} \frac{\partial S}{\partial y} \frac{\partial S}{\partial y}$, leading.] I. a. Ca- cop-winder (kop'win'dèr), n. A machine for winding yaru from the skein upon a bobbin or pirn for weaving.

Copy, n.—Close copy, formerly a copy of legal instruments which might be written continuously without breaking off in order to leave only a given number of words on each sheet. In an office copy, each sheet was to contain only a prescribed number of words.

Copygram (kop'i-gram), n. Same as *copy-

write.] 1. Same as hectograph.—2. A print produced by copygraph.—3. A printing-type of peculiar face, made to imitate the characters of a type-writing machine.

copy-head (kop'i-hed), n. A line of writing set at the head of each page of a child's copybook, as a model of penmanship to be copied or imitated.

coquille, n. 2. A shell, or a dish in the form of a shell, in which preparations of fish, etc., are served.—3. pl. Spectacles of concave-convex glass, usually tinted or smoked, used as a protection to the eyes .- 4. A mistake in printing, in which one letter is substituted for another.

another.

Cor adiposum. Same as fatty *heart.—Cor arteriosum [L., arterial heart, the left side of the heart, which contains arterial blood.—Cor bovinum [L., ox heart], a greatly hypertrophied heart.—Cor dextrum [L., right heart]. Same as *cor venosum.—Cor sinistrum [L., left heart]. Same as *cor arteriosum.—Cor taurinum. Same as *cor bovinum.—Cor venosum [L., venous heart], the right half of the heart, which contains venous blood. enous blood

Cor. An abbreviation (b) of coroner; [l.e.] (c) of correlative, (d) of correspondence, correspondent, and corresponding.

coracite (kor'a-sit), u. [Gr. $\kappa \delta pa\xi$, crow, + $-ite^2$.] A partially altered uraninite, or pitch-blende, from the north shore of Lake Superior. coracler (kor'a-kler), n. [coracle + -er¹.] A fisherman who uses a coracle. N. E. D. Coracohumeral groove, in crnith., the well-defined impression on the anterior side of the proximal end of the humerus.

coracoid, n. (e) In ichth., a large bone of the shoulder-girdle; the clavicle; not homologous with the coracoid of Agassiz or of Parker, or the coracoideum of Vogt and Yung. Starks, Synonymy of the Fish Skeleton, p. 521.

coracoideum (kor a-kō-id'ē-nm), n.; pl. coracoidea (-ā). In ichth., the supraclavicle; a bone of the shoulder-girdle of fishes between the clavicle and the post-temporal: not homologous with the coracoid of Parker, Agassiz, or Owen. Starks, Synonymy of the Fish Skeleton, p. 520.

coracoradialis (kor″a-ko-râ-di-â'lis), u. [NL., \(\sigma \coraco(ides)\), the coracoid, \(\psi \coraco(ides)\), radius, radius.]
The short head of the biecps muscle.

coraco-ulnaris (kor "a-kō-ul-nā'ris), u. [NL., (coraco(ides), the coracoid, + ulna, ulna.] Fibers of the biceps muscle attached to the fascia of the forearm.

coradgee, n. See *koradji.

coral, n =Black **coral**, any coral having a black horn-like axis, as the antipatharians; also applied to the black axis of certain gorgonians.—**Coral bead-tree**, **bean**

calculus, fern, hairstreak, rock. See *head-tree, etc. — Deep-sea coral zone. See *zone.— Honeycomb coral, a coral of the zenus Favosites, so named from the regular hexagonal cells and transverse figors or tabula.— Mexican coral bean. See ★bean!—Rose coral, any species of Isophyllia, the polyps of this genus being large and bright-colored.—White coral, a branched coral of the Mediterranean, Amphibelia oculota.—Yellow coral, the yellow form of the hydrocoralline, Distichopora nitida.

Coral-and-pearl (kor*al-and-perl), n. The will real beneaver.

wild red baneberry, Actæa rubra, so called from its pearly-red berries.

coral-bead (kor'al-bēd), n. A climbing vine, with red drupes of the genus *Epibaterium*, of

the moonseed family. See *Epibaterium.

coral-creeper (kor'al-krē*per), n. A trailing leguminous vine of Australia, Hardenbergia coccinea (Glycine coccinea of Curtis), bearing

searlet flowers. Also called bleeding-heart. coral-gall (kor'al-gâl), n. One of the exerescences, of varied shape and size, produced on different kinds of coral by the action of barnacles, crabs and epizoic animals of other species.

These coral-galls may be found on the Milleporas and These corat-patts may be found on the Mineporus and Madreporus of a certain portion of a reef and be absent from all the other genera of neighbouring corals. The crah-galls that are found so commonly and in such abundance upon Pocilloporus and Seriatoporus in certain parts of the Pacific and elsewhere are found only in cases of extreme rarity in other corals,

**Nature*, Sept. 10, 1903, p. 457.

coral-grove (kor'al-grôv), n. A group of arbo-

rescent corals growing together.

coralillo (kō-rā-lēl'yō), n. [Cuban Sp., dim. of coral, coral.] Antigonon leptopus, an ornamental climbing-vine of the family Polygonaceæ, which bears clusters of showy pink

worker or dealer in coral.

Jorallana (kor-a-15%) coralist (kor'al-ist), n.

Corallana (kor-a-lā'nā), n. [NL., < corallum, coral: see coral. The first species was found among corals.] The typical and only genus of the family Corallanidæ. Dana, 1852.

Corallanidæ (kor-a-lan'i-dē), n. pl. [NL., < Corallana + -idæ.] A family of cymothoid

isopod crustaceans typified by the genus Coral-

corallar (kō-ral'ār), a. [coral + -ar.] Pertaing to a corallum or coral.

corallet (kor'a-let), n. [corall-um + -ct1.]

The skeleton of one of the individuals in a compound corallum. Dana.

togallian (kō-ral'i-an), a. and n. [L. coralli-um, as due + an.] 1. Having the character of ground be on a direct order. 2. Specifically, in a division of the Jurassic system

coom-ceiled (khe Oxfordian and below the coom-ceiled (Rue Oxfordian and below the arched or sloping d in England including the [Scotch.] (Scotch.] (Scotch) a. (Scotch or dust: as, very e Sequanian. grimed with coal-dust rallian division.

hands and face. [Scotch corall-um, coral, + coon, n. 4. A negro. [U.S. of or resembling whole coon, to go the whole hog. the same old coon, to keep on doi.NL., \(\) coralli-um (College).

[Colloq.] **Anthozoa, of cooncan (kön-kan'). **n. See **con*, the axis is a coon-cat (kön'kat). **n. A name in he fusion of land of a large, long-haired vari allium and domesticated cat, with ringed tail, **allium and ago suggests that of a reconstruction.

coon-dog (kön'dog), n. A dog trained t Living age suggests that of a racoon. and tree racoons. crust-

coonery (kö'ner-i), n. [Coon + -ery.] aims and methods of the 'Coons' of the ng-Whigparty in the United States. See coon, n

coon-root (kön 'röt), n. The bloodroot, San

guinaria Canadensis. coon-song (kön'sông), n. A popular song, such as is common among the negroes in the southern United States: so called because originally associated with coon-hunting. [Colloq.]

coöperancy (kō-op'e-ran-si), n. [coe+-cy.] Coöperant relation or state. [cooperan(t)

This conception of a reign of law, amid which and under which we live, affects the emotions in various ways: at times it may cause despendency, out we shall more and more find occasion for joy and triumph in the co-operancy of the energies of humanity with those of their giant kindred, light, and motion, and heat, and electricity, and chemical affinity.

Edward Dowden, Studies in Literature, p. 99.

cooperation, n. 3. In psychol., the process by

similar to Corallorhiza, but distinguished by crested ridges on the lip of the flower

Coral-spot disease. See *disease.

coral-thrombus (kor'al-throm'bus), n. A red thrombus formed in a short time from slowly moving blood, the coagulating fibrin having entangled the red corpuscles before they had time to sink.

In the larger vessels considerable fibrin and a homogeneous material resembling coral-thrombi are seeu.

Jour. Exper. Med., Oct. 25, 1900, p. 157.

coral-tree, n.-2. A small tree of northern coral-tree, n.—2. A small tree of northern India; North China, Korea, and Japan, Hovenia duleis, belonging to the bnekthorn family. It bears a small fruit consisting of a three-seeded capsule resting on an enlarged, fleshy, arched peduncle, resembling a piece of red coral. This peduncle is edible and contains a sweet juice with a pear-like flavor. Also called Japanese raisin-tree.—Bat's-wing coral-tree, an Australian tree, Erythrina Vespertitio, 30 to 40 feet high, having exceedingly light and spongy wood which is used by the aborigines for making shields. Called also cork-tree.

corbeau (kōr-bō'), n. [F., raven: see corbel2.]

A very dark green color. corbeille, n. 2. A fancy flower- or fruit-basket.

The full corbeille of blushing bloom.

Charlotte Brontë, Shirley, xxxii.

 ${f corbell}^1,\ v.\ t.-{f Corheled}$ capital, in columnar arch., a capital which has one or more distinctly marked corbels, consoles, or brackets pro-jecting from its mass. In Syrian architecture of



architecture of the fourth to the sixth centuries this form was used to diminish the length of the unsupported epistyle between two capitals. In most cases there were two of such were two of such

Corbeled Capital.

Projections, so that the capital was oblong in plan. In a few cases there were three, so that an epistyle at a right angle with the main epistyle was carried.

H. C. Butler, Architecture and Other Arts, p. 177.

corbelated, corbellated (kôr'be-la-ted), p. Furnished or decorated with corbels; corbeled. corbel-block (kôr'bel-blok), n. 1. A corbel when made of a single piece of stone, terracotta, or the like.—2. A stone in a compound corbel made up of several courses, one block of the three or four composing the corbel.

corbel-tabling (kôr'bel-tā"bling), n. 1. A corbel-table (which see, with cut).—2. Building by means of rows of corbels or corbel-In Romanesque architecture the cortables. bel-tabling of the cornices is a distinctive feature.

corbie-gable (kôr'bi-gā"bl), n. Same as stepped

gable.
corbillard (kôr-bē-yār'), n. [F., a young raven, a hearse, a coach.] A French state coach formerly in use. It had a top supported by six pillars, three on a side. The quarters were inclosed by curtains and the doorways were closed by leather screens, behind which were seats for the pages.
corbina (kôr-bê'nä), n. [Sp. corbina, corrina (NL. Corvina), name of several fishes so called from their black color or black fins: prop. fem.

from their black color or black fins; prop. fem. of corvino, \(\) L. corvinus, of the raven or crow: see corvine and corbin, and compare Corvina.] A much-esteemed food-fish, Corvina deliciosa, of the western coast of South America, sometimes attaining a length of over 6 feet. The corbina is frequently shipped inland.

corbin-bone (kôr'bin-bōn), n. The crow's bone; the hindmost segment of the breast-

bone of a deer, technically known as the xiphoid.

orbineta (kôr-bē-nā'tä), n. [Sp., dim. of orbina, a crow: see *corbina.] A sciænoid ch, Bairdiella icistia, found on the west coast sec Mexico.

Set Mexico.

Copa. le (kôr 'būl), n. [NL. Corbula.] A bikupa, of the family Corbulidæ.

koban; li (kôr-kop'a-lē), n. The edible, acid
copper Garemia Indica, a slender tree of the

Copatent, family, native to India. The fruit is
tre.] On of the size and shape of a small orange. It
other or o astringent and has long been employed in
cop-dyeing preparation of a cooling beverage, useful in
dreing year.

dyeing yar. An imperfection on the surface of expense of a expense of 1 **cordy.* Amniotic cord. See **am* Davis, Manuf. of Leather, p. 203.

cooperation, n. 3. In psychol., the process by which a mental group, in the exercise of its apperceptive function, prompts other groups to a similar activity. G. F. Stout, Anal. Psychol., II. 128.

expense of 1 **cordy.* Amniotic cord. See **am* Davis, Manuf. of Leather, p. 203.

cordy (kôr'di), a. [cord¹ + -y¹.] Stringy; in devised for 1 running lengthwise of the fabric seen sulting from impurities. See also wreath, 4.

cope¹, v. t. 3. lineal foot of a pile of cord-wood out ing or tying u rein's cords, the true vocal cords.

cordy (kôr'di), a. [cord¹ + -y¹.] Stringy; in defective condition resulting from impurities. See also wreath, 4.

cordy! kôr'di-lit, n. [Gr. κορδύλη, club. + -tte². in allusion to the shape of the crystals.]

Gangliated cord, the sympathetic nerve.—Gibernacular cord, in embryol, a fibrous cord connecting the embryonic mammalian testis with the skin of the scrotum and disappearing after the descent, of the testis.—Stignatal cord, in entom, one of the temporarily functionless solid tracheal branches running from the main longitudinal trachea to aborted thoracic stigmata in the nymphs and larve of certain insects of the neuropteroid series, as Ephemerider, Perlidæ, Odonata, and Trichoptera. In the adults they become functional. A. S. Packard, Text-book of Enton., p. 460.—Willis's cords, fine fibrous cords which cross the sinuses of the dura mater: also called trabeculæ of Willis and chordæ Willisii.
cord¹, v. II. intrans. To become hard and cord-like: noting a condition occasionally encountered in the blood-vessels.

From obstruction of the jugular there are often cording of the vein, swelling and ædema of the tissues and glands about the vein, and cellulities of the neck. Buck, Med. Handbook, III. 658.

cordage, n. 2. The quantity of wood, in cords,

on a given area of land. Cordaitaceæ (kôr'da-i-tā'sē-ē), n. pl. [NL. (Engler, 1887), < Cordaites + -aceæ.] A family of gymnospermous fossil plants of the order Cordaitales, typified by the genus Cor-

der Cordaitales, typified by the genus Cor-daites. It is eharacterized by unisexual flowers, the staminate stalked with 3-4 eylindrical stamens consisting of a simple pollen-sac; the fertile borne on short, fillform peduncles in the axils of bracts, many of which, crowded together on an axis, form spikes. Several genera are recognized, and generic names have been applied to various parts found detached from the stems. They were trees or woody plants with broad, longitudinally nerved leaves, ranging from the Devonian through the Carbonif-erous. See Cordaites. See Cordaites.

cordaitaceous (kôr"da-i-tā'shius), a. Belonging or related to the family Cordaitaccæ.

cordaitalean (kôr "da-i-tā' lē-an), a. [Cordaitales + -an.] Belonging or related to the fossil plant-order Cordaitales.

Cordaitales (kôr "da-i-tā' lēz), n. pl. [NL. (Engler, 1892), < Cordaites + -ales.] An order

of fossil gymnospermous plants, usually made to include the families Cordaitaceæ and Dolerophyllaceæ: doubts, however, exist with regard to the latter. They range from the Devonian to the Permian, and are regarded by many as the ancestors of the Ginkgoales.

cordaitean (kôr-da-i-tē'an), a. [Cordaites + -an.] Belonging or related to the fossil plant-genus Cordaites, or to the family Cordaitaceæ. cordein (kôr'dē-in), n. [cord(ol) + -e- + -in².] The trade-name of methyltribromsalol or methyl corde.] thyl cordol. Its use in medicine is similar to that of cordol.

cordicole (kôr'di-kōl), n. [NL. cordicola, < L. cor (cord-), heart, +-cola, < colere, till, worship: see cult.] A worshiper of the heart: a name applied to members of Roman Catholic societies who worship the 'sacred heart' (of Jesus).

cording¹, n. 3. In sewing-machine work, the stitching, with special machines, of cords on cloaks, corsets, uniforms, and other garments.

cordite (kôr'dīt), n. [cord1 + -ite2.] A smokeless powder, introduced in 1889, and adopted in the British military and naval service for small the British military and naval service for small arms and guns of all calibers. Abandoned in 1902. It is brown in color, and is composed of 58 parts of uitroglycerin, 37 parts of guncotton, and 5 parts of mineral jelly (vaseline). The name is derived from the fact that it is made in the forms of cords or cylinders by pressing the composition through holes of varying size. The cylindera for heavy guns are made tubular. Cordite imparts a high velocity to the projectile without undue pressure, is very stable under extreme climatic conditions, and its ballistic properties are not seriously affected by moisture. The objection to it is that the high degree of heat developed upon combustion causes rapid erosion of the bore of the gun.

cordol (kôr'dol), n. [cord¹(†) + -ol.] The trade-name of tribromphenyl salicylate, HOC₆ H₄COOH₆H₂Br₃, prepared by the action of bromine on salol. It crystallizes in colorless needles, and is used in medicine as a gastric

sedative and intestinal antiseptic.
cordoned (kôr'dond), p. a. Decorated with
an encircling band in relief: as, a cordoned
vase of old Satsuma.

cord-peg (kôrd'peg), n. In elect., the metallic peg or plug attached to the end of a flexible conducting-cord for making switchboard connections. Such pegs are employed in tele-phone service and in other cases where circuits for small currents are needed.

corduroy, v. t. 2. In splitting a hide, to make uneven lines or spots on the flesh side of it. Davis, Manuf. of Leather, p. 203. cordy (kôr'di), a. [cord¹ + -y¹.] Stringy; in glass-manuf., noting a defective condition re-

A cerium fluocarbonate related to parisite but peculiar in containing barium: found in southern Greenland.

cordylurid (kôr-di-lū'rid), a. and n. I. a. Of or belonging to the dipterons family Cordulu-

II. n. A member of the family Cordyluridæ. cordylus (kôr' di-lus), n.: pl. cordyli (-li).
[NL., < Gr. κορδύλη, a club.] In the medusoid of Hydromedusæ, an exumbral structure, possibly a modified tentacle, placed between ten-tacles and consisting of a core of vacuolated endederm cells covered by flattened ectoderm. W. K. Brooks.



Sensory Club (Cordylus) of Onychoteuthis sp., showing the hooks and clusters of fixing-cushions and acetabula below them. Nearly one half natural size. (From "Cambridge Natural History,")

core-bar (kōr'bār). n. A bar of iron upon which a round core is struck up. The bar is placed on the bearings of core-trestles and loam is laid on it and struck to shape by revolving it against the edge of a board cut to the required outline. Core-bars vary in diameter with the sizes of the cores required, ranging from a half inch to twelve inches or more, and when of large diameter, such as are used in gun-construction, are called core-barrels.

core-barrel, n. 2. In mining and rock-drilling, a form of boring-bit carrier for use in making annular holes in rock with the diamond drill. The barrel consists of a wrought-iron tube of the diameter of the hole outside, with spiral grooves along its length to allow escape of water and refuse. The core passes up inside the barrel. See *core-borer.

core-bench (kor'bench), n. A bench where small foundry cores are made. core-board (kor'bord), n. Same as loam-board.

core-borer (kor bor er), n. In mining, a type of machine for deep boring having an annular cutting-bit. To this type belong the diamond drill and the calyx drill.

Core-box machine, a molding-machine fitted with eutters adapted to form in wood patterns for core-boxes.—
Core-box plane, a plane for making the hollow cylinders
within which the cores are to be moided.

core-carriage (kēr'kar'āj), n. A low iron car on which cores and molds which are to be baked are run into the core-oven. Core conductor. See *conductor.

corediastasis, corediastole. Erroneous forms for *corodiastasis and *corodiastole.

core-drill (kör'dril), n. Same as *core-borer. core-drilling (kör'dril"ing), n. Drilling with an annular bit, usually of diamonds set in a holder, so that a core is left in the axis of the tube. From the core the strata which have been pierced can be determined.

Core-drilling is indispensable in a great variety of engineering and mining enterprises, affording, as it does, a means for drilling out a sample core or column of rock, which enables one to tell at a glance the exact nature of the substrata.

Sci. Amer., July 18, 1903, p. 44.

core-extractor (ker'eks-trak"tor), n. In mining, a conical-toothed clutch in the lower end of the core-barrel by which the core is detached and raised.

coreid (kō'rē-id), a. and n. I. a. Of er belonging to the heteropterous family Coreidæ. II. n. A member of the family Coreida.

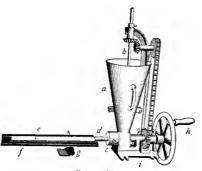
coreine (kô're-in), n. A mordant coal-tar color of the exazin type, derived from the amide of dihydroxybenzoic acid. It dyes ehromium-mordanted wool blue .- Coreine AB and AR, mordant coal-tar colors of the oxazin type, made by heating coreine Rib with aniline and then sulphonating the product. It dyes chromium-mordanted wool blue.—Coreine 2R, a mordant coal-tar color of the oxazin type, derived from gallocyanine. It dyes chromium-mordanted wool a hright blue. Same as celestine *blue.

core-iron (kēr'î"ern), n. A small wrought-iron rod from 1/8 to 1/2 of an inch in diameter, used in forming a center for a foundry core. This is necessary in slender cores in order to make them sufficiently strong to withstand the pressure of the iron.

co-relation, n. 2. Specifically, in vegetable teratol., the association of one malformation with others in the same plant: illustrated in peloria, etc. Masters.

core-loss (kôr'lôs), n. The loss of power in the iron core of electric machinery, consisting of the hysteresis loss and the eddy-current loss in the iron.

core-machine (ker'ma-shen"), n. In foundry work, a hand-power machine for pressing prepared molding-sand into cylindrical forms for use as cores. The sand is placed in the hopper end and by the revolution of a vertical plug is forced out of



a, hopper; δ , screw, pressing the mixed sand, flour, and oil through the forming-die; ϵ , forming-die; d, core-tube; ϵ , plastic core delivered upon corrugated tray, f: ϵ , adjustment to keep tray level and to shift it until filled; δ , operating-handle; ϵ , base, resting on work-bench. Capacity 200 feet of core an hour.

the bottom of the hopper, through a die that forms it into long cylinders, deposited on a tray, and cut into lengths ready for the core-oven.

core-maker (kēr'mā"kėr). n. One who or that which makes cores; specifically, a workman employed in a foundry whose business it is to mold and bake sand or loam cores.

coreometer, n. See *corometer. core-oven (kōr'uv'n), n. In foundry work, an core-oven (kor uv"n), n. in jounary work, an oven for drying and baking small cores. It may be a simple sheet metal box placed over a small furnace or a large brick oven heated by coal or gas. The cores are placed npon triangular shelves which are pivoted at one corner. The oven is fitted with two doors placed atright angles, so that whether the shelf is in the oven or swung ontside the oven is always closed by one of the doors.

core-packing (kor'pak"ing), n. Packing placed around a core to increase its strength and durability. The material for both core and covering depends on the service required of the packing.

core-peg (kor'peg), n. A peg or support for a core which is made of a number of parts. The various parts are set on the peg and are then fastened together.

core-plate (kor'plat), n. A thin annular castcore-place (ROT plate), n. A tuln annular casiiron plate used in making a framework or skeleton for large cores. Several of these plates are fastened to a central bar, the space between them is filled with twisted hay, and the whole is covered with loan.

core-ring (kor'ring), n. A ring of east-iron which supports a core and when the easting is

which supports a core and, when the casting is poured, melts and becomes a part of the casting.

core-rod (kōr'rod), n. Same as *core-iron.
co-respondency (kō-re-spon'den-si), n. The
fact of being co-respondent, as in a suit for diverce

core-stove (kor'stov), n. A stove for heating a

core-oven in a foundry.

core-trestle (kōr'tres'l), n. A strong trestle, usually of metal, having V-bearings on its top in which a core-bar is laid. To the end of this corebar is fastened a crank by which it can be turned to shape the core as in a rough sort of lathe.

core truly (kō-rik'si-dō), n. pl. Same as Corriving (k

core-tube (kor'tub), n. 1. Same as eore-barrel. -2. The inner tube of a built-up gun.

core-vent (kor'vent), n. In founding, a small hele or passage made in a cere for the escape of gas. The best way to make it is to lay a string in the core when the latter is being made, and to burn it out after the core is baked. Sometimes small wires are placed in the core and withdrawn after it is baked.

core-wall (kōr'wâl), n. A wall of solid masonry in the interior of a dam, dike, or causeway which is constructed chiefly of sand or earth. H. M. Wilson, Irrigation Engineering, р. 350.

corf, n. 3. A small mine-car of weed er iron. corf-cage (kôrf'kāj), n. The cage or elevator in which corfs are hoisted to the surface. [Eng.] corial (kō-ri-āl'), n. [Sp. corial, appar. perverted from Arawak kuljara.] In Gniana, a dugout canoe pointed at both ends.

coriandrol (kō-ri-an'drōl), n. [L. coriandrum, coriander, +-ol.] A colorless fragrant liquid compound, $C_{10}H_{18}O$, contained in oil of coriandroum.

Coriariaceæ (kō"ri-ā-ri-ā'sē-ē), n. pl. [NL. (Dumortier, 1829), < Coriaria + -aceæ.] A family of dicotyledonous choripetalous plants of nly 61 dicotyledonous choripetalous plants of the order Sopindales, containing the genus Co-riaria only, and characterized by 5-merous diplostemonous flowers. They are woody plants with opposite or whorled entire leaves without stipules, and axillary or clustered flowers. The genus Coriaria is remarkable for its wide distribution in both hemispheres of the old world, and is also found fossil in the Tertiary of Europe. See Coriaria. **coridine** (kor'i-din), n. A monacid base, C_{10} $H_{15}N$, found in coal-tar. It boils at 211° C. **coriin** ($k\bar{o}'$ ri-in), n. [cori(um) + in^2 .] An albu-

minoid substance which cements together the

fibers of the corium.

corimelænid (kor-i-me-lē'nid), n. A member of the heteropterous family Corimelænidæ. Also used adjectively.

Corindin (kō-rin'din), n. [Formation not clear.] A ptomaine, $C_{10}H_{15}N$. Coring-out (kōr-ing-out'), n. The process of making hollow castings by the use of cores, as distinguished from forming the interior by a block of greensand.

coring-up (kōr-ing-up'), n. The process of putting the cores in place in a foundry-mold before closing it up by putting on the cope. corinth (kor'inth), n. 2. A name applied to several coal-tar colors which dye currant-red

several coal-tar colors which dye currant-red and other reddish shades.—Glycin corinth, a direct cotton coal-tar color of the diazo type, derived from benzidine. It dyes unmordanted cotton currant-red in an acid bath.—Kongo corinth B and G, direct cotton colors of the disazo type, the former derived from tolidine, the latter from benzidine. They dye unmordanted cotton brownish violet in a soap bath.

Corinthian, a. 4. Elegantly ornate; florid:

applied to literary style.

applied to literary style.

I have already spoken of the Attic and the Asiatic styles; besides these, there is the Corinthian style. . . . It has not the warm glow, blithe movement, and soft pliancy of life, as the Attic style has; it has not the over-heavy richness and encumbered gait of the Asiatic style; it has glitter without warmth, rapidity without ease, effectiveness without charm. Its eharacteristic is, that it has no sonl.

M. Arnold, Essays in Criticism, p. 87.

Corinthtan atrium. See *atrium.

Corinthianesque (kō-rin"thi-an-esk'), a. Corinthian + -esque.] Resembling the Corinthian style: as, Corinthianesque pillars.

Corinthianism (kō-rin'thi-an-izm), n. [Corinthian + -ism.] Cerinthian conduct or theory; that is the unrestrained purposit of worldly

that is, the unrestrained pursuit of worldly pleasure.

Corinthianize, v. i. 2. In arch., to design or to be designed somewhat in the spirit of the Corinthian order. Thus the Byzantine capitals of the fifth century and later, founded upon sharp, thistle-like leafage resembling the acanthus, are assumed to be deliberate imitations of Corinthian capitals, and may be said to be Corinthianized.

coriomyrtin (ko"ri-o-mer'tin), n. Same as coriamyrtin.

coriosulphurine (kō"ri-ō-sul'fū-rin), n. [L. corium, skin, + sulphur, sulphur, +-ine2.] A yellew pigment found in the skin of certain birds.

corisid (kor'i-sid), n. A member of the heteropterous family Corisidæ. Also used adjectively.

corium, n. 3. A tunic of leather with overlying flaps. It appears in the Bayeux tapestry, and was used as late as the time of Henry III.

Myrick, Antient Armer, I. 2.—Corium phlogisticum, an unusually thick crust formed on blood drawn during the height of an inflammation. See buffy coat.

corking (which is the preferred spelling).

corki, I. n. 5. pl. (a) A game played with corks colored differently on the sides and so trimmed that they may fall either way, the players betting on whether the majority thrown will fall red or black. Sometimes called props. (b) In France and Belgium, a game, a mixture of quoits and bowls. (c) A variety of skittle-pool.—Burnt cork, charred cork used to blacken the face, as in making up for a 'negro minstrel,' or to emphasize the cycbrows, etc.

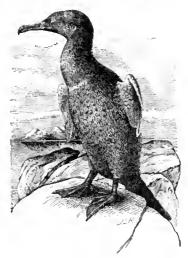
II. a.—Cork belt, a cork life-preserver made to be fastened around the waist.—Cork leg, an artificial leg made of cork: now usually applied to one made of wood or other material.

cork1, v. t. 4. In currying, to grain. [Rare.] Modern Amer. Tanning, p. 83.

cork-board, n. 2. In currying, a board, with a cork surface, used by a workman to board or grain a skin or hide. Modern Amer. Tanning, p. 83

cork-borer (kôrk'bōr"er), n. Any one of the following insects, which bore into the corks of wine-bottles: Rhizophagus bipustulatus, a niti-dulid beetle; Tinea cloacella; Endrosis lactulla; and Asopia farinalis. One of the sow-bugs, Oniscus murarius, also has this habit, but probably only follows insect damage.

cork-elm (kôrk'elm), n. A majestic forest-tree, Ulmus racemosa, of the more northeastern parts of North America, but ranging from parts of North America, but ranging from Quebec to Nebraska and south to northern New Jersey and Missouri. It reaches a height of 100 feet, the trunk, which sometimes attains a diameter of 3 feet, often being free of branches for 60 feet. The habit is wholly unlike that of the white elm, the top being relatively small for so large a tree. The bark of old trees is deeply divided by fissures into broad, corky ridges. The wood has most of the valuable qualities of the elm, and is largely employed in the manufacture of agricultural implements, wagon-hubs, and railway-ties, and for the foundations of buildings. It is planted sometimes for shade and ornament, but lacks the umbrageous qualities as well as the grace and beauty of the American elm.



Harris's Cormonant (Nanopterum harrisi).

corking (kôr'king), n. The undesirable effect produced in wines by fungi in the cork.

In order to destroy the fungi the spores or mycelium of which exist in cork and give rise to volatile substances, which in their turn give rise to what is known as corking in wines or other fluids, the corks employed should be sterilized in vacno.

**Lancet*, June 8, 1904, p. 1758.

corking (kôr' king), a. [Cf. corker.] Fine;

'bully.' [Slang.]
corkir (kôr'kèr), n. [Also korkir, korker, < Olf. corcur, erimson, = Ir. corcur, searlet, Olf. corcur, purple, = W. porphor, \land L. purpura, purple: see purple. See also cork4.] A kind of lichen which furnishes a erimson dye. cork-paint (kôrk'pānt), n. In ship-building, a paint applied to iron surfaces to prevent condensation of moisture from the atmosphere, or sweating. A sticky varnish is first applied to the surface, and finely granulated cork is thrown against it. The adhering cork is afterward

against it. The addring cold is alternated painted over with ordinary paint.

cork-pool (kôrk'pôl), n. See *pool2.

cork-rope (kôrk'rôp), n. The rope to which the eorks of a fish-net are attached.

corkscrew, n. 2. A geared logging-locomotive.

COTESCIEW, n. 2. A geared logging-locomotive. [Slang.]—Devil'scorkscrews, spiral bodies, described under the generic name ★Daimonelix (which see, with cuts), of large size, often having a vertical height of from 5 to 10 feet, and sometimes coiled about a solid cylindrical axis. They occur in a vertical position in the Miocene rocks of Nebraska, and were originally regarded as casts of the borings of rodents. The latest investigations show that the bodies are constituted of a probably vegetable cellular tissue composed of loose oblong tubules variously intertwined. intertwined.

corkscrew-plant (kôrk'skrö-plant), n. See Spiranthes

cork-tree, n. 2. In Anstralia: (a) Hakea lorea, a tree of the family Proteacee, giving strong, durable timber: so called in allusion to its rugged bark. (b) Same as bat's-wing *coral-tree.—New Zealand cork-tree, a tiliaceous tree, Entelea arborescens, having extraordinarily light wood.

cork-wax (kôrk'waks), n. Same as cerin, 2. cork-wing (kôrk'wing), n. Crenilabrus melops, a labroid fish found on the coasts of Europe.

corkwood, n. 2. lu Australia, any one of sevcorkwood, n. 2. In Australia, any one of several trees having very light or soft and easily worked wood, or the wood itself. The three most important are Duboisia mapporoides, a solanaceous tree having white or yellowish firm, soft wood, and bark resembling that of the cork-oak: also called corkwood-elm; Endiandra Sieberi, a lauraceous tree with light-brown soft wood suitable for cabinet-work; and Schizomeria centa, of the family Canoniaceæ, which has wood exceedingly light in weight.

3. See **whau.

Sec *whau.

corkwood-elm (kôrk' wùd-elm"), n. See *corkwood, 2. See also Duboisia and duboisine.

Corky dike, a local name in the Acadian provinces of a variety of soil which contains many vegetable fragments and tibers. J. W. Dawson, Acadian Geol., III. 25.—Corky warts, pathological formations of cork in the form of wart-like excrescences on roots and tubers. They frequently occur in connection with scale of potatotubers and beets, and are mostly due to the action of bacteria and fungi.

habit is wholly unlike that of the white elm, the top being relatively small for so large a tree. The bark of old trees is deeply divided by fissures into broad, corky ridges. The wood has most of the valuable qualities of the elm, and is $+\dim_{\mathbb{R}^n} dion_{\mathbb{R}^n}$. A group, in a cormus, of the morphological units or persons of which it is composed. In the siphonophores the cormidia are often arranged at regular intervals upon the stem, separated by internodes.

The cormidium consists of a gonophore and a sterile person with bract, siphon, and capturing filament, Lung (trans.), Comp. Anat., p. 112,

cormogenous (kôr-moj'e-nns), a. In bot., having a corm.

cormoid (kôr'moid), a. Resembling or having the character of a corm. Syd. Soc. Lex.

cormophylogeny (kôr mō-fi-loj'e-ni), n. [Gr. κορμός, a trunk, + φῦλον, a tribe, + -γενεια, < γεν-, produce (see phylogeny).] Same as cormonhulu.

cormorant, n.— Harris's cormorant, Nanopterum harrisi, a large flightless cormorant confined to the vicinity of Narborough Island, of the Galapagos group: discovered by Charles Miller Harris in 1897, and named for him. See cut in first column.

cormus, n. 3. In biol., a morphological individual or morphon of the fourth order, composed of two or more persons organically connected into a compound organism. A siphonophoran is a cormus in this sense, since its constituent members are persons; but a treelis not. Sometimes corm. See person, 8.

times corm. See person, 8.

corn1, n.—Corn-and-cob meal, the product of grinding the whole ear of Indian corn. The combination of grain and cob has been found advantageous for stockfeeding.—Corn-belt (of the United States), the States where Indian corn is most extensively grown. These are seven in number: Illinois, Iowa, Kansas, Nebraska, Missouri, Indiana, and Ohio.—Corn bran, the external coating of the kernel of maize, separated by grinding and bolting. In a compressed state, with the addition of water, and of salt as a preservative, it is sold as food for cattle.—Corn chop, coarsely ground or cracked Indian corn used for feeding stock.—Corn ear-worm, the larva of a cosmopolitan noctuid moth, Hetiothis armiger, which feeds on cars of maize. Also known as the bolt-worm and tomato fruit-worm.—Corn ergot. See *ergot1.—Corn flour. (a) Corn meal. (b) Same as corn-starch, 2.

The only form of corn as human food at all known abroad is corn starch, which is sold principally in the British Isles under the name of corn flour.

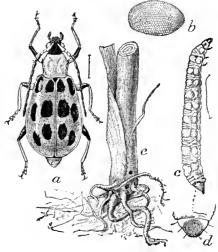
U. S. Dept. Agr., Use of Maize in Europe, 1891, p. 5.

abroad is corn starch, which is sold principally in the British Isles under the name of corn flour.

U. S. Dept. Agr., Use of Maize in Europe, 1891, p. 5.

(c) A term applied to flour made from rice or other grain. [Eng.] (d) A recent product which consists of the finely ground grain of Indian corn exclusive of the chit or germ. It is finer than corn meal, and being nearly free from oil is of better keeping quality; but it has lost the corn flavor and lacks gluten, and hence must be used in mixture with strong wheat flour.—Corn meal, the grain of Indian corn ground to varying degrees of fineness: used for making mush and the different kinds of corn bread, and also for feeding animals. See *corn four and samp.—Corn oil, an oil derived from the germ of the grain of maize as a by-product in the manufacture of glucose. It is used to some extent in soap-making and as a substitute for linseed-oil in painting, and, having a fine flavor, it is often mixed with olive-oil, as also sometimes with coditive oil. It is also vulcantized and mixed with rubber.—Corn plant-lonse, an American aphidid, Aphis maidi-radicis, which lives for at least a part of its existence on the roots of Indian corn.—Corn-root-lonse, an American aphidid, Aphis maidi-radicis, which lives for at least a part of its existence on the roots of Indian corn.—Corn-root-wob-worm, the larva of an American crambid moth. Crambus zeellus, which feeds on the roots of maize and forms a webbed cocoon near the base of the stalk.—Corn-seed maggot, the larva of an American crambid moth. Crambus zeellus, which larva of an American anthonyild fly, Peronyal rusciceps, which damagesseel-corn integround.—Corn-stalk maggot, the larva of an American anthonyild fly, Peronyal rusciceps, which dimagesseed-corn integround.—Corn-stalk maggot, the larva of an American anthonyild fly, Chatopsis area, which lives in a cavity formed within the stems of maize, where, oats, and sugar-cane.—Corn trash, the husks or shucks of Indian corn. See *maize-fload in a may other sort, sometimes

corn root-worm, the larva of an American chrysome-lid beetle, Diabrotica duadecimpunctata, also known as the 12-spotted cucumber-beetle or 12-spotted Diabrotica.



Southern-Corn Root-worm (Diabrotica 12-punctata), a, beetle; b, egg; c, larva; d, anal segment of larva; e, work of larva at base of cornstalk. All much enlarged except e, which is reduced. (After Riley, U. S. D. A.)

Sugar corn. (a) A variety of sweet corn. See ★maize. (b) A brand of corn-feed made up mostly of the hulls and germs of maize-kernels.—Tassel corn, a sport, produced by various types of maize, in which kernels are borne on the tassel.—White Egyptian corn. Same as ★chicken-corn.—Yankee corn, fiut corn: so called in the West because grown chiefly in New England.

ear or pod; kern: said of cereals or pulse. N. E. D. corn1, v. i. 2. To form corns or seeds in the

corn², n.—Soft corn, a corn formed between the toes and constantly macerated by the perspiration of the foot. Corn. An abbreviation of Cornish and of Cornwall.

cornacuspongian (kôr-nak-ū-spon'ji-an), a. and n. I. a. Having the characteristics of the Cornacuspongiæ.

II. n. An individual of the order Cornacuspongiæ.

corn-aphis (kôrn'ā"fis), n. An American aphidid, Aphis maidis, found commonly on corn-aphis Indian corn.

corn-binder (kôrn'bīn"der), n. In agri., a harvesting-machine for cutting, gathering, and binding together the stalks of Indian



 α , guides for bringing the stalks to the knife (not shown); δ , binding-mechanism; ϵ , bundle of stalks ready to be discharged.

COTH. It is a horse-power machine operated by one man. One type has two long guide-bars designed to collect all the stalks of one row of corn and guide them to a short reciprocating knife placed at the throat between the bars. The machine is driven along the row, and gathers, entry and hends down the stalks into a compact bundle, which is bound and discharged behind the machine or held mitil a number of bundles accumulate, when all may be discharged at once for convenience in shocking. See mover and *corn-shocker.

corn-boggard (kôrn'bog"ärd), n. A scarecrow set up in a corn-field.

As he sat in his shirt-sleeves and stocking-feet, . was more than usually grotesque, 'As slamp an wobbly as an owd corn-boygart,' so his neighbors described him.

Mrs. Humphry Ward, David Grieve, i. 4.

corn-brake (kôrn'brāk), n. A plantation of maize. [U. S.] corn-broom (kôrn'bröm), n. A broom made

from the branching panicles of broom-corn.

corn-crowfoot (kôrn'krō"fut), n. See *crow-

corn-doctor (kôrn'dok-tor), n. A chiropodist. [Colloq.]

COTICA, N.—Conical cornea, a conical anterior bulg-ing of the cornea. Also called keratoconus and staphy-toma corneæ. See staphytoma.—Cornea globosa. Same as buphthalmos.—Hernia of the cornea. Same as ceratocele.—Sugar-loaf cornea. Same as buphthalmos.

Corneal astigmatism. See *ustigmatism. cornein (kôr nē-in), n. [L. corneus, horny, + -in2.] 1. A nitrogenous compound which forms the chief organic portion of the eorals Antipathes and Goryonia. It is related to spongin, fibroin, and seriein.—2. An igneous rock of a eompact, tough, and horn-like texture. Dana refers to this name as an equivalent of aphanite. It was applied by De la Bèche to a variety of trap-rock found in Pembrokeshire. Also corneine.

COTNEL, n.—Silky cornel, Cornus Amonum, an American shrub from 3 to 10 feet high, with ovate, silky pubescent leaves and purplish twigs, found along streams from New Brunswick to Florida and westward to the Dakotas and Texas. Also called swamp-dogwood and kinnikinick.

corneoblepharon (kôr nệ-ộ-blef a-ron), n. NL. corneu, eornea, + Gr. βλέφαρον, eyelid. The form does not exactly express the notion defined.] Adhesion between the cornea and the eyelid.

corneo-iritis (kôr ne-ō-i-ri'tis), n. [NL., < cornea + iritis.] Inflammation of the cornea and the iris. Lancet, May 30, 1903, p. 1516, corneal (kôr) (kôr)

corneole (kôr'nē-ōl), n. [NL. corneola, dim. of cornea, cornea.] The anterior transparent part of each of the segments of the compound

eye of insects. Syd. Sov. Lex. corner, n. 10. Specifically, a projecting angle in the side of an instrument of the viol family. In instruments of the true violin group there are two corners on each side, between which is the coneave indentation called the waist. See **block1, 19.—11. In math., a vertex or summit of a polyhedron.—12. In field hockey, a free hit against the defending side, made within three against the defending side, made within three feet of the nearest corner flag.—Amen corner. See *amen.—Corner binds, in forestry, four stout chains, used on logging-sleds, to bind the two outside logs of the lower tier to the hunks and thus give a firm bottom to the lond. [Newfoundland].—Corner quadrat. See *yquadrat.—Dead corner, a manufacturer's name for any corner or angle in the lead chambers used in making sulphuric acid, in which the gases stagnate or fail to be mixed as they should be by motion.—Round the corner, in poker, a straight which is made by counting the ace as a connecting card between the top and the bottom of a suit, such as QKA 2 3. When played it outranks the lowest possible straight. straight.

corner, v. t. 3. In making turpentine, to cut out a triangular shallow chip above each of the two **cornometer** (kôr-nom'e-tèr), n. [E. $corn^1$ + corners of the box, to prepare the tree for Gr. $\mu\bar{e}\tau\rho\sigma\nu$, measure.] See *qrain-tester. a triangular shanow compare the tree for chipping and to direct the flow of resin into the box. [Southern U. S.]—4. To form a corner the in (a stock or commodity). See to corner the market.

corner-block (kôr'ner-blok"), n. In violin-torner-block (kôr'ner-blok"), n. In violin-torner-block (kôr'ner-blok"), n. That part of a produce axchange where the business in Indian corn is

corner-block (kôr'ner-blok"), n. In violin-making, see *block1, 19.

corner-punch (kôr'nėr-punch"), n. An angular

punch used for cleaning out corners.

corner-valve (kôr'nér-valv"), n. A little-used form of small valve in which the spindle and valve are on one side, at right angles to the plane of the two outlets. The angle-valve, in which the spindle is in the plane of the two outlets and in line with one of them, is more common.

cornet1, n. 8. In bot., a hollow, horn-like

growth or projection; a hood. corneta (kor-na'ta), n. [Sp.] Same as *cornet-fish

cornet-fish (kôr'net-fish"), n. A trumpet-fish, Fistularia depressa, widely distributed through the Pacific.

cornette-pot (kôr-net'pot), n. A pot in which the cornette of gold undergoes one of the steps

of the assaying process. corneum (kôr nệ-um), n. corneum (kor'ne-um), n. [NL., neut. of L. corneus, horny: see corneu.] The horny layer

of the skin.

corn-feed (kôrn'fēd), n. One of a class of commercial feeds for stock, composed chiefly of the waste from the manufacture of glucose and

corn-flag, n. 2. The yellow flag or flower-deluce, Iris pseudaeorus, now naturalized in the eastern United States and common in cultivation.

Corn-flower decoration. See *decoration. corn-fly, n .- Ribbon-footed corn-fly. Same as corn-

corn-fodder (kôrn'fod"er), n. The maize-plant as used for feeding stock; specifically, the whole maize-plant, including the ears, field-eured and used for feeding cattle. It is usually put up in shocks and is known on the farm as 'shock eorn.' Contrasted with silage and *stover1. Compare fodder and fod-

corn-grinder (kôrn'grīn"der), n. A muller for

grinding corn on the metate.

corn-harvester (kôrn'hār"ves-têr), n. A machine used in harvesting maize. See *cornshocker.

cornice (kôr'nis), v. t. To furnish or finish with a cornice.

cornice-brake (kôr'nis-brāk), n. See *brake3,

cornice-machine (kôr' nis-ma-shēn "), n. machine for working copper or galvanized iron to form the moldings and decorations of sheet-metal cornices for the exterior of build-

corniculiferous (kôr-nik"ū-lif'e-rus), a. In bot., bearing little horns or projections; corniculate.

cornification, u. 2. The growing of horns.

The habit of cornification is more likely to have been formed nearer home than in the interior of Africa.

Southey, Doctor, cxxviii.

Corning² (kôr'ning), n. [Named for Erastus Corning of Albany, New York, the owner of the first vehicle of this kind.] A top-buggy with deep sides and the part forward of the seat eut down square.

seat cut down square.

Cornish, a.—Cornish pump, any pump worked by a Cornish engine-cylinder. As the Cornish engine had no connecting-rod and crank-device, the length of its stroke was not constant; but no acceleration of the water-column was caused by the harmonic motion of the piston as the crank revolved.—Cornish rolls, crushing or pulverizing rolls used chiefly for ores or easily broken materials.

Corn-jobber (kôrn job*er), n. A jobber who deels in conv., a grain-dealer.

deals in eorn; a grain-dealer.
corn-mildew (kôrn'mil'dū), n. The rust of wheat caused by the fungus Puccinia graminis. [Eng.]

[Eng.] corno (kôr'nō). n. [lt., < L. cornu, horn: see corn², horn.] In music, a horn. When used absolutely, it now usually designates the French or orchestral horn (see horn); but the corno inglese, or English horn, is a tenor oboe (see oboe), and the corno di bassetto, or basset-horn, is a tenor clarinet. See *corno di caccia.

corno di bassetto. 2. In organ-building, a cost toned scale stop.

soft-toned reed-stop.

corno di caccia (kôr'nō dē küch' ä). [It., 'hunting-horn.'] A horn originally used in hunting and gradually developed into the modern French or orchestral horn. See horn, 4 (c). corno-flute (kôr'nō flöt). In oryan-building, a soft stop of the flute class.

earried on. [U.S.] corn-pith (kôrn'pith), n. The pith of the stalk of maize, used in the manufacture of eellulose and for a packing between the inner and outer shells of war-ships. It swells greatly when wet and is thus suited to close apertures antomatically.

corn-rail (kôrn'rāl), n. A name for the corn-

corn-salt (worn rat), n. A name for the corn-erake. Crex pratensis.

corn-riddle (kôrn'rid'dl), n. A corn-sieve.

corn-salve (kôrn'säv), n. An ointment or

salve, generally containing salicylic acid and eannabis indiea, applied to eorns for their removal.

corn-sheller, n. corn-sheller, n. Corn-shellers range in capacity from 30 bushels an hour in hand-machines to 250 bushels an hour in power-machines. Some power-machines clean the shelled corn by a blast from a fan and elevate it to a wagon-box or grain-car, and deliver the cobs to an elevator which stacks them at a distance from the machine. Others deliver the clean corn to sacks. Power-machines are also provided with long conveyers for collecting the unshelled corn and conveying it to the sheller. All, both stationary and portable, can be operated by belting or gearing from a horse-power machine placed in the field near by, or by a belt from a portable motor.—Shnck corn-sheller, a machine for removing the husks from the cob, shelling and cleaning the corn, delivering it to a sacking-machine, and stacking the husks and cobs. Corn-shellers range in capacity from

corn-shocker (kôrn'shok"er), n. In ugri., a horse-power machine for cutting standing Indian corn, gathering and binding the stalks into shocks, and depositing the shocks in an upright position upon the ground; a cornharvester. It consists of a strong platform, mounted on wheels and fitted with machinery for cutting, gather-ing, hunching, and binding the stalks into an upright shock that stands upon the platform. Attached to the platform is a crane which, when the shock is bound and

tied, can be used to lift it, swing it to one side, set it upon the ground, release the lifting apparatus, and return it to its position ready to lift the next shock. The machine is drawn by two horses and operated by one man, the forward movement of the machine, as in other harvesters, serving to move all the machine; except the crane, which is operated by hand. If desired, the shock when gathered can be transported on the machine to another place to leave the field clear for plowing.

corn-shuck (kôrn'shuk), n. One of the coarse leaves which inclose an ear of Indian corn, corn-sieve (kôrn'siv), n. A sieve for cleaning

corn-sieve (kôrn'siv), u. A sieve for cleaning corn or grain.

corn-silk (kôrn'silk), n. The styles of Indian eorn: same as silk, 4. Corn-silk is officially recognized under the pharmaeopocial name zea as a mild stimulant diuretic.

corn-spurry (kôrn'spur n i), n. See $spurry^2$. corn-stalk (kôrn'stâk), n. 1. The stem or enlm of Indian corn, without the ears, leaves, or tassel, or with all of these except the ears. Compare **storer1. The corn-stalk consists of an outer-shell surrounding the pith. After removal of the latter the shell is now sometimes ground into a meal equal to good hay for feeding stock.

2. A tall, slender person: applied as a

2. A tall, slender person: applied as a nickname to those whites who have been born and bred in the Australian colonies, and especially in New South Wales.

The Australian ladies may compete for personal beauty and elegance with any European, although satirized as corn stalks from the slenderness of their form.

G. Bennett, Wanderings in N. S. Wales, I. 341.

Corn-stalk disease, a peculiar fatal maindy of cattle in the western United States, the eause of which is little understood. It frequently follows the eating of dried standing corn-stalks, hence the name.

standing corn-stalks, hence the name.

The cornstalk disease, which extends northward into a few localities in the northern stock ranges, especially in South Dakota, is a strange, little-understood malady of eattle, due to the eating of dry cornstalks in the field after harvest. As corn of itself is not poisonous, the real cause of the malady has been variously attributed to bacteria, to parasitic fungi, and to saltpeter, which may, under different conditions, he present on the corn, or simply to malnutrition or impaction of the alimentary canal. Yearbook U. S. Dept. Agr., 1900, p. 307.

Corn-stalk fiddle, a musical toy made from a nearly ripe stalk of corn by silitting from the outer portion of the stalk, just above a joint, two narrow strips (without detaching the ends), raising them, and inserting under them thin silivers of wood. The slivers form bridges which support and stretch the fibers and make it possible to use them in the manner of a violin. [U. S.]

Cornstalk-weed (kôrn 'stâk - wēd), n. The Shining pondweed, Potamogeton lucens, the

shining pondweed, *Potamogeton lucens*, the long peduneles of which, surmounted by dense spikes, rising out of the water, somewhat resemble stalks of Indian corn. corn-tassel (kôrn 'tas "1), n. The tassel or

staminate inflorescence at the top of a stalk of Indian eorn.

of Indian eorn.

Cornu, n.—Cornua of the spinal cord, collections of gray matter seen on transverse section of the spinal cord, passing, two anteriorly and two posteriorly, from the central commissine. See cut under spinal cord.—Cornu cutaneum, a horny outgrowth from the skin.—Cornu majus. Same as ceratohyal; one of the hyoid bones of fishes.—Cornu occipitale, the posterior horn of each lateral ventricle of the brain.—Ethmoidal cornu, the middle turbinated body.—Middle cornu. (a) Same as ethmoidal *cornu. (b) The descending horn of each lateral ventricle of the brain.

Cornuate (kôr nū-āt), a. [L. cornualus, poetic variant of cornutus, horned.] Same as cornute. 3.

cornucopia, n. 4. An extension of the choroid plexus into each lateral recess of the fourth ventriele of the brain.

cornucopiate (kor-nū-kō'pē-āt), a. [cornuco-pia + -ate².] Having the shape of a cornupia + -atc².] Having (copia, as certain shells.

cornule (kôr'nūl), n. [LL. cornulum, dim. of L. cornu, horn.] A horny grinding-plate, with the function of a tooth.

Cornu's spiral. See *spiral. Cornute leaf. See *leaf.

cornutin (kôr-nữ/tin), n. [L. cornutus, horned, +-in².] A poisonous alkaloid, of nuknown composition and somewhat doubtful identity, found in ergot.

The recent announcement by Kobert (C. C. 1885, 66) of three new compounds in ergot, ergotic and sphacelic acids and cornutine, is questioned by Tarret (J. Ph. 1885, 11,300).

Thorpe, Dict. Applied Chem., 11, 13.

Cornwall heave. See *heave. Cornwallis (kôrn-wol'is), n. The anniversary of the capture of General Cornwallis at Yorktown (Oct. 19, 1781), long observed as a holiday with parades, sham battles, etc.

I hait the Site of a feller with a muskit as I du pizn.
But there is fun to a cornwallis I ain't agoin' to deny it.

Lowell, Eiglow Papers, 1st ser., ii.

coroa (kō-rō'ä), n. [Pg., a crown: see crown.] A gold coin of Portugal, equal to 5,000 reis, and equivalent to about \$5.40.

corodiastasis (kor ō-dī-as' ta-sis), n; pl. corodiastases (-sez). [NL, (at first erroneously core-), $\langle \text{Gr. } κόρη, \text{ pupil of the eye,} + διάστασις, separation.}]$ Dilatation of the pupil. Also corodiastole

corodiastole (kor "ō-dī-as 'tō-lē), u. tirst erroneously core-), (Gr. κόρη, pupil of the eye, + διαστολή, separation, dilatation.] Same as *corodiastasis.

corol., coroll. Abbreviations of corollary. corollar (kō-rol'ār) a. [NL. corollaris, < corolla, eorolla.] Same as corollate.

corollarial (kor-o-lā'ri-al), a. [LL. corollarium. corollary, +-al1.] Of the character of a corollary.

corollary, u. II. a. Same as *corollar and eorol-

corollitic (kor-ē-lit'ik), a. [Also erroneously earolitie, earolytic; (F. corollitique, said to be formed (erroneously) from L. corolla, a wreath, garland: see corolla.] Having a sculptured garland wound around its shaft, generally in a spiral. [Rare.]

corollula (kō-rol'n-lä). n.; pl. corollulæ (-lē). [NL., dim. of corolla: see corolla.] A small or minute corolla, especially the corolla of a floret in composite plants.

corollule (kor'o-lul), n. Same as *corollula. corometer (ko-rom'e-ter), n. [First erroneously coreometer; \langle Gr. $\kappa\delta\rho\eta$, the pupil of the eye, + $\mu\epsilon\tau\rho\sigma$, measure.] An instrument for measuring the width of the pupil.

corona, n. 5. (h) In zoöl., the upper, branched portion of a crinoid, as distinguised from the stem or columna. (i) See the extract.

In Melo and some other genera the spines project upwards and are generally nuclosed on the apertural side. This produces the spiral corma, so striking a feature in some shells. Amer. Nat., Dec., 1902, p. 932.

6. (d) A eucullus or hood. (e) The ring of primary wood in the medullary sheath.—7. The solar corona is very complex. There is, first, a faintly luminous haze, not very high near the poles of the sun, while it extends at times to a distance of five or six million miles from the solar equator and the sun-spot zones, gradually fading to invisibility. Its spectrum is mainly continuous, sometimes, however, showing faintly a few of the most conspicuous Fraunborer lines, which indicates that, while probably composed of incandescent particles, it also reflects sunlight. Next there is a gaseous envelop, less extensive and interpenetrating the haze, and composed of a substance, as yet unidentified but provisionally called coronium, of extreme tennity and shown to be gaseous by its spectrum of bright lines. Of these lines the most conspicuous by far is in the green, and this was for a long time erroneously supposed to coincide with a line known as Kirchhoff's 1474 (A, 5317), which is prominent in the chromosphere spectrum; recently, however, it has been shown to be slightly more refraugible (A, 5303). A number of other coronium lines are revealed by photography in the violet and ultra-violet. Thirdly, there are the sharply defined streamers which mainly emanate from rings surrounding the poles and near the equator, but also less abundantly from the whole aun-spot region. They curve from both sides toward the spot-zones, and in their arrangement so closely resemble that of the streamers of (d) A eucullus or hood. (e) The ring of



The Corona of 1901, May 18. From a photograph taken 144 seconds after the beginning of totality

the terrestrial aurora as strongly to suggest the idea that they are formed and controlled by similar electric and magnetic forces acting in and around the sun. Their composition is doubtful, because it has not yet been found possible to isolate their spectrum. There is a distinct sympathy between all these elements of the corona and the sun-apots. At the time of a ann-spot minimum the wing-like extensions are longest, the coronium spectrum faintest, and the polar streamers especially conspicuous: while at a sun-spot maximum the corona is brighter but smaller, and is markedly quadrangular in form, the greatest extensions lying above the middle of the spot-zones. The photographs of any particular eclipse also show many other interrelations between spots and prominences and the overlying portions of the corona. It is hardly necessary to add that the features of the corona continually

change, though not with such rapidity as in the case of the chromosphere and prominences. In addition to the true corona, the observer sees overlying the rest the aërial illumination from the air between him and the eclipsed sun. This air, deeply immersed in the lunar shadow, receives no light from the photosphere, but only from the corona and the much more brilliant prominences, so that the bright lines of hydrogen, helium, and calcium are recognizable in its spectrum. This for a time led to the wrong conclusion that the chromospheric gases contributed to the coronal atmosphere, an inference refuted by the fact that at times these chromospheric lines extend into, and even clear across, the dark disk of the moon. This aërial illumination is obviously no part of the true solar corona. solar corona.

11. Same as *aurora, 5.-12. A phenomenon seen when an artificial cloud is viewed by transmitted light; an artificial halo.

It is only when few nuclei are present, and the dropa formed on expansion thus comparatively large, that normal coronas, as Barus calls then, are seen surrounding a luminous source viewed through the cloud. It is only to Immions source viewed through the cloud. It is only to such coronas that the ordinary theory of the corona applies; the gorgeous colour phenomena observed when the drops are very small, numerous and uniform in size are much more difficult to interpret.

Nature, Oct. 8, 1903, p. 549.

Diffraction corona. See *diffraction. coronade (kor-ō-nād'), n. [Fencers' F. coronade, < L. corona, erown, + -ade¹.] In fencing, a flourish of the saber round the head the instant before delivering a blow, to gain vigor

in stroke and also trouble the opponent. coronadite (kor-ō-nii'dit), n. [Coronado (1500?-1543?), the пате of an early explorer of the region now including Arizona, + -ile².] A mineral of somewhat uncertain composition, but consisting essentially of lead manganite (PbMn₃O₇). It occurs in black massive forms with fibrous structure in the Clifton-Morenci

copper district in Arizona. coronado (kō-rō-nā'dō) n. [Sp., < L. coronatus, crowned: see coronate, a.] Same as coronado (kō-rō-nä'dō) n.

Coronary artery of the stomach, an artery which comes from the celiac axis and passes along the lesser envature of the stomach.—Coronary sulcus. See

coronet1, n. 7. In bot., same as corona, especially in a diminutive sense; also formerly applied to a whorl of small flowers, as in some labiate plants, and to small heads of umbelliferous and composite plants.—8. The bur at the base of an antler.

coronet-boot (kor'ō-net-böt"), n. A horse-boot designed to protect the coronet from injury when the horse is trotting.

Coronillin (kor-ō-nil'in), n. [Coronilla + -in².]

A yellowish powder, C₇H₁₂O₅, of glucosidal nature, contained in the seeds of various

species of Coronilla, particularly C. scorpioides. It acts promptly on the heart like digitalis. coronillo (kō-rō-nēl'yō), n. [Sp., dim. of corona, a crown.] A large leguminous tree, Gledischia amorphoides, of northern Argentina, attsenta amorphotaes, or northern Argentina, whose trunk from the ground up to the height corporation, n.—Bureau of Corporations. See of a man is thickly beset with strong, much—*hureau.—Religious corporationlaw. See *religious. branched thorns from 5 to 8 inches long. Its corporealness (kôr-pō 'yō-al-nes), n. Corporeal branched thorns from 5 to 8 inches long. handsome veined wood is used in building and for furniture and cabinet-work. Its bark contains saponin and is used like soap, under the name of quillay.

coronion (ko-rō ni-on), n. [NL., ζ Gr. κορώνιος, with erumpled horns, (κορώνη, a curved point or tip: see corona.] In craniom., the point of the coronoid process of the lower jaw.

coronium (ko-rō'ni-um), n. [NL., < L. eorona: see corona.] A gaseous element, unidentified as yet and thus far detected only in the solar COTORA. It is supposed to be lighter and more diffusi-hle than hydrogen. Some years ago it was reported as present in volcanic gases at Pozzuoli, but probably by mistake; the observation has never been verified.

coronogram (kō-rō'nō-gram), n. [NL. corona, corona, + Gr. γράμμα, anything written.] photograph of the solar corona.

coronograph (kō-rō'nō-graf), n. coronograph (ko-ro'no-graf), n. [NL. corona, corona, + Gr. $\gamma \rho \acute{a} \phi \epsilon \iota \nu$, write.] An instrument, first suggested and tried by Huggins for photographing the sun's corona during an eclipse, or in full sunlight, if possible. The attempts to photograph the corona in full sunlight were unsuccessful, and the name is now applied to cameras designed for photographing the corona in total eclipses, the instrument being designed to seeme the greatest brillianee of the image, with less regard to definition of fine details.

They included two ecclostats and two coronagraphs, one of the latter being of 4 inches aperture and 19 feet 4 inches focal length, the other of 6 inches aperture and 7 feet 10½ inches focal length.

**Nature*, Dec. 17, 1903, p. 160.

coronographic (kō-rō-nō-graf'ik), a. Pertaining to or produced by a coronograph.

coronoid. I. a.—Coronoid index. See *index.

II. n. One of the component bones of the jaw in birds and reptiles, lying on the inner face of the dentary and back of the splenial.

In Eudynamys, Cuculus, and Guira the rami are pierced by a long lateral vacuity, which is partly closed by a long and slender coronoid. In Coua the coronoid terminates midway across this vacuity; whilst in Taccocoua and Centropus this vacuity is quite open, the coronoid forming its vanted border. its ventral border.

Proc. Zool. Soc. London, 1903, p. 267.

coronoidal (kor-ō-noi'dal), a. Resembling the solar corona in appearance; imitating corona. Coronoidal tube, a vacum-tube with a large bulb, around which, under the influence of a powerful magnetic field, strong electric discharges cause the emis-sion of luminous streamers which strikingly resemble the streamers of the solar corona in appearance and arrangement.

Coronopus (kō-ron'ō-pus), n. [NL. (Haller, 1768, adopted from Ruellius, 1536), ⟨ Gr. κορωνόπους, erowfoot, Ptantago Coronopus, ⟨ κορώνη, erow, + πούς, foot.] A genus of dicotyledonous plants of the family Brassicaceæ. See Senebiera.

(b) The little calyx-like body coronule. n. which crowns the nucule in the genus Chara. (c) The crown of spines which sometimes oc-

curs at the apex of the frustule in diatoms. coroplastic (kor-ō-plas'tik), a. [coroplast-y+ic.] 1. Relating to coroplasty.—2. In Gr. antiq., relating to the manufacture of figu-See coroplast.

coroplasty (kor δ-plas-ti), n. [Gr. κόρη, pupil of the eye, $+\pi \lambda a \sigma \tau \delta c$, $<\pi \lambda \dot{a} \sigma \sigma \varepsilon v$, form.] Operative treatment for the restoration of the irrs. matus, erowned: see coronae, α. Δ. A. In bot., pertaining to a corona in any of the botanical senses of that word.

— Coronal poles, sulcus. See *pole2, *sulcus. coronaled, coronaled (kor o-nald), a. [coronal + -ed.] Adorned or decorated with a coronal erogarization of the instance corotomy (kō-rot'ō-mi), n. [Gr. κόρη, pupil of the eye, + -τομία, ⟨ ταμεῖν, cut.] The proper form of coretomy.

coronal or garland: as, coronalled panels.

An old and still dialectal form of corpse.

Elessed is the corp that the rain rsins on.

Scotch Proverb.

An abbreviation of corporal2. corp. corporal², n. 2. Semotilus corporalis, a cyprinoid fish found in fresh waters east of the noid fish found in fresh waters east of the Alleghanies.—Corporal of the field, a superior officer of the army in the sixteenth and seventeenth centuries, who acted as an assistant or as a kind of aide-de-camp to the sergeant-major. N. E. D.—Little Corporal, (a) A translation of the F. le petit Caporal, a popular nickname of Napoleon I. (b) [l. c.] Three-ball billiards with the addition of a wooden pin which spots wherever it falls on the playing-surface of the table and counts if knocked down by the cue-ball sfare this has hit another ball.

corporalship (kôr 'pō-ral-ship), n. 1. The rank or position of a corporal: as, to work one's way up from a corporalship to a general-ship.—2†. A squad of soldiers under the charge of a corporal.

Every company was divided into three corporalships, of which each was the peculiar care of one of the three corporals, and of one of the three officers.

J. W. Fortescue, Hist. Brit. Army, I. 153.

state or quality. Ruskin.

corps2, n. 5. One of the several bodies of officers corps., N. D. Cheof the several bodies of officers charged with special administrative duties in the army or navy. In the United States navy the corps are as follows: medical corps, in charge of the sanitary and medical service; pay corps, in charge of supplies and stores, commissary, accounts, disbursements of money; corps of chaplains; corps of naval constructors, in charge of building and repairs of vessels; corps of professors of mathematics, in charge of work at the Naval Observatory and instruction at the Naval Academy; and corps of civil engineers, in charge of construction of dry-docks, buildings, and civil-engineering work generally at navy-yards.—Army service corps, the corps responsible for the transportation and supply of the British army. It is under the control of the quartermaster-general.—Corps d'élite [F.], a body of picked men.—General staff corps, in the United States army, a body of officers charged with the organization, distribution, equipment, and training of the military forces. It proposes legislative action, revises estimates for appropriations, exercises anpervision over inspections and military education, prepares plans for national defense and mobilization, collects military information, and records the military operations of the armies of the United States.—Staff corps, one of the corps of the staff of the United States army, as the corps of engineers.

Corps-a-corps (kör -ä-kör'). [F., 'body to holdy'] In feweing the advence of one fencer charged with special administrative duties in

corps-à-corps (kor-ä-kor'). [F., 'body to body.'] In fencing, the advance of one fencer on another to close quarters, thus destroying In fencing, the advance of one fencer the elegance of the passage and causing wild

a fencer who persists in it.
corpse (kôrps), v. t. 1. To make a corpse of;
nurder. [Low slang.]—2. To 'put out' or
confuse (an actor) in speaking his lines or to
spoil (his 'business') by some blunder or

spoil (his 'business') by some blunder or mistake. [Theatrical slang.]

corpus, n. (d) Principal, as opposed to interest or income: as, these payments should be made out of corpus, and not out of income. (e) In alg., a manifold, such that its elements are representable by symbols which can be combined according to the laws of ordinary algebra, every algebraic expression obtained by combining a finite number of symbols by means of a finite chain of rational operations (+, -, ×, /) being capable of interpretation as representing a definite element of the manifold, with the single reservation that division by zero is inadmissible.—Corpora arenacea, the sand-like grains found in a psammoma and sometimes isolated in the dura mater.—Corpora fibrosa, small fibrous nodules sometimes present in the ovaries: probably modified corpora lutea.—Corpora flava, bodies found in the central nervous system and elsewhere, resembling somewhat corpora amylacea, but not yielding the amyloid reaction with the aniline dyes. They are waxy or sandy in consistence and are supposed to arise from the direct transformation of nerve-cells.—Corpora Malpighiana. Same as Malpighian bodies.—Corpora Mapighiana. Same as Malpighian bodies.—Corpora Morgagni (which see, under hydatid).—Corpora Santoriniana. Same as cornicula laryngis (which see, under corniculum).—Corpora versicolorata, corpora amylacea: so called because they take a variegated tint when treated with iodine solutions.—Corpora Wolffiana. Same as Wolffian bodies.—Corpus interpedunculare, a small ody forming a portion of the floor of the third ventricle. It lies just candal to the Infundibulum of the hypophysis and in front of the pons. In most vertebrates there is but one corpus mammillare, but in man there are two, connected together across the median line. The white matter of these bodies is formed by the anterior pillars of the fornix, hence they have also been named bulbs of the fornix hence they have also been named bulbs of the fornix the bodie of the firm. It is well developed in the bone in the lower jaw of teleost fishes which carries the teeth.—Corpus mucosum. Same as rete mucosum. Corpus nigrum, a pigmented prominence or body at the edge of the iris. It is well developed in the horse and other Equidæ.—Corpus pampiniforme. Same as pampiniform plexus (which see, under pampiniform)—Corpus snbthalamicum, a stratum of gray matter in the ventral portion of the thalamus, containing numerous nerve-cells and a plexus of fine medullated fibers. It is lens-shaped in section and has an inclosing envelope of white substance. This body or stratum is disrelation to the state of the st

corpuscle, n. 5. In elect., a body smaller than an atom, assumed to explain the phenomena of electric discharges in gases, and of radioactivity.—Cancroid corpuscies. Same as *cancernests.—Chlorophyl corpuscie. See *chlorophyl.

Krause's corpuscie or end-bulb, the expanded bulbous extremity of a terminal nerve-twig, present in the conjunctiva and elsewhere.—Miescher's corpuscie, an conjunctiva and elsewhere.— Miescher's corpuscle, an elongated spindle-shaped, parasitle protozoan (Sarce-cystis miescher') sometimes found embedded in the muscle-fibers of mammals. Also called Rainey's corpuscle.—Phantom or shadow corpuscle, a decolorized red blood-corpuscle.— Rainey's corpuscles, same as Miescher's *corpuscle.— Ruifini corpuscles, nerve-endings in the skin which have an arborescent form and are inclosed in connective tissue instead of epithelium. There is no capsule present, as in the Paclinian corpuscle.—Third accounted a bayer children.—Trapho's corpuscles deis no capsule present, as in the Pacinian corpuscle.—Third corpuscle, a hematohlast.—Tranbe's corpuscles, decolorized red blood-corpuscles.—Washed corpuscles, in experiments dealing with hemolytic problems, the isolated red blood-corpuscles of an animal, which have been washed free from contaminating material with 0.8 per cent. saline solution, and separated by centrifugation. Corpuscular temperature, in phys. chem., a term used by J. J. Thomson to denote the energy of supposed corpuscular motions going on within the atom. Nature, May 26, 1904, p. 74.

corpusculiferous (kôr-pus-kṇ-lif'er-us), a. [L. corpusculum, corpuscle, + ferre, bear.] Bearing corpuscles. Lindley.
corrade, v. t. 2. In gcol., to abrade and remove

(rock), as by running streams charged with grit. This portion of the tract was corraded into a labyrinth of canyons, among which the Grand Canyon of the Colorado is most notable.

Smithsonian Rep., 1892, p. 21.

corral, n. 4. In Florida and the West Indies, a pen near the shore where sponges are macerated in the course of cleaning them for market. Sometimes colloquially contracted to crawl. See kraal.

rock fragments moved by wind or water.

Dana. Manual of Geol., p. 168.

correality¹ (kō-rĕ-al'i-ti), n. [cor- + reality.]

Correlative or equal reality. Sir W. Hamil-

correality² (kō·rē-al'i-ti), n. [correal + -ity.] In Rom. law, the condition of being correal. See correal obligations (under correal).

hitting. It is discouraged on the fencing-floor; in fencing for points the master of bouts warns or disqualifies a fencer who persists in it.

corpse (kôrps), v. t. 1. To make a corpse of; murder. [Low slang.]—2. To 'put out' or confuse (an actor) in speaking his lines or to spoil (his 'business') by some blunder or mistake. [Theatrical slang.]

corpus, n. (d) Principal, as opposed to interest or income: as, these payments should be made out of corpus, and not out of income. (e) In alg., a manifold, such that its elements are representable by symbols which can be combined according to the laws of ordinary algebra, every algebraic expression obtained by combining a finite number of symbols by means of a finite chain of rational operations (+, -, ×, /) being capable of interpretation as representing a definite element of the manifold, with the single reservation that division by zero is inadmissible.—Corpora arenacea, the sand-like grains found in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to in the single reservation that division by zero is inadmissible.—Corpora arenacea, the sand-like grains found in a psannoma and sometimes isolated in the dura to in a psannoma and sometimes isolated in the dura to interest or interesting a ferror interesting a correction. See *correction in the temperature is proportion as *temperature is proportion and a correction in the correction. See *temperature is proportion and in the duration of sunshing in the interes

correctionalist (ko-rek'shon-al-ist), n. One who is in favor of correctional methods in the management of delinquents. Also used ad-

iectively.

Those smitten with the institution craze or with extreme correctionalist views will never solve the problem of criminal youths.

G. S. Hall, Adolescence, I. 407.

correctionally (kg-rek'shon-al-i), adv. By way of correction or reform; as a corrective merely; with reform in view: as, "there are offences only punishable 'correctionally,' not criminally," Gladstone.

correction-house (ko-rek' shon-hous), n. A house of correction (which see, under correction)

correction-proof (ko-rek'shon-prof), a. Proof against correction; incorrigible: as, a stubborn, correction-proof youth. Fuller. correctorial (kor-ek-tō'ri-al), a. [correctory

+-all.] Of or pertaining to a corrector. N. E.D. Correlate strata, equivalent strata; those of the same geological horizon. Dana, Manual of Gool., p. 398. correlation, n. 5. In statistics, the relation of two or more variable quantities. One variable

quantity never determines another completely. For in-stance, in a certain biological type size never completely determines weight, although large individuals are, on the whole, heavy. The values of one variable, which are corre-lated with a certain value of another variable, are called an lated with a certain value of another variable, are called an array. When the variability is normal, the average deviation of the array is equal to the deviation of the correlated measure multiplied by a constant which is called the coefficient of regression. A comparison of the coefficients of regression of the first variable considered as a series of arrays of the accond, and of the second considered as a series of arrays of the first, leads to their reduction to a common coefficient of correlation which equals the average of the products of all the correlated pairs of deviations, divided by the product of their standard or mean square variabilities. The variabilities of the arrays are equal to the variability of each complete series multiplied by V1- r2 where r is the coefficient of correlation.

Correlative. n.—The doctrine of correlations

correlative, n.—The doctrine of correlatives, the doctrine that correlative terms are necessarily thought together, since a correlative implies the relation, the relation the other correlates, and the correlates suggest the correlatives. The phrase was introduced by H. Spencer.

correlativism (ko-rel'a-tiv-izm), n. trine in which the correlative or universally relative nature of ideas and terms forms the basis.

The relativism of Mill, and the universal relativism or correlativism of Laas. Encyc. Brit., XXX. 665.

corresp. An abbreviation of correspondence, corresponding, and correspondent.

corresponding, and correspondent.

corresponding, p. a. 1. (e) In phytogeog.: (1) Derived from and in part taking the place of an older and broader type, broken up in the process of evolution; vicarious or representative in an evolutionary sense. Said of an endemic plant type. Drude, 1890. (2) Ecologically equivalent to another genus or species, therefore alternating with it in similar areas of a habitat. F. E. Clements.—Corresponding points. (b) In physiol., points upon the two retinas whose impressions unite, in the great majority of cases, to give a single, spatially undifferentiated perception.

corridor, n. 4. In car-building, a narrow passage between the side of a sleening—dining.

sage between the side of a sleeping-, dining-, stateroom- or other ear and a partition which incloses the staterooms, lavatory, kitchen, or other apartment.—Corridor train, a train composed of vestibilide ears in which a corridor or passageway extends the whole length of each car. [Eng.]—Corridor carriage, a railway-car through which there is a corridor or passageway. [Eng.]—Corrie-basin (kor'i-bā'sn), n. A nearly level-corrie-basin (kor'i-bā'sn), n. A nearly level-corricipetally (kôr-ti-sip'e-tal-i), adv. In a corticipetal manner. incloses the staterooms, lavatory, kitchen, or

snpposed to have been formed by glacial erosion. J. Geikie, The Great Ice Age, p. 254. corrie-glacier (kor'i-gla"shier), n. A glacier

occupying a cirque or corrie.

Finally, there was the phase of corrie-glaciers, when the glacial detritus was borne for no great distance from the local centres of dispersion. Nature, April 7, 1904, p. 549.

corrie-lake (kor'i-lak), n. A lake occupying the floor of a corrie or cirque. J. Geikie, The Great Ice Age, p. 236.

Corr. Mem. An abbreviation of Correspond-

ing Member.

Corroded crystals. See *crystal.

Erosion, corrosion, and hydrostatic pressure have, by widening the natural fissures of the ground, formed a real sponge of stone.

Geog. Jour. (R. G. S.), X. 502.

Corrosion preparation, an anatomic preparation, as of the injected vessels of a part, made by treating the tissues with a corrosive substance which leaves only the solidi-fied injection material.

corrosion-zone (ke-ro'zhen-zon), n. surrounding certain minerals which, having crystallized out of a molten magma or lava, have afterward been partially reabsorbed by fusion and have thus yielded a surrounding rim of intermediate composition between themselves and the unaffected lava. Geikic, Textbook of Geol., p. 141.

Corrosive glands. See *gland. corrugating-machine (ker' ö - gā - ting - mashēn'), n. A power crimping-machine having large, long crimping-rolls for corrugating large pieces of sheet-metal. See \star crimping-machine, 2. corrugative (kor'ö-gā-tiv), a. Same as corrugate, 2. Treas. Bot.

COTTUGATOT, N.—Corrugator labii inferioris (wrin-kler of the lower lip), fibers from the depressor auguli oris muscle, contraction of which throws the lower lip into folds.

corrupt, a. 5. Legally tainted, as by an act of attainder of treason or felony: said of the blood of one legally attainted. See corruption. 8.

corsair, n. 4. Any pirate-bug of the family Reductide.—Two-spotted corsair, an American reduviid bng Rasahus biguttatus, inhabiting the southern and southwestern United States. It is predutory in its habits and sometimes bites human beings, inflicting a painful wound.

Corsican moss. See moss1. cort. An abbreviation of cortex.

cort. An abbreviation of cortex.
cortex, n, 1. (c) The peridium of fungi.—3.
(c) In Infusoria, the clear, firm outer layer of protoplasm, bearing the cilia or suckers and showing in its simplest structure no further evidence of differentiation, though in some of the more specialized forms 3 distinct layers may be seen. Same as ectoware and ectoplasm.—Dermal cortex, in sponges, a specialized outer layer of mesoderm lying immediately below the superficial ectoderm and usually containing the inner ends of projecting spicules

cortex, in sponges, a speciment of the superficial ectoderm and usually containing the inner ends of projecting spicules and spaces and canals lined by ectoderm.

Corti, cells of. See *cell.

Cortical cataract. See *cataract.—Cortical integument. Same as *cortical layer (b)—Cortical layer.

(b) The integument which invests the bast system of a stem.

corticifugal (kôr-ti-sif'ū-gal), a. [L. cortex (cortic-), bark. + fugere, flee, +-al¹.] Originating in and running from the cortex, or outer layer of the cerebrum or cerebellum, into adjacent regions, such as the pulyinar and quadrigeminal bodies or the various fiber-

There was no clear evidence of corticifugal fibres passing from the angular gyrus to the basal ganglia; but that this gyrus is connected with the pulvinar by corticipetal fibres will be shown in the next section.

Philos. Trans. Roy. Soc. (London), ser. B, 1898, p. 10.

corticifugally (kôr-ti-sif'ũ-gal-i), adv. In a corticifugal manner.

corticipetal (kôr-ti-sip'e-tal), a. [L. cortex (cortic-), bark, + peterc, seek, + -al.] Originating outside of and running into the cere-

corticopeduncular (kôr"ti-kō-pē-dung'kū-lär),
a. [L. cortex, bark, + NL. pedunculus, pedinele.] Relating to the cortex and both pedun-

eles of the brain. cortlandtite (kôrt'lan-dit), n. [Cortlandt town-ship, New York, + -ite².] In petrog., a name given by G. H. Williams (1886) to a coarsegrained rock composed of large crystals of hornblende with abundant inclusions of clivin and pyroxene which mottle the cleavage surfaces of the hornblendes and give the rock a poikilitic fabric: a variety of hornblende

corubin (kō-rö'bin), n. [co(rundum) + ruby, + $-in^2$.] The trade-name of artificial corundum or crystallized alumina, obtained in the aluminothermic processes of Goldschmidt: coryphodon, n. 2. [l. e.] A mammal of the

aluminothermic processes of Goldschmidt: **coryphodon**, n. 2. [l. e.] A mammal of the used as an abrasive. Electrochem. Industry, Oct., 1904, p. 405. **coruco** (kỗ-rỡ'kỗ). n. [Mex. Sp.] The popular name in Mexico and New Mexico of the so-called Mexican chicken-bug, a cimicid, Acanthia inodora, which attacks poultry in those regions.

The abnormal production of the summit of the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u, and u. I a. Pertaining to expect the corypid (kỗr'vid) u. and u. I a. Pertaining to expect the corypid (kỗr'vid) u. and u. I a. Pertaining to expect the corypid (kỗr'vid) u. and u. I a. Pertaining to expect the corypid (kỗr'vid) u. and u. I a. Pertaining to expect the corypid (kỗr'vid) u. and u. I a. Pertaining to expect the corypid (kỗr'vid) u. and u. I a. Pertaining to expect the corypid (kỗr'vid) u. and u. I a. Pertaining to u. I a. Pertaining

corvid (kôr'vid), a, and n. I. a. Pertaining to

or resembling the Corvidæ.

II. n. A crow of the family Corvidæ. corvina, n. (b) Also applied to a large number of other fishes belonging to the family Sciænidæ. corybantian (kor-i-ban'ti-an), a. Of or per-

taining to the corybants or their worship.

corybantiate (kor-i-ban'ti-āt), v. i.; pret. and pp. corybantiated, ppr. corybantiating. [corybantiated, ppr. corybantiating. [corybant + -i + -ate².] To 'earry on' like a frenzied corybant; act like a lunatie.

corybantine (kor-i-ban'tin), a. [corybant + -ine¹.] Of, pertaining to, or resembling the corybants or their rites; corybanting V. F. D.

corybants or their rites; corybantian. N. E. D. corybulbine (kor-i-bul 'bin), n. [Cory(dalis)] (see def.) + L. bulbus, bulb, + -inc².] A light-yellow crystalline monacid alkaloid, C₂₁H₂₅ O4N, found in the roots of Corydalis cava (otherwise Bulbocaphus, also Caphodes, carus). corycavine (kor-i-kav'in), n. [Cory(dalis cava)

(see def.) + ·ine².] A crystalline alkaloid, $C_{23}H_{23}O_6N$, found in the roots of Capnoides cavum (Corydalis cava).

corydalic (kor-i-dal'ik), a. [Corydal - is + -ic.]Derived from corydaline. - Corydalic acid, a name given, through misapprehension, to the acid ammonium salt of metahemipinic acid, C₁₀ H₁₀ O₆, C₁₀H₂O₆NH₄, 3H₂O, obtained by the oxidation of convolution

O obtained by the oxidation of corydaline.

Corydalis, n. 2. [l. c.]

The golden corydalis is Capnoides aureum of the northeastern United States and Canada, with golden-yellow flowers. The pink corydalis is C. sempervirens of the same region, but ranging to Alaska and North Carolina: the flowers are pink with yellow tips. The pale corydalis is C. faculum, with pale yellow flowers, an early wild flower of the eastern half of the United States. These and other species are delicate and attractive cies are delicate and attractive olants

Corydalus, n.—Horned corydalus, Corydalus cornutus. See Corydalus. Comstock, Manual of Insects, p.

corylaceous (kor-i-lā'-

shius), a. [NL. cory-laccus, \langle L. corytus, hazel: see hazel.] Of or pertaining to the hazel; belonging or related to the Corylacex.

-Au

Pink Corydalis (Capnoides sempervirens). a, plant and inflorescence, one louth natural size; b, a capsule, one half natural size.

corylin (kor'i-lin), n. [L. corylus, hazel, + -in².] A globulin obtained from various nuts. corylophid (ko-ril'ō-fid), a. and n. I. a. Of or belonging to the coleopterous family Corylophidæ.

II. n. A beetle of the family Corylophidæ. corymb, n. 2. A hemispherical group of zoo-phytes. Dana, Zooph., p. 173. N. E. D. corymbate (ko-rim'bāt), a. In bot., same as

corymbiate.

Coryneum (ko-rin'ē-um), n. [NL. (Nees, 1816), from the shape of the sporodochia; ζ Gr. κορίνη, a club.] A genus of melanconiaceous fungi having black disk-shaped or pulvinate sporodochia breaking through the bark of the host. The spores are fusiform, dark-

of the nost. The spores are fusiform, dark-colored and several septate. C. Beyerinekii is said to be the cause of a gum flux of the cherry and closely related plants. It is also regarded as the conidial condition of Ascospora Beyerinekii. See *Ascospora.

corynite (kor'i-nit), n. [Gr. κορίνη, elub, +-ite². The name refers to the form of the crystalline groups.] A mineral similar to gersdorffite, but with the arsenic in part replaced by antimony. placed by antimony.

corynocarpine (ko-rin-ō-kār'pin), n. [Corynocarpus + -ine².] A crystalline alkaloid found in the fruit of the karaka tree, Corynocarpus tærigata. It melts at 140° C.

Coryphantha (kor-i-fan'tha), n. [NL. (Lemaire, 1868, adopted from a subgenus name of Engelmann, 1857), ζ Gr. κορυφή, summit, + aνθη, blossom. The name alludes to the occurrence of the flowers, in typical species, on the

very summit of the plant.] A genus of plants **cosmism**, n. 2. The philosophy of Spencer and of the family Cactaceae, often called Mamillaria (which see).

axis of a plant.

corytuberine (kor-i-tū'ber-in), n. [Cory(dalis) (see def.) + L. tuber, tuber, + -ine².] An alkaloid, $C_{19}H_{25}O_4N$, found in the roots of Capnoides carum (Corydalis cava). It erystallizes in needles which decompose at 200° C.

cos² (kos), n. [Also coss, cosse (lettuce), < L. Cos, < Gr. Kōc, an island in the Ægean Sea, now Stanchio.] A kind of lettuee, suited for being grown out of doors in summer, usually forming long heads or rosettes.

C. O. S. An abbreviation of Charity Organization Society.

cosaque (ko-säk'), n. [F.] A Cossaek danee, or the music for it.

coscoroba (kos-ko-rō'bä), n. [NL. eoscoroba, appar. connected with the Tupi casaroba, also saroba, a diving bird.] A large swan-like duck, Coscoroba coscoroba, of South America, which has a white body and a long, slender, black neck.

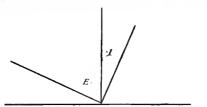
Cosensal (kō-sen'sal), a. [co-1 + sense + -al¹.] Having the same sense. Two mutually equiangular ITAYING the Same Sense. Two mutually equiangular polygons are eosensal when rays pivoted within them and containing the vertices of equal angles, rotate in the same sense to pass through the vertices of the consecutive equal angles. Congruent spherical triangles are cosensal, which is not the case with symmetrical spherical triangles.

cosher¹, v. II. intrans. To chat in a familiar, friendly way; gossip. Macaulay.
Cosina beds. See *bcd¹.

friendly way; gossip. Macanag.

Cosina beds. See $\star bcd1$.

Cosine circle. See $\star circle$.—Cosine law. See Lambert's law of $\star cosines$.—Hyperbolic cosine of x, $\frac{1}{2}(e^x + e^{-x}) = \cos xV = 1 + \frac{x^2}{2!} + \frac{x^4}{4!}$... It is usually written cosh x and read "cosh x", or "h-cosine x"—Lambert's law of cosines, the law that the intensity of the light



Lambert's Law of Cosines.

diffusely reflected from a mat surface is proportional to the cosine of the angle between the direction of the diffused rays under consideration and the normal to the surface. Experiments by Wright (Philos. Mag., XLIX. 199) show that if I is the angle of incidence of the light the intensity of the diffusely reflected light is strictly proportional to the cosine of the angle E, but that if the incidence be varied, the light reflected at a constant angle E is not proportional to the cosine of the angle I.

cosingular (kō-sing'gṇ-lär), a. [co-1 + singu-Having the same singular surface: said of complexes in line geometry.

By these principles the existence of cosingular quadratic complexes can easily be established.

Eneye. Brit., XXVIII. 662.

Cosingular complexes. See $\star complex$, n. cosmetid (kos'me-tid), a. and n. I. a. Having the characteristics of or belonging to the family Cosmetidæ.

II. n. An araehnidan of the family Cosmetidæ.

cosmic, a.—Cosmic consciousness. See ★consciousness.—Cosmic fog, a nebulosity enveloping certain stargroups, notably the Pleiades.

groups, notably the Pleiades.

Alelium stars are often palpably connected with nebulæ. The entire Orion region, where they brilliantly congregate, is pervaded with cosmic fog; cosmic fog enwraps the Pleiades; and individual instances of the same association abound, and are likely to multiply as exploration proceeds. A. M. Clerke, Problems in Astrophysics, p. 189.

— Cosmic hydrogen, theism, etc. See *hydrogen, *theism, etc.

ism, etc. II. n. A name proposed by H. L. Fairchild, in accordance with the new planetesimal hypothesis, for the primitive massive rocks.

pothesis, for the primitive massive rocks.

With the passing of the old hypothesis it will be desirable to change the terminology of the rocks as far as this now implies an original motten or "igneous" state of the earth. Some new name will be desirable for the sediments which were formed chiefly or wholly from the planetesimals (the cosmic matter) in the early seas of the growing globe. Let us call such deposits cosmoplastics and the primitive massive rocks the cosmics.

II. L. Fairchild, Amer. Geol., Feb., 1904, p. 101.

Fiske, which asserts the existence of a real unknowable ontside of the mind, the absolute relativity of all thought to ourselves, and that there is no knowledge except what is ultimately empirical science. It is specially opposed to the systems of Berkeley, Hume, Kant, Hamilton, and Comte.—3. The doctrine that the material universe works automatically; affirmative atheism.—4. The ethical doctrine which makes the welfare of mankind the highest

cosmist (koz' mist), n. [Gr. κόσμος, the universe, + -ist.] 1. A believer in cosmism, or the cosmic philosophy of Fiske, which is substantially the first principles of Spencer .- 2. A believer in the affirmative atheism of Holyoake, according to which we know that nature is automatie.

Cosmoceras (koz-mos' \tilde{e} -ras), n. [NL., $\langle Gr.$ κόσμος, ornament, + κέρας, a horn. A genus of ammonoid cephalopods or ammonites with involute shells and highly eostated and tuberenlated whorls. It occurs in the Jurassie

cosmochlore (koz'mō-klōr) n. [Also kosmo-chlore; ⟨Gr. κόσμος, ornament, + χλωρός, green.] A chromium silicate occurring in emeraldgreen monoclinie needles in the meteorie iron of Toluca, Mexico.

cosmoclastic (koz-mō-klas'tik), a and n. κόσμος, universe, +κλαστός, ζκλάν, break.] Ι. α. Consisting of fragmental material of extraterrestrial origin.—Cosmoelastic rocks, rocks composed of fragmental material of extraterrestrial origin.

II. n. A cosmoelastic rock. See the extract, under $\star cosmic$.

cosmog. An abbreviation of cosmography. cosmogenetic (koz-mō-jē-net'ik), a. [Gr. κόσ-μος, universe + γένεσα, origin: see genetic.] Of or pertaining to the origin and development of the universe

cosmogeny (koz-moj'e-ni), n. [Gr. κόσμος, the universe, + - γενεια, ζ -γενης, -produced.] 1. Cosmogony; the history of the origin and development of the universe.

This cosmogeny, or theory of the development of the miverse. Hackel (trans.), llist. Creation, 1, 321.

2. The history of the origin and development of the inorganic universe, as distinguished from that of living beings.

Primary Aggregation. Cosmogeny — Genesis of Matter – Chemical Relations.

L. F. Ward, Dynamic Sociol, I. 220.

cosmognosis (koz-mog'nō-sis), n. [Gr. κόσμος, the world, + γνῶσις, knowledge.] The imaginary 'general knowledge' or instinct to which the migrations of birds have been attributed. Syd. Soc. Lex.

cosmogonize (koz-mog'o-niz), v. i.; pret. and pp. cosmogonized, ppr. cosmogonizing. [cosmogony + -ize.] To explain the origin of the mogony + -ize.] To explain the origin of the world: theorize in regard to the world's origin.

J. W. Draper, Intell. Devel. of Europe, I. iv. cosmogony chart. See *chart. cosmographer, n. 2. A geographer.

Aratus the astronomer, Ptolemy the cosmographer, add lustre to the golden age of Alexandrian culture.

J. A. Symonds, Greek Poets, 1st ser., p. 32.

cosmologic (koz-mō-loj'ik), a. Same as cosmologicat.

logical.

cosmological, a,—Cosmological proof, that proof of theism which rests on the principle of efficient causation. According to Caldecott there are nine forms of this argument, as follows: (1) from the world as a mass of effects, an argument used (says Caldecott) by Aristotle, Aquinas, Locke, Clarke, Martineau, and Illingworth; (2) from the 'changes in the world, used by Aristotle and Martineau; (3) from the dependency of everything in the world, insed by J. Caird, Martineau, and Stirling; (4) the contingencies of the world, used by Aquinas, Leibnitz, Clarke; (6) from the finitude of things in the world, need by Clarke; (6) from the relativities of the world, used by Green and Illingworth; (8) from the phenomenal character of the world; (9) from the potential character of the world, need by Aristotle.

cosmonomic (koz-mō-nom'ik), a. [Gr. κόσμος,

cosmonomic (koz-mō-nom'ik), α. [Gr. κόσμος, the world, + νόμος, law.] Pertaining to the laws of nature, in the sense of general trnths as to instantaneous results of contemporaneous conditions.—Cosmonomic monism, a form of monism which acknowledges cosmonomic influences

cosmophilite (koz-mof'i-līt). n. [Gr. κόσμος, the world, $+ \phi \iota \lambda \epsilon i \nu$, love, $+ \cdot i t \epsilon^2$.] A lover of the world.

Actress ball, where there was to be a great deal of Parisian beauty, which a cosmophilite ought to see.

Thackeray, in Scribner's Mag., June, 1887, p. 681.

303

cotter

cosmopoietic (koz "mō-poi-et'ik), a. [Gr. κόσμος, the universe, $+ \pi o u \eta \tau u k o c$, $\langle \pi o u \epsilon i v \rangle$, make (see poetic).] Contributing to form the universe

and to render it orderly. Huxley. cosmopolis (koz-mop'ō-lis), n. [Gr. κόσμος, the world, $+\pi \delta \lambda \iota \varsigma$, eity.] A eity composed of people gathered from all parts of the world. Stand. Diet.

cosmopolitanize (koz-mō-pol'i-tan-īz), v. t.; pret. and pp. cosmopolitanized. ppr. cosmopolitanizing. [cosmopolitan + -ize.] To render eosmopolitan in character or feeling.

The telegraph has cosmopolitanized us in spite of ourselves; the whole world has but one set of nerves and we all have the headache together. Lowell, Letters, II. 368.

cosmopolite, n. 3. A nymphalid butterfly, Cosmopolite, n. S. A hymphand outterly, Yanessa eardut, common to Europe, Asia, North America, and Australia. Its larva feeds on thistle, mallow, and everlasting. Also known as the thistle-butterfly. See cut under painted-lady.
 Cosmopolite, n. S. A hymphand outterly, serious description of the supposed character of the universe to histle-butterfly. See cut under carapace.
 Cost-card (kôst'kärd), n. In the card-system of industrial eost-keeping, a eard on which is inseribed the cost of manufacturing any article.
 Costen lights, signals. See *light1.
 Coster dum(kos'tèr-dum), n. [coster + -dom.]
 Costers (that is, costermongers) collectively

as a living organism whose atoms are severally endowed with sensibility: a hypothesis put forward by G. T. Feehner.

But his [Fechner's] substitute was his own hypothesis of panpsychism, from which he deduced a "cosmorganic" evolution from a "cosmorganic" or original condition of the world as a living organism into the inorganic, by the the world as a living organism may be principle of tendency to stability.

Encyc. Brit., XXX. 662.

Cosmos fiber. See ★fiber1.
cosmotheist (koz'mō-thō-ist), n. [cosnism + -ist.] A believer in cosmotheism.

cosmotheistic (koz"mē-thē-is'tik), a. pertaining to cosmotheism or the cosmotheists. costofascialis (kos "tō-fash-i-ā'lis), n. cosmozoan (koz-mō-zō'an), n. [Gr. κόσμος, tho universe, + ζφον, a living being, + -an.] An as *costocerricalis. imaginary organism transported to the earth costo-inferior (kos"tō-in-fē'ri-or), a. Relating from some unknown region of the eosmos. [Rare.]

It [life] was transported to the earth from another world, or from the cosmic environment, under the form of cosmic germs, or cosmozoans, more or less comparable to the living cells with which we are acquainted.

Smithsonian Rep., 1902, p. 401.

cosmozoic (koz-mō-zō'ik), a. [cosmozo-an + -ic.] Concerning or pertaining to the intro-duction of life upon earth from without.—Cosmozole hypothesis, the doctrine or opinion that the first living organisms upon earth were brought here from some unknown region of the universe by a meteorite.

Kelvin suggested that germ life may have been a meteoric passenger from otherwhere. Allowing such arrival gave no answer to the question as to the origin of the life found on the meteorite. Helmholtz, in advocacy of this "cosmozoic hypothesis," said, "Organic life either came into existence at a certain period, or it is eternal."

Science, April 28, 1905, p. 643.

cosmozoism (kez'mō-zō-izm), n. [cosmozo-an + -ism.] The doctrine that the universe as a whole has an animal conscionsness: a term which has been in good use since Cudworth. cospecies (kō-spē'shēz), n.

cospecies (kō-spē'shēz), n. [co-1 + species.]
One of two or more closely related and very similar species.

Warm-blooded animals which live in these [arctic] regions have the same temperature as their co-species in warm climates. Smithsonian Rep., 1890, p. 420.

Cossack post. See *post2.

Cossackian (ko-sak'i-an), a. [Cossack + -ian.]
Same as *Cossackic.
Cossackic (ko-sak'ik), a. [Cossack + -ic.]
Of or pertaining to the Cossacks. N. E. D.
cossaite (kos'a-īt), n. [Named after Professor
Luigi Cossa of Pavia.] A compact variety of the soda-miea called paragonite.
cossette (ko-set'), n. [F. cossette, < cosse, a pod, husk.] A section or slice of a root, as made in a process of manufacture; specifically, a section of chieory spent before drying and roasting or a dealer in costumes, or one who rents out.

of chieory so ent before drying and roasting, or of sugar-beet root in the making of beet-sugar.

The raw beet is simply cut into long slender grooved slices. In the factory these slices are known as cossettes. U. S. Dept. Agr., Rep. No. 74, 1902, p. 39.

cossid^I (kos'id), a. and n. I. a. Pertaining to or resembling the lepidopterous family Cossidæ. II. n. A moth of the family Cossidæ.

cossid2 (kos'id), n. [Also cassid, kasid, < Hind. Ar. quisid, a messenger.] A running messenger; a courier. Yule and Burnell. [Anglo-Indian.]

meridienal rows of swimming-plates. (f) In

Hydrozoa, one of the protective branches which form the walls of an open basketwork inclosing the gonangia, as in the corbula of Aglaophenia. (g) The ridge of the sucker of a tapeworm.—Costæsternales, in ichth., the branchiosteral rays, a series of bony rays attached to the hyoid arch and assisting to close the gill-cavity below.

costal, I. a.—Costal germmation. Same as conenchymal *germmation.—Costal processes. (c) In ichth., the ribs.

II. n. 1. In the articulate erinoids, the lateral plates of the ealyx, often fused together. 2. One of the bony plates borne upon and fusing with the external face of the ribs to form the greater portion of the earapace in turtles. These plates are lacking in the lyre-turtle, Sphargis, and certain related extinct forms. See cut under carapace.

Costers (that is, costermongers) collectively or viewed as constituting a distinctive community. Athenænum, Dec. 28, 1895, p. 897. costiv, a. A simplified spelling of costive.

costocervicalis (kos*tō-ser-vi-kā'lis), n. [NL., $\langle L. \ costa, \ rib, + \ cervix \ (cervic-), \ neek: see \ cervical.$ A museular slip which occasionally passes between the cervical fascia or carotid sheath and the sternothyroid muscle.

[cosmothe- costochondral (kos-tō-kon'dral), a. [L. costa, rih, + Gr. χόνδρος, eartilage.] Same as *chondrocostat.

costa, rib, + fuscia, a band: see fascia.] Same

to the lower ribs.

costopleural (kos-tō-plö'ral), a. Relating to both ribs and pleura.

costopulmonary (kos-tō-pul'mō-nā-ri), a. Relating to both the ribs and the lungs.

costosuperior (kos#to-sū-pē'ri-or), a. Relating to the upper ribs.

costotrachelian (kos"tö-trä-kë'li-an), a. costotrachellan (κος το-tra-κe n-an), a. [L. costa, rib, + Gr. τραχηλος, neck, + -i-an.] Relating to both the ribs and the neck.—Costotrachellan muscles. Same as scalene muscles (which see under scalenus).

costraight (kō-strāt'), a. [co-1 + straight¹.] Sitnated on the same straight line.

In the Euclidean geometry every three points are 'either on a straight line or a circle. In non-Euclidean geometry there are triplets of points which are neither costraight nor concyclic.

Amer. Inventor, April 15, 1904, p. 180.

costula (kos'tū-lä), n.; pl. costulæ (-lē). [NL. dim. of L. costa, a rib: see costa.] A small

eosta, as on a shell. costulation (kos-tū-lā'shon), n. [costula + -ation.] The system of costæ upon a shell.

Diplommatina skeati. . . Only a single specimen of the shell, the most salient features of which are the inflated whorls, deeply cut suture, and fine, regular costulations.

Proc. Zool. Soc. London, 1903, p. 198.

costume-piece (kos-tům'pēs), n. In theat., a

a dealer in costumes, or one who rents out costumes for theatrieals, mask-balls, or the like.

cosymmedian (kō-si-mē'di-an), a. [co-I + symmedian.] Having the same symmedian lines: said of triangles. J. J. Milne.

cota² (kō'tā), n. [Also cotta; Philippine Sp. cota, cotta, Sulu kōta, a wall, a fort, = Tagalog cota, a wall, = Pampanga cuta = Ilocan cota = Bisaya cota = Malay kota, a fort, stronghold, Stable National States Note, a fort, stronghold, $\langle ko \rangle$, a prefix, who, what, implying strange, indifferent, somewhat (nom. sing. kas = L. quis = E. who), + atta, a room on a housetop, a tower.]

Derived from cotarnine. - Cotarnie acid, a crys-

talline acid obtained by the oxidation of cotarnine or cotarnone. It melts at 178 °C, with formation of the anhydrid.

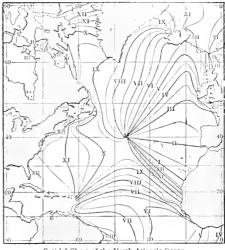
cotarnone (kō-tär'nōn), n. [cotarn-ine + -one.] A compound, $C_{11}H_{10}O_4$, obtained indirectly from cotarnine. It crystallizes in leaflets which melt at 78° C.

melt at 78° C. coteau (kō-tō'), n. [F., a hill, hillside, ridge, dim. of côte, hill, hillside: see coast1, n.] In phys. geog., an upland; a broad, flat-topped ridge of moderate elevation. [Northwestern U. S.1

cotenure (kō-ten'ūr), n. [co-1 + tenurc.] Joint tenure

coterel (kot'e-rel), n. [Also cotterell, cotteril; ME, coterel, COF, coterel (ML, coterellus), dim. of cotier, cotter: see cotter.].] Same as cotter. a cottager under the cottier system of landtenure. The name is found sometimes applied, by blunder, to the cotter's tenement.

coterminal (kō-ter'mi-nal), a. [co-1 + ter-minal.] Same as conterminal and conterminous. cothurnian (kō-thèr'ni-an), a. [cothurn + -ian.] Proper to or characteristic of tragedy.



Cotidal Chart of the North Atlantic Ocean

or lines which connect the places at which the tidal waves arrive simultaneously. cotillage ($k\bar{o}$ -til $(\bar{s}\bar{j})$), n. [co^{-1} + tillagc.] Joint

or eoöperative tillage.

cotinine (kō'ti-nin), n. [A metathesis of nicotine.] A crystalline alkaloid, $C_{10}H_{12}ON_2$, obtained indirectly from nicotine. It melts at It melts at

cotogenin (kō-toj'e-nin), n. [coto(in) + -gen benzophenone, (CH₃O)C₆H₂COC₆H₃(OH)₂. It is formed by fusion of methylprotoeotoin with caustic potash, and crystallizes in plates which melt at 27° C. cotta² (kot'ä), n. Same as *cota².

cottabist (kot'a-bist), n. [cottab-us + -ist.]
One who took part in the ancient Greek game cottabus. J. S. Blackic, Wiso Men of Greece, p. 138.

cottage, n. 5. In Australia, a dwelling without np-stairs rooms; a house in which all the rooms are on the ground floor: as, a weather-board coltage with twelve rooms.—Cottage bonnet, a small, close-fitting bonnet, fashionable in the early Victorian era.—Cottage loaf, a loaf of bread on the top of which a smaller loaf is stack.—Cottage range. See

cotta-grass (kot'ä-gras), n. A Mexican and South American grass, Cottca pappophoroides, found also in canons from western Texas to

Arizona.

Cotter², n. Cotters were used in place of the nut and thread on a bolt before the cutting of threads was easy and cheap, and are still useful where the thread would be liable to injury. A wedge-shaped or tapered flat pin (cotter) is driven into a slot cut near the end of the bolt or stud, drawing up the bolt. A similar device is used to secure unts on bolts from being shaken off. A hole is drilled through the bolt, at right angles to its axis, beyond the nut, and through this hole a taper pin is driven. The cotter in this case is often split at its smaller end, and if the two parts are spread it cannot of itself work ont. In small work the cotter is made of half-round wire, bent double on itself, with an eye at the bend, so that when it is in place and the ends are spread, it cannot slip ont either way. The hole can therefore be straight or cylindrical and not tapering, and the cotter has no wedging action in this form. Cotters are much used in motor-car construction. a courter. File and Burnell. [Anglo-Indian.] (Skt. kōta, kōtta, a fort. stronghold, \land ko-, a good the mut, and through this hole a taper pin is driven. The cotter in this case is often split at its smaller end, and insurance, a term, used in commercial transactions, meaning the actual cost of the goods ordered, plus the commission, the premium of insurance, and the freight or c.f. and i.—Joint cost, the cost of producing two or more commodities or of two services which normally result from a single productive operation: as, the joint cost of beef and leather, or of naphtha and kerosene.

Costa, n., 2. (e) In Ctenophora, one of the eight meridienal rows of swimming-plates. (f) In Derived from cataging — Costarnic costantial. [North and insurance, and the cost is often split at its smaller end, and if the two parts are spread it cannot of itself work ont. In small work the cotter is made of half-round wire, who), + atta, a room on a housetop, a tower.] In the southern islands of the Philippine archimates the two points of the two parts are spread it cannot of itself work ont. In small work the cotter is made of half-round wire, who), + atta, a room on a housetop, a tower.] believe the two points are spread it cannot of itself work ont. In small work the cotter is made of half-round wire, who), + atta, a room on a housetop, a tower.] believe the two points are spread it cannot of itself work ont. In small work the cotter is made of half-round wire, who), + atta, a room on a housetop, a tower.] believe the two points are spread it cannot of itself work ont. In small work the cotter is made of half-round wire, who), + atta, a room on a housetop, a tower.] believe the two points are spread it cannot of itself work ont. In small work the cotter is made of half-round wire, who), + atta, a core is a core in this case is often split at its smaller end, and if the wo parts are spread it cannot of itself work ont. In small work the cotter is made in the two parts are spread it cannot of itself work ont. In small work t

by means of a cotter.

cotter-bolt (kot'er-bolt). n. A bolt which, instead of a screw and nut at one end, has a slot cut through it near that end, for the insertion of a cotter, to keep it in its place. Trautwine, Engin. Pocket-book.

cotterel. n. 5. A washer or flat disk of metal to go under a bolt-head or nut and increase the bearing area of the fastening. [Eng.]—6. cotton-aphis (kot'n-a*fis), n. A plant-louse, A disk of leather placed over the head of a mop to keep the strands together and prevent water from running up the handle.

cotterel-lug (kot'er-el-lug), n. An ear or lug through which a cotter is passed, to secure the piece to which the lug is attached.

cotter-pin (kot'er-pin), n. A pin used instead of a nut to keep a cotter in its place, as in fixing the pedals of a bieyele to the cranks.

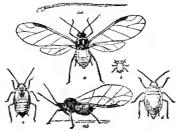
cotter-way (kot'er-wa), n. A keyway; an oblong slot cut through two pieces which are to be joined by a cotter or key. The sides of the slot are parallel, but one or both ends are usually tapered so that the tapered key will bear at both bottom and top.

Cottier rent, the rent paid by a cottier, or small tenant at will. See cottier tenure, under cottert.—Cottier tenancy, the tenancy of a cottier, or small tenant at will. Originally the term designated the tenancy of an agricultural laborer who held a cottage and a parcel of land as partial payment for services upon the fields of his landlord.—Cottier tenant, a tenant at will holding a few acres of ground which he enlitivates with his own labor.

cottolene (kot'ō-lēn), n. [cott(on)(seed) + L. ol(eum), oil, + -ene.] A substance made from beef suct and cotton-seed oil.

cottolene (kot'\\\00e3-l\00e3n), n. [cott(om)(seed) + L. ol(eum), oil, +-cne.] A substance made from beef snet and cotton-seed oil.

cotton I. I. n.—Artificial cotton, any vegetable fiber (as the cellulose of the fir-tree freed from bark and knobs) reported by chemical means to a cellulose condition resembling cotton.—Astatic cotton, the same as India \(\times \t



Cotton-aphis (Aphis gossypii).

a, winged female; aa, enlarged antenna of same; ab, dar female, side view; b, young nymph, or larva; c, last stage onymph; d, wingless female; all greatly enlarged. (Chittendet U. S. D. A.)

ton-plant in the southern United States, espe-

cially in the early summer.

cotton-bale (kot'n-bāl), n. A bale of cotton;
a commercial package consisting of cottou lint more or less tightly compressed, covered with bagging, and bound with ties. The bale difwith bagging, and bound with ties. The bale dif-fers in size, form, and covering in different countries. The standard American bale is of a square section, the faces 54 by 27 inches, and is intended to contain 500 pounds, but there is actually great variation in dimen-sions and density. Smaller and denser cylindrical bales, less subject to waste and loss by fire or rain, have come somewhat into use, and improvements of similar purpose have been attempted in the square bale.

cotton-ball (kot'n-bal), n. A ball or small compact mass of cotton.—Cotton-ball clouds, small cumuli. When very small and white they are cirro-cumuli; when larger, with a darker shade on one side, they may be alto-cumuli or even cumulo-cirri.

cotton-belt (kot'n-belt), n. That section of the United States in which cotton is grown to That section of the United States in which cotton is grown to best advantage. It covers 24° of longitude and 10° of latitude, including southern Virginia, Tennessee, Arkansas, Texas (except the western part), and all the States south and east of this line, the whole amounting to 600,000 square miles. Of this, however, only a small fraction is actually planted in cotton—up to 1896 about one twentieth. Cotton has been grown at many points outside of this area.

Cotton-boll cutworm, weevil. See *eutworm, weevil

cotton-brown (kot'n-broun), n. One of several direct cotton coal-tar colors of varying composition, all of which dye unmordanted cotton brown in a salt bath.—Clayton cotton-brown, a direct cotton coal-tar color. It dyes unmordanted cotton brown in a salt bath.

cotton-bush (kot'n-bush), n. See Kochia. cotton-caterpillar (kot'n-kat"er-pil-är), n.

The larva of an American noctuid moth, Alabama argillacea (formerly Alctia xylina), which abounds in the cotton-fields of the southern United States and feeds on the foliage of the cotton-plant to an injurious extent. Same as

cotton-worm (which see, with cut).
cottoneer† (kot-n-ēr'), n. [cotton + -cer.] A
cotton-spinner or -manufacturer. cotton-fern (kot'n-fern), n. See *fern1.

cotton-gin, n.—Single-breasted cotton-gin, a cotton aw-gin with one grid or grate, through which the saws

cotton-grass, n. 2. A panie-grass, Panicum insutare, bearing cottony or silky hairs on its spikelets. It is a tropical species appearing in the southern United States, and, where abundant, is excellent for pasture. The name is also applied locally to the feather-sedge, Andropogon saccharoides. The Arizona cotton-grass is Panicum lachnanthum, called also wiry panic and silky panic-grass.

Same as *cotton-cater-Cotton-leaf worm. pillar.

cotton-loom (kot'n-lom), n. Aloom made specially for weaving plain cotton fabrics.

cotton-manufacturer (kot'n-man-u-fak"tūr-One who operates a cotton-weaving establishment; in a broad sense, a person who carries on all the processes of cotton-manufacture from the ginned raw material to the completed product.

cotton-mouse (kot'n-mons), n. coarse-haired, long-tailed field-mouse, Sigmodon hispidus, found in the cotton-fields of the southern United States. Also cotton-rat. cotton-oil (kot'n-oil), n. Same as cotton-seed

cotton-oil (kot'n-oil), n. oil (which see, under cotton-seed).





Short-limb cotton, a class of upland-cotton varieties with short limbs, medium to small bolls, and short staple: profific, and maturing early. From the aggregation of the bolls, also called cluster cotton.—Wild cotton (a) In the southern Atlantic States, the rose-mallow, Hibiscus Moscheutos, a plant resembling cotton. (b) See *cotton-weed, 3. (c) Same as Natal *cotton (a).

II. a.—Cotton plush, a fabric identical with cotton velvet, except that it has a longer pile.
cotton-aphis (kot'n-ā"fis), n. A plant-louse, Aphis gossypii, occurring commonly on the cot-mature of the cotton-special contains a fiber which it has been proposed to extract and put to several uses for which it is adapted, and the root-bark is medicinal. The main values lie in the staple or lint borne upon the seeds within the 3 to 5 cells of the pod or boll, which opens at maturity into as many divisions or locks, and in the seed itself (see *cotton-seed). The cottons grown to the United States are believed to belong exclusively to the two species Gossypium hiraculum (the short-staple or upland cotton, a native of trop-

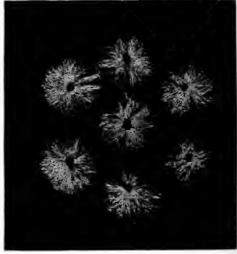
clusively to the two species Gospium hirsulum (the short-staple or upland cotton, a native of tropical America often identified with G. herbaceum) and G. Barbadense (the long-staple or sea-island cotton, including the Exyptian *cotton, which see). The long-staple upland cottons appear to be derived by selection from hybrids of these two species. The sea-island cotton-plant differs from the upland in its larger growth (it is and opened boll. One half natural size.

A immature boll: A mature from 3 to 8 feet high against 3 or 4 feet), longer and more flexible branches, more deeply lobed fleaves, bright-yellow flowers, and sharp-pointed smaller bolls having but 3 cells instead of 4 or 5. In the upland cotton the staple ranges from \(\frac{1}{2}\) to \(\frac{1}{2}\) inches; in the long-staple upland, between the two. The short-staple or upland is the ordinary cotton of the southern United States. Long-staple upland is grown sparingly in all the cotton States, in larger quantity in the delta region of the Mississippi, that is, on the broad alluvial flats along the river, chiefly between Memphis and Natchez (see bender *cotton). Seasiand cotton is grown only in Georgia, Florida, and South Carolina, and the product forms less than one per cent. of the whole. The greater cost of its production precludes its use except for the highest grades of fabrics.

cotton-red (kot"n-red'), n. A direct cotton coal-tar color of the diazo type derived from toluidineand similar to benzo-purpurin 4B. It dyes unmordanted cotton a bright red from an alkaline salt bath.

cotton-rib (kot'n-rib), n. A kind of corduroy. cotton-rock (kot'n-rok), n. A local name in the State of Missouri for a soft, fine-grained silicious magnesian limestone of the Lower Silurian series of Swallow.

No. 3. 15 feet of soft, earthy, fine-grained, yellowish-white or drab silico-magnesian limestone, with a conchoidal earthy fracture, in beds from half an inch to one foot thick, interstratified with thin layers of bluish, silico-argillaceons Magnesiau Limestone. It is called "Cotton-rock." G. C. Swallow, Geol. Surv. of Me., 1855, p. 121.



Cotton-seeds, with lint still adhering."

cotton-seeds, with ant san agreeng.

cotton-gin). The seed after ginning is either quite smooth, or, as is practically all commercial seed, still covered with down (see black-seed *cotton, yreen-seed *cotton, and linterl). The seed proper of cotton is composed of the hull (the outer shell) consisting of the seed-coats and the meat, or kernel, consisting of a coiled embryo without albumen, sprinkled with resinous glands, and containing in its cells, with other substances, oil to the extent of 20 per cent. or more of the seed. The weight of the seed is slightly over twice that of the adherent hint; the hull and the meat form about equal parts. Cotton-seed was not utilized, except for planting, until the latter part of the eighteenth century, when its value for oil and cake began to be recognized in England. It had no commercial value in the United States prior to 1834, and, though it had come into extensive use for fertilization and into limited use for feeding purposes, large amounts were still thrown away in the richer cotton States down to the time of the civil war. With the introduction of the oil-mill, chiefly after 1867, the cotton-seed industry vastly expanded, until in 1900 the total value of manufactured cotton-seed prod-

ncts exceeded \$42,000,000, a sum much increased in later years.—Cotton-seed bran. (a) The dark, solid portion of the hull of the cotton-seed from which the short fiber has been removed. (b) A mixture of ground hulls and waste kernels, chiefly of lumature or frosted seed. It is used as food for cattle.—Cotton-seed cake. See cotton-cake. In France three kinds have been recognized: the linty, containing much waste fiber and used only for manure; the crude, containing large quantities of fragments of hulls and used as food for cattle; and the refined, from which these fragments have been removed. In the United States two kinds were formerly known, the undecorticated and the decorticated, that is, cake from seed with or without the hulls; but the former has now disappeared. Cotton-seed cake connea from the press as hard as wood and is exported in blocks, but for American use it is mostly converted intom cal.—Cotton-seed feed, aground mixture of cotton-seed hulls and cotton-seed meal used as food for stock.—Cotton-seed meal, dry cotton-seed cake broken up in a cracker or breaker and ground in a mill. It is very rich in protein, and is also one of the cheapest sources of nitrogen for fertilizing.—Cotton-seed foll. In the manufacture of cotton-seed oil as conducted in the United States, the ginned seed is regimed in a linter; the delinted seed is decorticated or hulled; the meats are crushed by a roller-machine or crusher; the resulting flakes are made into cakes by a former; and the cakes are wrapped in camel's-hair loth and subjected to hydrauli pressure. After settling and clearing, the crude oil is refined by heating and agitation with causte soda. After the oil is drawn oif, freed of the excess of alkali, dried, and filtered, it is known as summer yellow oil—either prime, choice, or off. (The same gradations are also applied to the crude oil.) High grades of summer yellow oil are used in the manufacture of artificial butter, and when so used are called butter oils. Summer white oils are obtained by the separation

cotton-spinner (kot'n-spin"er), n. who spins eotton; a manufacturer of cotton thread.—2. An echinoderm, Holothuria for-skali: so named from the adhesive white threads (Cuvierian organs) which are shot out when the animal is irritated.

cotton-teal (kot'n-tēl), n. A small East Indian duek, Nettapus coromandelicus.

cotton-thief (kot'n-thef), n. A name given in Ceylon and southern India to the paradise fly

cotton-top (kot'n-top), n. The Arizona cotton-grass. See *cotton-grass, 2.

cotton-waste, n.—Hard cotton-waste, cotton thread or yarn waste.—Soft cotton-waste, any untwisted or partially twisted cotton-waste, as slubbing, roving, etc.

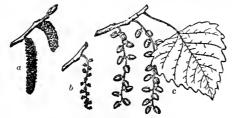
cotton-wax (kot'n-waks), n. A wax-like body occurring as a thin coating on the surface of cotton fiber. It is insoluble in and lighter than water, and has a comparatively high meltingpoint.

cotton-weave (kot'n-wev), n. The simplest of the fundamental weaves: a plain weave consisting of 2 warp- and 2 weft-threads cross-ing each other at right angles.

cottonweed, n. 2. Same as sea-cudweed.-The common milkweed, Asclepias Syriaca: the name, like that of silkweed, refers to the copious white fiber attached to its seeds. Also called wild cotton.

cottonwood, n. 2. In Australia, a tree of the aster family, Bedfordia salicina: so ealled from the cottony under-surface of the leaves, or its hard, brownish, mottled wood. Called dogwood and honeywood in Tasmania.—Balm or balsam cottonwood. Same as black *cottonwood: a name in frequent use on the Pacific coast: but to be carefully distinguished from the balsam or balm of Gilead.—Black cottonwood, Populus trichocarpa, a large tree of the Pacific coast, ranging from California to Alaska, sometimes attaining a height of 200 feet, having light wood much used for staves and various other articles.—Common cottonwood, Populus deltoides, a large tree of castern North America, ranging from Canada to Florida and westward across the great plains, sometimes attaining a height of 100 feet. It often constitutes the only timber in the valleys of western rivers. The leaves are large, normally deltoid in outline, with coarse rounded teeth S.—20 or its hard, brownish, mottled wood. Called

and sinuses. The wood is inferior as lumber; it warps in drying and is slow in seasoning. The tree is ornamental, of rapid growth, and is extensively planted for shade and to retain moisture on the treeless plains of the western United States. Also called necktnee-poplar (which see under poplar).—Fremont cottonwood, Populus Fremontii, a tree of the southwestern United States and

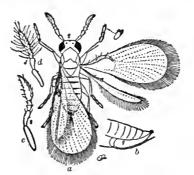


Fremont Cottonwood (Populus Fremontii),

a, male aments; b, a female ament; c, branch with leaf and two fruiting aments. (From Sargent's "Manual of the Trees of North America.")

Lower California, often planted for shade and also for fuel, in the latter case usually being pollarded to accelerate growth.—Lance-leaf cottonwood, Populus acuminata, a small tree of the foot-hills of the Rocky Mountaina, rauging from Assiniboia to Colorado, with broadly lanceolate, taper-pointed leaves. It is sometimes planted as a shade-tree in the towns of that region.—Narrow-leaf or narrow-leaved cottonwood, Populus angustifolia, a middle-sized tree with narrow lanceolate leaves resembling those of a willow, found throughout the Rocky Mountain region from Assiniboia to Arizona, and exhibiting considerable variation. It is the common cottonwood west of the great plains.—White cottonwood. Same as Fremont *cottonwood.—Willow or willow-leaved cottonwood, Same as narrow-leaf *cottonwood.—Yellow cottonwood, the common cottonwood.

Cotton-worm egg-parasite, a minute hymenopterons insect of the family Chalcididæ, Trichogramma pretiosa,



Cotton-worm Egg-parasite (Trichogramma pretiosa). adult female, greatly enlarged; b, ovipositor; c, female antenna d, male aotenna, still more colarged. (Riley, U. S. D. A.)

which lays its eggs in the eggs of the cotton-caterpillar

Cottony scale, cottony cushion-scale. See

catcher, Terpsiphone, the adult male of which cotton-yellow (ket'n-yel'o), n. A name of couleur, n. 3. In rouge-et-noir, the square is white and black.

several direct cotton coal-tar colors which dye (marked 'couleur') in which the banker pays unmordanted cotton yellow in a salt bath.

cotwal (kot'wâl), n. [Also kotwal, cutwall, cutwaul, etc., < Hind. Pers. kotwāl, prob. < Turki kotāwal, kotāwāl, kotāul, a eommandant of a fort or garrison.] An officer or superintendent of police; a native town magistrate. [Anglo-Indian.]

cotylar (kot'i-lar), a. [NL. *cotylaris, < cotyle,

cotylar (kot'i-lar), a. [NL. *cotylaris, < cotyle, < Gr. κοτίνη, a cup.] Cup-shaped, as the eavity in the mandible of some saurians.
 Cotylea (kot-i-lê'ä), n. pl. [NL., < Gr. κοτύνη, a cup, socket.] Ä group of Platyhelminthes, of the order Polyclada. The central or subcentral ventral sucker is always placed behind the genital pores; the mouth is in the middle of the body or in front of it; the genital openings are nasually in the anterior half of the body, with tentacles, if present, developed from the margin. It is opposed to the *Acotylea (which see), and includes the families Anonymidæ, Pseudoceridæ, Euryleptidæ, Prosthiostomidæ, Enantiidæ, and Diplopharyngeatidæ.
 cotyliform a. 2. In hot dish, shaped with

cotyliform, a. 2. In bot., dish-shaped, with the border ereet, as the leaves of Victoria Amazonica.

cotylophore (ko-til'ō-fōr), n. [Gr. κοτύλη, eup, + -φορος, < φέρειν, bear.] In *Polystomidæ*, the + -φορος, < φέρειν, bear.] In eaudal sucker-bearing disk.

cotylopubic (kot'i-lō-pū'bik), a. [Gr. κοτύλη, soeket (aeetabulum), + L. pubis: see pubic.] Relating to both the acetabulum and the os pubis.

cotylosacral (kot/i-lō-sā'kral), a. [Gr. κοτύλη, socket (acetabulum), + L. sacrum, sacrum.] Relating to both the acetabulum and the sacrum.

cotylosaur (ko-til'o-sâr), n. Any member of the order Cotylosauria.

Cotylosauria (kot″i-lō-sâ'ri-ä), n. pl. [NL., ζ Gr. κοτίλη, eup, + σαῦρος, lizard.] An order of Permian anomodont reptiles, closely related to the Stegocephalia. They have the head protected by a bony roof, the teeth on the margin of the jaws arranged in a more or less uniform series, and the vertebræ pierced for the permanent notochord. The order is synonymous with Pariasauria, and includes such genera as Pariasaurus, Otocoelus, and Dindectes.

cotylosaurian (ket/i-lō-sâ/ri-an), a. and n. I.
a. Of or pertaining to the order Cotylosauria.
II. n. A member of the reptilian order Coty-

cotype (kō'tīp), n. [co-I + typc.] In zoöt., one of two or more specimens which together furnish the characters on which a new species is based. Such material may comprise the skin and skull of a mammal, or, as often happens in the case of fossils, portions of several individuals.

A number of valuable types and cotypes of fishes have also been transmitted by the commission.

Smithsonian Rep., 1898, p. 33.

couac (kwäk), n. [F., an imitative word, = E. quack1.] The harsh and startling sound produced when a clarinet is unskilfully blown

or its reed is ont of order.

coubie (kö'bi), n. [F. coubie, appar. \ Ar.

*qūbi, \ (qūba, a dry seab.] A cyprinoid fish,

Labeo coubic, found in the Nile.

couch¹, v. i. 7. To lie in a heap or pile to deeay and pass into compost, as leaves and litter.

couch - grass, n.—False conch - grass, a western North American couch-grass, Agropyron pseudorepens, ranging from Nebraska to British Columbia and south to Texas and Arizona.

couchu (kö'ehö), n. [Native name?] A common name of *Chætostomus fischeri*, a fish of the family *Lorieariidæ* found in the river Chágres near Panama.

coudée (kö-dā'), n. [F., $\langle coude, \langle L. cubitus, elbow: see <math>cubit$.] A eubit; the length from the elbow to the end of the hand.

cougar, n. Several species and subspecies of congar have been recognized by naturalists, the Florida animal being known as Felis coryi and that from the northwest coast region as F. oregonensis. The southern form retains the name F. concolor: the type locality for this resolvable Partial species is Brazil.

cough, n.—Churchyard cough, a cough that indicates an early death. Mrs. Gasketl.

cough-drop (kôf'drop), n. See drop, 2. cough-root (kôf'röt), n. The nodding wake-

Trillium ecrnuum, of eastern North robin, America.

cough-weed (kôf'wēd), n. The golden ragwort, Senccio aureus. See ragwort.

wort, Seuccio aureus. See raguort.

couia (kö-ē'ā), n. [Prob. a native name.] A
fish, Chasmistes cujus, one of the suekers,
found in Pyramid Lake, Nevada.

coulage (kö-läzh'), n. [F., < couler, flow, run, leak: see coulisse, cullis2.] In ceram., same as casting, 2.

all bets when the first eard dealt for red or black is the same color as the winning color. Amer. Hoyle, p. 252.—Couleurs de demi-grand fen [F., 'colors of a medium fire'], in ceram., colors which are fixed at the lower temperature of the least exposed parts of the porcelain-kiln: applied particularly to colors of oriental and French hard-paste porcelain.—Couleurs de grand feu [F., 'colors of an intense fire'], in ceram., colors which will bear the intense heat of a sharp fire without volatilizing, as certain of the blues and browns used in underglaze decoration: applied particularly to colors of Oriental and French hard-paste porcelains. See *grand feu.—Couleurs de moufle [F., 'colors of muffle'], in ceram,, enamel colors which are put on over the glaze and fired in the nmfle or decorating-kiln, but which will not bear the heat of the porcelain-kiln. See *couleurs de moufle. (B.—Couleurs de petit feu [F., 'colors of a low fire], in ceram, the colors of the muffle-kiln. See *couleurs de moufle. black is the same color as the winning color.

coulis (kö-lē'), n. [F.: see cullis1.] A rich brown gravy.

couloir, n. 2. A dredging-machine which employs iron elevator-buckets on an endless chain and excavates by making a gully where the buckets pass.

Coulomb's law. See *law.

coulometer (kö-lom'e-tèr), n. Same as cou-

tomb-meter.

couma (kö'mä), n. [F. (whence NL.) couma, representing a native name.] In Guiana and northern Brazil, a tree of the dogbane family, Couma utilis, or its fruit. By wounding the bark of the tree an abundant flow of sweet white milk is obtained, which is used as food and medicine by the Indians. The fruits are edible, and have a very sweet taste. Also called Rio Negro cou-tree.

coumalic (kö-mā'lik), a. [Appar. < cou(marin) + malic.] Noting an acid, the anhydrid of formylglutaconic acid, prepared by heating

It crystallizes in prisms which melt, with decomposition, at 205-210° C.

coumalin (kö'ma-lin), n. [coumal-ic + -in².]

An anhydrid, CH \leq CH: CH \geq O, formed from

coumalic acid by the less of carbon diexid. coumarone (kö'ma-ron). n. [coumar-in + one.]

A compound, $C_6H_4<\frac{CH}{O}$ CH, formedby heating coumarilie acid with lime or coumarin

dibromide with alcoholic potash. It is an oil which boils at 172° C.

Coumarouna (kö-mä-rö'nä), n. [NL. (Aublet, 1775), \(\commarou (kumaru), the Carib name of the tonka-bean.] A genus of dicotyledonous trees of the family Fabaceæ. See Dipteryx and tonku-bean.

and tonku-bean.

council, n.—Borough council, the body of councilors elected by the voters of a borough to administer its affairs. In each of the 28 metropolitan boroughs of London, consisting of a mayor, aldermen, and councilors, the number of aldermen is one sixth that of the councilors.—County council, in England and Wales, a popularly elected body charged, since the passing of the Local Government Act of 1888, with the administration of the affairs of one of the new administrative counties established by the same net. Its members are elected for three years, choose their own chairman (annually) and a certain number of aldermen who serve for six years, one half retiring every three years.—General council. (a) See council, 7. (b) A Lutheran body organized in the United States in 1866 by the Pennsylvania synod and others which were not in sympathy with the attitude of the general synod toward the Augsburg Confession. The council preclaimed strict adherence to the Lutheran faith.—Parish council, in England, a representaive body, elected in the parish, which supplements the local government work of the county council. Parish conneils were established in 1894.

council-fire (koun'sil-fir), n. Among several

council-fire (koun'sil-fir), n. Among several

count¹, n., 6. (a) A term used in the textile industry to indicate the size or fineness of yarn, designated by naming the number of hanks in designated by haming the number of hanks in a pound, in the plural form: as, 20's. Also called number or grist. (b) pl. Fineness of the pitch of the wire teeth in card-clothing, countercheck, n. 2. In pianoforte-making, a width of 4 inches. — 7. pl. Things sold by with the check. See cut under pianoforte. Also called bumper.

A solution of the same drawing.

But the same drawing.

Countercheck, n. 2. In pianoforte-making, a projection from the hammer-butt that engages with the check. See cut under pianoforte. Also called bumper. not by weight or measure; specifically, oysters, terrapin, etc.—Common counts, in law, general allegations in a complaint or declaration which are not founded upon the precise circumstances of the case, but are intended to enable the plaintiff to take advantage of any ground of liability that may be disclosed upon the trial of the action.—Differential count, the enumeration of the different kinds of leucocytes of the blood according to percentages.

count-bishop (kount' bish" up), n. One who is at the same time a bishop and a count. count-cardinal (kount'kär"di-nal), n. One who

is at the same time a cardinal and a count.

countenance, n.—To change countenance, to show involuntarily by a change of facial expression a sudden change of feeling or emotion, as on hearing unwelcome news or the like.

news or the like.

Counter1, n., 2. In its more elaborate form a counter consists of a series of disks placed parallel to one another on a shaft and having figures from 0 to 9 on their edges. The disks exhibit the figures through a line of holes on a covering-plate. The first one in series is moved through the angle between two of its figures by a rod from a machine whose strokes are to be counted. Each stroke moves the unit figure up one number. The tenth motion causes a dog or pin on the units disk to engage a pin or projection on the second or tens disk, and this second disk similarly moves the third or hundreds disk when the nlnety-ninth stroke of the first disk is completed; and so on as far as is desired.

6. The representative of the engineer-in-

The representative of the engineer-inchief of a canal or similar public work, having special charge of the recording of quantities

of excavation, embankment, or masonry.

counter³, n. 8. The depressed part of the face of a coin, medal, or printing-type that gives relief and contrast to the raised part of the design.—Counter-dividing machine, in shoe manuf., a machine for cutting stock for boot-counters.

counter-agency (koun"ter-ā'jen-si), n. An opposing agency. De Quincey.

counter-alliance (koun"ter-a-lī'ans), n. An alliance entered into to oppose, offset, or coun-

terbalance another alliance. counter-antidote (koun"ter-an'ti-dot), n. substance that inhibits the action of an antidote; an antiantitoxin.

counter-arch, n. 2. An inverted arch conthem equal bearing.

counter-attack (koun"ter-a-tak'), n. Defense by aggressive measures; the attempt to ward counter-extend (koun"ter-eks-tend'), v. t. To off an opponent's attack by engaging him at another point: used especially in chess.

malic acid with concentrated sulphuric acid. counterbalance, n. 2. In elevators, a weight counter-fire (koun'ter-fir), n. Same as *back-terystallizes in prisms which melt, with description of the suspended on a rope which is attached to the fire. car and passes over a pulley at the top of the clevator-shaft. The weight is usually heavier than the car, so as to allow for the average lead.

counter-bass (keun'ter-bas), n. See bass counter, under bass³.

counterbore (koun'ter-bor), v. t.; pret. and pp. counterbored, ppr. counterboring. To bere out counterbored, ppr. counterboring. (a liele) to a larger diameter for a given depth. counterbore (koun'ter-bor), n. 1. A toel-holder or tool-bar for a drilling-machine. It is passed through a hole in the work and brings the cutting tool against the farther or opposite (counter) end of the

2. A tool for boring out a portion of a hole to a larger diameter. Such a tool is usually made with a tip on the end to fit the drilled hole, so that the en-larged section will be concentric with and parallel to the

3. An enlarged section of a drilled hole, made for the purpose of receiving the cylindrical head of a screw or some similar object.

counterbracing (koun'tèr-brā"sing), n. Diagonal bracing placed in a truss or latticed girder to transmit stress, either tensile or compressive, from one point to another; a counterbrace to prevent deformation of the panel when the stress is reversed in the principal members.

counter-ceiling (koun'ter-selling), n. In construction, a false or second ceiling made by filling in between the floor-boards and the lath-and-plastered ceiling with mineral wool or other sound-deadening material, or with con-

council-fire (koun'sil-fir), n. Among several crete, hellow brick, or other fireproefing. tribes of eastern North America, the fire around which the members of the tribe assemble when holding a council.

Countercharge, v. t. 2. In decoration, to arrange (a design) so that elements may be repeated by simple reversion; to reverse (a design).

By countercharging two or more designs were obtained the same drawing.

Hungerford, Furniture in South Kensington Museum,

Also called bumper.

counter-chute (keun'ter-shöt), n. A chute dewn which coal is dumped from an upper to a lower level or gangway. Coal and Metal Miners' Pocketbook.

counter-claim (keun'ter-klam), v. i. In law, to set up an affirmative defense; make a coun-

counter-coupé (koun"ter-kö-pā'), n. In fencing, a thrust made by means of a counter which, instead of clinging to the opposing blade, develops into a coupé over the point. See *coupé, 4.

counter-cry (koun'ter-krī), n. An opposing ery.

Thy face is far from this our war,
Our call and counter-cry.
R. Kipling, The True Romance.

counter-demand (koun "ter-de-mand"), n. demand made by way of reply to another.

counter-demonstration (koun "ter-dem-onstra'shon), n. A demonstration intended to be an answer to some other supposedly hostile movement or action.

counter-diapason (koun"ter-di-a-pā'zon), n. In organ-building, a double diapason, or 16-foot diapason

counter-disengage (koun"ter-dis-en-gāj'), v. i.
In fencing, to disengage and make ready to
thrust over the hand as the adversary changes the engagement.

counter-disengage (koun"ter-disengaj"), n. In fencing, same as *counter-disengagement.

counter-disengagement (koun "ter-dis-en-gaj" ment), n. In fencing, a disengagement which follows or anticipates a disengagement of one's opponent; also, a riposte made by means of a disengagement which fellows that of the oppenent and avoids his feil. N. E. D.

counter-enamel (koun"ter-e-nam'el), v. t. To counter-arch, n. 2. An inverted arch conename both front and back. See the noun. necting the imposts of another arch to give counter-exposition (koun*ter-eks-pē-zish'en), n. In fugue-writing, a treatment in which the answer precedes the subject.

apply counter-extension to. Buck, Med. Handbook, III. 525.

counter-fugue (koun'ter-fug"), n. A fugue in which the imitation of the subject is in contrary motion or by inversion. See fugue and imitation, 3.

counter-gambit (koun-ter-gam'bit), n. In Schess, a gambit played by the second player. See gambit.—Lewis's counter-gambit, an obsolete variation of the King's Bishop's opening.—Lopez-Gianutio counter-gambit, black's 3. P—KB 4 in the King's Bishop's gambit.

done or hears said.

counter-glow (koun'ter-glo"), n. 1. The lightfrom the eastern sky after the sun has set: an apparent reflection of the sunset twilight glow, but really the independent illumination of the eastern atmospheric dust and haze by sunbeams that pass far above the observer through the upper atmosphere when the sun is below the horizon. The lower limit of the counter-glow is the twilight-arch.—2. A patch of extremely faint luminosity in the heavens always opposite to the sun. It is supposed to be connected with the zodiacal light. counter-imitate (koun'ter-im"i-tat), v. t.; pret. and pp. counter-imitated, ppr. counter-imitating. To do or say the opposite of what one sees

In counter-imitating one another, that is to say, in doing or saying the exact opposite of what they observe being done or said, they are becoming more and more assimilated, just as much assimilated as if they did or said precisely what was being done or said around them.

Tarde (trans.), Laws of Imitation, p. xvil.

counter-imitation (koun'ter-im-i-tā"shon), n. The opposite of imitation; the act of doing or saying the opposite of what one sees done or hears said.

Let us say, then, from this wider point of view, that a society is a group of people who display many resemblances produced either by imitation or by counter-imitation.

Tarde (trans.), Laws of Imitation, p. xvii.

counter-lath (koun'ter-lath), n. 1. A lath, used as a kind of furring, as where the lathing and plastering must be carried over broad surfaces of timber or other material and must be kept away from it by the thickness of the counterlath to allow the damp plaster to make a key between the laths.—2. A lath used as a gage to fix the amount of separation between boards, laths, palings, or the like which are to be nailed fast with openings between them.

counter-lath (koun'ter-lath), v. t. In plastering, to furnish (a ceiling or wall) with counter-laths. See *counter-lath, n.

counter-claim (which see).

counter-claimant (koun'ter-klā"mant), n. One who sets up a counter-claim or begins a crossaction.

counter-lathing (koun'ter-lath"ing), n. In plastering, lathing applied to counter-laths. See *counter-lath, n. W. Millar, Plastering,

counter-lever (keun'ter-lev"er), n. That part of a bar or system, serving as a lever, which lies between the fulcrum and the weight.

counter-loper (koun'ter-lo"per), n. A counter-jumper (which see).
counterman (koun'ter-man), n. A salesman in a shoper store; the man behind the counter,

as distinguished from the floor-walker, etc.

countermine, n. 1. (b) A mine or torpedo

placed and exploded in a harbor entrance
by an attacking navy to destroy the mines
or torpedoes which guard the entrance.

counter-mold (koun'ter-mold), n. A profile or the like cut in and fitted close to a molding or group of moldings so that it may be copied accurately.

counter-penalty (koun'ter-pen'al-ti), n. A penalty proposed as a substitute for another: as, in Gr. antiq. (translating Gr. ἀντιτίμησως), the penalty which a person convicted of crime was permitted to suggest for himself as an alternative to that proposed by the accuser.

counterpoint², n.—Unequal counterpoint, in music, any form of counterpoint that is not note against note. See counterpoint².

counterpointist (koun'ter-poin-tist), n. Same

as contrapuntist. counterpoise, n.—Counterpoise globe, a glass globe equal in size to one containing a gas whose weight is to be accurately determined. It is placed on the other side of the balance and eliminates errors due to the change in the buoyancy of the air: first used by Regnault in 1845.

M. W. Travers, Exper. Study of Gases, p. 125.

counter-pump (koun'ter-pump), n. A pump under a counter or bar, for drawing liquids

from barrels or other vessels too bulky to be kept close at hand.

counterpuncture (koun'ter-pungk-tūr), n. In surg., a second puncture made at another point, usually at some dependent part.

Counter-Reformation (koun "tér-ref-or-mā' country-box (kun'tri-boks), n. A small com-shon), n. The movement of reform within the Roman Catholic Church which followed. as when shooting, fishing, or the like, the Roman Catholic Church which followed, and partly counteracted the effects of, the Protestant Reformation in the sixteenth century. See reformation, 3. counter-roll (koun'ter-roll), v. i.. To roll in the

opposite direction: as, to roll and counter-roll. country-damaged (knn'tri-dam'ajd), a. Dam-

And spiritual thunders, born of soul Not cloud, did leap from mystic pole And o'er him roll and counter-roll. Mrs. Browning, Vision of Poets, st. 65.

counter-screw (koun'ter-skrö), n. Either of two serews (both right-handed and turning together in the same direction or one righthanded and the other left-handed and turning opposite ways) by which an object which they adjust or restrain may be moved in one direction or the other by the motion of one.

counter-shaft, n.—Differential counter-shaft, a supplementary shaft in a motor-vehicle, parallel to the driving-axle and connected by drive-chains to the latter or the driving-wheels. It is divided by the compensating-gears, and therefore removes the latter from the rear axle which has to carry the load. This gives to it its differential character when the car is rounding curves. Sci. Amer., Feb. 7, 1903, p. 91.

counter-shafting (koun'ter-shaf"ting), n. One or more counter-shafts; the system of secondary transmission to tools from the main drivingshaft of a factory or works.

counter-skiver (koun'têr-skī"vêr), n. cial machine for skiving counters and taps, and making rounds and welts. See skiving-machine. counter-stain (koun'ter-stan), n. In histol., a dye employed to stain of another color the elements not colored by the dye first used. The effect is to make the different elements more conspicuous by contrast.

counter-stain (koun'tér-stan), v. t. To treat with a counter-stain.

Rehm (25) counterstaining with a solution of carmine 1 part, liq. ammon. caustic 1 part, in water 100 parts for five minutes, then decolorizing five minutes in alcohol 100 parts, potassium nitrate 1 part, stained the centre of the uncleolus red, while leaving a peripheral rim of blue.

F. R. Bailey, in Jour. Exper. Med., Oct. 1, 1901, p. 559.

counter-stitcher (koun'ter-stieh "er), n. A shoe-sewing machine for stitching counters.

counter-stroke, n. 2. A force which produces a lesion in a part other than that where the

injury is inflicted. See counter-fissure. Buck, Med. Handbook, IV. 558.

counter-tide (koun'tér-tīd), n. A tide that opposes one already existing; the flood- or ebb-tide that is about to succeed to the one already existing; the incoming flood-tide overlying the outgoing ebb-tide as shown by the surface-ripple or bore.

counter-time, n. 3. In fencing, a pass or thrust made at a wrong or inopportune moment for the opponent, thus breaking the rhythm of his intended combination.

counter-treble (koun'ter-treb"), n. In music,

a high treble or soprano voice, or the part sung by such a voice.

count-fish (kount'fish), n. A large snapper found iu Australiau and New Zealand waters, sometimes used as a standard of size by the fishermen in selling fish in the market.

counting-cell (koun'ting-sel), n. An apparatus designed for counting the number of blood-corpuseles, bacteria, etc., in a given volume

counting-machine (koun'ting-ma-shēn"), n. A machine devised to perform the operation of

counting; a *tallying-machine (which see).
counting-scales (koun'ting-skālz), n. pl. A
weighing-scales of the portable platform type, arranged for counting small hardware articles arranged for counting small hardware articles such as nuts, bolts, etc., by weight. It has two pans, a small one being suspended from the end of the balance-beam. One sample placed in this pan will balance one hundred placed on the platform. To count out a hundred nuts it is only necessary to place one nut in the pan and to place on the platform a quantity of the same nuts just sufficient to balance it. Small articles weighing less than a quarter of a pound can be counted by placing one in the small pan and more in the larger pan: when the two pans balance there are twenty in the larger pantenuntermoster (kanut funs fifty).

count-muster (kouut'mus"ter), n. A muster or round-up, as of cattle, for the purpose of counting those that have been mustered. [Australia.]

country, n. 10. The parts of a cricket-field covered by the out-fielders; the long- or deepfield. [Colloq.]—To appeal to the country, in British parliamentary procedure, to appeal to the voters of the country hy dissolving Parliament and ordering a new general election, when some government measure, considered of vital importance by the ministry, has been defeated in the House of Commons.

try-house, generally for temporary residence as when shooting, fishing, or the like. country-cut (kun'tri-kut), a. That has been eut roughly: used in regard to timber which has been roughly sawed in the district where it was felled.

aged in the country, or at the interior or initial point of shipment (by being exposed to rain, mud, eareless handling, etc.): a term applied to cotton in the bale when so damaged. gart, Cotton Spinning, 1. 43. country-house (kun tri-hous), n. A house or

mansion in the country, as distinguished from

a town-house; a country-seat.

country-note (kun'tri-nōt), n. A bank-note issued by a local bank in England, as distin-

guished from those issued by the Bank of Eng-N. E. D.

land. N. E. D.

county¹. I. n.—Administrative county, one of the 02 divisions (exclusive of county boroughs) into which the 52 geographical and historical counties or shires of England and Wales are divided under the Local Government Act of 1888 for the administration of the county affairs which had prior to that date been administered in quarter-sessions by the justices of the peace, their powers being transferred to a new popularly elected administrative hody styled the county **council* (which see). London is an administrative county in itself, with its own county council for county affairs, but for purely local or municipal purposes it is divided into 2s boroughs, each with its own municipal council. See also **county borough.—
Body of a county, the entire territory embraced within the limits of a county.—Home counties, the group of English counties of which London is the center. These are Middlesex, Hertford, Essex, Kent, Surrey, and (sometimes) Sussex: as, farming in the Home Counties.

II. a.—County borough, in England and Wales, a

times) Sussex: as, farming in the Home Coninties.

II. a.—County borough, in England and Wales, a borough with a population of 50,000 or more, that since the passing of the Local Government Act of 1888 has had county administrative powers added to its own municipal powers and is thus a county in itself, administratively (but not politically or judicially) independent of the county in which it is situated. The county boroughs now number 67, but do not include the 28 boroughs of the administrative county of London.—County council See *council.

county-court (koun'ti-kort), v. t. To sue (one) in the county court, especially for debt. Surtees.

county-house (koun'ti-hous), n. The county poorhouse. [Eng.] coup⁴, n. 4. A stroke; a brilliant play; in

banking games the decision of all the bets by one event.—Bath coup, in whist, the act of holding up the ace and Jack when the adversary leads a king, so as to secure tenace in the suit: so called because first brought into use by the old whist-players at Bath, England.—Coup de repoa [F.], in chess, a silent or quiet move after a series of checks—Coup dur [F., 'hard stroke'], a French billiard term for what in England and America is technically the 'kiss-shot.' Until recently it comprehended only that class of strokes in which the cus-ball was made to rebound from an object-ball either on or very close to a cushion. It now includes, but with insufficient reason, shots in which there is no double contact, or 'kiss,' between any two balls whatever.—Coup fourfé [F., 'interchanged blow'], in fencing, a double blow delivered by two fencers, neither one waiting to parry: usually regarded with disfavor, as it spoils the grace and interest of the game.—Coup fuste [F., 'exact stroke'], in chess, a move made at the right or opportune time.—Grand coup [F., 'great stroke'], in whist or bridge, the trumping of a trick which is already won by the partner, or throwing a small trump when he has already trumped with a higher.—To run a coup, in billiards, to pocket the cue-ball or send it off the table without hitting any other ball: a technicality of English oblilliards. banking games the decision of all the bets by

4. In feneing, a sudden shifting of coupé, n. the guard by lifting the foil over the point of opponent's blade and thrusting same moment on the unprotected side. A coupé is in the nature of a surprise to a care-

less opponent. See ent over point, under cut. coupélet (kö-pā-let'), n. [coupé + -let.] A carriage with a conpé under-body and a ealash top over the rear seat, and without high pil-

top over the rear seat, and without high pillars on the doors or front.

couple, n. 2. (e) In astron., a double star.—
Flexural couple, a couple of forces acting upon a body in such a manner as to produce or tend to produce bending.—Mechanical couple. See def. 2 (b).—Righting couple, in naval arch., the mechanical couple formed by the force of gravity acting downward through the center of gravity and the force of huoyancy acting upward through the center of buoyancy, which tends to restore a vessel to the upright or position of equilibrium after it has been inclined from that position.—Torsion couple, in mech., a couple of forces acting so as to twist a body; a couple tending to produce torsion.—Unit moment of a couple, the moment of a couple such that the product obtained by multiplying one of the forces by the arm of the couple is equal to unity; thus the couple in which each force is one dyne and the arm is one centimeter has unit moment.

coupled, p. a. 2. As applied to quadrupeds.

coupled, p. a. 2. As applied to quadrupeds, and particularly to horses, noting the distance between the shoulders and the hip-joint: as, well coupled, short coupled.—Coupled rhythm, wheels. See *rhythm, *wheel1.

[The] first four thoracic appendages bear biramous swimming feet... those of the right and left sides being connected by transverse plates or complexs.

Parker and Haswell, Zoology, 1. 530.

Automatic coupler. See coupling, 4, (b), (2). couplet, n. 3. In Gothic arch., a double window; one having two lights only and these of the same size and style.

the same size and style.

coupling, n., 4. (e) Same as pipe-coupling.—Conevise coupling, a shaft-coupling consisting of a sleeve bored conically from each end, two bushings turned to fit the conical boring of the sleeve and bored to fit the shaft, and three bolts passing through the bushings by which they can be tightened in the sleeve and on the shaft, the bushings being slotted through on one side to permit of their being compressed sufficiently to bind the shaft—Electro-magnetic coupling, a device for coupling the parts of a mechanism, in which magnetic attraction, electrically produced and controlled, is used instead of friction or of some other of the mechanical means commonly emor of some other of the mechanical means commonly emor of some other of the mechanical means commonly employed.—Face-plate coupling, a flanged coupling; a pipe- or shaft-coupling which resembles in form the face-plate of a lathe, in that flat areas at right angles to the axis of the pipe or shaft form the joint—Flange-coupling, a device for uniting two lengths of driving-shaft. On the end of each is fastened by keys a flange on a hub; the two flanges face each other, and are bolted to each other by bolts.

coupling-grab (kup'ling-grab), n. Same as *grapple, 7.

coupling-rod (kup'ling-rod), n. Same as parallel rod (which see, under rod!). coupling-screw (kup'ling-skrö), n.

An evebolt with a strap attached to the nut, so that by screwing the bolt into the nut a chain or rope or rod fastened to the eye and to the strap may be tightened; also, a socket with female screws at each end, for connecting-rods or tension-members.

coupling-tool (kup'ling-töl), n. Tongs used in uniting objects such as lengths of pipe. [Eng.] coupon, n. 2. A small piece of metal made as a part of another piece to serve as a sample for testing-purposes.—Ex coupon, in finance, without the right to the coupon for current interest: said of a bond sold under this condition.

courbaril, n. 2. The tree which yields courbaril resin or anime. See Hymenæa.

courbash, n. See koorbash. courbature (kör-bä-tür'), n. [F., aching, lassitude, lumbago, < courbatu, overpowered by lassitude, <OF. courbatu, lit. 'beaten with short arm' (that is, with quick and many blows), (court, short, + batu, battu, beat: see battue, batter1.] An aching in the muscles. Buck, Med.

Handbook, VII. 608.
courge (körzh), n. [F., lit. 'a gourd': see gourd.]
In sea-fishing, a gourd-shaped basket for holding live bait immersed in the water.

courida (kö-rē-dä'),n. [Native name in Guiana.] In British Guiana, a verbenaeeous shrub or small tree, Avieennia nitida. It is found within the tropies on both sides of the Atlantic. It grows with the mangrove on muddy flats slong the sea-shore, and, like it, is raised on still-like-roots. Called black mangrove and blackment in the West India. blackwood in the West Indies.

The land at the mouths of these æstuaries is on the increase, forming a fringe of low ground which is soon covered with mangroves and courida bushes.

R. H. Schomburgk, Descrip. British Guiana, p. 7.

course¹, n.—21. In mining: (a) An influx of water from one direction. (b) The direction of a lode or vein. (c) A passage-way. (d) The direction of a mine working.—Course made good, naut., the true bearing of a vessel from the point left; the compass course corrected for leeway, send of the sea, variation, deviation, etc.—Compass course. See *compass.—Course of kind,) the course of nature; the ordinary procedure of nature especially as regards reproduction.

Not an egg had been laid; and it appeared upon inquiry, that the whole course of kind was suspended.

Southey, Doctor, lxxvi.

Void of course, In astrol., said of the heavenly bodies when they form no fresh aspect before leaving the sign in which they are posited.

Coursed ashler. See *ashler.

Coursed ashler. See *ashler.
court, n. 12. Among Foresters and some other
friendly societies, a local branch or lodge.

-Batl court, in Eng. law, the practice-court; a court
auxiliary to the Court of King's Bench, where motions
connected with the pleading and practice, rather than
with the merits, of a controversy were heard and determined.—Central Criminal Court, the most important
English court of criminal jurisdiction. All the higher
crimes committed in London and its surrounding country
are triable in this court, as are also the serious offenses
that were formerly within the jurisdiction of the admiralty court.—Circuit court of appeals. See *appeal.
—Court of claims. (c) A court in which claims against
the State may be heard and determined. As the sovereign
power cannot be sned by a subject, this court is usually
established by the State, and all claims against the government must be brought therein. Such courts exist in
Washington and generally in the capitals of each of the

States.—Court of error. See error.—Court of Private Land Claims, See private land claims, under ★claim1.—Court of referees. See the extract.

States.—Court of error. See error.—Court of Private Land Claims. See private land claims, under *claim1.—Court of referees. See the extract.

In the passage of private bills through the House of Commons, the practice was adopted in 1864 of the appointment of referees on such bills, consisting of the chairman of ways and means and not less than three other persons to be appointed by the speaker. The referees were formed into one or more courts, three at least being required to constitute each court, a member in every case being chairman, but receiving no salary. The referees inquired into the proposed works, etc., and reported to the house. The committees of the house on any bill might also refer any question to the referees for their decision. It was also ordered in 1864 that the referees should decide on all petitions as to the right of the petitioner to be heard, i. e. his locus standi. A caurt of referees was specially constituted for the adjudication of the court of referees on private bills in parliament, called Locus Standi reports, has been published since 1867.

Court of regard. See regard—Court of request. Same as court of conscience, under conscience.—Court of wards and Liveries, in Eng. law, a former court of record in England, having jurisdiction over questions relating to profits accruing to the crown by reason of tenures, the granting to heirs of the delivery of their inheritance out of the hands of their guardians, the granting of licenses to the king's widows to marry and imposing fines for marrying without license, and the superintendence of persons non compose mentis in the king's custody. It was abolished in the reign of charles II.—Court Scotch. See *Scotch.—Double Court, in tennis, a court for two pairs of players.—High Court of Justice, in England, a division of the Supreme Court having original and some appellate purisdiction. The lord chief justice is its president.—Levy court, the name given in some of the United States to the board of officers which administers the afairs of a county,

for publication in their columns.

COURTESY, n.—**Courtesy of the port.** (a) A courtesy extended, in some cases, to a passenger arriving from a foreign port, consisting in the examination of the passenger's baggage by a special inspector immediately upon its delivery from the ship. (b) Naval, the interchange of official visits and salutes when a war-ahip enters a foreign rest.

court-room (kort'rom), n. The room or chamber in which a court is regularly held and justice is dispensed.

courtzilite (kört'zi-līt), n. [*Courtzil, a proper name (?) + -ite².] A kind of asphaltum allied to uintahite and gilsonite.

coussinet, n. 2. In an lonic capital, a roll or

baluster-shaped member which is carried horicoutally from one volute to another. There are two in each capital. See cut at *collarino. Couvin shales. See *shale2. Coventry, Earl of. See *snip-snap-snorem.

Coventry, Earl of. See *snap-snap-snorem.

covenant, n.—Book of the Covenant. See *book.—

Covenant of non-claim, in law, in a deed of real property, substantially the same as a warranty covenant; used especially in the New England States and in deeds of extinguishment of ground-rents in Pennaylvania. It provides that neither the grantor nor his heirs shall claim any title in the property conveyed.—Covenant of salt, an inviolable covenant; from an old custom of the Hebrews of sealing an agreement by a common meal, at which salt was eaten, the preservative quality of the salt signifying the security of the agreement, 2 Chron., xiii. 5—Covenant to convey, in law, a covenant by which one party agrees to convey to another the estate described in the covenant, under certain circumstances.—Greater Book of the Covenant, Little Book of the Covenant. See *book.—Personal covenant, in law, one which binds the covenantor only; a covenant which does not run with the land.—Real covenant, in law, one which binds not only the covenantor but also the property which is the subjectmatter of the covenant; a covenant which runs with land.—Transitive covenant, in law, one which binds both the covenantor and his representatives.—Writ of covenant, a legal process which issues in favor of a party who claims damages for breach of covenant.

cover1, v. I. trans. 15. In hockey, basket-ball, and other sports, to stand by the side of or in front of (an opponent), so as to render it impossible for him to make a play.—17. In cricket, to field; to catch or stop (the ball) and return

it.—To cover court. See *court.

II. intrans. 4. In card-playing, to play a higher card on a card led or played, when the higher card is not the best of the suit: as, queen on jack, when the ace and king have not yet

been played.

cover, 1 n. 8. In cricket, cover-point; a fielder
who stands behind point, and more in the
direction of the bowler; also, his position in the field.—9. In calico-printing, a fine pattern engraved on a roller to be printed over a pat-

riveted work with plates, the lap-piece which covers the joint and is riveted to the butting The double butt-joint has an outer edges. The double butt-joint has an outer and an inner cover-plate.—Crown cover, in forestry, the canopy formed by the crowns of all the trees in a forest, or, in an irregular forest, by the crowns of all trees in a specified crown class.—Dead cover, in English billiards, a position which corresponds to "tie up" in the French or American game, the balls being so almed that the striker can effect a count only at the risk of losing position. W. Broadfoot, Billiards, p. 339.—Double Gover, in cricket, extra-cover, or extra-cover point; the fielder who plays between cover-point and mid-off, but farther from the batsman's wicket than either of them; also, his position in the field.—Forest cover, in forestry, all trees and other plants in a forest.

cover³ (kuv'er), n. [W. cyfair.] The ordinary measure of land in South Wales, two thirds of

an imperial acre. N. E. D. covering-piece (cuv'er-ing-pes), n. In the Echinodermata, especially the Crinoidea, one of the plates arranged along both sides of the ambulacral grooves which cover the ambu-

covering-plate (kuv'èr-ing-plāt"), n. In Crinoidea, one of the calcareous plates, situated along the margins of the food-grooves in the arms, which, by opening and closing, as occasion demands, serve to protect the soft parts. Also called ambulacral.

cover-slip, n. 2. In cricket: (a) A fielder formerly placed to back up or cover the shortslip. (b) His position in the field.

covert, n.—Covert play. See close *play.—Ear coverts, in ornith., the feathers covering the external opening of the ear.

co-vibration (ko"vi-bra'shon), n. [co-1 + vibration.] A concomitant or sympathetic vibra-tion. C. R. Squire, in Amer. Jour. Psychol., XII. 588.

Covillea (kō-vil'e-ā), n. [NL. (Vail, 1895), named after Frederick V. Coville, an American botanist.] A genus of dicotyledonous plants belonging to the family Zygophyllacex. See Larrea and creosote-bush.

co-volume (kō-vol'ūm), n. [co-I + volume.] In phys. chem., that part of the total volume of a body which is not occupied by the moleco-volume (kō-vol'ūm), n. cules, and which is the volume available for the oscillatory and translatory motions of the atoms and molecules.

 $\mathbf{cow^1}$, n.— The \mathbf{cow} with the iron tail, the pump, as an alleged resort of the milkmen to enhance the quantity of their milk. [Colloq.]

The cow with the iron tail is still milked in London.

All the Year Round.

cowalker (kō-wâk'er), n. In folk-lore, a double; an apparitional counterpart, which may show itself in places remote from that occupied by the individual in person.

A is on his way to X, or is dreaming that he is on his way, and is seen at X by P, or by P, Q, and R, as may happen. These cases are common, and were explained, in Celtic philosophy, by the theory of the "Co-Walker," a kind of "astral body."

Encyc. Brit., XXXII. 52.

cowan (kou'an), n. [Also cowen, kowan; origin unknown.] 1. One whose occupation is the building of dry stone walls: used especially of one who has not been regularly trained in the mason's trade. [Scotch.] Hence -2. One who is not a Free-Mason.



Cowbane (Oxypolis rigidior).

upper part of plant and inflorescence, one eighth natural size;
b, fruit and cross-section of same, three fourths natural size.

tern in resist.-10. In making a butt-joint in coward-tree (kou'grd-tre), n. A tree under which all men who manifest fear in battle are killed: used by some Zulu tribes. G. S. Hall,

Adolescence, II. 720.

cowbane, n. 2. An American umbelliferous swamp-plant, Oxypolis rigidior, ranging from New York to Florida and westward to Minnesota and Louisiana, supposed to be poisonous to cattle. Also called *hemlock-dropwort*: and water-dropwort. See cut in middle column.

cow-basil (kou'baz-il), n. Same as cow-hcrb. cow-bind (kou'bind), n. The common or redberried bryony, Bryonia dioica. See bryony. cow-clover (kou'klō"vėr), n. See *clover. cow-cockle (kou'kok"l), n. See *ceckle!. cow-creamer (kou'kvē"mėr), n. A cream-jug

made in the shape of a cow. The cream is poured in through a hole in the back, the open mouth of the cow serving for a ; spont, while the curled tail answers for a handle. Such jugs were extensively made in England and in the United States from the middle of the eighteenth to the middle of the nineteenth century, both in cream-colored and brown glazed ware.

cowen, n. Same as *cohen.

cow-fish, n., (b) (3) A name applied in New England to the grampus, Grompus griseus. (e) A name applied in Demerara to the manatee.

cow-keeper, n. 2. A person, in a city or town, who keeps stall-fed cows and retails the milk.

The most algnificant feature in connexion with the milk supply of the netropolia at the beginning of the 20th century is the gradual extinction of the town "concheeper."

Ency. Brit., XXVII. 363. keeper.

cowl³ (koul), n. See *kowl.
cow-lady, n. 2. In angling: (a) A natural
fly used by anglers. (b) An artificial imitation of the same, in which the body is of peacock's feather and the wings of red backle of a cock.

cow-lick, n. 2. pl. The snowdrop-tree, Mohrodendron dipterum.

rodendron dipterum.

COW-PGA, n. The cow-pea is a bean rather than a pea, having large leaves with three leaflets and seeds frequently oblong or kidney-shaped. It is commonly classed as l'igna Sinensis, but probably includes more than one natural species, the red-seeded and black-seeded varieties forming one natural group; the round-seeded 'haly-peas' a second; the large black-eyed and purple-cyed a third; and the mottled and speckled 'whippoorwills, together with plain yellow, pinkish, and light brown a fourth. The cow-pea is an annual, its numerous varieties passing through all grades of bush, trailing, and running habit, the less rampant heing better adapted to short seasons. It requires much heat and will bear no frost; hence it is most at home in the South, but varieties have been



Cow-pea (Vigna Sinensis). a, plant, about one fourth natural size; b, black-eye variety of bean of Vigna Sinensis, about natural size.

accured which will mature in 60 days, and its culture is extending northward. In the southern United States it has long been of great value, and with the introduction of mixed farming is increasingly appreciated. It is available for forage and soiling and for hay, in the latter use, when well cured, ranking with red clover; and it is one of the foremost nitrogen-gatherers. For silage it is inferior to corn or sorghum. The shelled seeds, chiefly of the 'black-eye pea,' are used for human food, either fresh or dried.

— Cow-pea weevil. See *weevil.

— The practice

cow-penning (kou'pen'ing), n. The practice of penning eattle in orange-groves over night, the position of the pens being changed every few days. Yearbook U. S. Dept. Agr., 1894, few days. p. 201.

cowperitis (kou- or kö-pe-ri'tis), n. [NL., < Cowper(ian glands) + -itis.] Inflammation of

the Cowperian glands.

cow-puncher (kou'pun"cher), n. A cattledriver on the great plains of the United States. Sometimes used for cow-boy. [Slang.]

cow-run (kou'run), n. A common for pasturing cows.

cowry, n. 3. A unit of surface used in Hindustan, equal to a square yard.—Head of cow-ries, a count of 2,000 cowries, equal to about sixpence, in the British African Colonies.

cowslip, n.—Cape cowslip, any plant of the genus Lachenalia. See leopard-lily.

cow-tick (kou'tik), n. An ixedid, Boöphilus bovis. Also called *cattle-tick (which see, with cut).

cow-tree, n. 2. In British Guiana, the hya-hya or milk-tree, Tabernæmontana utilis. See milk-tree, 2, and Tabernæmontana.—3. The karaka of New Zealand, Corynocarpus lævigata, so called by the colonists from the fondness of cows for its leaves. See *karaka.—Cow-tree wax, a wax-like substance obtained by boiling the milky juice of the South American cow-tree, Piratinera utilis: used locally for making candles.—Rio Negro cow-tree. See *couma.

Coxa vara, a defermity marked by a bending of the neck of the thigh-bone, causing adduction of the limb.

Coxal gland. See *gland—Coxal organ, in Peripatus, an eversible, furrow-like structure, with
tunid lips and lined with amooth non-tuberculate epithelium, situated on the ventral sides of certain of the
legs.—Coxal sacs, certain eversible sacs which function as blood-gills and occur near the coxe in certain
diplepoda and other Myriopoda, and in the Symphyla
and Synaptera. A. S. Packard, Text-book of Entom., p. 14.

coxarthrocace (kok-sär-throk'a-sē), n. [NL., ζ L. coxa, hip, + Gr. ἀρθρον, joint, + κάκη, ill condition (arthrocace.)] Hip-joint disease.

coxarthropathy (kok-sär-throp'a-thi), n. [NL., L. coxa, hip, + Gr. άρθρον, joint, + -παθεια,
 πάθος, disease.] Hip-joint disease.
 coxecphysis (kox-ek' fi-sis), n. [NL.. < L.

coxa, thigh, + Gr. ἐκφυσις, outgrowth.] In crustaceans, a branch borne by the first joint or coxa of any appendage; an epignathite or epipodite.

coxitis, n.—Senile coxitis, rheumatoid arthritia located in the hip-joint.

coxodynia (kok-sō-din'i-ä), n. [NL., ζ L coxa, hip, + ὁδύνη, pain.] Same as coxalgia.

coxognathite (kcks-og'na-thīt), n. [L. coxa, thigh, + Gr. γνάθος, jaw, + -itc².] The basal joint or coxa of a foot-jaw.

coxotuberculosis (kok"sō-tū-ber"kū-lō'sis), n. [NL., < L. coxa, hip, + NL. tuberculosis.] Tuberculous disease of the hip-joint.

coxy, a. See *cocksy.

coyote, n. No less than eleven species of coyotes have been recognized by Merriam, the name Canis latrans being reatricted to the eastern form whose type-locality is Iowa. The species from Lower California is C. peninsulæ; the Californian form is C. ochropus; and that from Indian Territory is C. frustror.

coyoting (kō-yō'ting), n. Mining alone in a desultory way or in irregular openings and burrows like those made by the coyote. [Colloq., western U. S.]
Cozio counter-attack. See *attack.

cp. A contraction of compare.

C. P. An abbreviation (b) of candle-power;
(c) of Chief Patriarch; (d) of Clerk of the Peace; (e) of Code of Procedure; (f) of Congregatio Passionis, Congregation of the Passion. cpd. An abbreviation of compound.

C. P. D., C. P. D. M. In astron., abbreviations of Cape (of Good Hope) Photographic Durchmusterung. See *durchmusterung.

C. P. M. Au abbreviation of common particular meter.

3. An abbreviation of crown.

Cr. 3. An abbreviation of crown.
C. R. An abbreviation (c) of the Latin Civis

Romanus, Roman citizen.

crab^I, n., 7. (g) The Ironwerk affixed to the end of a carriage-pole to which are attached the straps or chains which secure the horses to the pole. It consists of a socket and two branching arms with loop-ends, with er without a long whiffletree-hook.

8. In Australia, the marine crustacean, Scylla serrata; also, Telphusa transversa, a erustacean found in fresh water.—9. pl. Same as crabyaus.—Black crab, Gecarcinus ruricola, a land-crab
ilving in the Antilles: its name is due to the markings
on its carapace.—Chevalier crab, a swift-running sandcrab, of the genns Ocypoda. Also called horseman-crab
—Crab nebula. See *nebula.—Croele crab, a large
hairy West Indian crab with prickly claws.—Demonfaced crab, the Japanese Dorippe dorsipes.—Fighting
crab. Same as fiddler-crab (which see, under crab), 1).—
Great warty crab. Same as lazy *crab.—Heraldie
crab, Huenia heraldiea, a crab whose markings suggest a
heraldie shield.—Jonah crab, a large crab, Caneer boreadis, found along the North Atlantic coast of the United
States.—Lazy crab, in the East and West Indies, Parthenope horrida. Also called great warty crab.—Oldman's-face crab, a local name for a crab, Atelecyclus septendentatus, found along the southern coast of England.—
Sargasso crab, a small crab, Planes minutus, that lives
among sargasso weeds and is protectively colored.—Swift
crab. (a) Any species of the beach-crab Ocypoda. (b)

smaller. The commonest species is C. antracka.

crab-hole (krab'hôl), n. A hole made by a landcrab hore (krab'hôl), n. A hole made by a landcrab rore caw-fish; also, the hollow afterwards
or craw-fish; also, the hollo found in fresh water .- 9. pl. Same as crab-

A cliff-crab, especially Grapsus pictus.—To turn out crabs. See *turn.—Velvet crab. Same as *tlady-crab. 2, (b).—Warty crab. Same as lazy *crab.—White crab, a beach-crab; a sprite.

Cracca (krak' ii), n. [NL. (Lunæus, 1753, 1753, 1753]

crab², n. 2. The American crab-apple, Matus coronaria, also called sweet crab and fragrant crab, is a small



a, flowering branch, δ, fruiting branch. ("Manual of the Trees of North American) (From Sargent's

tree from 25 to 30 feet high, with a trunk rarely a foot in tree from 25 to 30 feet high, with a trunk rarely a foot in diameter, abundant in the Appalachian region and in the region of the Great Lakes and in the Mississippi valley, extending eastward to New York, Pennsylvania, and the District of Columbia. It has somewhat ovate, sharply serrate leaves and large, handsome, white or rose-colored flowers in umbels on slender pedicels. Several in each umbel mature, the fruits hanging on long stems. The apples are nearly apherical with a depression at base and summit, an inch or more in diameter, green, but attaining a vallegish has when fully rine separatings turning turning nearly applies are licearly spherical with a deplession at base and summit, an inch or more in diameter, green, but attaining a yellowish hue when fully ripe, sometimes turning nearly red. The sarcocarp is compact, heavy, and juiey, sharply acid, but with a pleasant aroma. They are little eaten in a raw state, but are highly valued for preserves and make excellent sauce. The lowa crab-apple, M. Ioensis, which is confined to the Mississippi basin, but ranges from Minnesota to Texas, is similar to the last and is often confounded with it, but has narrower leaves and somewhat larger fruit. The Soulard crab-apple, M. Soulardi, of the same region is regarded by some as a hybrid between M. Ioensis and the common apple. The fruit is larger than that of the others (sometimes 2 inches across) and nseful for the same purpose as the quince. The narrow-leaf crab-apple, M. angustifolia, of the Atlantic and Gulf States has much smaller fruit and is of little value. The Oregon crab-apple, M. rivularis, of the Pacific coast from California to Alaska, has a pleasant subacid fruit not much larger than that of the hawthorn.

crab³, v. t. 3. To 'pull to pieces'; criticize or

crab3, v.t. 3. To 'pull to pieces'; criticize or find fault with; hence, to hinder, spoil or defeat by adverse criticism of trivial details.

crabbing-trough (krab'ing-trôf), n. A trough

crab-capstan (krab'kap-stan), n. A portable wooden upright pillar or shaft having a large socket or hole in the upper part into which is inserted a long strong wooden beam or lever: used for lifting weights, etc., commonly in ship-

crab-eater, n. 3. A West Indian name of rab-eater, n. 3. A west moral name of several small herons, including the green heron, Ardea virescens and the blue heron, Ardea carulca.

crab-eyestone (krab-i'ston), n. A gastrolith of a crab; also, any eyestone.

crab-fish (krab'fish), n. A crab.

The fox catches crab fish with his tail, which Olana Magnus saith he himself was an eye-witness of.

Derham, in Johnson'a Dictionary, 8th ed., 1799.

crab-grass, n. 1. Any species of Syntherisma. S. linearis, distinguished as smooth crab-grass, is abundant in the southern United States, but is little valued.— Sprouting crab-grass, Panicum proliferum, a succulent grass quite different from Syntherisma, sending out branches from all the upper nodes. It is liked by cattle but is hardly worthy of cultivation.

crab-hawk (krab 'hâk), n. One of several species of birds of prey of the genus *Urubitinga*, related to the harpy-cagle but much

smaller. The commonest species is *U. anthracina*, of Central and South America and the West Indies. **crab-hole** (krab'hōl), n. A hole made by a landerab or craw-fish; also, the hollow afterwards formed from one of these burrows by rain or by

Cracca (krak'ä), n. [NL. (Lunnæus, 1753, adopted from his 'Flora Zeylanica,' 1747), < L. cracca, an unidentified leguminous plant.]

A genus of dicotyledonous plants belonging to the family Fabaceæ. See Tophrosia.

crack, v. I. intrans. 4. (b) In golf, said of a player 'who goes to pieces.' In a close match a player cracks when he fails to maintain his average play of the preceding holes and allows his opponent thereafter easily to beat him. [Collog.]

9. To shoot with small arms; fire: as, to crack at birds.—10. To become harsh or unmanageable; more specifically, to break involun-

tarily into an upper register: said of a voice.

II. trans. 10. In cricket, to hit (a ball) hard with the bat: usually said of balls hit in front of the wicket. [Colloq.] - 11. In music, to render (a voice) harsh or unmanageable.- To crack on sail, to carry a press of sail; crowd on sail.

crack, n. 17. In a length of cloth, a short space without weft.—18. A burglary; a housebreaking; also, a cracksman; a burglar. [Thieves'

crackajack (krak'a-jak), a. and n. [Also crackcrjack; vaguely formed from cracker1 + jack1.] I. a. Extraordinarily or exceptionally fine:

ne; 'bang-up.' [Slang.]
II. n. Something, as a horse, a bicycle, or the like, that is extraordinarily fine; a 'bangup' thing. [Slang.]

We have had a few sales, but business has been quiet. We We have had a few sales, our distincts has been quiet. We got in a load of crackajacks during the week and among others Warlock, Nuttingham Gift and J. Max Davis, which we call the 'Marquis of Michigan,' were in the lot. We also had seven or eight pairs, the equal of anything ever hrought to our stables.

Spirit of the Times, CXXXVI. 435.

crackbrain (krak'brān), n. One who is cracked or impaired intellectually; a crazy fellow.

Carbule.

cracked, p. a.—Cracked-pot sound. Same as *bruit de not félé. (Cracker, n.— Cracker-cutting machine, in a hakery, a machine for stamping and cutting a sheet of sponge or water dough into crackers ready for baking. In general plan it resembles a panning-machine (which see).

[Colloq.]

The conditions of the race laid down definitely that every part of a competing vehicle (automobile) must be built in the country by it represented, and the use of foreign tirca of course crabbed the deal.

New York Independent, Dec. 12, 1901.

Yes York Independent, Dec. 12, 1901.

A trough

A trough separated by successively raising the temperature of the mixture, so that they are distilled off successively in the order of their volatility: used specifically of petroleum compounds, which in the refining process are separated by increasing the temperature of distillation.

cracking-machine (krak'ing-ma-shēn"), n. machine for producing fine lines like cracks on

the surface of a millstone. crack-jaw (krak'jâ), a. Jaw-breaking; hard to pronounce: as, a Russian crack-jaw name.

It is a story told of a Pelish nobleman, a count somebody: It is a story told of a Folian monoman, a common of the Inever can remember their crack-jaw names.

Disraeli, Vivian Grey, v. 13.

crackle, n. 3. In pathol., same as crepitant râle (which see, under râle).—Fish-roe crackle, a finely crackled glaze on Chinese porcelain

crackler (krak'ler), n. A soft-shell crab when the new shell begins to harden and gives a crackling noise when pressed.

crack-preventer (krak 'prē-ven "ter), n. A contrivance attached to a loom to prevent open spaces in the cloth in places where the weft fails, from any cause, to be laid in the web.

cracky² (krak'i), interj. An exclamation of surprise or astonishment. [Slang.]

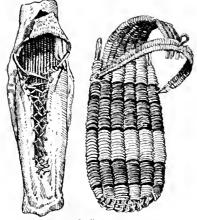
cradle, n. 4. (n) in a gun-carriage, a bronze or bronze-lined frame in which the gun slides when recoiling. Jour. U. S. Artillery, Nov.-Dec., 1993, p. 290. (o) A framework of timbers in which ocean-going rafts of logs are built. (p) A rocking part of the building-motion, on a cotton-roving machine, which regulates the wind of the roving on the bobbin.

roving on the bobbin.

cradle, v. t. 5. To reinforce on the back with erossed strips in order to prevent warping: as, to cradle a picture.—6. To support on or in a cradle: as, to cradle a ship while it is being raised to a higher level.—7. To cut (a cask) in two longitudinally. Knight, Dict. Mech.

cradle-board (krā'dl-bord), n. A board to which an infant is more or less firmly strapped: the cradle of most North American tribes.

cradle-frame (krā'dl-frām), n. A framework of willow or similar material, used like a cradle-



Cradle-frames

board by some of the Indians of western and southwestern North America. cradle-gage (krā'dl-gāj), n.

An instrument for gaging the angle or setting of the top comb of a Heilmann cotton-combing machine. cradle-knoll (krā'dl-nōl), n. In the construc-

tion of logging-roads, a small knoll which requires grading.

cradle-roof (kra'dl-röf), n. A roof having (as

seen from within) the general shape of a cradle-vault, wagon-vault, or tunnet-vault: always a construction of light materials, not of masonry. It is usually built with wooden ribs bent or cut to the curve and boarded up. cradle-song (krā'dl-sông), n. A song sung to a babe in the cradle; a lullaby.

craft¹, n.—Arts and crafts. See $\star art^2$, n. craft-warden (kraft'wâr"den), n. The warden of a craft-gild.

About the same time, the 'craft wardens' of the various fellowships . . . were levying excessive fces on the admission of apprentices.

Froude, Ilist. Eng., I. i.

mission of apprentices. Froude, Ilist. Eng., I. i. CTag¹, n. 2. In geological classification this term has been applied to divisions of the Pliocene Tertiary in England, which are, in a general sense, banks or erags of marine shells. The Coralline crag, a division of the Older Pliocene, also called the Bryozoan, White, or Sufolk crag, is essentially made up of fragments of molluscan shells and bryozoans or corallines. The Red crag, a brown or ferruginous shelly band, is of the Newer Pliocene, and has been divided from the base up into the Walton, Oakley, Newbourn, and Butley crags. The Norwich, Chillesford, and Weybourn crags follow in order above the Red crag, and terminate the marine series.

crag-bed (krag'bed), n. A coarse-grained fragmental deposit formed just before the glacial period. Sec crag¹, 2.

crag-bone (krag'bon), n. The neck-bone; the

cervical vertebrae considered as one bone.
crag-fast (krag'fast), a. Fast between two
erags, as a sheep on a craggy hillside. [Eng.]
craggan (krag'an), n. [Var. of crogan, < Gael.
Ir. crogan, O. Ir. crocan, W. crochan, a pot: see crock!.] A vessel of rude pottery found in the

Hebrides.

cram, n. 4. A densely packed gathering or erowd; a crush; a 'jam.' [Colloq.]

It was a prodigious cram and we turned away no end discound.

Dickens.

crambid (kram'bid), n. and a. I. n. A member of the family Crambidæ.

II. a. Of or belonging to the lepidopterons family Crambidæ.

cram-book (kram'bùk), n. A book specially prepared for 'cramming' a subject for an ex-

Cramp game, any game at billiards in which one player, by limiting his opportunities for counting (for example, always playing on the red hall first, or playing four pockets against six), gives his opponent odds.

pockets against six), gives his opponent odds.

Cramp?, ".— Compositors', glass-blowers', mustcians', ".— Compositors', glass-blowers', mustcians', eramp. See occupation *cramp.—Occupation or professional cramp, an involuntary and irregular contraction occurring in muscles which have been strained by overnse in certain occupations whenever an attempt is made to resume the occupation in question. This cramp or spasm has received various names descriptive of the sufferer's occupation. See writers' cramp, under writer.—Planists', sewers', shoemakers', typewriters' cramp. See occupation *cramp.

Cramper (kram'per), n. A length of yarn which sailors sometimes tie around their legs to prevent cramp.

to prevent cramp.

cramp-frame (kramp'frām), n. A clampframe; the frame of a C-clamp; the frame of a cramp-drill.

cramp-dnic (kramp'hōl), n. A hole to receive a locking-pin; a hole for a clamping-bolt. crampit, n., 2. (c) An iron spike or bar driven

or built into a wall to serve as a support for other parts or to bind the wall itself. [Eng.] other parts or to bind the wall itself. [Eng.] cramp-word (kramp'wèrd), n. A word that is hard to understand or pronounce. N. E. D. Cranberry blast. See *blast.—Cranberry fire-worm. Same as blackhead *cranberry.worm.—Cranberry gall-fly, katydid, etc. See *yall-fly, *katydid, etc.—Cranberry tip-worm.—See tip-worm.—Swedish cranberry, the mountain-cranberry: so called when imported into the United States.—Upland or wild cranberry, the bearberry, *Arctostaphylos Uca-arsi.*

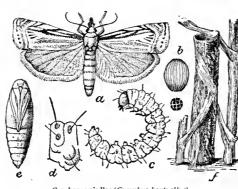
cranberry-aphis (kran'ber-i-ā"fis), n. An undetermined plant-louse which affects the

undetermined plant-louse which affects the leaves and young stems of the cranberry in the eastern United States.

cranberry-bog (krau'ber-i-bog), n. A bo which eranberries grow or are cultivated.

cranberry-gall (kran'ber-i-gâl), n. A pustular swelling sometimes found on eranberry-leaves, eaused by the fungus Synchytrium Vaccinii. See *qall-fungus.

cranberry-girdler (kran'ber-i-ger "dler), n. The larva of a crambid moth, Crambus hortuel-



Cranberry-girdler (Crambus hortuellus). a, moth: b, egg; c, larva; d, segment of larva; e, pupa; f, nest of larva. All enlarged. (Scudder, U. S. D. A.)

lus. It lives in silken galleries, feeding upon the runners of the vine and girdling the stem. Also called girdle-worm.

cranberry-looper (kran'ber-i-lö"per), n. The larva of an American geometrid moth, Xanthotype crocataria.

cranberry-marsh (kran'ber-i-märsh), n. marshy spot, periodically flooded, in which cranberries are cultivated for the market.

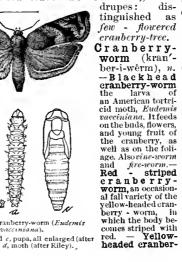
cranberry-moth (kran'ber-i-môth"), n.—Glistening cranberry-moth, an American tortricid moth, Eudemis oxycoccana, the adult of a small caterpillar which feeds on cranberry.

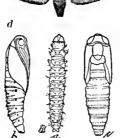
cranberry-scale (kran'ber-i-skāl), n. scale-insect, Aspidiotus ancylus. Also known as Putnam's scale.

cranberry-tree, n. 2. In North Amer-ica, Fiburnum Pennfromsylvania to

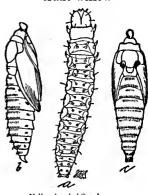


Cranberry-scale (Aspidiotus ancylus). (Comstock, U. S. D. A.) Enlarged. Alaska, and somewhat resembling V. Opulus in its 3-lobed leaves and reddish globose





a, larva; b and c, pupa, all enlarged (after Smith); d, moth (after Riley).



Yellow-headed Cranberry-worm (Alceris minuta). a, larva; b and c, pupa. All enlarged.

ry-worm, the larva of an American tortricld moth, Alceris minuta. It feeds on cranberry-leaves, often spinning several small twigs together.

crane², n.—Automotor-crane, a form of crane which is supported on a car whose wheels are adapted to run on common roads.—Cantaliver crane, a crane supported at the middle upon a lofty frame and having a long cantaliver boom on which travels the hoisting-trolley. The frame may revolve upon a stationary platform, or may



Cantaliver Crane. Balanced revolving type.

 α , foundation supporting treutar track on which crane traverses in a circle; δ , platform supporting power-house and central structure; c, cantaliver arms; d, trolley supporting hoist and traversing arms, hoisting chains not shown; c, house for bother engine, hoisting drums and swinging gear. Total length of arms 356 ft. 6 in.

travel upon a track or runway. Shipyard and blast-furnace cantaliver cranes are often 100 feet high with a boom 350 feet long.—Chain-block crane, a crane having a chain-block for its hoisting apparatus, in place of the usual geared drum.—Electric crane, a swing or traveling crane, on which electric motors are used to furnish the power required for any or all of the motions. Traveling cranes are almost always equipped with motors, because for this purpose electric transmission is far more convenient than any other. On such cranea there is usually a motor for each motion —hoisting, cross-travel, and end-travel. When auxiliary hoists are fitted they usually have their own motors, since this simplifies the design and operation.—Floating crane, a bridge-or other type of crane mounted upon a float or pontoon.—Gauntree crane, a bridge-crane in which the bridge is carried by structural-iron supports resting on car-trucks, one truck supporting the out-board end of the bridge and traveling upon a single rail, and the other supporting the other end of the bridge and traveling upon a broad-gage track. These cranes are made in many forms for use in railroad-yards, shipyards, blast-furnace yards, and on ore and coal-docks, and are often of very great size.—Molders' crane. Same as molding-crane.—Railway-crane. (a) A crane designed for work on railways, especially in wrecking. (b) A crane mounted upon a car and fitted to run or traverse on a railway laid upon the ground, and either self-propelling or driven by a locomotive.—Warehouse-crane, a light form of hoisting apparatus used in warehouses for lifting articles and for interior transportation, having a capacity range from 1,000 to 6,000 pounds, and operated either by hand or by pneumatic or electric power.—Yard-crane, a gamntree-crane.

crane-barge (krān'bārj), n. See *barge1.

crane-bridge (kran' brij), n. See *barge¹.

crane-bridge (kran' brij), n. The girder or bridge of a traveling erane, on which the hoist can travel transversely. The bridge is usually made of a pair of girders, each carrying a track for the hoist, though in very light cranes a single girder is sometimes used.

Crane-fly orchis. See *Tipularia*.—False crane-fly, any member of the dipterons family *Ryphidæ*. They are generally small files with rounded and spotted wings. Their larvæ are found in decaying wood and fruit, in cowdung, and in dirty-water.

crane-house (kran'hous), n. 1. A building or shed covering a crane.—2. A shed built at the base of a large crane to protect the machinery and operator from the weather.

rane-neck (kran'nek), n. The long thin section of a coach which connects the driver's seat with the body.

crane's-bill, n.— Spotted or wild crane's-bill, Geranium maculatum, a favorite American wildflower found in woods from Newfoundland to Manitobs and south to Alabama and Kansas. It is a leafy herb a foot or more high, with large showy rose-purple flowers.

crane-willow (krān'wil'ō), n. The button-bush, Cephalanthus occidentalis.

crangonid (krang-gon'id), n. and a. I. n. A shrimp-like crustacean belonging to the family Crangonidæ.

II. a. Of or pertaining to the Crangonidæ. crangonoid (krang'gon-oid), a. Shrimp-like, as a crustacean.

Cranial cartilage, flexure. See *cartilage, tlexure

Granial index. See *index. craniate (krā'ni-āt), a. [NL. *craniatus, ζ L. cranium, ζ Gr. κρανίον, skull.] Having a skull or eranium, as do all vertebrates above the lampreys.

It [Amphioxus] exhibits what appears to be a primordial condition of vertebrate organization, a condition which is, in fact, partly recapitulated in the course of the embryonic stages of craniate vertebrates.

Encyc. Brit., XXV. 385.

cranidium (kra-nid'i-um), n.; pl. cranidia (-ä). [NL., & Gr. κρανίον, skull, +dim. -ιδιον.] In the cephalon of the trilobites, the central piece included within the facial sutures, consisting of the glabella and fixed cheeks.

craniectomy (krā-ni-ek'tō-mi), n. [Gr. κρανίον, skull, + ἐκτομή, excision.] Excision of a thin strip of the skull in a young child to relieve

pressure on the brain.

craniodidymus (krā"ni-ō-did'i-mus), n.; pl craniodidymi (-mi). [NL., \langle Gr. $\kappa \rho a \nu i o \nu$, skull, + $\delta i \delta \nu \mu o \varsigma$, twin.] A monster with two heads.

ocoupos, twin.] A monster with two heads. **craniofacial fissure**, in anat, a vertical fissure, or vaculty, in line with the frontonasal articulation, separating the mesethmoid more or less completely into two parts. *Proc. Zool. Soc. London*, 1903, l. 299. **craniognosy** (krā-ni-og'nō-si), n. [Gr. κρανίον,

σις, knowledge.] Same as craniology. craniographer (kra-ni-og'ra-fer), n. One who crank-motion (krangk'mö*shon), n. The modescribes and makes drawings of skulls; one versed in eraniography. craniohematoncus (krā"ni-ō-hem-a-tong'kus)

[NL., $\langle Gr. \kappa \rho a \nu i o \nu, skull, + a i \mu a (\tau -), blood,$ +όγκος, mass.] Same as cephalæmatoma. craniol. An abbreviation of craniology.

craniologically (krā"ni-ō-loj'i-kal-i), adv. With regard to the cranium, or to the zoölogical characters of the cranium.

craniom. An abbreviation of craniometry. craniomalacia (krā*ni-ō-ma-lā'si-ä), n. [NL., ζGr. κρανίον, skull, +μολακία, softness.] Same as craniotabes.

craniometrically (krā"ni-ō-met'ri-kal-i), adv. According to the rules and methods of craniometry; by means of the craniometer.

craniometrist (krā-ni-om'ē-trist), n. A person who measures skulls.

craniopathy (krā-ni-op'a-thi), n. [Gr. κρανίον, skull, + -παθια, < πάθος, disease.] Any disease of the skull.

eraniorachischisis (krā"ni-ō-ra-kis'ki-sis), n.

cranioschisis (krā-ni-os'ki-sis), n. [NL., < Gr. κρανίον, skull, + σχίσις, eleaving, fissure.] Fis-

craniosclerosis (krā"ni-ō-sklē-rō'sis), π. [NL., ⟨ Gr. κρανίον, sknll, + σκλήρωσις, hardening.]
Thickening of the skull.

hone, + -osis.] eranial sutures. Premature closure of the

craniote (krā'ni-ōt), a. and n. [NL. "craniotus, ⟨ Gr. "κρανιωτός, ⟨ κρανίον, skull.] **I.** a. Having a skull.

II. n. A member of the Craniota, or vertebrates which have a well-defined skull.

craniotome (krā'ni-ō-tōm), n. [Gr. κρανίον, skull, + -τομος, < ταμεῖν, eut.] A surgical inatrument for cutting bone, used in operations on the skull.

craniotomy, n.—Linear craniotomy, incision through the cranium of a child to relieve tension.

craniotopography (krā'ni-ō-tō-pog'ra-fi), n.
[Gr. kpaviov, skull, + E. topography.] The mapping out of the surface of the skull in order to determine the relation of the various parts to the brain beneath.

craniotractor (krā"ni-ō-trak'tor), n. [NL., κρανίον, akull, + L. tractor, tractor.] A form

of eranioelast.

cranitis (krā-ni'tis), n. [Nl., ζ Gr. κρανίον, skull, + -itis.] Inflammation of the eranial bones

crank², n.—Overhanging crank, a crank whose shaft-bearing is on one side of the crank-pln only. The crank is on the end of the shaft. When the bearing is on the right of the crank, as the observer looks along the mechanism which drives the crank in a horizontal engine, the crank is right-handed.—Three-throw crank, a shaft

which has three cranks forged upon it, or which is built up of separate pieces, with an angle between any two, and is used in three-cylinder engines or pumps. The usual arrangement of a three-throw erank in an engme or pump is to place the cranks 120 degrees apart to secure as uniform a turning movement as possible.

crank², r. t. 4. To turn with a crank; turn (an engine) with a hand-crank. This is usually done to the property in grass purple.

done to draw in and compress the charge in a gas-engine so that it will be of the desired composition under pressure and ready to be ignited.

crank-arm (krangk'ärm), n. That part of a crank which joins the center of the shaft to be turned by it to the handle or pin to which the power or resistance is applied.

crank-cheek (krangk'chek), n. A cheek-piece; a crank-arm; the crank to which the crank-pin is fastened.

crank-circle (krangk'sêr"kl), n. The circle described by a crank-pin; specifically, the circle in a valve-diagram or the elevation of a

Cranked axle or shaft. See *shaft. crank-effort (krangk'ef"ort), n. The tangential force acting on the erank-pin of an engine. This force depends upon the angle between the crank and the connecting-rod, the pressure acting on the piston, and the effect of the inertia of the reciprocating parts of the engine.

cranking (krangk'ing), u. 1. In cutting tools, the hollowing out of the tool immediately behind the cutting edge. This is done in order that the tool may have a tendency to spring back and out, rather than dig into work, when making a heavy cut.

2. The operation of turning a crank, specification.

cally in order to start an internal-combustion

motor, as in a motor-car.

tion of a body when driving or when driven by a erank. Such motion is called *harmonic*, as the reciprocating part traverses the diameter of the circle in the same time in which the crank-pin is moving uniformly over the semi-circumference of the same circle.

crank-pit (krangk'pit), n. A recess, below the floor-line around an engine, in which the main crank and the lower end of its connect-

ing-rod revolve.

crank-web (krangk'web), n. That part of a crank which connects the crank-pin hub to the shaft-hub. In short cranks this may be as large in

shall-Dub. In short cranks this may be as large in cross-section as either hul, while in long cranks it is usually cut away to make it as light as possible.

crank-wrist (krangk'rist), n. In mach., the short length of the doublo crank between the cross of the II. It forms the grank him surface. arms of the U. It forms the crank-pin surface to which the connecting-rod is attached.

crap³ (krap), n. [Perhaps ult. connected with crop, v.] 1. A throw with dice; especially, a losing east in the game of craps, when the total of pips on the two dice is 2, 3, or 12. See craps². Stand. Dict.—Crap-shooting. Same

(Gr. κρανίον, skull, + σκλήρωσις, hardening.]
Thickening of the skull.

craniostosis (krā-ni-os'tō-sis), n. [NL., prop. "craniostosis, (Gr. κρανίον, skull, + ὁστέον, hone + σκίε] Property skull, + ὁστέον, gerstræmu Indica. Also called Indian lilac.

See lilac and Lagerstræmia. crape-ring (krāp'ring), n. The semi-transpa-rent, dusky ring of Saturn between the bright ring and the planet. Sci. Amer., Aug. 1, 1903,

Craponne lace. See *lacc.
crappox (krap'poks), n. [Appar. < crap(au-dine¹) + pox.] In yaws, ulceration with indurated edges on the soles of the feet.

craps2 (kraps), n. pl. A game of chance played craps² (kraps), n. pl. A game of chance played with dico; the modern and simplified method of playing hazard. The players het as much as they choose, and the easter covers the amount he is willing to risk. He then throws two dice from his hand. If the first throw is 7 or 11, it is a nick or matural, and the caster wins everything. If 2, 3, or 12 is thrown, it is a crap, and the easter loses everything. Any other number thrown is the caster's point, and he must continue throwing until he brings the same number again and wins, or throws 7 and loses.—To shoot craps, to play at eraps; said because the dice are thrown or shot from the hand, instead of being rolled from a dice-box. crapula, n. 2. A resin or confection of some drug producing intoxication, as hashish. Crapulent colic. See *colic.

crapula, n.

Crapulent colic. See *colic. craspedodrome (kras-ped'ō-drōm), a. [Gr. κράσπεδον, margin, + -δρομος, ζ δραμείν, run.] Running into the margin: said of the nerves of leaves. See nervation (a) (1), Fig. 2.

Lateral primaries when forked usually above their base, often present as basal sub-primaries; secondaries camp-

todrome in the entire-margined forms and craspededrome in those which have dentate margins, both characters combined in some species.

Bot. Gazette, Dec., 1903, p. 423.

craspedodromous (kras-pe-dod'rō-mus), a.

Same as *craspedodrome.

craspedon (kras'pe-don), n.; pl. eraspeda (-dä). Same as cruspedum. Craspedostoma (kras-pe-dos'tō-mā), n. [Gr.

κράσπεδον, margin, + στόμα, mouth.] A genus of rhipidoglossal gastropods of the family Delphinulidæ, having globose whorls, short spire, cancellated body-whorl, and an alar process at the end of the columella. It is of Silurian age. craspedotal (kras-pe-dō'tal), a. [Craspedota

+ -all.] Of or pertaining to the Craspedota; having a velum.

crass² (kras), n. [Crass(icornis), the specific

name.] A species of sea-anemone, Bunodes crassicornis. Steam-engine which represents the path of the crank.

Crassatella (kras-a-tel'ä), n. [NL., < L. crassatella (kras-a-tel'i), n. [NL., < L. crassatella (kras-

1801.Crassatellidæ (kras-a-tel'i-dē), n. pl. [NL., < Crassatella + -ida.] A family of bivalve mol-

lusks. The shell is equivalve, thick, and nearly triangular; the mantle with anal orifice or open; hinge-ligament in an internal fossette; and hinge with 2 cardinal teeth. The laterals are produced. The principal genus is Crassatella.

Crassilinguia (kras-i-ling'gwi-ä), n. pl. [NL., neut. pl. of crassilinguis, \(\) L. crassus, thick, + lingua, tongue.] A section or superfamily of Lacertilia, containing lizards with short, thick, nonprotrusile tongues, including such forms as the geckos and iguanas. Correlated with Vermilinguia and Fissilinguia.

Crassocephalum (kras-ō-sef'a-lum), n. (Moench, 1794), < L. crassus, thick, + Gr. κεφαλή, head. The allusion is to the swollen
fruit-heads of C. cernuum.] A genus of plants of the family Asteracea, related to Senecio. There are about 24 species, of the Old World tropies, one of which is sometimes grown in warm glass-houses for its rich purple velvety foliage. This is Cauranticaum (6ynura aurantica of de Candolle), the velvet-plant, from Java. It is a stout plant, hairy in all its parts, with large ovate jagged-edged soft leaves. The flower-heads are yellow or orange, in terminal clusters.

cratægin (krat'ē-jin), n. [Cratægus + -in2.]
A erystalline, bitter compound from the fresh bark of the twigs of the hawthorn, Cratagus Oxyacantha.

cratch², n. 3t. In astron., the star-cluster known as Præsepe (the Manger) in the constellation Cancer.

crate, n. 3. In glass-manuf., a lot of twelve tables or disks of erown-glass. See table, 1(d). crate (krāt), v. t. To put or pack in a crate

ease of the skull.

[NL, ⟨ Gr. κρανίον, skull, + ράχις, backbone, straps² and *craps². Stand. Dict.—Crap-snooting.

[NL, ⟨ Gr. κρανίον, skull, + ράχις, backbone, straps² and *craps².

[NL, ⟨ Gr. κρανίον, skull, + ράχις, cleaving, fissure.] Fissure of the skull and vertebral column.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. κρανίον, skull, + σχίσις, cleaving, fissure.] Fis-crape-markings (krāp'fern), n. See *fernl.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes crape for the market.

[NL, ⟨ Gr. crape-dresser (krāp'dres"er), n. One finishes

crater-chain (krā'ter-chān), n. A series of volcanic craters, nearly in a line.

Sixteen were lava-cones . . .; but the crater-chains numbered not less than eighty-three.

Geog. Jour. (R. G. S.), XIII, 503.

crater-lake (krā'ter-lāk), n. A lake ocenpying the crater or caldera of a volcano; specifically, a large and deep lake occupying a typical caldera in Oregon. Gcikie, Text-book of Geol.,

crater-wall (krā 'ter-wâl), n. The inclosing rock wall of a crater: as sometimes used, the ateep in-face of this bounding wall. The ordinary crater of the hasalt-volcano is pit-like, with the walls often nearly vertical, and the floor may be a great nearly level plane of solid laws. Dana, Characteristics of Volcanoca, p. 150.

Craticularia (kra-tik-n-la'ri-a), n. craticulus, dim. of cratis, wickerwork, grating, hurdle: see crate, grate², and griddle.] A genus of fossil hexactinellid sponges of the family Craticulariidæ, occurring in the Mesozoic and

Lower Tertiary rocks.

cravo (krä'vō), n. [Pg., lit. a nail, \(\) L. clarus,
a nail : see clarus, clore4.] A fish, the same as

*mariposa.

crawcraw (krâ'krâ), n. [W. Afr. *krakra.] A pruriginous skin-disease, probably parasitic, which affects chiefly the inner side of the thighs. It occurs on the west coast of Africa.

crawfish, n. 3. One who backs out from a position or undertaking, especially in polities. [U. S. slang.]-Blind crawfish, Cambarus pellucidus, which lives in the Mammoth Cave.—Spiny crawfish, the largest fresh-water crawfish of Anstralia, Astacopsis serratus

crawl¹, v. i.—To crawl off (naut.), to work a vessel slowly away from a lee shore.

crawl-a-bottom, n. 2. A small percoid fish, Hadropterus nigrofusciatus, found în fresh water creativity (krē-a-tiv'i-ti), n. [creative + -ity.] from South Carolina to Louisiana. [Local, Creativeness.

crawler, n. 3. A person or thing that moves slowly; particularly, a cab that moves along a street very slowly on the outlook for a fare. [Colloq.]

crawley (kra'li), n. Same as crawley-root.
False crawley, the Albany beech-drops or pine-drops,
Pterospora and romedea. See Pterospora.

crayon-board (krā'on-bord), n. A cardboard for crayon or pastel, usually with a tooth or roughened surface. See *tooth, 11.

crazia (krāt'sē-ā), n.; pl. crazie (-ā). [It., < G. kreuzer, kreutzer: see kreutzer.] A subsidiary coin of Tuscany, the twelfth part of a lira, equal to 1.67 United States cents.

crazy-chain (krā'zi-chān), n. In torestry, the short chain used to hold up that tongue of a sprinkler-sled which is not in use.

crazy-grass (krā 'zi-gras), n. See *canary-

ream¹, n.—Alumina cream. See ★alumina.—Bavarian cream, a dessert composed of gelatin and whipped cream added to a custard thavored variously and served cold.—Cream caustic. See ★caustic.—Cream of lime, (b) shaked lime mixed with water to a cream like consistence.—Devonshire cream. Same as clotted cream. See clott.—Evaporated cream, in darying, a trade-name for condensed cream, which resembles condensed mik.—Neapolitan cream, an ice-cream in which two kinds of cream and an ice are frozen in one block.

cream¹, r. t. 4. To work and beat until it becomes smooth and light, forming a creamy mass. Butter is often so treated before it is mixed with other ingredients.—5. In cookery

mixed with other ingredients .- 5. In cookery generally, to prepare in a cream sauce (chicken, oysters, etc.): frequently for use as filling for molds of puff-paste or of bread.

creamer, n. 3. A refrigerator or cooling-cabinet in which fresh milk, placed in deep cylindrical cans, is kept cool by means of ice or cold water while the cream rises naturally. Helmet creamer, a cream-jug shaped like an inverted helmet, of Chinese porcelain, commonly, but improperly, ascribed to Lowestoft, England.

creameryman (krē'me-ri-man), n. A man who owns or operates a ercamery. Yearbook U. S.

Dept. Agr., 1897, p. 17.

cream-gage (krēm'gāj), n. A graduated glass vessel, resembling a test-tube, used to measure the percentage of cream in milk.

creaming (kre ming), n. 1. The formation of cream; the rising of any liquid in cream or foam.—2. An artificial or mechanical process for separating cream from milk.

cream-sacs (krēm'saks), n. A species of owl'sclover, Orthocarpus lithospermoides: so named from the cream-colored corolla developed into

three sacs. [California.]

cream-separator (krēm'sep"a-rā-tor), n. See separator.—Gravity cream-separator, a vessel designed to hold fresh milk while the milk is separating from the cream by gravity. It is a closed vessel, fitted with a strainer, draw-cocks, and glass indicators to show the position of the contents and the proportions of the aeparating milk and cream during the process.

creaser, n. 4. A tool having a thin triangular

head, used to crease leather.

creat² (krē'at), n. [Also creyat; < Canarese kreata.] An annual acanthaceous book kreata.] An annual acanthaceous herb, Erianthera paniculata (Justicia paniculata of Burman), native to India and Ceylon, where it is sometimes cultivated in gardens. In Mauritins and the West Indies it has escaped from cul-tivation, becoming a weed. It is used medicinally as a bitter tonic like quassia

creatinic, kreatinic (kre-a-tin'ik), a. Relating to creatin. C. E. Simon, Physiol. Chem.,

p. 84. **creation**, n.—The doctrine of continuous creation.

(a) The doctrine that the creative energy of the Deity alone keeps the universe in existence: an opinion adopted by St. Angustine and from him passing to some of the scholastica and to Descartes and his followers, including Spinoza and Leibnitz, and widely neld by more modern theologians.

(b) The opinion or hypothesis that the variety of creation is perpetually increasing in consequence of the fact that the regularity of nature is not absolute or does not extend to all events.

creationalism (krē-ā'shon-al-izm),

as creationism. Science, July 5, 1901, p. 15. creationalistic (kṛṇ-ā"shon-a-lis'tik), a. Per-

raining to or of the nature of ereationism. creationary (krē-ā'shon-ā-ri), a. [creation + -aryl.] Pertaining to creationism. Athenæum, Oct. 27, 1894.

creation-myth (krē-ā'shon-mith), n. A myth

explaining the creation of the world: sometimes used in opposition to transformationmyth, a myth which explains the present form of the world by a series of transformations from a previous stage.

creatophagous (krē-a-tof'a-gus), a. [Gr. $\kappa\rho\epsilon a \tau$ ($\kappa\rho\epsilon a \tau$ -), flesh, $+\phi a \gamma\epsilon i \nu$, eat.] Same as creophagous.

creatospore (krē-at'ō-spōr), n. [Gr. κρέας (κρεατ-), flesh (used for the meat' of a nut), + σπορά, seed.] In phytogeog., a plant which bears nut fruits and is thus adapted to distribution by rodents. F. E. Ctements. creatospore (krē-at'ō-spōr), n.

creatoxicon, kreatoxicon (kre-a-tok'si-kon). n. [Gr. κρία(ς) (κρεατ-), flesh, + τοξικόν, poison.]
A poisonous substauce, the cause of meatpoisoning. Faughan and Novy, Cellular Toxpoisoning. ins, p. 188.

creatoxin, kreatoxin (krē-a-tok'sin), n. [creatox(icon) + -in².] A substance concerned in meat-poisoning. Vaughan and Novy, Cellular Toxins, p. 188.

creatoxism, kreatoxism (krō-a-tok'sizm), n. [Gr. $\kappa\rho\epsilon\alpha(\varsigma)$ ($\kappa\rho\epsilon\alpha\tau$ -), flesh, $+\tau\circ\dot{\varsigma}(\iota\kappa\delta\nu)$, poison, + - ιsm .] Poisoning by tainted meat.

Carlyle.

Carlylc.

Credit, n.—Contra credit. See ★contra.—Credit bureau. See mercantile ★agency.—Credit entry, in bookkeeping, an entry on the credit side of an account.—Credit gild, an organization of farmers in Japan for the promotion of their common interests, and through which its members may obtain loans on favorable terms. Sci. Amer. Sup., Ang. 27, 1904, p. 23,959.—Credit item, in bookkeeping, an item to be entered on the credit side of an account.—Credit system, the system of buying and selling on credit.—Paper credit, credit given on the security of a written obligation purporting to represent property, such as I O U's, book-debts, bills of exchange, etc.

creditive (kred'i-tiv), a. [ercdit + -ive.] the nature of or connected with belief: as, creditive assent.

The faith is a wholly transactional matter toward God himself, and no mere *creditive* assent or conviction.

Bushnell, Sermons on Living Subjects, Sermon iii.

creditor, n.— **Chirographary creditor**, the holder of evidence of debt acknowledged by the handwriting of the debtor.

Cree (krē), n. and a. I. n. A member of a branch of the Algonkian (or Algonkin) Indians. See Cree and Algonquian in Century Cyclopedia of Names.

II. a. Of or pertaining to the Crees. creed-bound (krēd'bound), a. Having a servile respect for creeds; slavishly obedient to

a creed. N. E. D. creed-monger (krēd'mung"ger), n. Literally, one who deals in creeds; one who is devoted to the formulation of creeds.

creeker (krē'ker), n. A local name for the spotted sandpiper, Actitis macularia: given from its habit of frequenting the borders of small streams.

creek-sedge (krēk'sej), n. Asalt-marsh grass, Spartina glabra, abounding particularly along the edge of creeks and estuaries on the Atlantic coast. Also called thatchy grass. See Spartina.

creek-stuff (krēk'stuf), n. See Spartina. creek-thatch (krēk'thach), n. See Spartina. creeler (krē'ler), n. One who attends to the creel of a spinning-machine.

creep, v. i. 8. In chem., to rise above the surface of the liquid upon the walls of the creep, v. i. containing vessel, like salt crystals in an

evaporating-dish.

creep, n. 4. Same as crecper, 6 (b). G. E.

Armstrong, Torpedos and Torpedo-vessels, Armstrong, Torpedos and Torpedo-vessels, p. 134.—5. In geot., the extremely slow downward movement of disintegrated rock ou hillsides. Ground-water, frost, and changes of temperature are the chief factors in such movement.

When the movement is too slow to be sensible it is alled creep. Chamberlin and Salisbury, Geol., I. 218. called creep.

Crust-creep, in geol., the slow movement of a large portion of the earth's crust nuder compressive strain along a reversed or thrust fault. banded nature of the senses. Crenothrix (kren'ō-thriks), n. [NL. (Cohn, 1870), $\langle Gr. \kappa\rho\eta\eta\eta$, a spring, $+ \theta\rho i\xi$, a hair.

Gigantic crust-creep of overthrust masses. Geog. Jour. (R. G. S.), XVL 461.

Tangential creep, in geol., lateral movement of forma-tions; displacement in a horizontal direction by expansion

or contraction.

He attributes the tangential creep to the transference of material hy denndation from one place to another, promoting subsidence, heating of the lower layers, and lateral expansion, with consequent crumpling of the strata.

Rnowledge, Feb., 1904, p. 9.

creeper, n., 6. (j) pl. Small andirons or fire-dogs placed between large ones.

The sandworm, Nereis virens. 10. The sandworm. Nereis virens. [Eng.]—Bow-string creeper, Same as jetee.—Chain-creeper, a woody-stemmed, leguminous vine, Baukinia splendens, of northern South America. The stems are extremely fexible and tough, so that they can be need like cords, being more durable than iron nails or chains, which in the damp atmosphere soon rust and give way. Strips of the bark are made into a coarse kind of cordage. Also called bejueo de cadena.—Rajmahal creeper. Same as jetee.

creeper-chain (krē'per-chān), n. An endless chain provided with projecting hooks or fingers: used in moving mine-cars horizontally or on inclines. G. W. Hughes, Coal Mining, p. 465.

creeping, n. 2. Stalking or still-hunting, as for moose or deer. Earl of Dunraven, in Sport with Gun and Rod, p. 20.—3. Motion of the rails of a railroad in the direction of traffic, due to a number of causes. The usual preventive measure is to notch the foot of the rail, and put through this notch the spike which holds the rail to the tie or

4. The slip of a belt or rope which is driving one pulley from another: due to working or elasticity in the belt or rope.—5. In elect., the slow drifting or moving of an instrument or meter at no load, due to inaccurate adjustment or to a slow change of the suspension.-6. In geol., same as *creep, 5.

creeping-bur (krē'ping-ber), n. The groundpine or club-moss, Lycopodium clavatum. Also called creeping-jenny.

creeping-fern (krë'ping-fern), n. See climb-

creeping-jenny, n. 2. Same as *crceping-bur. creese (krés), v. t. [Also crease, kris, \langle creese, n.] To kill by stabbing with a creese (which see).

cremaster, n. 4. In marsupials a muscle which compresses the mammary gland and forces the milk down the gullet of the young while in the

cremastral (krē-mas 'tral), a. [cremaster + -all.] Pertaining to the cremaster of insects. Natural Science, Jan. 1878, p. 16.

crême (krām), n. [F.: see cream¹, n.] 1. A cream: a term used especially in the names of certain cordials, as crême de menthe. See cream¹, 6.—2. In cookery, meat, fish or vege-tables baked in white sauce and covered with bread-crumbs.—Creme brulée, caramel or browned sugar with cream.—Creme de cacao [F.], a liqueur of the oily consistency known as creme, flavored with cacao or checolate.

cremnophobia (krem - nō - fō ' bi-ā), n. [NL., < Gr. κρημνός, a steep bank, a cliff. + -φοβια, < φοβείν, fear.] Morbid fear of being near the edge of a cliff or precipice.

cremometer (kre-mom'e-ter), n. [E. cream (with assumed stem crem-) + Gr. μέτρον, measure.] In dairying, a graduated test-tube used in estimating the proportion of cream in milk. Fresh milk warmed to 100° F. is placed in the tube, filling it to the zero mark, and left to stand in it, in a cool place, for twenty-four hours, by which time the percentage of cream will be plainly indicated by the scale.

Cremona transformation. See *transforma-

Cremorne bolt. See *bolt1.

crena, n. 3. In bot., a tooth or notch of a crenate leaf. Crena ani, the fissure between the

Crenipecten (kren-i-pek'ten), n. [NL., < L. crena, a notch, + NL. Pecten, a genus of pelecypods, < L. pecten, a comb: see pecten.] A Carboniferous genus of pectenoid Pelecypoda with taxodont hinge.

crenitic (krē,-nit'ik), a. [Gr. κρηνῖτις, adj., < κρήνη, a spring.] In geol., of or pertaining to springs.—Crenitic hypothesis, a hypothesis formulated by T. S. Hunt to explain the origin of the crystaline schists. It assumed that the earth, in cooling from a molten condition, had solidified but was still hot: heated waters rising from the depths and charged with mineral matter deposited at the surface successive layers which contained an abundance of zeolites; subsequently the zeolites became feldspars, occasioning thus the crenitic (krē-nit'ik), a. the zeolites became feldspars, occasioning thus the banded nature of the schists.

These bacteria have a hair-like form and occur in springs. A genus of filamentous non-motile bacteria having cylindrical or flat cells inclosed in a sheath. Reproduction takes place by means of two kinds of spores produced from the vegetative cells within the filaments. The single species, C. polyspora, occurs in stagnant or running water containing organic matter and iron salts.

crenule (kren'ūl), n.
INL. crenula, dim. of flat cells inclosed in

crenule (kren'ūl), n. [NL. crenula, dim. of L. crena, a notch: see crena.] In bot., a diminutive crena.

(krë'ōcreoform fôrm), n. [creo(sote) form(aldehyde).] A non-toxic tasteless and odorless condensation-product of creosote and formaldehyde. It is a antiseptic. strong Also called geoform

Crenothrix polyspora. Highly magnified. (After Zopf.) a, arthrospores; b, single seg-ments; c, common sheath sur-rounding the separate spores. (From Frankland's "Micro-Or-ganisms in Water.")

1000

and cresoform.

creole, n. 3. In ichth., the genizara, Clepticus parræ, found in the West Indies.

creole-fish (krē'ōl-fish), n. A beautiful fish, Paranthias furcifer, of tropical American waters.

creolinated (krē'o-lin-a"ted), a. [crcolin + $-ate1 + -ed^2$.] Mixed or impregnated with creolin: as, ereolinated soap.

creolin (krē'ō-lin), n. [creo(sote) + -l- + -in2.] The trade-name of two different commercial products: (a) Pearson's creolin, a mixture of coal-tar hydrocarbons (and probably phenols) with resin soap; (b) Artmann's creolin, a mixture of coal-tar hydrocarbons with cresolsulphonic acid. They are used as antiseptic

creolism (krē'o-lizm), n. [crcole + -ism.] The condition and characteristics, physical and mental, of creoles. Athenæum, Oct. 7, 1893.

creolization (krē''ō-lī-zā'shon), n. [crcolize + -ation.] The development of characteristics of a creole race.

The aubject race had . . . been physically refined by those extraordinary influences of climate and environment which produce the phenomena of reolization.

Harper's Mag., Feb., 1890, p. 416.

creolize (krē'ō-līz), v. i.; pret. and pp. creolized, ppr. creolizing. [creole + -ize.] To play lized, ppr. credizing. [creole + -ize.] To play the creole; imitate or fall in with the manners. customs, habits, etc., of the creoles, especially as regards an easy manner of living.

creophagism (krē-of'a-jizm), n. [Also kreo-; cinol. \(\) creophag-ous + -ism.] The practice of using cresotate (kres'ō-tāt), n. [cres(ol) + -ote + flesh as food. Also kreophagism. | -ate^1.] Same as \(\) cresylate.

Kreophagism leads to alcoholism, and still more to Imercresotinic (kres-ō-tin'ik), a. [cres(ol) + -ote + morality. Saturday Rev., Nov. 5, 1881, p. 570 Saturday Rev., Nov. 5, 1881, p. 570.

creophagist (kre-of'a-jist), n. [Also kreo-; < creophag-ous + -ism.] A flesh-eater; one who uses flesh as food.

creosal (krē'ō-sal), n. [creos(ote) + -al3.] The trade-name of a tannic-acid ester of creosote. It is a dark-brown astringent powder, and is used medicinally in cases of pulmonary tuberculosis and in certain intestinal troubles.

creosine (krē'ō-sin), n. [creos(ote) + -ine2.] A yellow transparent non-irritating fluid com-posed of creosote, iodine, calcium hypophos-phite, and balsam of Peru: used internally in phthisis, bronchitis, etc.

creosoform (krē-ō'sō-fôrm), n. [creoso(te) form(aldehyde).] Same as *creoform.

creosote, n.— Coal-tar creosote, impure phenol or carbolic acid: quite distinct from the genuine creosote of wood-tar.— Creosote oil. See ★oil.

creosotol (krē'ō-sō-tol), n. [creosote + -ol.]
A thick brownish inodorous oil analogous to guaiacol carbonate, but made directly from cresset-lamp (kres'et-lamp), n. Same as cresbeech-wood creosote.

creotoxism (krē-o-tok'sizm), n. Same as *creatoxism.

crêpe, n.—Crêpe de chine [F., 'China crape'], a very thin, lustrous dress-allk.

crêpe (krāp), r. t.; pret. and pp. créped, ppr. créping. [F. créper, < L. crispare, curl: see

crépe, n., crape, and crisp, v.] To curl; erimp; buckle; put up in curl-papers; frizz: as, to crepe the hair.

crêpé (kre-pā'), p. a. [F.] Frizzed. crepidome (krep'i-dōm), n. [NL. crepidoma, ⟨ Gr. κρηπίδωμα, a foundation: see crepidoma.] In the nomenclature of the spicular elements of sponges, an inceptive condition or stage in the growth of the irregular tetraxial spicules in which the tetraxial or caltrop type is manifested.

crepis, n. 2. In sponge-spicules, the central axis of a desma. Lankester, Treatise on Zool., 2. In sponge-spicules, the central

crepitation, n. 6. The peculiar crackling sensation felt on palpation of emphysematous

cresalol (kres'a-löl), n. $[cres(ol) + -al^3 + -ol.]$ A group of ortho, meta-, and para-salicylic esters of cresols. They form bulky white crystals, and are used as antiseptic dusting-pow-

crescence-line (kres'ens-lin), n. In the peleeypod mollusks, the line of most rapid growth of the shell. It usually extends on each valve from the umbo obliquely backward to the post-lateral margin. crescent, n. 4. (d) In anat., one of the cornua of gray matter in the spinal cord. (e) In pathol., a sexual form of the plasmodium majarie.

of the plasmodium maiarie.

9. (a) The curved, sausage-shaped gameto-cresyl (kres'il), n. [cres(ol) + -yl.] A subcyte of Laverania, the parasite of pernicious stance derived from cresol.—cresyl blue. See *malaria (which see, with cut). (b) In certain *blue, n.—Cresyl fast violet. See *miolet1.

extinct cardioid pelecypods, a lunate flattening of the shell-surface just behind the beaks. salt of cresylic acid: as, cresylate of sodium. It specially characterizes the Devonian genus cresyol (kres'i-öl), n. Same as *cresyl.

Honeoyea. (c) In the extinct trimerellid bracteria (kres'tä), n. [L.: see cretaccons, crayon.] chiopods, a curved and narrow muscular scar on each valve just within the cardinal margin. 10. In plate-armor, one of the small pieces of

m plate-armor, one of the small pieces of steel used to protect joints. See gusset (a).

Malarial crescent. Same as *crescent, 4 (e).—Myopic crescent, a crescentie yellowish patch about the papilla of the optic nerve, due to atrophy or detachment of the choroid.

crescentic, a. 2. In geol., noting certain crescentiform marks or 'gouges' attributed to the action of glacial icc. They are thought to be due action of glacial icc. They are thought to be due to localized pressure, as in the process of gouging, and are therefore sometimes called crescentic gouges. G. K. Gilbert, in Science, Dec. 23, 1994, p. 894.

Cresegol (kres 'ē-gōl), n. A brownish-red stable

organic compound of mercury, said to precipi- cretinoid (kre'ti-noid), a. [crctin + -oid.] Retate toxins but not albumins; used as a substitute for mercuric chlorid as a bactericide.

cresilite (kres'i-lit), n. [F. crésilite; as cres(ol) + -il- + -ite².] An explosive consisting of trinitrocresol mixed with melinite: used in France.

Cresol red. See *red1.

cresolene (kres'ō-lēn), n. [cresol + -enc.] trade-name for anisol, or methyl-phenyl ether, C₆H₅OCH₃, used as a disinfectant.

cresorcin (kres-ôr'sin), n. [cres(ol) + orcin.]
Methyl phendiol-2,4, C₆H₃(OH)₂CH₃, or dihydroxytoluene. It is a crystalline dibasic phenol, which melts at 104° C. The ladies . . . generally creolize the whole day in a delectable state of apathy.

J. McLeod, Voyage of Alceate, p. 190.

droxytoluene. It is a crystalline dibasic pnenol, which melts at 104° C.

J. McLeod, Voyage of Alceate, p. 190.

droxytoluene. It is a crystalline dibasic pnenol, which melts at 104° C.

larvæ and pupæ of mosquitoes.

Creto-Mycenæan (kre*tō-mī-sē-nē'an), a. Pertaining to both Crete and Mycenæ: applied to

cresotinic (kres-ō-tin'ik), a. [cres(ol) + -ote + -in² + -ie.] Derived from cresol.— Cresotinic acid, the name given to three isomeric acids formed by the action of carbon dioxid on the sodium salts of the cresols: a-cresotlinic acid is 4-hydroxy-m-toluic acid, C_B Il₃(Oll)(Cll₃)CO₂Il(4:1:3); 8-cresotlinic acid is 2-hydroxy-m-toluic acid, C_B Il₃(Oll)(Cll₃)CO₂Il(2:1:3); y-cresotlinic acid is 3-hydroxy-p-toluic acid, C_B Il₃(Oll)(Cll₃)CO₂Il(3:1:4). The acids melt at 151°, 164°, and 177° C, respectively.

Cresphontes butterfly. See *butterfly.

Uresphontes butterfly. See *butterfly.

Cress, n.— French cress, the winter cress, Canape Barbarea.— Leek-cress, the hedge-gatic or garlic mustard, Alliaria Alliaria.— Meadow-cress. (a) See meadow-cress. (b) The common garden-cress, Lepidium sativum.— Monse-ear cress, See thale-cress.— Para cress, a pungent cruciferous plant, Spilanthes oleracea, originally from the West Indies, replacing water-cress in hot countries. See Spilanthes.— Rocket cress. Same as French *cress.— Yellow cress. See yellow cress, under yellow. Cressed (krest), a. [crcss+-cd2.] Bordered with water-cresses. with water-cresses.

Cressed brook and ever-eddying river, lifted even in flood scarcely over its stepping-stones,—but through all sweet summer keeping tremulous music with harpstrings of dark water. Ruskin, Modern Painters, V. vii. 4.

cresswort (kres'wert), n. Any plant of the mustard family Brassicacew, to which the cress also belongs. Lindley. [Rare.]

crest, n. 2. (j) The design, generally that of an animal, which constitutes the heraldic bearings of a social group among primitive tribes. The crest belongs often

to an exogamic group and is related to the totem. (k) The summit of a river-flood wave.—Crest and trough, the alternately occurring regions situated half a wavelength apart in any wave-system where the displacements of the vibrating medium reach a maximum but are opposite in direction.—Crest of the urethra. Same as crista urethra.—Cross crest, a fold of enamel running transversely across the face of a tooth.—Ethmoid crest. Same as crista yatli.—Exterior crest. See drawing, under parapet.—Neural crest, in the vertebrate embryo, the ridge-like dorsal portion of the neural tube where it is cut off from the general integumentary ectoderm and gives rise to the spinal ganglia. See cut, under *coelomesoblast.—Nuchal crest, a crest of hair or feathers on the nape of the neck, as in a few birds and some mammals.—Orbital crest, the lower edge of the orbital surface of the sphenoid bone.—Procnemial crest, in ornith., the large crest for the attachment of muscles on the superior end and anterior face of the tibla.—Sphenomaxillary crest, a bony ridge forming the margin of the sphenomaxillary fissure.—Snpramastoid crest, a bony ridge on the temporal bone just above the meatus auditorius.—Temporal crest, in anat., the line which extends from the outer angles of the frontal bone upward over the frontal and parietals. Also called linea semicircularis.

crest-board (krest'bord), n. 1. An ornamental board which forms the cresting or crossing of a roof.—2. A similar board set along the a root.—2. A similar board set along the sloping edge of a gable and rising like a parapet above the roof: an erroneous use.

creston (kres-tōn'), n. [Sp., crest of a helmet.] In mining geol., the outerop of a vein: used along the Mexican boundary.

Chalk.—Creta præparata (prepared chalk), chalk freed from impurities and finely pulverized.

cretaceous, a. 3. In bot.: (a) Chalky, or having chalk-glands, as in some species of Saxifraga. (b) Of a chalky color; dead-white.

cretification (krē-ti-fi-kā'shon), n. [erctify (-fie-) + -ation.] 1. Same as cretefaction.—
2. Same as calcification, 2.

cretinize (krē'ti-nīz), v. t.; pret. and pp. cretinized, ppr. cretinizing. [cretin + -izc.] To reduce to the condition of a cretin. See cretinism.

The wretched look of the dwarfed, diseased and cre-tinized inhabitants. Excension

sembling, in symptoms, a cretin.—Cretinoid dtsease, Same as myxedema. dtsease.

cretinous (krē'tin-us), a. [cretin + -ous.] Relating to cretinism or to a cretin.

Cretinous idiots, who are born without thyroid glands.

Encyc. Brit., XXXI. 540.

cretion (krē'shon), n. [L. crctio(n-), < cernere (pp. crctus), decide: see *cern² and cf. discrete,

(pp. erctus), decide: see *ccrn* and ci. aiscrew, etc.] In Rom. law, the act of cerning and the time allowed for it. See *ccrn².
 cretol (krē'tōl), n. [L. creta, chalk, + -ol.] A preparation suggested for the destruction of various obnoxious organisms, such as the laws and summ of measurities.

taining to both Crete and Mycenæ: applied to the Cretan phase of the Mycennean or early prehistoric Hellenic civilization. Many excavations have recently been undertaken in Crete by English and Italian archeologists.

cretous (krē'tus), a. Same as cretose. [Rare.] crevally (kre-val'i), n. Same as cavally.

Crevalse, n.— Crevasse cycle, the sequence of changes which a series of crevasses passes through in the movement of a glacier. Science, May 20, 1904, p. 786. Crevasse (kre-vas'), v. t.; pret. and pp. crevassed, ppr. crevassing. To rend, as the surface of a glacier, with fissures and cracks.

nis high isolated drumlin and lower sceumulations are evidence of the wrenching and crevassing at the ing spot.

Dana, Manual of Geol., p. 971. This high turning spot.

crewellery (krö'el-er-i), n. [crewel +-cry.] Crewel-work. N. E. D. crew-space (krö'spās), n. Naut., space in a

vessel specifically assigned and reserved as

vessel specifically assigned and reserved as quarters for the crew. Each space must have not less than 72 cubic feet, with 12 square feet of floor for each person lodged therein, and no cargo or stores may be carried in such spaces.

Cribl, n. 11. The frames may rest one on the other, forming a solid lining, or solid cribbing, or they may be spaced at convenient intervals, making what is called an opin cribbing. In the latter case a lining or backing of planks or of poles is used. At intervals bearing cribs, frames with ends projecting into the solid rock, are used to support the weight of the shatt-lining. Wedging cribs are heavy frames used as the foundation for a water-tight shatt-lining (tubbing), the space behind the wedging crib to ling wedged water-tight. Garland curbs are provided with horizontal gutters to intercept the water flowing down inside the shaft-lining. Also called curb.—To balk the crib. See *balk.

crib1, v. t. 5. To make up (logs, beards, or staves) into small rafts or cribs to be united later into a large raft. [United States and Canada.]

cribbage, n.—**Five-card cribbage**, a variety of cribbage in which each player receives only five cards, two of which are laid out for the crib, the play stopping as soon and the cribbage of the cribbage o

which are laid out for the crib, the play stopping as soon as a 'go' or 31 is reached. **cribber**, n. 2. A device which is buckled around a horse's throat to prevent cribbing. The under side, which bears against the horse's throat, is provided with sharp points which are held back by springs to prevent them from pricking unless the horse attempts to crib. cribber, n.

cribbing-muzzle (krib'ing-muz'l), n. An open wire muzzle which is held in place over a horse's mouth by a halter, to prevent cribbing. cribral (krib'ral), a. [cribrum + -all.] Relating to a cribrum or any sieve-like structure. Science, June 7, 1901. p. 888. Cribraria (kri-bră'ri-a), n. [NL. (Schrader,

1791), \(\subseteq \text{L. cribrum. a sieve.}\)] molds, type of the family Cribrariacese, having separate stipitate sporaugia.
The lower portion of the peridium is cup-shaped and the upper consists of a network of thick-celled strands, which suggest the name.
The spores are variously colored. Cribrariaceæ (krī-brā-ri-ā'-sē-ē), n. pl. [NL., < Crib-raria + -accæ.] A family of slime-molds named from of sing-moids fianted from the genus Cribraria. The peridia are mostly stipitate and have radiate or stellate thicken-ings. The thinner intermediate portions disappear at maturity, leaving a more or less spherical network. See *Cribraria.

network. See *Cribraria.

Cribriform area. See *area.— Cribraria piriformis.

Cribriform organ, in Stelle(From Englerand Prantis
roidea, one of the densely packed
groups of small spinelets or lamellae found on some or all of the marginal plates, especially
in Porcellanasteridæ. The function of the organ is unknown, but it may act as a percolator.

cribrilinidan (krib-ri-lin'i-dan), a. and n. I. a. Pertaining to or having the characters of the bryozoan family Cribrilinidæ.

II. n. A member of the Cribrilinidæ.

cricamphityle (kri-kam'fi-til), n. [Gr. $\kappa \rho i \kappa o c$, a ring, $+ a \mu \phi i$, on both ends, $+ \tau i \lambda \eta$, a lump.] In the nomenclature of the spicular elements

of sponges, a monaxial spicule or rhabd with cencentric swellings and blunt ends.

criccaltrop (kri-kal'trop), n. [Irreg. < Gr. κρίκος, a ring, + E. caltrop.] In the nomenclature of the spicular elements of spenges, a caltrop in which the arms bear series of concentric rings. centric rings.

centric rings.

crick³ (krik), v. t. [crick³, n.] To wrench or sprain: as, to crick one's neck.

cricket¹, n.— Agitating cricket, an American gryllid, Hapithus agitator, which occasionally damages young cotton-plants in the southern United States.—Banded cricket, an American gryllid, Nemobius fasciatus, which occasionally injures the cotton-plant.—Black cricket, any member of the family Gryllidæ which is black in color, like Gryllus assimilis.—Mormon cricket, a wingless American locustid, Anabrus simplex. [Local, U. S.]—Western cricket. Same as mormon *cricket, the ordinary form of modern cricket, which requires two wickets, and a batsman at each: in contradistinction to single-wicket cricket, in which only one batsman bats at a time.

cricket-match (krik'et-mach), n. A contest at

cricket-match (krik'et-mach), n. A contest at cricket between two sides of eleven players each, lasting usually from half a day to three days. That side wins which, two innings having been played by hoth sides, shall have scored the greatest aggregate of runs. See cricket.

cricket-teal (krik'et-tel), n. 1. See teal1 A local name of the European blue-winged teal. Anas crecca.

cricohyoid (krī-kō-hī'oid), a. [crico(id) hyoid.] Relating to the hyoid bone and the

cricoid cartilage

cricorhabd (krī'kō-rabd), n. [Gr. κρίκος, a as *cage-mount. ring, + ράβος, a rod: see rhabd.] In the crinula (krin'ū-lä), n. [NL., dim. of L. crinis, nomenclature of the spicular elements of hair: see crinc'l.] In bot., same as elater'2, 2. sponges, a monaxial spicule or straight rhabd crin végétal (kran vā-zhā-tāl'). [F. crinis] with concentric swellings.

cricostyle (krī'kō-stīl), n. [Gr. κρίκος, a ring. + στύλος, a pillar, taken in sense of L. stilus, a pointed instrument.] A cricorhabd with sharp ends. See *cricorhabd.

cricotomy (kri-kot'ō-mi), n. [crico(id) + Gr. -τομία, ⟨ταμεῖν, cut.] Division of the cricoid

-ropa, \(\frac{\partial}{a}\) reaction cartilage in laryngotomy.

cricotracheal (kri-kō-trā'kē-al), a. [crico(id) + trachcal.] Relating to both the cricoid cartilage and the rings of the trachea.

cricotriæne (krī-kō-trī'ēn), n. [Gr. κρίκος, a

ring, $+\tau\rho iava$, a trident.] In the nemenclature of the spicular elements of sponges, a triæne in which the four arms bear series of concentric wrinkles. See *triwne* and *criccaltrop.

criminal, a.—Central Criminal Court. See *court.—Criminal code. See *code.

criminaloid (krim'i-nal-oid), a. and n. [criminal + -oid.] I. a. Similar to a criminal.
II. n. A person who in physique is similar

to the criminal type, that is, the type which is believed to predispose to criminal acts.

The scientifically trained and practically experienced examiner . . . can, moreover, by the same means [a physical examination] exclude the criminals, criminal-oids, and the degenerates.

Buck, Med. Handbook, VI. 181.

criminogenesis (krim"i-nō-jen'e-sis), n. [L. crimen (crimin-), crime, + γένεσις, origin.] The origin of crime. Baldwin, Diet. of Philos. and Psychol., I. 245.

criminography (krim-i-nog'ra-fi), n. [L. crimen (crimin-), crime, + -γραφία, < γράφειν, write.] The scientific description of crime, of its distribution, origin, and of the characteristics of criminals. Baldwin, Diet. of Philos. and Psychol., 1. 245. criminological (krim"i-nō-loj'i-kal), a. Of or

pertaining to eriminology. criminology (krim-i-nel'ō-ji), n. The science

crimping-brake (krim'ping-brāk), n. In shoe-manuf., a machine for crimping the vamps of shoes; a crimper. Also called banging-iron. erimping-form (krim'ping-form), n. A form on which vamps for boots may be crimped.

crimping-machine, n. 2. In sheet-metal work, or power-machine for crimping the a handedges of box-covers, cans, and other tinware; a machine closely allied to the beading-machine, employing rolls to form a crimp or corrugation in sheet-metal. - 3. A contrivance for crimping the tops of lamp-chimneys and other glassware. —Double-head crimping-machine, a power-machine for crimping both ends of a can at the same time. — Upright crimping-machine, one having horizontal crimping-rolls. It is adapted to crimping the edges of square as well as of round cans, the crimping-rolls following automatically the shape of the can, however irregular.

crimping-screw (krim'ping-skrö), n. A small, hand screw-press for crimping vamps.

crinanthropist (kri-nan'thro-pist), n. [crinan-

throp-y + -ist.] One who is in the habit of criticizing men. N. E. D. crinanthropy (kri-nan'thrō-pi), n. [Irreg. $\langle Gr. \kappa \rho i \nu e \nu \rangle$, judge, $+ \dot{a} \nu \theta \rho \omega \pi o \varsigma$, man.] Criticism of men. N. E. D.

crine² (krin), v. i.; pret. and pp. crined, ppr. crining. [Appar. & Gael. crion, wither, & crion, withered, little, = Ir. crion, earlier crin, = W. crin = Bret. krin, dry.] To shrink or shrivel up from dryness or heat, as in cooking.

[Scotch.] cringle, n.—Bull's-eye cringle, a cringle having a grooved ring of iron, called a thimble, around which the rope or wire is spliced.

crinid (krī'nid), n. [Gr. κρίνον, lily, + -id2.] A crinoid.

criniferous (kri-nif'e-rus), a. [L. crinis, hair, + ferre, bear.] Bearing hair. [Rarc.] crinin, krinin (krin'in), n. [Irreg. \langle Gr. $\kappa\rhoi\nu\epsilon\nu$, separate, + - in^2 .] A substance which will stimulate the secretion of certain glands,

such as the pancreas, for example, secretin.

crinivorous (kri-niv'o-rus), a. [L. crinis, hair, + vorare, devour.] Devonring hair. [Rare.] crinogenic, krinogenic (kri-no-jen'ik), a. Of

or pertaining to crinin. crinoline, n. 4. A contrivance worn by divers in deep water to enable them to breathe more freely. It is placed round the body and tied in freely. It is placed a front of the stomach.

crinoline-mount (krin'ō-lin-mount), n. Same

egetal, 'vegetal hair': see crincl and vegetat.] The commercial name of the fiber obtained from the leaves of the dwarf fan-palm of southern Europe and northern Africa, Chasouthern Europe and northern Africa, Chamwrops humilis. It is usually twisted, curled, and dyed to resemble curled horsehair, and is extensively used as a substitute for the latter in upholstery. See hempalm, and vegetable horsehair, under vegetable. Hannan, Textile Fibres of Com., p. 160.

crioboly (krī-ob'ō-li), n. [Also krioboly; ⟨ Gr. "κριοβολία, κριοβόλος, ram-slaying, κριός, ram, + βάλλειν, throw, cast.] A rite of the Phrygian worship performed by bathing in the

blood of sacrificial rams. The practice was introduced into Rome during the early Empire. Criophoros (kri-of'o-ros), n. [Gr. κρισφόρος, ζ κριός, a ram, + -φορος, ζ φέρειν, bear.] In Gr. myth., the ram-bearer, an epithet of Hermes, the ram being the animal especially sacrificed in his honor. There was a famous statue of Hermes Criophoros by Calamis at Tanagra in Bœotia.

cripple, n. 4. A kind of temporary staging used by window-cleaners.—5. In railroading, a freight-car or other car which has been injured or damaged in its running gear or is for any other reason unfit for use. A car condemned by a car-inspector as a cripple must be cut ont of its train and sent to the crippletrack. See *drill-yord.

cripple-rafter (krip'l-raf"ter), n. Same as

ipplc-timber.

cripple-stopper (krip'l-stop"er), n. A small gun used by sportsmen to kill wounded birds. cripple-timber (krip'l-tim"ber), n. In roof-construction, a timber made shorter, as required by the slope of the roof, so as to frame into a hip-rafter or valley-rafter. Often same as iack-rafter.

cripple-track (krip'l-trak), n. In railroading, a special track in a drill-yard for the storage or a special track in a drift-yard for the storage of repair of cripples, or injured cars. Such tracks are provided with ample space on each side to enable the repairers to work about the cars. If the injury is serious, cripples are unloaded and sent from the cripple-tracks to the repair-shops.

cripple-window (krip'l-win"do), n. A window

built in or upon the slope of a roof, as a dormer-window of any form; also, an opening filled with a sash in the slope of the roof itself. crisis, n. 3. A paroxysm of aente localized pain or of functional disturbance of some organ crisis, n. accompanying tabes dorsalis or other degeneraccompanying tabes dorsalis or other degenerative affection of the spinal cord.—Diet's crises, attacks of severe gastric distress in cases of wandering kidney.—Gastric crisis, a sudden attack of violent pain radiating from the region of the stomach, accompanied by nausea and vomiting, occurring sometimes in locomotor ataxia.—Laryngeal crisis, a convolving cough, with hoarseness and severe pain in the larynx, occurring in the course of tabes dorsalis.

crispifloral (kris'pi-flō-ral), a. [L. crispus, curled, + flos (flor-), flower, + -all (see floral).] Having crispate or curled flowers.

Jackson, Glossary.

crispifoliate (kris-pi-fō' li-āt), a. [L. crispus, curled, + folium, leaf, + -ate1 (see foliate).]
Having crispate or curled leaves. Jackson, Glossary.

crista, n., (b) In anat., a ridge or crest for the attachment of a muscle. (c) A narrow fold of enamel directed inward and backward from a point near the meeting of the protoloph and ectoloph in such a tooth as that of a rhinoceros. See cut under *tooth. (d) A cord-like longitudinal ridge on the dorsal surface of the egg-capsule of cockroaches. A. S. Packard, egg-capsule of cockroaches. A. S. Packard, Text-book of Entom., p. 519.—Crista ethmoidel, in ichth., the ethmoid: a median bone in Iront of the Irontals and shove the vomer. See cut under Esoz. Starks, Synonymy of the Fish Skeleton, p. 509.—Crista femoris. Same as linea aspera.—Crista hellcis, 'ridge of the helix,' the projection of the external ear just above the meatus, which divides the concla into two parts, the upper (cymba) and the lower (cavitas conche).—Crista inferior, in ornith., the ridge along the proximal portion of the lower border of the humerus.—Crista superior, in ornith., the marked ridge on the apper border for the attachment of the great pectoralis major.—Crista tympanica, 'tympanic ridge,' a roughened line on the sunulus tympanicus which serves for the attachment of the drum membrane.—Crista ulna, 'ridge of the ulna'; the external border of the ulna,

critenchyma (kri-tengk'i-mä), n. [NL., < Gr. πριτός, separated, + εγχνρα, infusion: see *cnchyma.] In bot., the tissue of the sheaths of fibrovascular bundles. Jackson, Glossary. criteriology (krī-tē-ri-ol'ō-ji), n. [Gr. κριτήριον, criterion, + -λογια, < λέγειν, speak.] The doctrine of criteria or standards of judgment. See criterion.

Criterion of equilibrium, of kinetic stability. See *cquilibrium, kinetic *stability.

ity. See *cquilibrium, kinetic *stability.

Critical days, days on which the crisis of an acute disease may occur.—Critical integer, mineral. See *integer, *mineral.—Critical period. Same as ctimateric.—Critical point. (c) In math., a point where the slope of the graph of a function is zero or infinitely great.—Critical pressure, solution, speed. See *pressure, etc.—Critical state, in phys., the condition of unstable equilibrium between the vapor phase and the liquid phase, in which a substance exists when at its critical pressure and critical temperature.—Critical temperature, tube, value, etc. See *temperature, etc. Criticism. n.—Morellian criticism. It was neticed

criticism, n.—Morellian criticism. It was neticed by Glovanni Morelli (1816-91), the critic of Italian painting, that the old painters dropped unconsciously into mannerisms in the representation of details, both im-



portant and unimportant; each master, for instance, having a peculiar way of constructing a hand or an ear. Morelli used these peculiarities with good results to supplement the higher criticism of style, color, and composition in ascribing paintings to their proper authors. The method has been widely adopted in the criticism of

croaker, n., 4. (e) The little roncador. (f) Any fish of the scienoid genns Micropogon, especially M. undulatus.—Black croaker, thered roncador.—Post croaker. Same as spot, 7 (a).—Silver croaker, a schenoid fish, Bairdiella chrysura, found on the Atlantic coast of the United States.—White croaker, the queenfish.

Croatan group. See $\star group^1$.

crobylus, n. See krobylos.

crocard (krō-kard'), n. [Also crockard (a modern spelling, but the word is not in modern use); ME. crocard, AF. crokard, prob. \langle ME. crok, a erock, a potsherd: see $crock^1$.] A base coin current in England in the time of Edward I.

croc-chien(krō-shyan'),n. [Colonial F., for croc de chien, 'dog's fang' (from the hooked spines on the stems and leaves): F. croc, fang or tusk; chien, dog.] A common name in the West Indies of climbing palms of the genus Desmoncus. Their stems and the petioles and midribs of the leaves are beset with hooked spines, making them very tronblesome to one walking in a forest. See Desmoncus.

As the Spanish soldiers ran from the English, one of them was caught in the immunerable hooks of the Croc-chien. Kingsley, At Last, lii.

crocein (krō'sē-in), n. $[croce(ous) + -in^2.]$ A name given to several acid coal-tar colors A name given to several acid coal-tar colors on account of the bright red they produce.—
Brilliant crocein M, 3B, and 9B, acid coal-tar colors of the disazo-sulphonic-acid type. They dye wool a bright bluish red from an acid bath, and are also used in coloring paper and, to a limited extent, in dyeing cotton.—
Crocein B and 3B, two acid coal-tar colors of the disazo type. The former is derived from amidoazo-benzine and the latter from azo-toluene. They dye wool red in an acid bath.—Crocein 2B or 3BX, an acid coal-tar color of the monoazo type, derived from naphthionic acid. It dyes wool red in an acid bath. Also called scarlet ood.—Crocein orange, scarlet. See *orange1, *scarlet.

crocetin, n. (b) An amorphous red product, $C_{34}H_{46}O_{11}$, obtained by heating crocin, the coloring matter of saffron (Crocus sativus), with

dilute mineral acids.

crochet, n. 4. A fold of enamel directed forward from the anterior edge of the median cross-crest (metaloph) in such a tooth as the molar of a rhinoceros. See cut under *tooth.

crocine (krŏ'sin), a. [L. crocinus, < Gr. κρόκινος, < κρόκιος, saffron: see crocus.] Of or pertaining to the crocus.

crock², n. 2. In cricket, a worthless player. [Slang.]

crocketed, a. 2. Having crockets, or terminal snags: said of stags' horns.

crocketing (krok'e-ting), n. 1. In arch., the system of crockets, as along the gable, or one angle, of a spire.—2. Decoration by means of crockets, as along the gable, or one distribution or feigned to be sick; in poor condition; in rows of crockets: as, a steeple adorned by rich crocketing.

crockman (krok'man), n. A man who deals in crockery

crock-stick (krok'stik), n. A stick used for stirring a pot; a pot-stick; a spurtle. crocodile-arrow (krok'ō-dīl-ar"ō), n.

arrow bearing the design of a crocodile on its foreshaft: used by the natives of Torres Strait, and remarkable on account of the conventional modifications of the erocodile design. Haddon, Evolution in Art, p. 20. crocodile-shears (krok'ō-dil-shērz), n. sing. and

pl. Same as *alligator-shears.

crocose (krô'kôs), n. [croc-us + -ose.] Sugar obtained by the hydrolysis of erocetin: now known to be glucose. Also called saffron-sugar.

Crocosmia (krō-koz'mi-ä), n. [NL. (Planchen, 1851-52), < Gr. κρόκος, saffron, erocus, + ὁσμή, smell. The dried flowers when moistened have the odor of saffron.] A genus of plants of the **croom** (kröm, n. A dialectal form of crome?, family *Iridacex*, which includes only one species, C. aurea, a showy bulbous autumn-bloom on either side of the median line, immediately allied genns Tritonia by having the stamens separated at equal distances instead of grouped at one side, the tube not swollen at the top, and the fruit 3-seeded instead of many-seeded. Its entityation is that of Giadiolus. The plant by return to Artiss. plant is native to Africa.

crocus, n. 5. In old chem., a yellowish or reddish impure oxid of some of the metals: as, crocus antimonii or crocus metallorum, an impure oxid of antimony obtained by deflagration of natural sulphid of antimony with saltpeter; crocus Martis, oxid of iron left on heating sul phate of iron to redness in the air; erocus Veneris, red oxid of copper obtained by heating copper in the air.-Autumn, fog, meadow, or Mi-

chaelmas crocus, the meadow-saffron, *Colchicum autumnale*.— **Prairie** or **wild crocus**, the American pasqueflower, *Pulsatilla hirsutissima*. See *pasque-flower*.

crocused (krô'kust), p. a. Covered or decked Ruskin. with crocuses.

crocus-powder (krô'kus-pou#der). n. An old name for red oxid of iron in fine powder, used

as a polishing material. See crocus, 4. crodonium (krō-dō'ni-um), n. [NL.] A supposed new chemical element announced by Trommsdorff in 1820 as present in an incrustation produced by sulphuric acid: afterward shown to be a mixture of common substances. croft-bleaching (krôft'ble#ehing), n. Bleach-

ing and exposure to the sun on grass, and frequent sprinkling; insolation. See croft, v. t.

crofter, n. Originally a customary tenant with well-defined rights to his holding, in the early nineteenth century the crofter came to be regarded merely as a tenant at will. Wholesale evictions of crofters led, in 1883, to at will. Wholesale evictions of crotters led, in 1888, we the appointment of a parliamentary commission of investigation, the result of which was the enactment, in 1885, of the Crotters Act, which guarantieed permanence of tenure, compensation for improvements, and fair rents, determined by a permanent commission.

Since the passing of the *Crofters* Act of 1885, and the amending statutes of succeeding years, which added to the Commissioners' powers of flxing fair rents and cancelling arrears, the power of enlarging erofts and common grazings, political agitation among the Highland evolvers has practically died out. Encyc. Brit., XXXII. 464.

crogan (krō'gan), n. See *craggan.

crogan (kro gan), n. See *crayyan.
crokinole (kro'ki-nôl), n. [Also croquinole, crockinale; \ F. croquignole, a fillip: probably connected with croquignole, craquignolle, a cracknel, which originated in the root of crack. v.] A game played on a round or octagonal board, in which round wooden disks are filliped from the edge toward the middle. See squail.

Cro-Magnon race. See *race3. cromfordite (krom'fôr-dit), n. [Cromford, a locality in Derbyshire, + -ite2.] Same as

phosgenite.

cromhorn (krom'hôrn), n. Same as cromorna. crommelin (krom'e-lin), n. [Appar. from a surname Crommelin.] A light roasted starch, similar to roasted potato starch, used in calicoprinting as a thickener for thin colors.

Crompton loom. See *loom¹. Cromwellism (krom'wel-izm), n. Policy and methods characteristic of Oliver Cromwell. See Cromwellian.

Cronartium (krō-när'shium), n. [NL. (Fries, 1815).] A genus of parasitic fungi of the order Uredinales. The acidia grow on conifers and have been called Peridermium. The uredospores and telentospores occur on leaves of Ribes, Asslepias, Quercus, etc. The telentospores are one-celled and arranged in sleuder cylindrical brown masses. C. Asclepiadeum has acidia on the trunk or hranches of Pinus sylvestris and telentospores on Cynanchum Vincetoxicum, in Europe.

'bad trim,' as a race-horse.—2. Unsound; eranky; shaky; unstable; 'crooked': as, cronk financial institutions.—3. Obtained by theft or fraud; stolen: as, cronk goods. [Australian slang in all senses.]

crook, n., 4. (f) A British foundry name for a compass of wood used in the forming up of the molda for asting bells.

10t. A name given to both the parenthesis ()

and the square bracket [].

crookbill (krūk'bil), n. The New Zealand plover, Anarhynchus frontalis, in which the bill is bent sidewise.

crooked-foot (kruk'ed-fut), n. A pathological condition of a horse's hoof in which one wall is concave from the coronet to the plantar surface, while the opposite wall is convex. The hoof may be said to be twisted to form an are of a circle.

Crookes's layer, space, vacuum. See *layer, *space, *vaeuum.

back of the shoulder. See cut under *point! -16. The working unit in the making of turpentine, consisting of a forest tract of from 200 to 250 acres, containing approximately 10,500 faces.—17. In certain cephalopods and other mollusks, a more or less dilated portion of the esophagus, sometimes forming a lobular cæcum.—Ameliorating crop, a crop beneficial to the soil, and grown wholly or partly for that reason.—Black crop, a crop of beans or peas, as opposed to one of cereals: according to some, it includes vetches when grown for seed. [Great Britain.]—Brown crop, a crop other than one of grain, as legumes, turnips, etc.

Most of the modern systems of rotation in connection with high farming depend . . . npon the alternation of

straw crops and leaf crops, or, as the old terms were, "white crops" and "brown crops."

Storer, Agriculture, II. 220.

Catch crop, a minor crop occupying the soil between the times of two principal crops; specifically, in Great Britain, a fallow crop of vetches, clover, rye, or the like, following the grain of one year and preceding the root crop of the next. See eropped *nallow and stolen crop.—Cleaning crop, a crop which serves in any manner to rid the ground of weeds.

It trye] hecomes in a sense a "cleaniay" crop when another crop immediately follows the depasturing.

T. Shaw, Forage Crops, p. 173.

T. Shaw, Forage Crops, p. 173.

Companion crop, a crop which is grown with another crop, the two occupying the land simultaneously.—Cotton crops. See *cotton!.—County crop, the crop or hair-ent of prisoners in the county jail. [Slang.]—Cover crop, a legiminous crop planted to protect the soil from washing and weeds during the period when it is not occupied by the nain crop, at the same time serving to enrich it.—Crop report, specifically, an official exhibit of the condition of domestic crops, published monthly by the United States Department of Agriculture. These reports are based upon the advices of voluntary correspondents.—Crop writer, a skilled agriculturist who collects agricultural reports as to the prospects of good crops or poor crops. poor crops.

Educated and practically trained meteorologists, crop writers, printers, and messengers are on duty, fully equipped with the most improved instruments and mechanical appliances for performing their various functions.

Yearbook U. S. Dept. Agr., 1897, p. 67.

tions. Yearbook U. S. Dept. Agr., 1897, p. 67.

Forage crop, in the broadest sense, any crop grown principally for forage, that is, as feed for stock, or any crop so far as grown for this purpose. Cereals, including Indian corn, become forage crops when intended for stock-feeding, and even the sugar-beet when the use of the pulp for stock-feeding is in view. More often the term is used in some limited sense, as —(a) In British agriculture, a crop grown as green food for stock, exclusive of root crops and temporary or permanent pasture. (J. Muir. Agriculture, p. 243.) (b) In the United States, usually a crop of which the herbage is eaten either green or dry, not exclusive of pasturage; the meaning is not well defined with reference to roots, which (until recently the sugar-beet) have been little grown in the United the sugar-beet) have been little grown in the United States. (See the extract.) T. Shaw ("Forage Crops," p. 1) restricts the term to pasture crops other than grasses.

In a more limited and technical sense a forage crop is an annual crop in which the whole plant is used for food.

T. F. Hunt, Cereals in America, p. 7.

Leguminous crop, a crop of any useful legiune Leguminous crop, a crop of any useful legume or pulse-plant, more especially of one grown in the field for cutting or for plowing under. Under such crops are included all the cultivated true beans, peas, and clovers, the vetches or tares and lupines, the cow-pea, chick-pea, horse-bean, soy-hean, sword-bean, sanfoin, sulla, sweet clover, beggar-weed, etc., all belonging to the family Fabnees.—Money crop, a crop which is sold, as cotton, in distinction from one consumed on the farm.—Nitrogen fixing crop, a crop of some plant whose roots serve as hosts for the microbes which have the power of fixing the free nitrogen of the air as organic matter. The plants hosts for the microbes which have the power of fixing the free nitrogen of the air as organic matter. The plant available for this purpose are legnmes, such as clovers, the cow-pea, etc. The nitrogen accumulated in the roots is prepared for plant use through nitrification. See nitrification, *mitrogen-fixing, and nodule-bacteria under Bacterium.—Nurse crop, an annual crop which serves, primarily or incidentally, to protect the young growth of some longer-lived crop, as rye or wheat sown with clover to secure the benefit of its shade. The term has been applied also to the banana grown with coffee to shade it.—Protective crop. Same as nurse *erop.—Renovating crop, a crop grown for its effect in improving the soil; often, however, serving also as forage. Soiling crops (see helow) may also be renovating crops.—Root crop. See root-crop and cropped *fallow. In Great Britain root crops consist of turnips (white and yellow), Swedes, mangel-wurzel, carrots, anso be removating crops.—Root crops and crops and cropped *fallow. In Great Britain root crops consist of turnips (white and yellow). Swedes, mangel-wurzel, carrots, and parsnips, with which are sometimes counted cabbage, kale, rape, and the potato.—Scourging crop, a crop which impoverishes the soil. [Great Britain.]

The flax is what is termed by farmers a scourging crop. Low, Pract. Ag., p. 284.

Low, Pract. Ag., p. 284.

Smothering crop, a dense and vigorons crop grown to suppress weeds.—Soiling crop, a crop suited to the purpose of soiling, that is, of being fed green to cattle in the stall or yard. Indian corn, small grains, and grasses can be thus nsed; but leguminous crops (clover, the cowpea, alfalfa, etc.) are advantageons in that they require little expensive mannring and leave the soil richer and in better physical condition than before (see nttrogen-pixing *crops*), at the same time affording a rich mitrogenous food.—Stolen crop, a catch-crop: so called because it is taken between regular crops, as if by stealth.—Succession crop, a crop which is grown directly after another in a short rotation, particularly horticultural crops, as a succession in one season of lettuce, beans, and turnlys. The practice of raising succession crops is called *succession-cropping.—Top crop, in cotton-growing, a crop which, in the more southern States, may sometimes be gathered from the upper, late-maturing bolls.—Trap-crop, a crop attractive to noxions insects, planted to draw them away from some other crop. On the trap-crop the insects are killed hy poison, or in some cases the crop laden with eggs is fed to cattle.

crop, v. t. 4. To shear; cut the nap from, as

crop, r. t. 4. To shear; cut the nap from, as woolen cloth.—5. To cut down needlessly the outer margins of a book. When this cutting shaves the type the book so treated is said to be bled.

crop-belt (krop'belt), n. .Same as crop-*zone. crop-ends (krop'endz), n. The rough, unfluished ends of rails, billets, or blooms, in the rolling-mill process, which are cut off in bringing the finished pieces to standard length and to remove the defective portions which are conare melted over again and charged, as scrap, into the furnaces.

Large billets can be rolled at one operation into small rods of great length, so that the proportion of metal wasted in the form of crop-ends is greatly reduced.

Encyc. Brit., XXIX. 588.

crop-head (krop'hed), u. The top or head of an ingot. This is always less sound than the bottom or foot, since the formation of the "pipe" in cooling occurs in the head, and any impurities rise there by liquation. More metal should therefore be cut off from the head than from the bottom end. See * crop-ends.

The next process is to cut the long bloom up into smaller blooms, in which electrically-driven bloom shears are brought into play. The rough ends — "crop heads" are cut off and are placed by an electric crane in a car for shipment to any part of the works.

Sci. Amer. Sup., Feb. 21, 1903, p. 22687.

crop-leather (krop'le#H"er), n. Sole-leather made from a hide from which the belly has been trimmed off.

crop-over (krep'e"ver), n. The end of the sugar-cane harvest on a plantation; hence, a celebration or harvest-home often held on the last day of the caue-cutting. [West Indies.] **cropper**⁴ (krop'er), n. [See the def.] A small

bed-and-platen printing-press invented by George P. Gordon (1858) of New York, but named from the machinist (H. S. Cropper) who introduced it into Great Britain. cropper-worker (krop 'er-wer ker), n.

who operates a cropper or cropping-machine used in facing cloth by cropping or shearing

cropping, n., 3. (b) pl. Exposures of bed-reck through the surface-mantle; outcrops.—Comhined cropping, in forestry, the combination of for and field crops on the same area.

cropping-out (krop'ing-out"), n. A rock exposure: an outcrop.

cropping-shears (krop'ing-sherz), n. sing. and Same as *alligator-shears.

crop-service (krop'ser "vis), n. See climateand crop-service, under *climate.

crop-tin (krop'tin), n. Same as crop-ore. croquant (kro-kant'), n. [F. croquant, crack-ling, crisp, ppr. of croquer, crackle.] A crisp sweet cake or pastry; something brittle made of nuts, as peanut brittle, etc.

crosnes (krôn), n. Same as *chorogi.
cross¹, n. 15. In geom., the point determined by two straight lines: the intersection of two by two straight lines: the intersection of two straight lines.—Axial cross. See *axial.—Celtic cross, a form of sepulchral monument found in England, Scotland, Ireland, and the islands. The name Celtie is largely conventional, the works themselves often dating from a later period, sometimes as late as the thirteenth century. They are decorated with interlaced patterns commonly called Celtic.—Cervical cross. See *cervical.—Cross dollar. See *dellar.—Cross fof the Holy Ghost, the decoration of the Order of the Holy Ghost, which see, under ghost.—Egyptian cross. See *Egyptian.—Irish cross, a form of Celtic cross having a circle at the intersection of the arms with the shaft. See Celtic *cross* and cut of monumental cross, nader cross! na.—Stations of the cross, a series of fourteen representations of the passion of Christ, either painted or in relief, around the interior of a Roman Catholic church, before which the faithful pray and meditate; also, the formulary of prayers used for this purpose.—To give the double cross to, in racing or any game or sport in which betting is concerned, to conspire with one man to betray another and then to betray the first: as when A, a runner who can easily outrum his opponent B, arranges (for a consideration) with C to let B win, and then, having informed his own backers of this contract with C, arranges with them (for a consideration) to win the race himself (thus giving the double cross to, if who and then, having informed his own backers of this contract with C, arranges with them (for a consideration) to win the race himself, thus giving the double cross to C, who, nnaware of A's treachery, bets on B and loses both his bets and the consideration he had paid. See cross, 14. [Gamblers' slang.]—Toshake the cross, to abandon crooked or swindling ways; become 'good. [Slang.]

cross¹, a. 9. Dishonest not honestly come by;

not on the square: as, a *cross* herse. [Slang.]
— 10. In *logic*, having an extensive part in — 10. In logic, having an extensive part in common, without including or being included. Cross terms are such terms as living and corruptible, if there are things that are both living and corruptible, others living but incorruptible, others not living but corruptible, whether there is or is not anything neither living nor corruptible.— Cross keys, ratto. See *key1.** **ratio.** cross1, v. i. 6. In euchre, when the trump is turned down, to make it the opposite color.

cross-arm (krôs-ärm), n. A cross-piece; an arm or bracket which crosses a pole or post: used on poles to carry wires and keep them separated.

cross-assortative (krôs'a-sôr"ta-tiv), a. Re-cross-beard (krôs'bērd), n. In organ-building, see *beard, 6 (b).

centrated into such wastage. The crop-ends cross-beat (krôs'bēt), n. In beating time for music, the motion of the hand sidewise or acress in marking one of the pulses of a measure between the initial and the final pulse; also,

such an intermediate pulse itself.

cross-bedded (krôs'bed ed), a. Having crossor false bedding. See false bedding, under

cross-belt, n. 2. In mach., a crossed belt; a belt which is crossed or twisted so that the

driven pulley will run in a direction opposite to that of the driver. cross-binding (krôs'bīn"ding), n. In mach.

binding across corners; the act of sticking in guides, due to a tendency to twist instead of to

travel in a line parallel to the guides. cross-border (krôs' bôr "dêr), a. Forming a border across, as across a fabric woven on a

Jacquard loom, such as that in a handkerchief, a table-cover, a towel, etc. T. W. Fox, Mechanism of Weaving, p. 165.—Cross-border Jacquard loom. See *loom! cross-bred, a. II. n. In biol. the offspring

produced by the crossing of parents which ex-hibit antagonistic or mutually exclusive char-acters, such as blackness and whiteness, tallness and snortness, which do not blend. The generative cells of a cross-bred are held to be of two sorts—those that confer upon descendants the characteristics of one parent and those that confer the characteristics of the other. ness and shortness, which do not blend.

Hence it is seen that the 75 per cent. dominants are not really of similar constitution, but consist of twenty-five which are pure dominants and fifty which are really cross-breds, though, like the cross-breds raised by crossing the two original varieties, they only exhibit the dominant character.

Bateson, Mendel's Prin. of Heredity, p. 10.

cross-catalogue (krôs'kat"a-log), $v.\ t.$; pret. and pp. cross-catalogued, ppr. cross-cataloguing. To enter in a catalogue under two or more headings, as under both author and subject.

cross-chains (krôs'chānz), n. pl. Chains connecting the front and rear sleds of a loggingsled.

cross-claim (krês 'klām), n. An opposing claim; a claim in reply or opposition to another; a counter-claim.

cross-coloring (krôs'kul"er-ing), n. In geol., color-markings developed independently of the stratification by infiltrated matter. Science, May 31, 1901, p. 869. cross-crib (krôs'krib), n.

crooks and blacklegs. Sland. Dict. [Thieves' slang.]

Stang.]
Cross-curves of stability, in naval arch., a congeries of curves showing righting arms or righting moments of transverse stability of a vessel. Each cross-curve represents for a constant inclination the righting arm with reference to a fixed pole, as an ordinate, corresponding to the varying displacements as abscisse. On such a diagram a vertical line with any given displacement as abscissa gives, by its intersection with each curve, the righting arm at the corresponding inclination, from which the curve of statical stability for the given displacement for all inclinations can readily be plotted.

placement for all inclinations can readily be plotted.

crosscut, v. t. 2. To cross-plow, as in fallow-

A rough condition of soil . . . such as is obtained by winter ploughing and spring cross-cutting.

J. N'rightson, Fallow and Fodder Crops, p. 15.

cross-cut, n. 3. In math., a line, regarded as a section actually made in the surface, which begins at one point of a boundary, goes into the interior of the surface, and, without anywhere intersecting either another boundaryline or itself, ends at a point of the boundary. A cross-cut may connect two points on the same boundary-line, or two on different boundary-lines; or it may end where it began; or it may end in a point of its previous course. Also cross-line. cross-division (krôs'di-vizh en), n.

In logic, a multiple mede of division by which the concept or class divided is divided in several ways, each subclass in each of these ways intersecting every subclass in each of the other ways. Thus, if men are divided according to their complexions, according to their ages, and according to their social status, this will be a cross-division. Mendeléjeff's division of the chemical elements into groups and series is a cross-division.

is a cross-division. **crossdye** (krôs' dī), v. t.; pret. and pp. cross-dued, ppr. crossdyeing. To carry out the prodyed, ppr. crossdyeing. To earry cess of *crossdyeing (which see).

crossdye (krês'dī), n. A color suitable for use

in crossdyeing,—Crossdye black. See *black.
crossdyeing (krôs'dī-ing), n. [Verbal noun of
crossdye.] The process of dyeing cetten-andwool union-cloth in which the cotten warp has been dyed seme color before weaving. During the crossdyeing the woolen or worsted filling may be colored to match the cotton warp, or it may be dyed a different color. In the latter case the result is called a shot-effect. See the extract.

Cross-dyeing is always preferred for medium and better class goods, since it is then possible to dye both the cotton and the wool with a greater choice of colouring matter and process, and the most suitable for each fiber may be employed.

J. J. Hummel, Dyeing of Textile Fabrics, p. 466.

Crossed inheritance, paralysis. See *inheritance, paralysis.

cross-education (krôs'ed-ū-kā"shon), n. In psychol., the transference of the effects of practice from the one side of the body to the other, unpractised side. W. W. Davis, Yale Psychol. Stud., 1898, p. 6.

cross-fault (krôs'fâlt), n. In geol., a fault striking across the axis of a mountain-range

or the general strike of the displaced strata.

Both longitudinal and cross-foults are said to have been developed more especially in the Eastern Alps. Geog. Jour. (R.G.S.), XVL 461.

cross-feed (krôs'fēd), n. In mach., a device for feeding the tool or material crosswise in relation to the principal metien of either, or in relation to the long axis of the machine.

cross-fertilization, n. 2. In general, the sexual union of two germ-cells from two parent organisms, as contrasted with self-fertilization in plants and in some hermaphrodite animals. cross-fiber (krôs'fī"ber), n. One of the varieties of chrysotile asbestos or fibrous serpentine.

This mineral occurs as a filling of veinlets, in which the This inmeral occurs as a filling of veililets, in which the fiber sometimes lies more or less parallel to the walls (especially where movement has affected it), and is then called slip-fiber; but more commonly the structure is almost at a right angle to the vein-walls, and is then called cross-fiber.

Amer. Geol., March, 1905, p. 194.

cross-figure (krôs 'fig" \bar{y} r), n. A superficial figure which crosses itself, as a figure 8.

cross-fingering (krês' fing "ger-ing), n. In playing certain wood wind-instruments, like the flute, the use of the fingers out of the regular or serial order, so as to make extreme tones possible.

cross-flow (krôs'flō), v. i. To flow transversly. cross-flute (krês'flöt), n. A transverse flute. See *flute1, 1.

cross-fold (krôs'fēld), n. A fold which crosses another older fold obliquely or at right angles.

These had been deformed by oblique cross-folds. Nature, Feh. 12, 1903, p. 359.

A headquarters for cross-fur (krôs'fèr), v. t. To fur or cover with laths diagonally.

cross-hatch (krôs'hach), n. In engraving, a series of lines intersecting at right angles or diagonally.

cross-hatch (krôs'hach), v. t. In engraving, to shade with lines crossing one another. See

cross-haul (krês'hâl), n. In logging, the cleared space in which a team moves in crosshauling.

cross-haul (krôs'hâl), v. t. In logging, to load (cars or sleds) with logs by herse-power and crotch or leading-chain.

cross-head, n. 3. In printing, same as *crossheading.

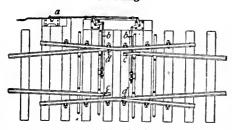
cross-heading (krôs'hed"ing), n. 1. In mining: (a) A passage driven for ventilation from the airway to the gangway, or from one breast through the pillar to the adjoining working. (b) A roadway driven in the solid, or maintained through old workings, to intersect other haulage-roads diagonally or at right angles. (c) A roadway driven at less inclination than directly to the rise of the seam.

Coal and Metal Miners' Pocketbook.—2. In printing, a subheading; a title set in the body of the printed matter at the beginning of a subdivision of the treatment.

cross-heredity (krês' hē-red 'i-ti), n. The resemblance of descendants to parents or ancestors considered reciprocally, or through the comparison of the descendants of male ancestors who are x and female ancestors who are y with those of male ancestors who are y and female ancestors who are x. April, 1903, p. 344. Biometrika,

April, 1903, p. 344.

Crossing, n.—Movable-point crossing, in railroading, a track-crossing formed of a pair of split switches placed with the points facing each other where the tracks cross at a small angle. The two switches move together in opposite directions, and any movement opens one track and closes the other. Another form is called a movable-frog crossing.—Reciprocal crossing, the crossing of the male of one race or species with the female of a second, and of the male of the second with the female of a feriprocal sterile. The eggs of Echinus microtuberculatas are readily fertilized with the sperm of Strongylocentrotus



Movable-frog Crossing. a, switch-stand and lever; b, b, switch-rods; c, c, frog in open position; d, d, closed position.

lividus, but the eggs of S. lividus cannot be fertilized with the sperm of E. microtuberculatus.

crossing-plate (krôs'ing-plāt), n. An iron or steel plate forming a crossing of two lines of

crossite (krôs'ît), n. [Named after Whitman Cross of the United States Geological Survey.] A mineral of the amphibole group, in composition between glaucophane and riebeckite. It is marked by its bright blue color and is frequently observed in the crystalline schists of the Coast Range in California.

cross-lamination (krôs 'lam -i - nā " shon), n. Minor bedding somewhat oblique to the major stratification-lines in sedimentary rocks; cross-

bedding or false bedding.

cross-leaf (krôs ' lēf), n. The cross-leaved, cauliflorous calabash-tree, Crescentia alata, a small tree with horizontal branches and round, gourd-like, hard-shelled fruit the size of a large orange. The leaves usually grow in fascicles of three, of which the middle leaf is trifoliate, composed of a long winged petiole and three leaflets, which together have the shape of a cross. The fruit and leaves are used medicinally in Mexico. The species is of Mexican origin, but was early introduced into Gnam and the Philippines. Also called *jicara*.

cross-leaved (krôs 'lēvd), a. In bot., having four-leaved whorls in the form of a cross.

Crossley reflector. See *reflector.

cross-line (krôs 'līn), n. Same as *cross-cut, 3.

cross-matched (krôs ' machd), a. Said of a team of four or more horses in which the horses on either side resemble one another in color, but differ from those of the opposite side.

cross-memory (krôs'mem"ō-ri), n. In psychol., cross-education, regarded as a transference of habit or organic memory.

It was noticed by Weber and Fechner that the memory for arm movements is transferred from one side to the other, and that this cross-memory is symmetrical and not identical. Scripture, New Psychol., p. 190.

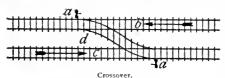
cross-motion (krôs'mo"shon), n. Motion of a star at right angles to the line of sight expressed in linear units (miles per second). It can be calculated from the proper motion (seconds of are per year) when the parallax of the star is known. Sometimes called the artures motion.

Crossopodia (kros-ō-pō'di-ā), n. pl. [NL., ζ Gr. κρόσσα', battlements, + ποῖς (ποδ-), a foot.] A name which has been applied to certain serpentine or vermiform markings on Silurian rocks, commonly regarded as the trails of crustaceans, worms, or mollusks. crossopterine (kros-op'te-rin), n. [Crossopter-

(ix) + -ine².] An amorphous alkaloid found in the bark of Crossopterix Kotschyana Fenzl.

of Abyssinia.

crossover, n. 2. In railroading, a crossing or connecting line of rails and two switches joining two lines of rails. It is used to enable a cross-talk (krôs'tak), n. Talk from another



 a_i switch and switch-stand; b_i up-line; c_i down-line; d_i crossover,

train to cross from one line to another. See switch, 2, and *ladder, 3.—3. In elect., a place where two wires pass each other without touching. Should they touch a cross would be formed. See cross¹, 13.—4. Same as sontag.

5. The crossing of the swiftest current in a river from one side of the channel to the other. Crossovers generally occur between two bends in the course of a stream.

Just below the Pass of Lillo there is a cross-over in the cross-weed (krôs'wed), u. A plant of the genus [river] current, making a neutral point and forming a shoal.

Encyc. Brit., XXVII. 533.

cross-parental (krôs'pā-ren"tal), a. Of or pertaining to parentage considered reciprocally, or through the comparison of fathers who are x and mothers who are y with fathers who are y and mothers who are x.

I determined C from the twelve series and found for its mean value 5585. This is within two per cent. of the value of C found for the cross-parental relationships, and I think the agreement is as close as we could hope for.

Biometrika, Nov., 1903, p. 392.

cross-plow (krôs'plou), v. t. To plow at right angles with a former plowing.

cross-raise (krôs'rāz), v. t.; pret. and pp cross-raised, ppr. cross-raising.
nap of cloth) across its width. To raise (the

cross-reel (krôs'rēl), v. t. To wind (yarn) on a reel with a reciprocating motion. Nasmith, Cotton Spinning, p. 362.

cross-reference (krôs'ref#er-ens), v. t.; pret. and pp. cross-referenced, ppr. cross-referencing. To relegate or refer by a cross-reference; provide with cross-references.

cross-rib (krôs'rib), n. In a side of beef, one of the sternal ribs which run crosswise to the body.—Cross-rib steak. See *steak. cross-road, n. 4. Same as *cross-heading, 1

cross-section, n. 2. The area of a section, of a bar, tube, rod, or other body, taken at right angles to its axis. C. Hering, Conversion angles to its axis. C. Hering, Conversion Tables, p. 101.—Cross-section paper. See \star paper. Cross-section units, units of area, such as the circular mil and the circular millimeter, used for the convenient expression of the areas of cross-section of bars, rods, and wires. Such units are so defined as to avoid the use in computation of the factor π ; the circular millimeter, for example, is the area of a circle whose diameter is one millimeter. Also called circular units.

cross-sectional (krôs'sek"shon-al), a. Of or pertaining to a cross-section or that section of body (specifically of a bar, rod, or wire) which is normal to the major axis of the body. H. Du Bois, The Magnetic Circuit, p. 60.— Curve of cross-sectional areas. See *curves of ship catculations.

cross-septation (krôs'sep-tā"shon), n. division of a hypha or other cell hy means of a transverse septum.

cross-sleeper (krôs'slē"pėr), n. In railroading, a long tie, or one longer than those used in an ordinary track, employed to support more than two rails, as at a switch.

cross-slide (krôs'slid), n. That part of a machine on which either the work or the tool-That part of a macarriage travels across the principal direction of motion.

cross-spring (krôs' spring), n. In carriage-making, a half-elliptic spring which extends across the body, the ends being secured by toggle-joints to the ends of the side-springs.

cross-stitch (krôs'stich), v. t. To sew or em-I have classified the stars in this way not only as a whole, but also with reference to their cross-motion—motion at right angles to that of the sun.

S. Neucomb, in Pop. Sci. Mo., March, 1901, p. 457.

Cross-strictic (kros stich), r. t. 10 sew or embroider with a cross-stitch; sew or fasten with cross-stitches.

cross-straps (krôs'straps), n. pl. Ornamental

straps which cross one another at the end of the body of a carriage, the upper ends being secured to the body and the lower to the pumphandles.

cross-stratification (krôs'strat-i-fi-kā"shon), n. Cross-bedding or false bedding. See false. cross-stratified (krôs'strat"i-fid), a.

bedded. See false bedding, under false.

cross-stump (krôs'stump), n. In ericket, a stump 2 feet long, formerly laid like a bail across the two wickets. Hutchinson, Cricket, [Obsolete.]

telephone circuit that interferes with or intrades into one's own communication.

crosstoes (krôs'tōz), n. The bird's-foot tre-foil, Lotus corniculatus: so called from the digitate clusters of pods which twist after opening.

cross-town (krôs'tonn), a. That runs across the town: as, a eross-town line of street-cars; crotaphyte, n. An erroneous spelling of croaphyte.

cross-turret (krôs'tur"et), n. A turret in a turret-lathe the axis of which is horizontal and lies across the bed, instead of being ver-

tical, as in most turret-lathes.

cross-vault (krôs'vâlt), n. A groined vault, usually one in which the two cylindrical surfaces which meet one another are of the same width and height, so that the plan would form

a cross of the usual type. Cross-warp weave. See *wcave1.

Diplotaxis of the mustard family, especially D. muralis and D. tenuifolia, the cruciferous character of whose flowers is more than usually marked. See stinkweed, 1, and wall-rocket, under rocket2. Both species are adventive in the United States. known as sand-rocket.

cross-wind (krôs' wind), n. In archery, a wind

blowing across the range. cross-wind (krôs' wind), v. I. trans. To wind (yarn) on a recl in such a manner that the windings cross at an acute angle with the axis. Nasmith, Cotton Spinning, p. 360.

II. intrans. To twist; depart from a plane:

said of a plank or platform which twists out of

its plane

cross-wood (krôs'wud), n. A West Indian shrub of the family Theophrastaceæ, Jaquinia aculeata: so called from the fact that its branches are produced in whorls of four, thus forming a cross.

crotaconic (krō-ta-kon'ik). a. [crot(on) +
aconic(t).] Noting a crystalline, easily soluble aconic (1).] Noting a crystalline, easily soluble acid, CH₃CH:C(CO₂H)₂(1), obtained by the saponification of eyancrotonic acid: as, crotaconic acid (which melts at 119° C.).

crotalic (krō-tal'ik), a. [Crotalus + -ic.] Of or pertaining to the genus Crotalus, or to a poison derived from snakes of that genus.

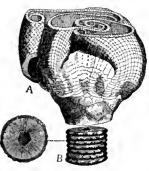
crotalin (krō'ta-lin), n. [Crotalus + -in².] An albuminous poison found in venom derived from snakes of the genus Crotalus.

crotalism (krō'ta-lizm), n. [NL. Crotal(aria) + -ism.] A disease of horses, known chiefly in the valley of the Missouri river, due to cating the rattlebox, Crotalaria sagittalis. Also called bottom disease, because it occurs on bottom-land.

The diseases resulting from plant poisoning known as locoism and crotalism, which prevail in some parts of the West and Northwest, are caused, respectively, by the continued eating in the field of some one of the several locoweeds (Astragalus and Aragailus species) and by the eating of the rattleweed or rattlebox (Crotalaria sagittalis) either in the field continued. either in the field or in hay.

Yearbook U. S. Dept. Agr., 1900, p. 308.

Crotalocrinus (krō-ta-lok'rinus), π. [NL., ζ Gr. κρόταλον, a rattle, + κρίvov, a lily (see crinoid). J A genus of singular camerate crinoids in which the branches ofthe first arms rapidly dichot-omize, but re-main united so that each arm forms a broad infolded net. It occurs in the Silurian rocks.



Crotalocrinus pulcher, Hisinger. Silurian; Gottland. A, crown with folded arms; B, portion of stem. (From Zittel's "Palæonlology.")

crotaloid (krô'ta-loid), a. [Crotalus + -oid.] Of or pertaining to a rattlesnake; having the characters of a rattlesnake.

crotaphion (krō-taf'i-on), n. [NL., \langle Gr. κροτόφιον, neut. of κροτάφιος, of the temples, \langle κρόταφος, temple.] In *craniom.*, the posterior terminal point of the suture between the parietal and sphenoid bones.

crotaphite, a.— Crotaphite fossa or depression, the groove on the posterior portion and superior face of a bird's skull in which the temporal muscles lie. The size of this is an indication of the power of the mandible, and it is large in fish-eating birds.

crotaphitic (krō-ta-fit'ik), a. [crotaphite + In anat., same as crotaphite. Also crotaphytic.

The morphogenic action of crotaphytic muscles on the skull and brain of the Carnivora and Primates, by M. R. Anthony.

Nature, Dec. 3, 1903, p. 120.

crotch (kroch), v. t. ln logging, to cut notches on opposite sides of (a log) near the end, into which dogs are fastened.

crotch-chain (kroch'chan), n. A tackle for loading logs on sleds, ears, or skidways by

cross-hauling.
crotchet, n. 11. In zoöl., one of the slightly curved and notched bristles or chattae companying probably. mon among Oligochæta, and serving probably as locomotor organs.—12. Same as crocket.

crotching (kroch'ing), n. In billiards, a play crow-eater (krô'ē"tèr), n. analogous to the anchor (see *anchored) in balk-line billiards, with the exception that, as the two object-balls lie transversely in a corner of the table, less accuracy of touch and ner of the table, less accuracy of touch and far less skill are required to keep them there. The same situation can occur in the jaw of a pockettable, but is more difficult to maintain, unless balls are larger and pockets smaller than the standard. Crotching beyond three successive shots was barred as early as 1862, and jawing in 1866; but both in America and in England expert professionals have since sometimes resorted to one or the other for their high runs.

crotch-tongue (kroch'tung), n. Two pieces of wood, in the form of a V, joining the front aud rear sleds of a logging-sled.

crotin (krō'tin), n. [Crot(on) + -in².] A highly poisonous toxalbumin contained in the seed of Croton Tiglium.

Crotonic aldehyde. See *aldehyde.

crotonoleic (krō*ton-ō-lē'ik), a. [Croton + L. aleum, oil.] Noting a pale-yellow compound existing, partly as free acid and partly as glyceride, in croton-oil. It is a drastic purgative.

purgative.
crounotherapy (krö-nō-ther'a-pi), n. [Reg. *erunotherapy, (Gr. κροννός, a spring, + θεραπεία, medical treatment.] Treatment of disease by a course of drinking or bathing, aided by a special dietary and exercises, at a mineral-spring resort. Lancet, July 11, 1903, p. 104.

croup¹, n.—Catarrhal croup. Same as false croup.
—Diphtheritic croup, diphtheria of the laryux.—
Fibrinous croup, true croup.—Intestinal croup, croupous inflammation of the mucous membrane of the intestine.—Pharyngeal croup, inflammation of the mucous membrane of the pharynx attended with a fibrinous exudation.—Pseudomembranous croup, true croup.—Uterine croup, croupous inflammation of the lining membrane of the uterus.

croup¹ (kröp), v. i. [Also croop, crupe, prob. imitative, like roup, etc. See croup¹, n.] To cry out; cry hoarsely; specifically, to cough hoarsely, as in croup. [Provincial (Sc.) or collog.

crouper-bush (krö'per-bush), n. The button-

bush, Cephalanthus occidentalis.

croup-kettle (kröp'ket"), n. A kettle under which a low flame is kept lighted so that there may be a continuous escape of vapor: used in giving vapor inhalations in cases of laryngitis, or to keep the atmosphere of the room humid.

croustade (krös-täd'), n. [F., < It. crostata: see crustate, custard.] A cup-like form of bread toasted, fried in hot fat, or dipped in melted butter and browned in the oven; also, a hollow mold of rice sprinkled with bread-crumbs and fried in deep fat, or of puff-paste filled with creamed meat, fish, etc.

crout (krout), n. Same as sauer-kraut. croûte au pot (kröt ō pō'). [F., 'crust in the pot': see crust.] A clear soup to which small pieces of toast, or of stale bread, have been added just before serving.

croûton (krő-toh'), n. [F., \ croute, ernst.] A small piece of bread dipped in melted butter and toasted in the oven, or fried in hot butter or fat: used in soups and to garnish various

types of stewed dishes.

crow², n. 2. (b) In the West Indies, particularly in Jamaica, the black vulture, Catharista atrata.—Blue-wattled crow, in New Zealand, a name given to Glaucopsis wilsoni, a hird of the crow family.

crow-bird (krô'bèrd), n. The purple grackle, Quiscalus quiscala: so called in some parts of the United States.

 $\mathbf{crowd}^{\mathbf{I}}, \ v. \ t.\mathbf{-To} \ \mathbf{crowd} \ \ \mathbf{off}, \ \mathbf{to} \ \mathbf{work} \ (\mathbf{a} \ \mathbf{ship}) \ \mathbf{off} \ \mathbf{from} \ \mathbf{the} \ \mathbf{land}.$

crowd¹, n.—Growd of sail, a press of canvas; all possible sail set.

crowd-poison (kroud'poi"zn), n. Volatile excrementitious matters contained in the respired air, which by concentration become dangerous to health in crowded places. G. H. Napheys, Prevention and Cure of Discase, I. 197.

crowd-poisoning (kroud' poi"zn - ing), n. A morbid state induced by the inhalation of waste products given off by the breath and skin of a number of persons confined in an unventilated space; ochlesis.

The symptoms arising from indigestion, from crowd-poisoning, from sewer-gas-poisoning, from ptomaine-poisoning (auto-infection), etc., are often ascribed to "malaria." Pop. Sct. Mo., Feb., 1901, p. 371.

crow-duck (krō'duk), n. See Fulica. crowd-weed (kroud'wēd), n. 1. The field-cress, Lepidium campestre.—2. The charlock or wild mustard, Brassica arvensis.

One who will do anything rather than work. [Colloq., Australia.

crowfoot. 2.

tralia.]

crowfoot, n. 2. The name is applied to many plants with pedately or palmately divided leaves, chiefly of the genus Ranunculus, but also of other genera, especially the club-mosses, Lycopodium inundatum, L. obscurum, and L. complanatum. See boy *club-moss, *Christmas green, and Lycopodium.—American crowfoot, the spotted crane's-bill, Geranium maculatum.—Celery-leaved crowfoot, Ranunculus secleratus. Also called water-celery (which see).—Corn crowfoot, Ranunculus arrensis, common in the Old world and sparingly found in the United States. See hungerweed and starve-acre.—Chrised crowfoot. Same as celery-leaved *crowfoot, marsh-crowfoot, Aloza Moschatellian, better known as holtowroot. Also called musik-root and moschatel. See Adoza.—Tuberons crowfoot. Same as musk*crooffoot.—Water-crowfoot.

Water-crowfoot. See water-crowfoot.—Wood-crowfoot. (a) The goldilocks, Ranunculus auricomus. See yoldilocks and Ranunculus. (b) The wind-flower, Anemone nemorosa.

crowfoot-grass (krō'fut-gras), n. 1. A plant, Dactyloctenium Ægypliacum, distinguished as little crowfoot, a low creeping grass of warm elimates, common in the southern United States. It is a weed of cultivated grounds, but sometimes cut for hay. The name, as with other crowfoot-grasses, refers to the digitate inflorescence.—2. The similar but larger Eleusine Indica, also called goose-grass, larger Eleusine Indica, also called goose-grass, yard-grass, wire-grass, etc. See wire-grass, 2.—Bearded crowfoot-grass, feather crowfoot-grass, a grass of the genus Chloris. See *inger-grass, 3.—Texas crowfoot-grass, Diplachne dubia, a promising hay-grass somewhat of the crowfoot habit.

crow-hop (krō'hop), n. The action of a horse in endeavoring to throw a rider by arching the beds, beddien the leave actiff and hydring vigo.

body, holding the legs stiff, and bucking vigorously. [Local, U. S.]

All bronchos are different individually, but the ways All bronchos are different individually, but the ways they try to throw their riders may be classed under three heads. The first is known as the crow-hop. The rider gets on a wild horse and immediately the steed bunches itself up like a goat, holds itself stiff in limb and body, and bucks promiscuously. It jars the rider, but the horse that only does this is considered easy and tame.

Wide World Mag., April, 1903, p. 548.

Wide World Mag., April, 1903, p. 548.

crow-line (krō'līn), n. The straight line of a crow's flight. See crow-flight.

crown. I. n. 7. (f) In mech.: (2) The amount of curvature of a surface or line. In pulleys for flat belts the face is made of larger diameter in the middle to check a tendency of the belt to work off to one side or the other by greater stretching on the edges. (9) In arch.: (2) An ornamental top of a tower used in late English Gothic. It resembles four or more flying buttresses meeting at their highest point. (k) In zodl.: (1) The protuberance on the head of a whale, particularly of a right whale, surrounding the blow-holes. [Rare.] (2) Same as crown-antler. [Rare.] (3) Same as coronell, 6 (in reference to the bones of a horse's foot). (4) In the terminology of the Crinoidea, the calyx without the stem. (l) In ship-building, the arching athwartship or camber of a deck or deck-beam; also, the top or central part of such an arched deck.

These spaces include the internal volume of the ship.

These spaces include the internal volume of the ship, below the deck forming the crown of the engine and boiler-rooms.

White, Manual of Naval Arch., p. 61.

(m) The horizontal cap-piece or collar of a set of mine timbers. Also called crown-tree. [Scotch.] (n) That part of the bridle of a harness which extends over the horse's head and to which the cheeks are attached. (o) In agri, the middle line of a ridge of land, formed by two furrow-slices laid back to back. [Great Britain.] (p) In bell-founding, the top of a bell, of which the cannons are parts and to which the tongue is attached within. Also called pallet. (q) Same as *howell.

12. (b) The summit

of a root, as of a beet or turnip, the leaf-bases forming a circle. (c) The lcaves and living branches of a tree. In forest measurements the use of the term varies with the kind of tree and the purpose of the measurements. For example, crown may be used to designate either the whole leaf-and-branch whole leaf-and-branch system or that portion of it above a dead or a grow-ing branch of a given size. In the description of trees the crown is said to be long or short, broad or narrow, compact or rag-ged, conical or flat.

16. An abbreviation of crown-glass.

Experiments of the eminent Jena glass-makers with phosphate crowns and borate flints are optically highly successful.

Encyc. Brit., XXV. 41. Brabant crown, a Belgian silver coin struck Crown Imperial Church offst. Giles, Edinburgh.



under Austrian domination, weighing 456 grains, .872 fine.—Crown forest. See national *forest.—Crown Imperial, in late English Gothic architecture, a decorative fluish of a tower produced by carrying up four curved ribs upon which a small spire is set. The term was invented in the nineteenth century to describe a tining once thought very attractive. The Church of St. Giles at Edinburgh is the best-known example, though there are several others, among them the Church of St. Dunstan's in the East, in the City of London.—Gothic crown, an English silver coin of Queen Victoria, struck as a pattern in 1846, 1847, and 1853.—Iron crown of Lombardy, a thin ring of iron, said to have been forged from a nail of the true cross, overlaid with gold and precious stones. It is supposed to have been made for Agilulf, king of the Longobards, in 591, and was worn by Charlemagne and all the medieval emperors who were also kings of Lombardy. Napoleon I, placed it upon his head. It Is now in the cathedral of Monza, in Italy.—Order of the Iron Crown of Italy. See tron.—Order of the Oak Crown, an order for civil and millitary merit, conferred by Luxemburg and founded in 1841.—Order of Rue Crown, a military order of Saxony, founded in 1807.—Petition crown, a rare coin of Charles 11., struck in 1638 with a petition of the mint-master to the king.—Triple crown, (a) and (b). See triple. (c) See *triple.

II. a.—Crown government.

II. a.—Crown government, government by the crown, as in a crown colony.—Crown grant, a grant from the crown.—Crown prosecutor. See *prosecutor.—Crown side, Same as Crown Office (which see, under crown).—Crown witness, in Eng. law, a witness for the prosecution in a criminal action.—Master of the Corwn Office, the prosecuting officer in the criminal department of the Court of King's Bench, who prosecutes upon the relation of some private person or informer, the crown being the non-inal prosecutor. the nominal prosecutor.

crown, v. t. 10. To give a crown or bulge to: as, to crown the surface of a ship's deck.—11. To cut off (the crown), as of a sugar-beet.

crownal (krou'nal), a. and n. I. a. Pertaining to or resembling a crown.

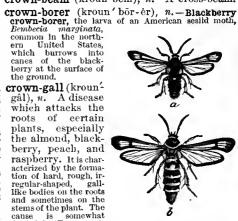
II. n. A coronet, chaplet, or garland; a

coronal.

crown-beam (kroun'bēm), n. A cross-beam.

the ground.

crown-gall (kroun'gâl), n. A disease which attacks the roots of certain plants, especially the almond, black berry, peach, and raspberry. It is characterized by the formation of hard, rough, irregular-shaped, gall-like bodies on the roots and sometimes on the stems of the plant. The cause is somewhat cause is somewhat doubtful. Tourney attributed it to a myxomycete which he named Dendrophagus globosus.



Blackberry Crown-borer (Bembecia marginata).
a, male; b, female.

crown-gear (kroun'ger), n. A crown-wheel; a gear having teeth cut in the edge of an annular ring, or as if in the end of a hollow cylinder.

crown-grafting, n. 2. A kind of grafting in which the scion is inserted at the crown of the plant (where it emerges from the ground). crowning, n. 6. In agri., the cutting off of the crown, as of sugar-beets. See *crown, 12 (b).

crown-moth (kroun'môth), n. A moth whose crown-moth, an American sesiid moth, Sesia rutilans, whose larva bores in the crown of strawberry, raspberry, and blackberry plants on the Pacific coast.

crown-of-the-field (kroun "nv-the-feld'), n.

The corn-cockle, Agrostemma Githago.

crown-piece, n. 3. The crown-sheet or top
plate of the fire-box of an internally fired boiler.

crown-plate (kroun'plat), n. 1. The top plate of the fire-box of an internally fired boiler .-In carp., the horizontal member which finishes a frame at the top. In a wall, as of a framed house, the crown-plate may receive the timbers of the attic floor, or the rafters of the roof, or both. It is the top chord of a frame, as the sill is the bottom chord.

crown-princess (kroun'prin "ses), n. of a crown-prince: as, the crown-princess of Prussia. [Commonly as two words.]

crown-roast (kroun'rost), n. The ribs of lamb as a fancy roast with the upper part of the bones trimmed and the whole turned on itself and so fastened that the center is hollow.

crown-tree (kroun'trē), n. 1. The horizontal timber of a timber framework, which rests on

top of the uprights and on which rest the rafters or, in some cases, the joists. - 2. Same

as *crown, 7 (m).

crown-tuber (kroun'tū"bėr), n. A tuber the upper part of which is stem or crown, the lower part being root, as beet, carrot, radish. L. H. Bailey.

crown-work, n. 2. In dentistry, the attachment of an artificial crown of gold or porcelain crown-work, n. to the root of a tooth.

crow-pheasant (krō'fez"ant), n. A large East Indian ground-cuckoo, Centropus rufipennis.

crow-poison (kró'poi*zn), n. 1. Same as fly-poison, 2.—2. A related plant, Tracyanthus angustifolius, found in low grounds from North Carolina to Florida.

crow-purse (krô'pėrs), n. A popular name of the egg-case of the skate, a black or dark-brown oblong case having a long process at each corner and a texture like that of leather.

crow's-foot, n. 5. pl. The angular lines or arrow-points (made thus: $\langle \rangle$) which are placed at the extremities of dimension-lines on a drawing to indicate between what points or planes the dimension is given.

crow's-nest, n. 2. See *Cycadeoidea.

crowstone, n. 3. A name once commonly applied in Worcestershire, England, to fossil oyster-shells of the genus Gryphæa from the Jurassic rocks.

crow-twill (krō'twil), n. A four-harness twillweave, regular or irregular. See *cassimeretwill.

croydon (kroi'don), n. [From Croydon in Surrey.] A kind of two-wheeled carriage of the gig class, introduced about 1850, originally of wickerwork but afterward made of wood. N, E, D.

crozer (krō'zer), n. [croze + -er1.] In barrel-making, a machine for cutting the croze in barrel-staves or in the assembled package of staves forming a barrel; a crozing-machine.

crozier, n. 4. In bot., the circinate young frond of a fern. Also crozier-head, crozier-bud. Sir C. Lyell, Elem. of Geol., p. 230. [Rare.]—5. The flat, spirally coiled shell of the cephalopodous mollusk Spirula.

crozier-bud (krō'zher-bud), n. Same as *cro-

crozier-head (krô'zher-hed), n. Same as *cro-

crozing-machine (krō'zing-ma-shēn"), n. See *crozer.

C. R. P. An Patent Rolls. An abbreviation of Calendar of the

cruciade (krö-si-ād'), n. [F. cruciade, < It. crociata, ML. cruciata: see crusade¹.] 1. A crusade.—2. A papal bull enjoining and authorizing a crusado, or granting indulgences to those who undertake a crusade.

Crucial bandage. Same as T-bandage.

crucian² (krö'shian), a. [L. Crux (Cruci-), a constellation, 'the Cross,' + -an.] Noting those stars which have a spectrum of the type of that of β Crucis, of which the most extraordinary character is the presence of many oxygen lines. Hydrogen, both series of helium lines, nitrogen, and carbon are predominant. Protomagnesium, protocalcium, both series of silicon lines, and a line due to an unknown body, A-640-2, are present. The protometallic lines are relatively thick, the bydrogen lines relatively thin.

lines are relatively thick, the bydrogen lines relatively thin.

Crucible, n., 1. The crucibles used in steel-making will carry 200 pounds, and are made of plumbago and fireclay. The crucible process for making steel is specially adapted for high-grade products with a high percentage of carbon, and for uses in which desirable properties are conferred by alloying the iron with other metallic elements such as chromium, tung sten, manganese, titanium, and the like.— Caldwell's crucible, a porcelain crucible with a fixed or mevable perforated bottom. A layer of fine asbestos spread over the bottom inside the crucible serves to collect any precipitate in a liquid fittered through it, usually by suction. The precipitate so collected is dried or ignited, and weighed with the crucible.— Reduction crucible, in ehem., a porcelain crucible with a perforated cover and linet-tube of the same material, by means of which a metallic exid may be heated in a stream of hydrogen gas.

-Tnbnlated crucible, a plati-num crucible with a tubulated cover, used in iron-ore analysis

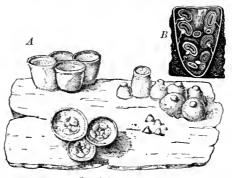
crucible-earth (kröʻsi - bl erth), n. Clay suitable for making firecrucibles.

crucible - fur nace (krö'si-bl-fer"nas), n. See *furnace. Crucibulum

(krö - sib ' û -lum), n. [NL.

a pot: see crucible.] A small genus of gasteromycetous fungi of the family Nidulariaceæ.

Tubulated Crucible.



Crucibulum vulgare.

d, group of fruiting bodies in the successive stages of development: B, longitudinal section through a nearly mature but still closed fruiting body. (From Engler and Prantl's "Pflanzenfamillen.")

The peridium is yellowish and cup-shaped, and has the top at first covered with a membrane which ruptures at maturity and exposes the seed-like sporningfoles which are attached to the peridium by thread-like processes called funiculi. C. vulgare is a common and widely distributed species, occurring on decaying wood, old rope, and matting.

crucificial (krö-si-fish'al), a. [Improp. formed from crucifix, with termination conformed to sacrificial, etc.] Of or pertaining to a crucifix.

He [the archbishop] stopped and blessed the people, making crucificial signs on the stairs.

Thackeray, Letters, Feb., 1849, p. 42.

Crucifixion attitude. See *attitude. cruciformly (krö'si-fôrm-li), adv. In the form of a cross.

Crude, a.—Crude oil, natural mineral oil, "neither steamed nor treated, free from water, sediment, or any other adulteration, of the gravity of 43" to 48" B." New York Oil Exchange, Rule Iv., quoted in Dialect Notes,

cruentation (krö-en-ta'shon), n. tatio(n-), \(\cruentare, \text{ stain with blood, \(\cruentus, \text{ bloody.} \)] Passive ozzing of blood-tinged fluid from the cut surface of raw flesh. Syd. Soc. Lex.

cruise^I, v i. 2. To survey and estimate the amount and value of standing timber.

cruiser, n. 2. In forestry, one who cruises or surveys and estimates the amount and value of standing timber.—Armored cruiser, a type of warship intermediate between a buttle-ship and a protected cruiser. The distinction between an armored and a protected cruiser is that the water-line of the latter has no external armor-protection, though both have protective decks. The distinction between an armored cruiser and a battle-ship is that the former has higher speed, lighter gms, and thinner armor, though the two types tend to merge. See *battle-ship.—Auxillary cruiser, a merchant steamer converted into a cruiser by arming it with gms and putting it into commission as a war-vessel.—Belted cruiser, a type of war-ship intormediate between a battle-ship and a cruiser, having comparatively high speed and protected by a partial armor-belt of moderate thickness. The Spanish ships in the battle of Santingo (1898) were of this type. The belted cruiser may be considered the forerunner of the armored *cruiser (which see).—Protected cruiser, a cruiser having a protective (deck, but no vertical side armor except local protection for the guns.—Scout cruiser, a recent type of cruiser in which battery and protection have been sacrificed to a large extent in order to secure extreme speed combined with good sen-going qualities. These vessels are from 2,000 to 4,000 tons displacement and from 24 to 26 knots speed, and in some cases have steam-turbine propelling machinery.—Torpedo cruiser a small cruiser having a cruiser which has no armor or protective deck. These vessels are usually of small size and are practically obsolete. cruiser, n. 2. In forestry, one who cruises or surveys and estimates the amount and value of

crum, n. and r. A simplified spelling of crumb! crummy, a. 3. Plump; buxom: as, a crummy lass. [Eng. slang.]

Crumpsall yellow. See \star_{yellow} .

crupper, n. 3. Naut., the train-tackle bolt in a gun-carriage.—Crupper bott. Same as ★crupper, 3.—Crupper chain (naut), an old-tashioned device for securing the heel of the jib-boom to the bowsprit; it consists of a length of small chain passing around the two spars.—Crupper loop, a metal loop attached to a saddle-tree or pad-frame for securing the crupper.—Crupper notch (naut), the score in the heel of the jib-boom for receiving the crupper chain.

crural, a. 5. Of or pertaining to the crura.

crurat, a. 5. Of or pertaining to the crura. See **reuration. cruralium (krō-rā'li-um), n.; pl. cruralia (-ā). [NL., < L. cruralis: see crural.] In the Brachiopoda, the calcareous supports for the coiled internal arms when formed, by the union of the crural crurality. the crura (see *crus), into a single apparatus: contrasted with *spiralium, which is applied to

lum), n. [NL. (L. R. and Ch. Tulasne, 1844), (ML. crucibulum, crurin (krö'rin), n. [L. crus (crur-), leg, + a pot: see crucible.] A small genus of gasteromycetous fungi of the family Nidulariaceæ. of ulcers

cruriped (krö'ri-ped), n. [L. crus (crur-), leg, + pes (ped-), foot.] One of the ambulatory appendages following the chelipeds or great claws on the cephalothorax, especially of crabs and lobsters. J. E. Ives.

and lobsters. J. E. Ives.

crus, n. 2. pl. The calcareous brachial supports in the Brachiopoda, as in Pentamerus and Rhynnin the Brachiopoda, as in Pentamerus and Rhynnin of short discrete, chonella, where they are a pair of short discrete, slightly curved lamellæ. Also called crural plates.—Auricular crura, in certain pelecypod mol-lusks, a hinge-structure consisting of two ridges which diverge within and below the heaks. This structure, in specialized forms, develops into concentric teeth and sockets which cannot be separated without breaking, as

crush, n. 3. In Australia, a funnel-shaped, fenced lane or passageway for cattle.—4. In coal-mining: (a) A general settlement of the strata above a coal-mine, due to failure of the pillars: generally accompanied by numerous local falls of roof-rocks in the workings. (b) A species of fault in coal.—5. The amount of cotton-seed crushed for oil during a given season: as, a large crush.

crush-breccia (krush'brech"i-ä), n. A breccia produced by the shattering of rocks along a fault. See *fault-breceia.

crush-conglomerate (krush'kon-glom #e-rat), See *conglomerate.

n. See *conglomerate.

crusher, n. 3. Specifically, a crushing-machine. The most common type has two converging jaws operated by powerful mechanism, between which the mineral is crushed by pressure. To this type belong the Blake and Dodge crushers. (See Blake *crusher.) Another more recent type has a gyrating swinging cone in a hopper-shaped receptacle, as in the Gates and McCully breakers. Crushers are used to prepare stone for road-ballast, for concrete, and for other engineering purposes, and in mining to prepare the ore for finer crushing by rolls, stamps, etc.

A mill for grinding sugar-beets, potatoes, and other roots to reduce them to a pulp for use in the manufacture of sugar or starch.—
5. In elect., a device for reducing the apparent fall of potential in the ground return-circuit of an electric system. The function of a crusher in such a circuit is similar to that of a booster in a system with insulated return-circuit. Both terms are of slang origin, but have acquired recognition on account of the great practical importance of the devices thus designated.—Blake crusher, a machine for crushing ore or other hard material in coarse lumps. It is provided with two jaws, one stationary and one swinging. The machine noves at the rate of about 250 revolutions a minute, the swinging jaw advancing about half an inch toward the stationary jaw at each revolution. The size of the fragments is limited by the distance between the jaws at the bottom, which can be regulated at will. The capacity of a machine whose dimensions at the menth are 20 inches by 10 inches is about 300 tons of ordinary rock per day of 24 hours. See stone-breaker, with cut. fall of potential in the ground return-circuit of

hours. See stone-breaker, with cut.

Crushing strain, the strain which causes a piece of material to fail, or tend to fail, by compression. Most brittle materials, such as cement, stone, and cast-iron, fail by shearing at an angle, while the more ductile materials, such as wrought-iron and soft brass, fail by bulging.—Crushing strength, the strength of a substance measured in terms of the load necessary to crush a test-piece of it one cubic centimeter (or one enbic inch) in size.

crushing-rolls (krush'ing-rolz), n. pl. chine consisting of two heavy rolls between which ore, coal, or other mineral is drawn and erushed. Sometimes the rolls are toothed or ribbed, but for ore their surface is generally

crush-line (krush'lin), n. In geol., a line along which rocks, under great compression, yield. usually with the production of schistosity.

such, too, has been the compression that in some cases tykes of 50 or 60 yards in breadth are reduced where one of these thrusts or crash-lines crosses them obliquely to a thickness of no more than four feet.

Geikte, Text-book of Geol., p. 888

geol., compression, thrust, or lateral movement tending to develop shattered zones.

The greater part, if not actually of Bala age, seem to ave been intruded before the post-Bala crush-move-nents. Nature, June 16, 1904, p. 166.

crush-plane (krush'plan), n. In geot, a plane defining zones of shattering which result from lateral thrust.

The previous investigators of Fassa Valley failed to recognise the presence of the innumerable crush-planes with extremely low hade, and the branch-connection of many of them with leading cross-faults, and consequently overlooked the correlation of the igneous invasions with pre-existent deformational structures.

Annals and Mag. Nat. Hist., Jan., 1904, p. 79.

crush-zone (krush'zōn), n. In geol., a zone of faulting and brecciation in rocks.

Throughout the Tertiary crust-movements in the Alps, this passage-zone had been the great crush-zone of the district.

Nature, Feb. 12, 1903, p. 359.

crust, n.—Flotation crust, the thin solid crust of the earth that has been thought to rest upon a liquid mass beneath. Earlier theorists were accustomed to explain changes of level and many other adjustments by this floating of the crust. Dana, Mannal of Geol., p. 378.

—In crust, in curraing, said of a skin which has been tanned and colored but not glazed or entirely finished. Flemming. Practical Tanning, p. 312.—Weathered crust, a film or zone on the outside of a stone which shows marked alteration or decay. Such a crust is not always more fragile than the unchanged interior, and may form a bard shell or successive shells.

They show no weathered crusts, and the matrix of finer-

They show no weathered crusts, and the matrix of finer-grained materials is similarly unaltered.

J. Geikie, The Great Ice Age, p. 23.

crustaceal (krus-tā'shial), a. Same as crusta-

crustaceoid (krus-tā'sē-oid), a. [crustaceous+ oid.] Resembling a crustacean. Dana. crust-creep (krust krep), n. See *creep.

erust-fold (krust'fold), n. In geol., a fold in the earth's crust.

'The great Rocky Mountain-Andes fold, . . . the longest and most continuous crust-fold of the present day.'

Geog Jour. (R. G. S.), XV. 48.

crust-fracture (krust'frak"tūr), n. An extended fracture in the earth's crust.

It may probably be regarded as true of any wide region upheaved by a folding-movement and afterwards submerged, that old crust-forms and crust-fractures, especially such as allow occasional intrusion and outlet of volcanic material, are determining factors in the distribution of the subsequent density. of the subsequent deposits. Geog. Jour. (R. G. S.), XVL 460,

crustification (krus "ti-fi-kā'shon), n. The forming of a crust or coating or band, by chemical precipitation, in a eavity from mineral-bearing waters.

As a general rule, however, crustification is a characteristic feature of cavity-filling.

F. Posepny, Trans. Amer. Inst. Min. Engin., 1893, p. 207.

crust-movement (krust'möv"ment), n. An extensive movement of the earth's crust.

There are two primary and permanent kinds of crust-movements, namely, (a) those which give rise to those greatest inequalities of the Earth's surface—oceanic basins and continental surfaces; and (b) those which by interior contraction determine mountains of Iolded structure.

Geog. Jour. (R. G. S.), 1X, 669.

crust-strain (krust'stran), n. A strain in the earth's crust. Geog. Jour. (R. G. S.), XVI. 457. crust-stress (krust'stres), n. Loeal strains and pressure within the rocks of the earth's crust.

During the geological periods when the fault-vent continued intermittently active, the form of the sill-complex was capable of being re-moulded periodically in harmony with the localised crust-stresses.

Nature, Sept. 3, 1903, p. 413.

stress in the earth's crust.

Crust-torsion has already been recognized as a mode of crust-deformation associated with the superposition of different movements upon one another, either simultaneously or successively. . . . In 1898, I demonstrated, by the field geology of Enneberg, that phenomena of crust-torsion were induced by any combination of crust-pressures, not only by cross-movements crossing rectangularly, but also by cross-movements at any oblique angle.

M. M. O. Gordon, in Geog. Jour. (R. G. S.), XVI. 457.

crutch¹, n. 3. (h) The augle at the meeting of the flukes forming the tail of a whale; the fluke-noteh. (i) In leather-manuf., a contrivance which fits under the arm like a crutch ! used in hand-staking.—Crutch paralysis. See *paralysis.

crutch¹, v. t. 3. In leather-manuf., to work with a crutch. Flomming, Practical Tanning,

crutcher (kruch'er), n. In soap-making, a vessel in which the ingredients of soap are and thoroughly stirred together: so called from the wooden paddle sometimes used to mix soap. See crutch, 3 (e).

crutch-hole (kruch' hōl), n. Naut., a hole designed to receive the stanchion on which a

crush-movement (krush'möv'ment), n. In boom or other spar rests, to prevent it from geol., compression, thrust, or lateral move-slipping; also, a hole on the quarter-rail of a boat for the use of a steering-oar.

cruzada (krö-thā'dā), n. [Sp.: see crusado².] A gold coin of Castile of the time of Pedro I. (1350-68): it weighed $92\frac{8}{50}$ grains.

(1500-05): It weighed \$250 grains.

CTY, n.—Epileptic cry, a loud cry which sometimes precedes the respiratory spasm in an epileptic attack.—
Hydrocephalic cry, a sudden shriek or loud scream uttered by a child suffering from meningitis.—Night cry, a sudden shrill scream uttered by a child in its sleep: often a sign of beginning joint-disease.

CTYæsthesia (krī-es-thē'si ä), n. [NL., \ Gr.

κρίος, cold, + αισθησις, perception.] Sensitiveness to cold.

cryalgesia (krī-al-jē'si-ä), n. [NL., \langle Gr. κρίος, eold, + ἀλγησις, sense of pain.] Pain caused by cold.

cry-baby (kri'bā"bi), n. One who, like a baby, is prone to tears. [A derisive term among ehildren. l

crymophyte (krī'mō-fīt), n. [Gr. κρυμός, icy cold, $+\varphi v \tau \acute{o} v$, plant.] In phytogeog., a plant adapted to life under low temperatures.

crymotherapeutics ($kri^{\#}m\bar{o}$ -ther-a-pū'tiks), n. [Gr. κρυμός, icy cold, + θεραπευτικός, of medical treatment.] The employment of cold in the treatment of disease.

crymotherapy (kri-mō-ther'a-pi), n. [Gr. κρυμός, icy eold, + θεραπεία, medical treatment.] Same as *crymotherapeutics.

Cryogen blue. See *blue.

cryogenic (krī-ō-jen'ik), a. [Gr. κρίος, eold, -γενής, -producing.] Producing cold; especially, noting an apparatus or a laboratory for experimenting at the extreme low temperatures which may be produced by the evaporation of liquefied ethylene, air, oxygen, or hydrogen.

The physical laboratory of the University of Leipzig, the *cryogenic* laboratory, and the Astronomical observatory of Leiden. Rep. Carnegie Inst., 1903, p. 186.

eryohydrate (krī-ō-hī'drāt), n. [Gr. $\kappa\rho\nu\rho_0$, cold, $+ \nu\delta\omega\rho$ ($\nu\delta\rho$ -), water, $+ -atc^1$.] A definite mixture of iee and any crystallized salt obcryohydrate (krī-ō-hī'drāt), n. tained by freezing a saturated aqueous solution of the salt.

Cryohydrates were supposed by Guthrie, to whom the cryonyurates were supposed by Guinrie, to whom the name is due, to be chemical compounds, but they are now regarded as mixtures the constancy of proportion of which is due to the uniform conditions of temperature, etc., under which they are produced. . . . A cryohydrate is the lowest freezing-mixture of two substances.

H. C. Jones, Physical Chem., p. 222.

cryohydric (krī-ō-hī'drik), a [cryohydr-ate + Producing, produced by, or connected -ie.] Producing, prowith a cryohydrate.

If the solution saturated with two lodides be cooled to the freezing-point, ice will separate. Five phases are then present, ice, the two iodides, solution and vapor, and the system becomes non-variant. Such a system can exist only at its cryohydric temperature, and the composition of the solution is fixed. Amer. Chem. Jour., March, 1903, p. 205.

Cryohydric temperature, the temperature at which a cryohydrate is produced.

cryolithionite (krī-ō-lith'i-ō-nīt), n. [Gr. κρύος, cold, + NL. lithium + -n- + -ite².] A fluoride of aluminium, sodium, and lithium (Li₃Na₃Al₂F₁₂) occurring in colorless dodecahedrons at the eryolite locality in Greenland.

cryometer (kri-om'e-tèr), n. [Gr. κρύος, eold, + μέτρον, measure.] A thermometer for the measurement of low temperatures (usually below the freezing-point of mercury) and therefore containing alcohol or a similar liquid of

Nature, Sept. 3, 1903, p. 413. low freezing-point.

crust-torsion (krust'tôr"shon), n. A twisting stress in the earth's crust.

Of or pertaining to the cryophorus, or to any instrument or method for freezing a liquid by

its own evaporation.

cryoplankton (kri-ō-plangk'ton), n. [NL., < Gr. κρίος, cold, ice, + NL. plankton.] The 'plankton,' particularly the algie flora, which is found in the snow and ice of polar and alpine regions.

cryoscopic (kri-ō-skop'ik), a. [cryoscop-y + -ic.] Of or pertaining to the phenomena of freezing, specifically to those methods of determining molecular weights, degrees of dissoeiation, and other properties of substances which depend upon measurements of the freezing-point.

Raoult indicated the possibility of employing the low-ering of the vapor-pressure of a solution in determining the molecular weight of a dissolved substance. In his opinion, however, the experimental difficulties were such as to give preference to the cryoscopic and ebullioscopic methods.

Amer. Chem. Jour., April, 1903, p. 342.

cryoscopy (krī-os'kō-pi), n. [Gr. κρίος, eold, + -σκοπία, < σκόπεῖν, view.] That department of physical chemistry which treats of the freez-

ing or solidification of liquids and solutions; specifically, the determination of molecular weights of dissolved substances by the lowering of the freezing-point of their solutions in suitable solvents.

Taking into account all the difficulties and disturbing factors in experiments of this kind, the authors conclude that their results tend to increase confidence in the methods of exact cryoscopy.

Nature, Jan. 15, 1903, p. 263.

crvostase (krī'ō-stās), n. [Gr. κρίος, eold, + στάσις, standing.] A mixture of equal parts of phenol, saponin, and eamphor, with a little turpentine. It is liquid when cold, but solidifies on warming.

Cryphæus (kri-fē'ns), n. [NL., ζ Gr. κρυφαίος, eoneealed, ζ κρύπτειν, conceal.] A genns of Devonian trilobites, of the family Phacopidæ, having broad and long genal spines and a fringe of flat spines on the pygidium.

crypsis, n. 2. A term used in the discussions of the seventeenth century to designate Christ's possession of divine omnipotenee and divine omniseience, with conscious restraint in the use of them.

crypt, n.—Morgagni's erypts, minute depressions in the bulbous portion of the urethra; also, pits in the rectal mucous membrane.

Cryptaulax (krip-tâ'laks), n. [Gr. κρυπτός, coneealed, $+av\lambda a\xi$, a furrow, groove.] A genus of platypodous mollusks, of the family Cerithiidæ. They have turreted shells with spiral ribs on the whorls and a scarcely perceptible canal in the aperture. The genus occurs in Triassic and Jurassic rocks.

cryptic, a. 2. In biol., serving to conceal or fitted for concealing an organism.

The most perfect Cryptic powers are possessed by those animals in which the individuals can change their colours into any tint which would be appropriate to a normal environment.

Encyc. Brit., XXVII. 147.

cryptitis (krip-tī'tis), n. [NL., < crypta, crypt, + -itis.] Same as folliculitis.
Crypto-Calvinism (krip-tō-kal'vin-izm), n. 1.
Congolad Calvinism (krip-tō-kal'vin-izm), n. 1.

Conecaled Calvinism: an opprobrious term used, during the controversy concerning the doetrine of the Lord's Supper (1552-74), to designate the teaching of Melanchthon, who favored the Calvinistic view of the spiritual presence of Christ, as opposed to the Lutheran view.—2. Applied, in 1881, to the doctrine of unconditional election (semi-Calvinistic) held by Missouri Lutherans.

Crypto-Catholic (krip-to-kath'o-lik), a. and n. a. Of or pertaining to Crypto-Catholicism.
 n. One initiated into a supposed system

of hidden or esoteric (Roman) Catholicism. Crypto-Catholicism(krip"tō-ka-thol'i-sizm),n.
A supposed system of hidden or esoteric (Roman) Catholicism known only to the ini-

tiated. Cryptocephala (krip-tō-sef'a-lā), n. pl. [NL., < Gr. κρυπτός, hidden, + κεφαλή, head.] A group of Annelida, of the order Polychæta. They have the prestomium more or less hidden by the periatomium, which grows forward; the teutacles reduced, but the palps greatly developed and subdivided, forming the crown of gills; the body distinguishable into the thorax and abdomen, characterized by the form and arrangement of the setæ and by certain internal differences. The group includes the Sabellidæ, Eriographidæ, Amphicorinidæ, Serputidæ, and Hermellidæ. Contrasted with Phanerocephala. tiated.

cryptocerate (krip-tos'e-rāt), a. and n. I. a. Pertaining to or resembling the Cryptocerata. II. n. A member of the Cryptocerata.

cryptochelate (krip-tō-kē'lāt), a. [Gr. κρυπτός, hidden, $+ \chi \eta \lambda \dot{\eta}$, claw (see *chela*), + -atel.] Having the chelæ hidden or so minute as to escape notice without close observation, as certain erustaceans.

cryptochroism (krip-tok'rō-izm), n. [Gr. κρυπτός, hidden, + χροα, color, + -ism.] A difference in properties of X-rays and other obscure rays, due to difference in wave-length and analogous to the color-difference in lightrays.

cryptoclastic (krip-tō-klas'tik), a. [Gr. κρυπτός, hidden, + κλαστός, broken.] In petrog., composed of fragments too small to be seen by the unaided eve.

cryptoclite (krip'tō-klīt), n. [Gr. κρυπτός, hidden, + *κλιτός, verbal adj. of κλίνειν, incline.] In gram., a noun whose originally normal inflections have been disguised by phonetic changes, as by hidden umlaut, quasigemination of semi-vowels, contraction, etc., so that the resulting forms are irregular. An example is, in Anglo-Saxon, nominative man, dative men, plural men, whence English man, plural men. March, Anglo-Saxon Gram., p. 52.

Cryptocrinus (krip-tok'ri-nus), n. [NL., < Gr. κρυπτός, hidden, + κρίνον, a lily (see crinoid).] A genus of Silurian cystideaus in which the calyx is composed of three rings of perforate plates, the mouth is central, the arms are eccentric, and the stem is short.

cryptocyst (krip 'tō-sist), n. [Gr. $\kappa\rho\nu\pi\tau\phi$, hidden, $+\kappa\epsilon\rho\tau\epsilon$, bladder, bag.] In certain polyzeans, a portion of the body cavity separated from the remainder by a calcareous The plant is so named because the seeds are lamina. [Not used.]

In the Microporidae and Steganoporellidae, and perhaps in many of the Lepralloid Cheilostomata, the bodycavity is partially subdivided by a calcareous lamina ("cryptocyst," Jullien) which grows from the proximal side.

Encyc. Brit., XXXI. 829.

Cryptocystes (krip-tō-sis 'tēz), n. pl. [NL., pl. of cryptocystis, < Gr. κρυπτός, hidden, + κύστις, bladder.] A group of Myxosporidia having minute pear-shaped spores, with one polar capsule and more than two spores formed in the capsule and more than two spores formed in the capsule and more than two spores formed in the capsule and more than two spores formed in the capsule and more than two spores formed in the capsule and each pansporoblast. They are cell-parasites.
Also Microsporidia.

Cryptodira (krip-tō-di'rii), n. pl. [Gr. κρυπτός, hidden, + δειρή, neck.] A division or suborder of Chelonia containing these species in which the neck can be bent in a vertical plane and is usually capable of being withdrawn within the body: centrasted with *Pleurodira*. cryptodiran (krip-tō-dī'ran), a. and n. I. a. Relating to or characteristic of the Cryptodira.

II. n. A member of the Cryptodira.

cryptodire (krip'tō-dīr), n. One of the Cryptodira.

crypto-donble (krip 'tō-dub "1), n. A double star of which the components are too close to be resolved by the telescope, but the duplicity of which is indicated by the fact that its spectrum is composed of two spectra of different classes overlying each other. Alpha Equulei is a typical case. This star and several others have been shown to be spectroscopic binaries.

Indeed, several of Miss Maury's crypto-doubles, a Leonis, Andromedæ, and a Equulel among the number, have been spectroscopically resolved by Professor Campbell Into unlike pairs.

A. M. Clerke, Problems in Astrophysics, p. 206.

Cryptodrilidæ (krip-tō-dril'i-dō), n. pl. [NL., ('ryptodrilus' (see def.) + -idw.] A family of terricolous Annelida, ef the order Oligochieta. They have 8 setse on each segment, clitellum occupying some or all of segments 12 to 28, usually complete anteriorly, spermathecæ 1 to 5 pairs placed anteriorly, male pores on segments 17 or 18, nephridia paired or diffuse. Members of this family occur in nearly all parts of the world, but are mainly tropleal and especially Australian. It includes Microscolex, Pontodrilus, Cruptodrilus, Microdrilus, and other genera.

Gryptogamic botany. See *botany.
cryptogenetic (krip "tō-jē-net'ik), a. [Gr. κρνπτός, hidden, + γένεσις, origin: see genetic.]
Having ro evident cause; of unknown origin; specifically, noting a disease of unknown origin. Buck, Med. Handbook, IV. 585.
cryptogenic (krip-tō-jen'ik), a. [Gr. κρνπτός, hidden, + -γενής, -producing.] Same as *cryptogenetic.

togenetic.

cryptogenous (krip-toj'e-nus), a. Same as *cryptogenetic.
cryptogramic (krip-toj-gram'ik), a. Pertaining

to or of the nature of a cryptogram.

Cryptogramma (krip - tō - gram ' ä), n. [NL. (Robert Brown, 1823), ⟨Gr. κρυπτος, hidden, + γραμμή, a line.] A small genus of boreal polypodiaceous ferns, the rock-brakes, distinguishment. guished from Pettæa mainly by their dimorphic fronds. Two species, C. Stelleri and C. acrostichoides, occur in the northern United States and Canada. The latter and a closely allied European species, C. crispa, are known as parsley-fern.

cryptogrammatic (krip"tō-gra-mat'ik), a. Of, pertaining to, or of the nature of a cryptogram. cryptogrammatical (krip"tō-gra-mat'i-kal), a.

Same as *cryptogrammatic. cryptogrammatist (krip-tō-gram'a-tist). n. One who is skilled in cryptograms and their decipherment.

cryptographic, a. 3. In petrog., noting a fabric formed by the graphic intergrowth of two minerals, but so minute as not to be seen by the unaided eye.

cryptographist (krip-tog'ra-fist), n. One who is skilled in cryptography. cryptoheresy (krip-tō-her'e-si), n. Concealed heresy; hidden heresy. S.—21

cryptococcus (krip-tō-kok'us), n. [NL., < Gr. **cryptoheretic** (krip-tō-her'e-tik), n. A secret κρυπτός, hidden, + κόκκος, berry (eoccus).] heretic: one who secretly holds heretical views. Same as Saccharomyees.—**cryptococcus** xanthogenicus, a microbe believed by Freire of Brazil to be the cause of yellow fever.

Crypto-Jesuit (krip-tō-jez'ū-it), n. A secret Jesuit; one who has, or is supposed to have, secret affiliation with the Society of Jesus. Crypto-Jesuit (krip-tō-jez ū-it), n. A secret heretic; one who secretly holds heretical views. Crypto-Jesuit (krip-tō-jez ū-it), n. A secret Jesuit; one who has, or is supposed to have, secret affiliation with the Society of Jesus. Crypto-Jesuitism (krip-tō-jez 'ū-it-izm), n. Disquised Jesuitism

Disguised Jesuitism.

Cryptol, n. See *kryptol.

cryptolin (krip'tō-liu), n. An organic liquid sometimes found in cavities of topaz, chrysoberyl, or quartz. It hardens

well covered by the scales.] A genus of coniferons plants of the family Pinaecæ and tribe Taxoi-



Cryptomeria Japonica.

a, a branch with both male (left) and female (right) flowers; b, male spike; c and d, stamens showing anthers; e, a scale seen from the back; A a scale seen from the side; g, a seed. (Drawn from Eggler and Praul's "Pfanzentamillen.")

deæ, technically distinguished from Taxodium by the manifest toothed inner scales of the cones. There is only one species, C. Japonica, the Japan cedar, or sugi, a native of Japan and northern China. See sugi and Japan **xeedar*, cryptomerous (krip -tom 'e-rus), a. [Gr. κρυπτός, hidden, + μέρος, a part.] In petrog., exceedingly fine-grained; deuse; aphanitie; ap-lied the tentre of the control of the control

plied to the texture of rocks.

cryptomnesia (krip-tom-nē'si-ā), n. [NL., psychol., subconscious memory; memory exercised by the subliminal self.

Cryptomonadina, n. 3. A family of Proto-zoa, of the order Flagellata, having either a colored or a colorless body, usually compressed laterally, without true cuticle, with two long anterior flagella, and the anterior end ebliquely truncated. It includes *Chilomonas*, Cyathomonas, Cryptomonas, and Oxyrrhis.

cryptonema (krip-tō-nō'mā), n.; pl. cryptonemata (-ma-tā). [NL., \langle Gr. κρυπτός, hidden, + νῆμα, thread.] In bot.. one of the hairs or threads formed in a cryptostoma. See cryptostama.

Cryptoniscidæ (krip-tō-nis'i-dē), n. pl. [NL., < Cryptoniscus + -idæ.] A family of isoped crustaceans parasitic on cirripeds, typified by the genns Cryptoniscus.

the genns Cryptoniseus.
Cryptoniseus (krip - tō - nis ' kus), n. [NL., < Gr. κρυπτός, hidden, + ὁνίσκας, a wood-louse: see Oniseus.] The typical genus of the family Cryptoniseidæ. C. planarioidæsis a parasite on Peltogaster purpareus, which in turn is parasitie on a pagurid crustacean. F. Müller, 1864.
cryptonymous (krip-ton'i-mus), a. [As cryptonym + -ous.] Ilaving the real name concessed: pseudonymous: as n. cryptonymous cealed; pseudenymous: as, a cryptonymous

Cryptoparamera (krip "tō-pa-ram'e-rā), n, pl. [NL., ζGr. κρυπτός, hidden, + NL. Paramera.] One of two grades (the other being Paramera) of zoantharian Anthozoa, in which the primary bilateral symmetry is obscured by the radial development of the second and succeeding series of mesenteries. It includes the order Actiniidea.

cryptoperthite (krip-to-per'thit), u. [Gr. κρυπτό, hidden, + E. perthite.] A name given to certain feldspars whose composition and optical characters make it probable that they

have the structure of perthite, although the supposed interlamination of albite and orthoclase is too fine to be discernible even with the microscope.

cryptophagid (krip-tof'a-jid), n. and a. I.
n. A member of the Cryptophagidæ.
II. a. Pertaining to or resembling the coleopterous family Cryptophagidæ.

[cryptol + $-in^2$.] cryptophanic (krip-tō-fan'ik), a. [Gr. κρυπτός, es found in cavities hidden, + $-\phi a \nu \eta c$, $\langle \phi a \dot{\nu} e \sigma \theta a \dot{\nu}$, appear.] Appearing only obscurely; searcely appearing: noting an amorphous acid, $C_{10}H_{18}O_{10}N_2$, which in small amounts is said to occur in human urine.

eryptophthalmia (krip-tof-thal'mi-ä), n. [NL., Gr. $\kappa\rho\nu\pi\tau\delta\varsigma$, hidden, $+\delta\rho\theta\alpha\lambda\mu\delta\varsigma$, eye.] Congenital closure of the eye through union of the eyelids, the eyeball itself being usually also improve the formula. perfectly formed.

cryptophyte (krip' tō-fīt), n. [Gr. κρυπτός, hidden, + φυτόν, plant.] Same as cryptogam.

Cryptoplacidæ (krip -tō -plas ' i - dō), n. pl. [NL., ζ Cryptoplax, a genus (ζ Gr. κρυπτός, hidden, + πλάξ (πλακ-), anything flat), + -idæ.] A family of polyplacophorous Mollusca or chitons with small valves.

cryptoscope (krip' tō-skōp), n. [Gr. κρυπτός, hidden, + σκοπείν, view.] A fluorescent screen, with a head, for the observation of bodies under the action of X-rays; a *fluoroscope (which see, with cut).

cryptoscopic (krip-tő-skep'ik), a. Of or pertaining to the use of the fluorescent screen or cryptescope.

cryptoscopy (krip-tos'kō-pi), n. [Gr. κρυπτός, hidden, + -σκοπία, < σκοπείν, view.] The art or process of examining, by means of a fluorescent screen, bodies which are subjected to the X-rays.

cryptostemmid (krip-tō-stem'id), n. and a. I. n. A member of the Cryptostemmidæ.

II. a. Of or belonging to the family Cryptostemmidæ.

Cryptostomata (krip-tō-stō'ma-tā). n. pl. [Gr. κρυπτός, hidden, + στόμα(τ-), mouth.] A suborder of the Bryozoa, characterized by having the apertures of the zoœcia concealed, lying at the bettom of a tubular vestibule which may be divided by diaphragms and is surrounded by vericular or cold-litization. More surrounded by vesicular or solid tissue. Marsupia and avicularia are absent. The group is essentially of Paleozoic age.

cryptostomatous (krip- $t\bar{\phi}$ -stem' a-tus), a. [Gr. $\kappa\rho\nu\pi\tau\delta\varsigma$, hidden. + $\sigma\tau\delta\mu a(\tau$ -), mouth.] Having the month-opening concealed.

Gr. κρυπτός, hidden. + μνήσις, memory.] In cryptozoic (krip-tō-zō'ik), a. [Gr. κρυπτός, sychol., subconscious memory; memory exerised by the subliminal self. ually seek concealment and pass the greater part of their lives beneath logs, stones, etc.

> Among terrestrial animals those which habitually live annog terrestrial annuals those which inautually live on the open ground must he distinguished from . . . cryptozoic forms which live under stones, logs of wood, etc., such as Land Planarians, Peripatus, Centipedes, and Woodlice.
>
> Parker and Haswell, Zoology, II. 601.

2. Having the organic evidences concealed: in petrog., applied to limestones whose organic origin cannot be recognized by the unaided eye, as lithographic limestone. Renevier, 1882. Cryptozonia (krip-tō-zō'ni-ā), n. pl. [NL., ζ Gr. κρνπτός, hidden, + ζώνη, girdle.] An order of extinct starfishes with the marginal plates inconspicnous, the entire surface papillate, and the ambulacral plates crowded and narrow.

cryptozygous, a. 2. In craniom., having a stephanozygomatic index of more than 100. crys. An abbreviation (a) of crystal; (b) of

crystallography.

crystallography.

crystall, n. 6. An English trade-name for a tine quality of white sugar.—Asthma crystals. Same as Charcot's crystals.—Boettcher's crystals, crystals found in the prostatic secretion; possibly the same as Charcot's crystals,—Charcot-Leyden crystals, Same as Charcot's crystals,—Charcot-Leyden crystals, Same as Charcot's crystals,—Charcot-leyden crystals, Same as Charcot's crystals, in petrog, crystals that have been partly resorbed or dissolved by the molten magna before its final solidification.—Demerara crystals, a commercial name of a kind of sugar, originally and chiefly brought from Demerara, obtained by direct boiling down of cane-juice, preferably in vacuum-pans, and careful washing of it in centrifugals.—Dumb-bell crystals, crystals of calcium oxalate sometimes found in the urine.—Equatorial crystals of sodium urate having numerous sharp accular projections.—Hopper crystal, a crystal having the form of a hollow inverted pyramid, or one having cavernous faces of this shape. Such crystals are usually the result of rapid and imperfect crystallization, as with rock-salt formed from an evaporating hrine.—Lead-

glaciers, etc.

An abbreviation (b) of cases.

C. S. An abbreviation (e) of Civil Service; (f) of clerk of session; (g) of commissary of subsistence; (h) of current strength.

J. S. I. An abbreviation of Companion of the

Order of the Star of India.

An abbreviation of Chief Signal Officer. C. SS. R. An abbreviation of Congregation Sanctissimi Redemptoris (Congregation of the Most Holy Redeemer). See Redemptorist.

C. S. T. An abbreviation of Central Standard Time (see time).

An abbreviation (d) of centum; (e) of contrast.

C. T. An abbreviation of Certificated Teacher.
C. T. A. U. An abbreviation of Catholic Total
Abstinence Union.

pleasing form, the apparent depen, and pleasing form, the apparent depen, and cross-lights of the crystal.

Post-hypotote suggestion, crystal-gazing, automatic writing and trance-speech, the willing-game, etc., are now, thanks to him [Myers], instruments of research.

W. James, in Proc. Soc. Psychical Research, Mny, 1901, p.17.

Crystallic attraction. See *attraction.

See *attraction.

Levystal-crysta

ctenate (ten'ât), a. [Gr. κτείς (κτεν-), a comb, + -ate¹.] Comb-like; pectinate; bearing many fine teeth, as the chætæ of some worms. [Gr. κτείς (κτεν-), a comb,

ctene (tēn), n. [Gr. κτείς (κτεν-), a comb.] One of the swimming-plates in Ctenophoru. ctenid (ten'id), a. Same as ctenoid: applied

to fish scales which are rough or toothed on their posterior edges.

cteniform (ten'i-fôrm), a. [NL., & Ctenus, a genus of spiders, + L. forma, form.] Noting the spiders, of several different groups, that

have the eye-formula of the genus Ctenus.

Proc. Zool. Soc. London, 1898, p. 13.

Ctenodonta (ten-ō-don'ta), n. [NL., ⟨ Gr. κτείς (κτεν-), a comb, + ὁδούς (ὁδοντ-), a tooth.]

A genus of taxodont Pelecypoda having the hinge-teeth in a continuous arched series, an external ligament, and a simple mantle-line. It is of Silurian age.

Ctenolates (ten-ǫ-lā'tēz), n. [NL., ζ Gr. κτείς (κτεν-), a comb, + (?)-lates for -latus ζ L. latus, broad?] A genus of serranoid fishes found in the rivers of southeastern Australia.

ctenolium (ten-ô'li-um), n.; pl. etenolia (-ä). [NL., ζ Gr. κτείς (κτεν-), a comb, + term. -olium.] A comb-like arrangement on the margins of the byssal sinus in some of the Peleeypoda (pectens) in which the threads of the byssus rest.

Ctenoplana (ten-φ-plā'nä), n. [NL., ζ Gr. κτείς (κτεν-), a comb, + L. planus, plane.] Α

The state of the s wwwincom

Ctenoplana Kowalevskii, Korotneff (after Willey).

. It, tentacles; tsh, tentacle sheaths; tr, sub-transverse coste; css, sub-sagittal coste; st. "stomach" ('stomodaum); 1.2,3,4, the four principal lobes of the infundibulum; pl, sensory tentacles representing the polar fields; pg, pigment spots. (From Lankester's "Zoölogy.")

ctenophoran of much flattened shape, with eight very short ribs, and the characteristic combs which can be withdrawn into or evaginated from pouch-like cavities in the bodywall. It has a pair of solid, muscular, pinnate tentacles retractile into sheaths. It swims by means of its combs, or crawls on the bottom on its ventral surface, or attaches itself, ventral side uppermost, to the surface film of water. ctenostome (ten'ō-stōm), a. and n. I. a. Relating to or characteristic of the Ctenosto-

II. n. One of the Ctenostomuta. ctetology (te-tol'ō-ji), n. [Gr. κτητός, acquired, + -λογία, < λέγειν, say.] The science of acquired characters: a term proposed by Cope.

ctl. A contraction of cental. An abbreviation (a) of cubic; (b) of cumulus.

cuabilla (kwä-bel'yä), n. [Cuban Sp., dim. of euaba, an aboriginal name of the tree.] The torch-wood of Florida and the West Indies, Amyris elemifera and A. maritima. See torchwood

cuajilote (kwä-hē-lō'tā), n. [Mex. Sp., also-quaxilote, < Nahuatl quauhxilotl, < quauhitl, tree, + xilotl, an ear of green maize.] A tree of Mexico and Central America, Parmentiera edulis, with greenish-yellow flowers followed by fruit resembling cucumbers or pods of the okra (Abelmoschus esculentus). This is crisp and pleasant to the taste. It is eaten either raw or cooked, or is prepared in the form of pickles.

cuajiote (kwä-hō-ō'tā), n. [Mex. Sp., <Nahuatl quauhxiotl, < quauhitl, tree, + xiotl, skineruption.] 1. The Mexican stinkwood, Pseudosmodingium perniciosum, a foul-smelling, poisonous shrub or small tree of the sumac family, exuding a fetid gum which is used as an antidote for scorpions' stings. Also called cuajiote blanco, to distinguish it from the two following.—2. A name applied to several species of *Terebinthus* growing in Mexico, especially to *T. fagaroides* (*Bursera fagaroides* of Engler), called cuajiote verde, and to T. luncifolia (Burscra lancifolia of Engler), called cuajiote chino, both of which yield a gum-resin called *gum-archipin, used as an antidote for scorpions' stings, and having emetic and purgative properties. These gums are also used for mending broken porcelain and glass.

cuantecomate (kwän-tā-kō-mā'tā), n. Sp., \(\text{Aztee quatecomatl}, \text{head-calabash, } \(\) quaitl, \(\text{head,} + \text{tecomatl}, \text{calabash.} \) \(\text{American} \) name for the *cross-leaf.

cuarta (kwär'tä), n. [Said to be Amer. Sp.; if original, it is apparently connected with cuarta, a fourth part, and must be the source of quirt, which has been doubtfully referred to

Sp. cuerda, a cord.] A long rawhide whip. [Southwestern U. S.] cuartel (kwär-tel'), n. [Sp., \(\cuarta, \) fourth.] A quarter; ward of a city; soldiers' quarters. cuartillo (kwär-tel'yō), n. [Sp., \(\cuarta, \) cuarto, fourth.] A silver coin of the Spanish American States conjugate to one fourth of a real. can States, equivalent to one fourth of a real. cub. An abbreviation of cubic.

cub. An abbreviation of cubic.
Cuba bast, black. See *blast1, *black, n.
Cuban blind-fish. See *blind-fish.

cube, v. t. 2. To measure the cubic capacity of a hollow object, like that of a skull.

Among the 73 male and 42 female crania that were cubed (with shot, according to Turner's method). 'the maximum capacity in the male skulls was 1,855 c.c., the minimum was 1,230 c.c., and the mean was 1,478 c.c.'

Science, Oct. 30, 1903, p. 568.

cube, n.—Four-faced cube, a tetrahexahedron. Cubeb camphor. See *camphor. cubebene (kū'beb-ēn), n. [cubeb + -cne.] A sesquiterpene, $C_{15}H_{24}$, obtained by the dehydration of cubeb camphor. It boils at 250—2000 of Theorems of the cubeb camphor and the cube camphor are considered. The name was formerly applied, also,

to cadinene, the principal constituent of cubeb oil.

cubera (kö-bā'rā), n. [Sp., ⟨cuba, ⟨L. cupa, a tub: see cup.] A fish, Lutianus cyanopterus, of the family Lutianidæ, known from the West Indies to Brazil.

cubic. I. a.—Cubic space curve, a non-plane or twisted cubic curve, or curve of double curvature, which may be regarded as the partial intersection of two ruled quadric surfaces which have a common element or generator.

 $\begin{array}{ccc} \textbf{II.-Discriminating cubic,} & \text{the equation} \\ & \text{a.b.}, & \text{h.}, & \text{g. = O.} \\ & \text{h. b-b.}, & \text{f.} \\ & \text{g. f. c-b.} \end{array}$

The discrimination of the conicoid can be made through the discriminating cubic.

W. H. Echols, Calculus p. 361.

Polar cubic, of a point O, its first polar with respect to a quartic.—Ruled cubic, a cubic ruled surface

chamber crystals, colorless crystals which form in the leaden chambers in which sulphuric acid is made upon a great scale, and which can also be prepared by laboratory methods. They consist of nitrosyl-sulphuric acid or nitrosyl-sulphuric acid or nitrosyl-sulphuric acid and nitrogen trioxid or the products of its dissociation, the dioxid and tetroxid or the products of its dissociation, the dioxid and tetroxid or nitrosyn-Leucocytic crystals, the Charcot-Leyden crystals: so named on account of their common association with cosmophilic lencocytes,—Liquid crystal, a crystallized substance in which some of the properties belonging to the solid crystals are lost, not when the substance is fused, but at some higher temperature. For instance, p-azoxyanisol fluses at 114° C. The liquid shows strong double refraction, so that its molecules possess a regular arrangement like that in a solid crystal; but it is mobile and rises in a capillary tube, so that it is indultitably a liquid. At 134.1° C. it suddenly becomes in all respects like an ordinary liquid.—Platner's crystals, see *protein—Skeleton crystal, a crystal whose edges are developed while the interior is more or less hollow. In such cases the edges are often formed of a multitude of minute crystals (for example, comparation, the form is common with certain of the native metals, as growing the contact with the substance is demonstrated by rapid and disturbed crystallization. Crystalloiditis (kris"ta-loi-dī'tis), n. [NL., < crystalloiditis (kris"ta-loi-dī'tis,), n. [NL., < matter by evaporation with a strand glacial acctic acid. An important medicolegal test is based upon the formation of these crystals. Chemically they are hemin crystals of the composition C₃₄H₃₂N₄O₄FCC.—Virchow's crystals, crystals of hematoidin.—Whetstone crystals, crystals of xanthin sometimes found in urine.

crystals, crystals of xanthin sometimes found in urine.

crystal-gazing (kris'tal-gā'zing), n. A steady staring into the depths of a clear object, now usually a glass ball, with the view of arousing visual perceptions. Crystal-gazing is of world-wide occurrence in folk-magic, the object of the practice being to determine what is taking place at a distance or to obtain information regarding the future. A well-known variant is the use of the ink-pool, and the experiment will also succeed, in many cases, with clear water. The visions which the gazer imagines he sees in the crystal are by the ignorant believed to be of supernatural origin, and figure in fortune-telling and other impostures. Among those who seek ascientific explanation it is customary to refer the 'visions' to subliminal or subconscious processes; but they are more probably, at least in most instances, ordinary illusions, constructed by association on the basis of the stimulus which is supplied by the pleasing form, the apparent depth, and the glitter and cross-lights of the crystal.

Crystallic attraction. See *attraction.

crystalliform (kris-tal'i-fôrm), a. [L. crystal-lum, crystal, + forma, form.] Of crystalline

Crystalline glaze, etc. See *glaze, etc. Crystalline liquid. Same as liquid *crystal.

crystallinic (kris-ta-lin'ik), a. [crystalline + -ic.] Of a crystalline character: in petrog., a term used to designate metamorphism in which there is simply a change in crystallization, as the change of limestone to marble. Dana, 1895.

crystallinity, n. 2. In petrog., the degree of crystallization in a rock, as compared with the state of glassiness, whether completely or partly crystallized.

crystallitic (kris-ta-lit'ik), a. [erystallite + -ic.] In petrog., of or belonging to crystallite: used to describe the texture of glassy rocks filled with crystallites.

filled with crystallites.

crystallization, n.—Fractional crystallization, a process by which substances closely resembling each other in chemical character may sometimes be separated, from the fact that one shows a tendency to crystallize out from a solution before the other or others. Thus salts supposed to contain a single metal, didymium, by very often repeated crystallizations (in each of which the crystals first separated were kept apart from those separating later) were shown to be intimate mixtures of salts of two different metals, neodymium and praseodymium.

crystallized (kris'ta-lizd), p. a. Having assumed the form of crystals as crystallized.

sumed the form of crystals: as, crystallized saltpeter or crystallized alum.

crystallizer, n. 2. In petrog., an agent, such as gas, in molten rock-magmas, which by increasing the mobility of the liquid promotes the development of crystals without entering into their composition. Sometimes called a

mineralizing agent. crystalloceramic (kris'ta-lõ-se-ram"ik), a. Of or pertaining to the incrustation of glass on clay

crystallochore (kris' tạ - $l\bar{o}$ - $k\bar{o}r$), n. κρι σταλλος, clear ice, + χωρείν, spread abroad.] In phytogeog., a plant distributed by means of glaciers. F. E. Clements.

crystallogenesis (kris "ta-lō-jen'e-sis), n. Same as crystallogeny. crystallogenetic (kris "ta-lō-jē-net'ik). a.

Same as crystallogenic.

crystallogranular (kris"ta-lō-gran'ū-lär), a. Having the condition of a granular powder

For a ruled cubic the double line d may be either (i) a double directrix, or (ii) a generator and a single directrix, understanding by a directrix of a ruled surface a line which meets every generator.

C. M. Jessop, Treatise on the Line Complex, p. 76.

cubicephalic (kū"bi-se-fal'ik), a. [L. cubus, cube, + Gr. κεφαλή, head, + ic.] In craniom., having a brachycephalic form with flattened occiput. Aitken Meigs.

cubicossic (kū-bi-kos'ik), a. [L. cubus, cube, + NL. cossicus, eossic: see cossic.] Of or pertaining to cubic equations.

cubilose (kū bi-lōs), n. [L. cubile, a couch, + -osc.] The mucilaginous material which forms the essential basis of edible birds'-nests.

cubital. I. a.—Cubital fossa. Same as coronoid fossa (which see, under coronoid).

II. n. 3. Same as hypocoracoid, the lower

of the two bones attached to the clavicle and supporting the actinosts in fishes.

cubitale (kū-bi-tā'lē), n.; pl. cubitalia (-li-ā). [NL.: see cubital.] Same as cunciform bone

[NL: see cubild.] Same as cunciform bone (which see, under cunciform, a). cubitalis (kū-bi-tā'lis), n. [NL.] One of the ulnar muscles of the forearm.—Cubitalis anterior or internus. Same as flexor carpi ulnaris.—Cubitalis gracilis. Same as patnaris longus.—Cubitalis posterior or externus. Same as extensor carpi ulnaris.—Cubitalis Riolani. Same as anconeus. cubit-arm (kū'bit-ārm), n. In her., an arm council at the allow.

couped at the elbow.

cubito-radial (kū'bi-tō-rā'di-al), a. [L. cubitus, etbow, + radius, spoke (radius).] Relating to both the radius and the ulna.

cubitus, n. 2. In ornith., the forearm; more particularly the ulna, or outer bone of the forearm.—Radius and cubitus, the actinosts, the bones at the base of the pectoral fin-rays of fishes: not homologous with the radius of Owen, nor with the radial or the cubital of Cuyler.

cuboid. I. a.—Cuboid cell. See ★cell.

II. n. 2. A parallelopiped whose six faces are rectangles.—3. In anthrop., a cranium, short, high, and wide, of somewhat angular form. G. Sergi, The Varieties of the Human Species, p. 39. Cuboides beds.

See $\star bcd^1$.

cub-shark (kub'shārk), n. A shark, Carcha-rhinus lamia, found in tropical parts of the Atlantic, and abundant in the Caribbean Sea and the Mediterranean.

cucharo (kö-ehä'rō), n. [Venezuelan.] Same as *paraguatan.

cuckoo, n.— Bee cuckoo, the honey guide, Indicator major.— Cuckoo owl. Same as ★boobook.

cuckoo-clock (kuk'ö-klok), n. A clock in which a mechanical cuckoo announces the hours: originally made in the Black Forest or in Switzerland and known as Black Forest clock

cuckoo-fish, n. 3. A gurnard, Trigla cuculus, found in European seas.

cuckoo-flower, n.— White or wild cuckoo-flower, the white campion, Lychnis alba. cuckoo-wrasse (kůk 'ö-ras), n. A common

name of Labrus variegatus, a fish of the family Labridæ.

Cucujo, n. See *cucuyo.
Cucullella (kū-kū-lel'ä), n. [NL., dim. of L.
cucullus, a hood: see coull.] A genus of Paleozoie taxodont Pelecypoda of the family Ctenodontidæ, having teeth in a continuous arched series and clougate shells bearing a

Aconitum.

Cucumaria (kū-kū-mā'ri-ā), n. [NL., < L. cucumis (cucumer-), cucumber, +-aria.] The typical genus of the family Cucumariidæ. Blainville.

genus of the family Cucumariidæ. Blainville.

Cucumariidæ (kū-kū-ma-rī'i-dē), n. pl. [NL.,

Cucumaria + -idæ.] 'A family of Holothuroidea, of the order Actinopoda. The podia are
generally tube-teet only, and there are no papillæ; the
month and anus are terninal or dorsal; the tentacles
number from 8 to 30 and are branched; the madreporite
is Internal; the calcareous ring conslats of 5 radial and 5
internalal pieces; retractor muscles are present, and the
longitudinal muscles are generally simple; the respiratory tree is well developed; Cuvierian organs are rarely
present; and the spicules are chiefly rods and knobbed
perforated plates. It includes Cucumaria, Psolus, Thyone, Rhopadodina and other genera.

one, Rhopalodina and other genera.

Cucumber, n.— Bacteriosis of the encumber. See **bateriosis.— Bur cucumber, the star encumber, Siegos angulatus. Also called *one-seeded bur cucumber.* See **cucumber.— Cucumber caterpillar borer. See **borer.

Cucumber mildew, See **mildew.— Leaping encumber. Same as **squirting cucumber (which see, under cucumber).

Same as **squirting cucumber (which see, under cucumber).— Neat cucumber-moth, an American pyralid moth, Diaphania mildiali, the parent of the so-called 'pickle-miner's term.]

See **burre.— See **prove.* See **spore.* See **spore.* See **mildew.— Leaping encumber.

Same as **squirting cucumber (which see, under cucumber).— Neat cucumber-moth, an American pyralid moth, Diaphania mildiali, the parent of the so-called 'pickle-miner's term.]

See **prove.* See **prove.* See **spore.* See **sp

Cucumis Melo, much grown in Egypt, ripening earlier than the common cucumber: the fruitlong, horn-shaped, succulent, and of a delicate flavor.—Wild cucumber. (a) See squirting cucumber under cucumber. (b) In California, the big-root or man root Micrampelis fabacca, and doubtless other species. Parsons and Buck, Wild Flowers of California.

cucumber-beetle (kū'kum-ber-be"tl), n. Any one of several species of chrysomelid beetles of the genus Diabrotica, as D. vittata, the striped cucumber beetle, D. longicornis, D. soror, and D. duodecimpunctata, the 12-spotted eueumber beetle, also known as the southern *corn root-worm (which see, with eut), which feed on the leaves of cucumber and other eu-eurbitaceous plants. -2. A minute halticid beetle, Haltica cucumeris, also known as the cucumber flea-beetle.

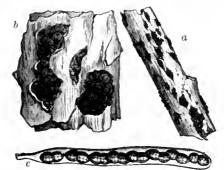
cucumber-fish (kū'kum-ber-fish"), n. Prototroctes oxyrynchus, of the family Haplochitonida, found in Australia and New Zealand and known more commonly as the grayling.

Also called cucumber-mullet.
cucumber-green (kū'kum-ber-green"), n. shade of green like that of the encumber; specifieally, such a shade of green seen in the glaze of some Oriental porcelains and in the enamel of the Grueby pottery.

cucumber-mullet (kū'kum-ber-mul et), n.

Same as *cucumber-fish.
cucumber-shin (kū'kum-ber-shin), n. Anterior eurvature of the tibia, common in the negro as a result of rickets in childhood.

His shins had the true cucumber curve. W. Irving, Salmagundi, 79. N. E. D.



Cucurbitaria Berberidis.

τ, habit of the fungus growing on dry stems of the barberry; δ, several fruiting bodies, enlarged; ε, a spore-case with spores, enlarged. (From Engler and Prantl's "Pflanzenfamilien.")

thecia to gourds, < L. cucurbita, a gourd, + -aria.] A large genus of pyrenomyeetous fungi, type of the family Cucurbitariaccae, having the black, earbonaeeous peritheeia in elose elusters on a thin stroma. The spores are ellipsoid and are divided by both longitudinal and transverse aepta. C. Berberdia la a common species occurring on branches of the barberry and other plants in Europe and America.

Cucurbitariaceæ (kū - ker "bi - tā - ri-ā 'sē-ē), n. pl. [NL., (Cucurbitaria + -acex.] A family of pyrenomycetous fungi of the order Sphæriales, named from the genus Cucurbitaria. The peritheela are mostly spherical and carbonaceous and are usually arranged in dense masses on a more or less well-

buttress behind the anterior adductor.

cucullus, n. 3. In bot., an organ folded in the cucurbitine (kū-kėr'bi-tin), a. and n. I. a. Of form of a hood or cowl, as the upper sepal of the cucurbitinus or pertaining to a encurbitinus.

II. a. Of or pertaining to a encurbitinus.

II. n. Same as cucurbitinus.

cucuyo (kö-kö'yō), n. [Also cucuio, cucujo, erroneously cucullo and in F. spelling cucuye; (Sp. cucuyo, ⟨ Taino (Haitian) cucuyo, cocuyo, otherwise reported as cucuix and locuyo.] 1. culen (kö-len'), n. [Chilean name. in Cognomy otherwise reported as cucuix and locuyo.] 1. culen (kö-len'), n. [Chilean name. in Cognomy The West Indian firefly, Pyrophorus noctilucus culé.] Seo Psoralea. and another species, an elaterid beetle which culiat (kö-le-ät'), n. See *kuliat. gleams with phosphoreseent light from spots on the body. See Pyrophorus, with cut.—2. A fish (culic-), a gnat, mosquito, + -cida ⟨ cædere, kill.] 1. n. An agent which is destructive of mosquitos. the body. See Pyrophorus, with cut.—2. A fish (Balistes carolinensis), the leather-jacket; also another balistoid fish, Xanthichthys ringens, of the West Indies and waters southward.

cuddy¹, n. 4. A counterweight, a loaded truck culicid (kū-lis'id), n. and a. I. n. A member used to balance the ear on an incline. [Seoteh of the family Culicidæ.

miner's term.]

II. a. Of or belonging to the dipterous famcuddy², n. 1. Naut.: (b) A platform in the
stern of a fishing boat, on which a drift-net is culicide¹ (kū'li-sīd), n. and a. Same as *culi-

name.] 1. Same as rusp pod and crow's *ash.

-2. A Queensland tree, Hernandia bivalvis, of the family Hernandiaceæ: it yields an oily nut and a light, soft, dark-gray wood. Also called

cudweed, n.- Winged cudweed. See claramy *ever-

cue-call (kū'kâl), n. The signal or eall furnished by the 'cue' to speak or act one's part. See cuc^1 , n. 3.

In the life-drama's stern cue-call,
A friend's a part well-prized by all.
D. G. Rassetti, Soothsay, st. 7.

 ${f cueist}\,({f k}{f u}'{f ist}),\, u. \quad {f A} \, {f billiard-player}, \, {f especially}$ one who uses his cue skilfully. See cue^1 u. 7. cuerda, u. 3. In Porto Rico, a unit of landmeasure, equal to about two fifths of an acre. measure, equal to about two intus of an acre. cuesta (kwes'tä), n. [Sp.: see coast, n.] An unsymmetrical ridge having a strong slope or escarpment on one side and a gentle slope on the other. [Southwestern U. S.]

An upland of this kind may be called a cuesta, following a name of Spanish origin used in New Mexico for low ridges of steep descent on one side and gentle slope on the other.

**B. M. Davis, Phys. Geog., p. 133.

cuf, v, and n. A simplified spelling of euf. cuffy (kuf'i), n. [From the personal name Cuffy, Guiana, D. Koffi, a common name for negroes, applied by custom to any one born on Friday. A general name for a negro. [Southern U. S.] cuilleron, n. 2. A name given by French entomologists to the squama of the Diptera and to a certain extent adopted by English writers.

W. Irving, Salmagundi, 79. V. E. D.

Cucurbitaria (kū-kėr-bi-tā'ri-ä), n. [NL. (S.

Gray, 1821), from a resemblance of the periform, of unknown origin.]

Cucurbitaria (kū-kėr-bi-tā'ri-ä), n. [NL. (S.

Guirass cancer, See *cancer en cuirusse.

cuiter (kü'ter), v. t. [Also cuter, kuter; a freq.

form, of unknown origin.] To tend or nurse with tenderness and solicitous care; minister to with untiring kindness or affection; cocker up; eoddle. [Scotch.]

I 've seen the day ye buttered my brose, And custered me late and early, O; But downa-do's come o'er me now, And och, I find it sairly, O! Burns, Deuks Dang o'er my Daddy, st. ii.

culantrillo (kö-län-trēl'yō), n. [Sp. cutantrillo, dim. of culantro, vernacular form of corundro, coriander: see coriander.] 1. In many Spanish countries, the name applied to the maidenhair, Adiantum Capillus-Venevis, and ferns resembling it, decoetions or syrups of which are administered to women at childbirth and for menstrual irregularities. In Mexico the term is applied to A. tenerum and A. tricholepis, and in the Philippines to A. lunulatum. Also called cilantrillo, or culantrillo del pozo.

2. A name applied to several other plants used medicinally, as Tetilla hydrocotylæfolia, a Chilean plant with astringent properties, belong-

culch (kulch), v. t. [culch, cultch, n.] To apply (culch) to (an oyster-bed). See culching, culching (kul'ching), n. In oyster-culture, the coating of an oyster-bed with fresh gravel, stones, etc., to form a surface on which the oyster-spat can find a lodgment.

Nature has often to be assisted in the preparation of these spots by the process known as "culching," that is, scattering the floor of the bed with rock, loose coral, and so on, to afford the necessary anchorage for the hyssus of the young oyster.

Nature, March 17, 1904, p. 466.

culd, pp. A simplified spelling of culled. culebra (kö-lā'brā), n. [Sp. culebra, < L. colubra, a snake: see culverin.] A water-spout or eloud-burst on land. The dark-colored spont, reaching down from the sky, does not descend to the ground of the lowlands and stir np a cloud of dust, but moves toward the toomatains and breaks np on a mountain side, sending torrents of water down the gorges.

II. a. Destructive of mosquitos.

Culicina (kū-li-sī'nā), n. pl. [NL., < culex (culic-), a mosquito + -ina.] A tribe or subfamily of mosquitos, Culicidæ, including the typical genus Culex and its allies, having the palpi short in the female and long in the male, and the first submarginal cell of the wings as long as or longer than the second posterior

culilawang (kö-lē-lä'waug), n. See *culilawan bark* under *bark*². [Malay.]

culintangan (kö-lin-täng'gan), n. [Also colin-tangan; Mindanao.] A musical instrument consisting of a number of closed metal vessels or goings of varying size which are struck with sticks: used among the Moros.

culler, n. 4. In glass-manuf., same as gatherer, 6. culmigenous (kul-mig'e-nus), a. [L. culmus, a stalk, + -genus, -born.] Produced or growing on straw. Syd. Soc. Lex. culm-measure (kulm'mezh"ūr), n. One of the

Lower Carboniferous formations.

Those Lower Carboniferous rocks that are called the culm-measures by some authors.

Geog. Jour. (R. G. S.), XVI. 56.

culor, n. and v. A simplified spelling of color.

culor, n. and v. A simplified spelling of colorable. culord, pp. A simplified spelling of colorable. culpose (kul'pōs), a. [NL. *eulposus, < L. culpa, a fault.] Faulty; negligent; grossly

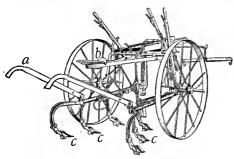
cult-deity (kult'de"i-ti), n. See *cultus-statue. cultellus, n. 2. In medieval arms and armor, a knife which occasionally served as a dagger.

a knife which occasionally served as a dagger. cultivation, n.—Margin of cultivation, in polit. econ., a situation in which labor and capital yield a product just sufficient to cover normal wages and interest. The term came into use in the conventional exposition of the nature of rent. Some lands are so fertile and so favorably situated with respect to centers of population as to yield a surplus over and above the normal remnneration of the labor and capital employed upon them. Lands of less fertility, or less favorably situated, yield a smaller surplus, and some lands, usually represented as a narrow zone circumscribing the surplus-yielding lands, produce harely enough to pay normal wages and interest. This zone, for obvious reasons, is called the margin of cultivation, or more commonly, the extensive margin of cultivation, in the cultivation of the better lands the first units of labor and capital may properly be said to yield large tion. In the cultivation of the better lands the first linus of labor and capital may properly be said to yield large returns, the later units increasing the total product, but not in proportion. Obviously a point appears at which an additional unit of labor and capital yields normal wages and interest, but nothing more. This point is spoken of figuratively as the margin of cultivation, or, more specifically the intering paragin of cultivation. intensive margin of cultivation .- Zone of cultivation. See *zone.

cultivation-bed (kul-ti-vā'shön-bed), n. filter-like bed often used with the septic tank which by bacterial action brings about nitrification of the effluent from the tank. Same as bacteria-bed.

cultivation-paddock (kul-ti-vā'shon-pad ek), The tract of land set off from an Australian cattle-farm for tillage and the raising of such crops as are needed on the station.

cultivator, n. (c) This name is now applied to a great variety of horticnitural and agricultural machines. They



Combined Walking and Riding Cultivator a, handles for operator when walking; b, seat for rider; c, c, cultivator teeth.

are divided into two classes, hand machines and horse machines; and the horse machines are classed as walking cultivators, and riding or sulky cultivators. Hand machines are supported upon one or two wheels placed in front, and have two long plow-handles by which they are pushed along the ground beside or astride of the rows of plants to be cultivated. All are provided with one or more teeth for breaking and stirring the soil and removing weeds, and have interchangeable tools (plows, rakes, hoes, scrapers, harrow-teeth, etc.) to adapt them to a variety of work. 'Walking' horse cultivators are supported upon a pair of wheels and are provided with a pair of plow-handles placed behind, by which they are guided by the operator walking in the rear. 'Riding' cultivators are fitted with a sext above the cultivating-tools, in the rear of the machine and in reach of levers for controlling the tools. The teeth or tools of all horse machines are interchangeable, and are made in the form of small hoes, rakes, scrapers, plows, harrow-points, claws, weeders, and disks. Hand cultivators are often provided with seed-

drills, or other planting appliances, and with fertilizer-distributing appliances. The combination of many tools in one machine has led to the use of many trade names. Disk cultivator, a cultivator using disks in place of knives or shears. See above.—Expanding cultivator, a cultivator in which the frame is adjustable to varying widths of plant-rows. By expanding or contracting the frame, the machine can be made to fit all conditions of culture.

cult-society (kult'so-sī"e-ti), n.; pl. cult-societies (-iiz). A society or social group held together by a religious motive, like the religious secret societies of Africa and of North America.

cultural, a. 2. Produced by cultivation: said of types of plants, chiefly varietal. A cultural variety is opposed to a natural or botanical

Substances obtainable from large numbers of plants of different types, botanical and cultural.

1'earbook U. S. Dept. Agr., 1991, p. 363.

In surv., of artificial origin: said of roads, villages, etc., on a topographic map.-4. In bacteriol., relating to culture-media or to the character of any micro-organism as indicated by the results obtained from growing it upon various culture-media.

a., Chamberland's culture-flask; \(\delta\), \(\delta\) Pasteur's culture-flask; \(\delta\), Pasteur's culture-flask; \(\delta\), Pasteur's culture-flask; \(\delta\), Freudenreich's characters, viz., sparseness of growth on blood-serum, limited surface growth in gelatine stab enlutures, and a typical radiating colonies in gelatine plates.

Jour. Exper. Med., 1900, p. 259.

Culture-hero (kul'tūr-hē*rō), n.; pl. culture-heros (-rōz). In anthrop., the mythical per-

Cultural degeneracy, the weakening in constitution of plants under demestication.

A few of my correspondents believe in what I may call

cultural degeneracy, or the doctrine that the more highly we improve the species, the weaker in constitution must each succeeding generation of varieties become.

L. H. Bailey, Snrvival of the Unlike, p. 335.

Cultural map, a map which shows cultural details.—
Cultural plant formation. See *formation.—Cultural plant formation of plant originating under cultivation, as distinguished from one originating under feral conditions. Such varieties are often spoken of as agricultural or horticultural varieties, according as they pertain to agricultural or horticultural plants. See evaluated 2 shows. cultural. 2, above

culturally (kul'tūr-al-i), adv. In bacteriol., by the use of culture-media: applied to the identification of micro-organisms according to their specific methods of growth.

In the first seven cases they failed to obtain the organisms culturally in one. Med. Record, LXIII. 237. culture, n. 9. In a map, all those features represented which are artificial or of human origin, such as meridians, roads, railroads, origin, such as meridians, roads, railroads, trails, ferries, bridges. houses, etc.—Aridian culture, See ★aridian.—Bouillon culture, a culture of bacteria growing in bouillon, which generally consists of some combination of beef extract, and peptone.—Culture anthropology. See ★anthropology.—Culture area. See ★area.—Culture system, a system of colonial exploitation employed in the Dutch East India colonies, especially in Java, the essential characteristic of which is obligatory service of the native population on government plantations for the profit of the government or its concessionaries. The system was introduced into Java in 1830 and was radically reformed in 1870. It has since practically disappeared. The principal commodities produced under it were coffee, snigar, and indigo. It was originally intended to take the place of the burdensome and unproductive land-tax, and was defended as an institution which would improve the condition of the was originally intended to take the place of the buffers some and unproductive land-tax, and was defended as an institution which would improve the condition of the peasant. In its practical operation, however, it proved to be highly iniquitous, reducing the peasant to the position of a serf.—Direct culture, a culture of bacteria produced by direct transfer from their natural source to an artificial medium.—Drop culture, a method of cultivating minute organisms, particularly fungus and alga spores, in single drops of water or nutrient solution for the purpose of observing their development under the microscope.—Ethical culture, the cultivation of morality and the art of right living, apart from and independently of religious beliefs and philosophical theories. Societies for ethical culture, led by lectmers, exist under this name in the principal American cities.—Hanging-drop culture, a minute drop culture adherent to the production of crops under the system of intensive culture, the production of crops under the system of intensive *farming (which see).

As is well known, there are two great classes of farms:

As is well known, there are two great classes of farms: iz. those based upon "intensive" culture,—"high arming," as the English call it,—and those based upon extensive" culture.

Storer, Agriculture, 11. 317. farming

"extensive" culture. Storer, Agriculture, II. 317. Negative culture, inoculation of a culture medium with suspected material not followed by a growth of bacteria.—Positive culture, inoculation of a culture medium with blood, secretions, or suspected matter, which is followed by a growth of bacteria.—Poured plate culture, a method of cultivating bacteria upon solid media which enables each organism to give rise to an individual colony. The medium is liquefied and with the bacteria is poured upon a plate of glass or into a shallow dish, where it soon hardens. Also called Petri dish culture. See Petri *dish.—Puncture culture. Same as *stab** *culture.—Roll culture, a method of culture in which a tube of mutrient gelatin is inoculated with the organism to be cultivated and then rolled on a hlock of ice, so as to solidify the gelatin on the walls of the tube as rapidly as possible.—Shake culture, a culture prepared by inoculating a tube of gelatin with the organisms

under investigation, distributing these through the medium by gentle shaking, and allowing the medium to solidify again.—Slant culture, bacteria cultivated upon a medium which presents a slanting surface, due to the tilting of the tube before the medium hardens.—Stab culture, bacteria growing in some solid medium which has been inconlated by adding the necessary organisms by means of stabbing a platinum needle into its substance.—Stock culture, a permanent culture of bacteria, kept for a considerable period, from which transfers can be made. Streak culture, bacteria growing upon a solid medium which has been incoulated by drawing a platinum needle, to which the proper organisms adhered, aeross its surface. Also called stroke culture.

The cult-society, or fraternity, or phratry, or curia (for culture-dish (kul'tūr-dish), n. A shallow by all of these names it has been known), has an ecclesiastic or religious motive which distinguishes it from the for hacteriologic cultures.

astic or religious motive which distinguishes it from the clan and gens which have a sociologic motive.

An. Rep. Bur. Amer. Ethnot., 1897-98, p. xlvi.

cultural, a. 2. Produced by cultivation: said

varying shape used in growing bacteria.



Culture-flasks.

a, Chamberland's culture-flask; b, c, Pasteur's culture-flasks; d, Lister's culture-flask; ϵ , Miquel's culture-flask; f, Freudenreich's culture-flask.

herocs (-roz). In anthrop., the mythical personage who gave to the world its present shape, and who gave to man his arts: a belief characteristic of many tribes and peoples in the lower stages of culture.

culture-province (kul'tūr-prov"ins), anthrop., a geographical area in which, under the influence of geographical and social environment, certain metamorphic types of man developed. Encyc. Bril., XXV. 373. culture-stock (kul'tūr-stok), n. A group of

tribes or peoples characterized by the possession of one and the same type of culture.

They are much more likely to have been permarent than temporary habitations of the same culture-stock of Indians who availed themselves of rock shelters wherever the nature of the cliff permitted excavation in its walls.

17th An. Rep. Bur. Am. Ethnol., ii. 543.

culture-yeast (kul'tūr-yēst), n. A cultivated form of yeast, Succharomyces, as distinguished from undesirable forms, (wild yeast) which produce the so-called diseases in beer.

cultur-kampf, n. See *kultur-kampf. cultus² (kul'tus), a. [Chinook jargon cultus, worthless, purposeless, vain, nothing; < Chinook kallas, in vain.] Worthless. [Washington state and British Columbia.] cultus-statue (kul'tus-stat#ū), n. In classic antiq., a temple image or sacred statue, usually quite simple and archaie.

cum, v. A recent simplified (and dialectal) spelling of come.

cumaphyte ($k\bar{u}'ma-f\bar{n}t$), n. [By error or intention, a more direct representative, in the first element, of the original, the normal NL. type being *cymatophytum, \langle Gr. $\kappa \bar{\nu} \mu a$ ($\kappa \nu \mu a \tau$ -), a wave, $+ \phi \nu \tau \delta \nu$, a plant.] In phytogeog., an aquatic plant adapted to growing in places exposed to the surf.

The general character of cumaphytes is necessarily such thut impact of the waves does not injure or displace them.

C. MacMillan, Minn. Bot. Stud., Bulletin IX., p. 1001.

cumaphytic (kū-ma-fit'ik), a. [cumaphyte + -ic.] In bot., adapted to the action of the surf: as, the cumaphytic form assumed by marine algæ and other plants.

cumaphytism (kū'ma-fīt-izm), n. [cumaphyte + -ism.] The changing of the normal form of certain plants, particularly marine alge, to abnormal forms for the purpose of better re-

abnormal forms for the purpose of better resisting the action of waves and rough water. cumarone, n. Same as *comber-board, cumber-board, n. Same as *comber-board. cumberlandite (kum'bēr-land-it), n. [Cumberland (Cumberland Hill, R. I.) + -ite².] In petrog., a name given by M. E. Wadsworth (1884) to much-altered rocks composed of the state titus feases magnetic limes and abundant titaniferous magnetite, lime-soda

feldspar, olivin, and secondary minerals. cumbersum, a. A simplified spelling of cum-

cumbi² (kum'bi), n. [Tamil kumbai.] A fetid gum-resin exuded as transparent tears on the buds and young shoots of Gardenia gummifera and G. lucida. See dikamali and Gardenia. cumboo-millet (kum 'bö - mil - et), n. [Tamil kambu + E. millet.] In the East Indies, the eat-tail millet, Pennisetum spicatum.

cumbre (köm'brā), n. [Sp., top, summit, < L. cumulus, heap: see cumber, cumulus.] A dividing ridge, or divide.

On the afternoon of the same day the party camped at a point 4600 feet above this, on the first "cumbre," or dividing ridge.

Geog. Jour. (R. G. S.), XII, 615.

cum d. or div. An abbreviation of the New Latin cum dividendo, 'with the dividend': used in stock-exchange quotations.

cumengite (kum'en-jit), n. [From M. Cumenge, a French chemist.] An oxychlorid of lead and copper from Boléo, Lower California, closely related to percylite, but supposed to have distinguishing optical characters. Also

cumengeite.
cumfit, n. A simplified spelling of comfit.
cumfortabl, a. A simplified spelling of com-

cumforter, n. A simplified spelling of com-

Cumidæ (kū'mi-dē), n. pl. [NL., < Cuma + -idæ.] A family of sessile-eyed erustaeeans typified by the genus Cuma.
cumidic (ku-mid'ik), a. [cum(in) + -id + -ic.]

Used in cumidic acid, a name given to two bibasic acids: a-cumidic acid, C₆H₂(CH₃)₂(CO₂H)₂ (1:3:4:6), melts above 320° C. and is also called s-dimethylisophthalie acid; and β -cumidie acid, $C_6H_2(CH_3)_2(CO_2H)_2$ (1:4:2:5), sublimes without melting and is called s-dimethylterephthalic acid

cumidine (ku'mi-din), n. [cumid-ie + -inc².]
A base, C₆H₄(NH₂)CH(CH₃)₂ (1:4), prepared by the reduction of p-nitrocumene. It boils at 225° C. and is also called p-aminoisopropyl-hensels. benzene.—Cumidine poneeau. See \star ponceau1.—Cumidine red. See \star rcd1, n.

cuminic (ku-min'ik), a. Derived from enmin.

Cuminite acid. Same as cumic acid.

cuminil (ku'mi-nil), n. [cumin+-il.] A 1,2-diketene, C₃H₇C₈H₄COCO C₆H₄C₃H₇ (1:4:4!:11), J. pared by the oxidation of euminous. Iterystallizes in prisms which melt at 84° C. cuminilic. (kp.mi-nil'il) a [cumin']

cuminilic (kn-mi-nil'ik), a. [cuminil + -ic.]
Derived from cuminil.—Cuminilic acid. A crystalline acid. [(Cli₃)₂CHC₆II₄]₂(VOII)CO₂II, prepared by fusing cuminil with potassium hydroxid. It melts at 120° C.

cuminoin (ku-min'ō-in), n. [cumin (L. cu-minum) + -in.] A white crystalline ketone aleehol, C₃H₇C₆H₄C(OH)COC₆H₄C₃H₇, formed when cuminic aldehyde is boiled with aleohele potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814), Cunonia + acceptable potassium cyanide. It melts at 101° C. [Robert Brown, 1814], Cunonia + acceptable potassium cyanide. [Robert Brown, 1814], Cunonia + accep cumliness, n. A simplified spelling of comeli-

cumpanion, n. and a. A simplified spelling of

ered into heaps, as an agglomerated mass of micro-partieles in a rock. See cumulito.

It is filled with minute, reddish, non-polarizing grains, agglomerated into semi-opaque, often spherical, balls, which give the mass a "cumulitic" appearance.

Amer. Geol., Feb., 1905, p. 98.

cumulo-cirrus (kū"mū-lō-sir'us), n.; pl. cumulo-cirri (-i). A high cloud belonging to the eirrus group, but having the eumulus structure; an alto-eumulus. See *cloud.

cumulo-nimbus (kū'mū-lō-nim'bus), n.; pl. eumulo-nimbis (-ī). Cumulus developing toward the formation of rain, but from which little rain has yet fallen. See *cloud.

Cumuleus deposits, accumulations of vegetation in water, where it does not suffer complete decay, as in marshes where peat is formed. Van Hise, U. S. Geol. Surv., Monograph 47, p. 471.

[Tamil cumulo-volcano (kū/mp̄-lō-vol-kā/nō), n. A lies, the name suggested by Lacroix, in connection with

studies of Mont Pelé, in Martinique, for steep eones or columns built up of masses of viseous or relatively infusible lavas whieh have been forced out from below the earth's surface and have been heaped up without moving far, if at all, from the vent.

the vent.

Examination

Examination

through a telescope
convinced Lacroix
that this top was
composed of "solid"
rock, not débris,
and led him to adromed at Mont Pelé, Martinique, in 1903.
vance the idea that
Pelé now was to be classed as a cumulo-volcano, a theory
which his subsequent observations and those of his colleague Giraud, and of Sapper, Heilprin and the author
have fully confirmed.

Amer. Jour. Sci., Oct., 1903, p. 272.

Amer. Jour. Sci., Oct., 1903, p. 272.

cumulus, *n*.—**Turreted cumulus**, a large cumulus eloud from whose sides rise special masses suggesting the turrets of a fortress. See ★*cloud*.

An abbreviation of cumulo-uimbus. cunctatious (kungk-tā'shus), a. [cunctati(on) + -ous.] Prone to delay. Carlyle.

+-ous.] Prone to delay. Carlylc.
cunctatory (kungk'tā-tō-ri), a. [cunctat(ion)
+-ory.] Disposed to linger or delay. Carlule.

cundy (kun'di), n. [Also cundie, condy, cundiff, cundith, etc., < OF. conduit; see conduit.]

1. A covered drain; a conduit.—2. In long-wall mining, the unfilled space between pack-walls.

—3. In steep mine-workings, a chute down which coal or other mineral slides to a passage below.—4. A small roadway or air-course. [Seotch and North. Eng. in all uses.]

cuneiformist (kū/nē-i-fôr'mist), n. [cunciform + -ist.] One who is versed in or has made a special study of euneiform writing or writings.

(Robert Brown, 1814), < Cunonia + -aceæ. family of dieotyledonous, choripetalous plants of the order Rosales, typified by the genus Cunonia, (which see), and differing chiefly from the Saxifragaecæ, in which it was forcumpany, n. A simplified spelling of compass, n. and v. t. A simplified spelling of compass, n. and v. t. A simplified spelling of compass.

cumular (kū'mū-lār), a. [NL.*eumularis, < L. cumulus, a heap: see eumulus.] Having the form of a heap; heaped; piled up; eumulous.—Cumular cloud, a cumulus cloud.

cumulate (kū'mū-lāt), a. Heaped or piled up; as, a cumulate sentence or subject.

Short sentences are prevalent in our language, as long ones are in the German. In all things we incline to curtness... But we can use the cumulate construction when needed.

J. Earle, Philol. Eng. Tongne, § 655.

Cumulative jurisdiction, in Scotch law, same as concurrent jurisdiction (which see, under concurrent, a.)—Cumulative temperature.

Schort sentences are prevalent in our language, as long ones are in the German. In all things we incline to curtness... But we can use the cumulate construction when needed.

J. Earle, Philol. Eng. Tongne, § 655.

Cumulative jurisdiction, in Scotch law, same as concurrent jurisdiction (which see, under concurrent, a.)—Cumulative temperature.

Schort sentences are prevalent in our language, as long the hall-mark of 1431; and presented by the bishop of Winchester: so called from the inscription engraved on its lase, QUI ALLIEN AVERIT ANATHEMA

ST. cursed be

Town in clusters

Australasia, but also rounce.

See Tuntry, n. A simplified spelling of country.

Cup, n.—Anathema cup, a large silver cup at Pembroke College, Cambridge, hearing the hall-mark of 1431; and presented by the bishop of Winchester: so called from the inscription engraved on its lase, QUI ALLIEN ANATHEMA

ANATHEMA SIT, cursed be

Town in Clusters.

- Antimonial cup. See *antimonial.—Cup and gutter and gutter system, of tur-pentine-gather-ing by the use of earthen cups and metal gut-ters. — Dorsal eup, in erinoids, the part of the theca below the origins of the free arms. — Dragon - boat



free arms.— Cap an outer system or rappender-pragon—boat
cup, a small porcelain wine-cup made by Chinese
potters and decorated with paintings of racing-boats in the
dragon festival.—Elijah's cup, a cup used in the Passover
service and dedicated to the prophet Elijah, whose name is
synonymous with redemption. As the Passover service
commemorates the Exodus and symbolizes the final eman-

cipation at the Great Day, a special, large cup is filled with wine and placed in the center of the table at the Passover service, ready for the Prophet, who, according to tradition, will suddenly make his appearance on a Passover eve and announce the coming of the Messiah.—Eve's eup. See *Eve.—Grape-trellis eup, a small wine-cup of Chinese porcelain bearing paintings of grape-vines rising from frames.—Jugal eup, in ornath, the cup-shaped depression, or socket for the articular face of the jugal, found on the external face of the distal end of the quadrate bone.—Keyser eup, a tall cup with a cover, made in China for exportation and painted with European designs.

The tall cups with covers called *Keyser cups*, which are illustrated in Sir Henry Thompsou's Catalogue, and also by Jacquemart, are painted with a broad panel containing St. Louis of France and his queen on a canopied throne, and narrower alternate panels with kneeling figures and birds. *S. W. Bushell*, Oriental Ceramic Art, p. 612.

Vaphio cups, two gold vases about 0.m.08 high, having each a single handle, found at Vaphio, in Greece. They



necoration of the Vaphio Cups.

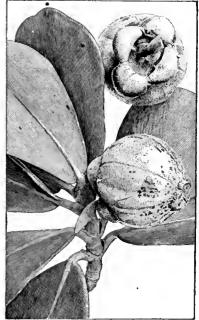
are decorated with sculpture in relief, representing bulls and herdsmen. They are considered to be the mest examples of Mycenæan or prehistoric Greek work.

cup, v. II. intrans. 4. To fit concavely over a contiguous leaf. See *cupping, 4.

a contiguous leat. See *cupping, 4. cup-and-ring (kup"and-ring'), n. A peculiar type of markings on rocks, stone monuments, and buildings, consisting of cups and rings, and of doubtful significance.

Rock inscriptions, Archaic. An account of the cup-and-ring marking on the sculptural stones of the old and new worlds. London, 1890. 8vo. Smithsonian Report., 1890, p. 597.

cupang (kö'päng), n. See *kupang. cupay (kö-pi'), n. [Also cupey; of S. Amer. origin.] In the West Indies and South Ameriea, a parasitie shrub or tree of the gamboge family, Clusia rosea. Its wood is reddish and is used only as fuel. See *aralie and Clusia.



Cupay (Clusia rosea).

cup-break (kup'brāk), n. A cup-shaped fracture. Some metals, when broken in a testing-machine, show a cup-break, the particles on the edges stretching more at the moment of rupture than those nearer the center.

cup-cake (kup'kāk), n. A plain eake, usually baked in small tims: so named from the fact that the original directions gave the propor-tions of the ingredients as measured by eup-

cup-chuck (kup'ehuk), n. Same as bell-ehuck. cup-day (kup'dā), n. In racing, the day on which a race is run for a cup.

cup-drum (kup'drum), n. A chain-sheave having recesses to receive the alternate individual links of the chain which passes over it. cupel, n. 2. The hearth of a cupellation furnace in which silver is separated from lead; a See test1, 2.

cupel-furnace (kū'pel-fer"uās), n. A form of

assay furnace.

cup-escutcheon (kup'es-kuch"on), n. A doorplate having a cup-like recess containing the keyhole, knob, and a door-pull or finger-hole: used with sliding doors.

cupesid (kū-pes'id), a. and n. Of or belonging to the Coleopterous family Cupesidx.

cupey (kö-pā'), n. Same as *cupay. cup-flower (kup'flou*er), n. A twining annual herbaceous plant, Scyphanthus elegans, belonging to the family Lousacca, but without stinging hairs. It has opposite, twice-pinnatiful leaves, and yellow, cup-shaped, axillary flowers with ten petals, the alternate ones being somewhat spurred at the base and larger than the others, which are three-awned at the tip. It is a native of Chile.

cup-fungus (kup'fung"gus), n.; pl. cup-fungi
(fun'jī). Any ediscomycetous fungus, especially one of those which have the ascomata

distinctly cup-shaped. Also cup-mushroom. cup-headed (kup'hed-ed), a. Having a cup-shaped head: said of a railroad spike so shaped, particularly in English practice, where the rails are supported in chairs: in the United

States, a socket-spike.

cupiá (kö-pi-ä'), n. [Tupi cupiá.] An undetermined yellow ant found in Brazil, where it is or was eaten, according to Piso and Hum-boldt, by the Marivatano and Margueritare Indians

Cupid's-flower (kū' pidz - flou "èr), n. The cypress-vine, Quamoclit Quamoclit. cuplet, n. A simplified spelling of couplet. cupling, n. A simplified spelling of coupling. cup-marked (kup' märkt), a. In archæol., marked with cup-like depressions, as cup-

The significance of inscribed and cup-marked stones, dolmens, and other early monuments.

Geog. Jour. (R. G. S.), XI. 681.

cup-marking (kup'mar"king), n. A circular cavity, with or without a surrounding ring, found as a peculiar form of archaic sculptured marking in Scandinavia, Scotland, America, and even in early churches in Prussia. See

cupper, n. 3. A device for making cupleathers, which are used for packing pumps and hydraulic presses. It consists of a die of the size of the outside of the cup to be made and a plug or plunger of the size of the inside of the cup. A disk of leather of the proper size is cut, is wet and stretched over the plug, and is pushed into the die and allowed to dry and

cupping, n. 4. The taking of a concave form, as tobacco leaves do in drying, when placed face to back. Cupping is prevented by string-ing the leaves face to face and back to back. cupping-pump (kup'ing-pump), n. In surg., au air-pump used for drycupping.

cup-plate (kup'plāt), n. A small plate of glass or china, three or four inches in diameter, formerly used to hold a teacup from which the tea had been poured into the saucer to cool.

cuppy² (kup'i), a. 1. Cup-like; concave: as, cuppy flowers.—2. Full of small cup-like caviies. See cup, n., 6 (b). [Golfers' cant.]

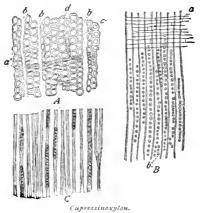
-Cuppy lie, in golf, the position of a ball when it lies in depression or shallow hole in the course. W. J. Travis, a depression or shall Practical Golf, p. 46.

cuprammonia (kū-pra-mō'ni-ä), n. [NL., < cupr-ım, copper, + NL. ammonia.] A solution of cupric hydroxid in aqueons ammonia; Schweitzer's reagent. A substance resembling horn or celluloid may be obtained by the action of cuprammonia on cellulose which, with its original vegetable structure (as, for instance, cotton fiber), is thus dissolved and then recovered in amorphous condition by evaporation of the solution and the removal of the copper by a dilute acid.

cuprammonium (kū-prā-mō'ni-um), n. [NL., current. (a) of currage, (b) of currage, n. A simplified spelling of courage. chem., the compound radical in certain salts curageous, a. A simplified spelling of courage.

obtained by the action of ammonia upon the ordinary salts of copper. cupreol ($k\bar{u}'pr\bar{e}$ -ol.) n. [cuprea (see def.) + -ol.] A complex alcohol, $C_{20}H_{34}O + H_{2}O$, found in cuprea-bark, Cinchona officinalis. It erystallizes in needles or leaflets which melt curare, n. Same as curari. at 140° C.

Cupreous pyrites. See *pyrites. cupressineous (kū-pre-sin eus), a. Belonging pheasant.



A and B, Cupressinoxylon. A transverse section through annual ring: a, cells of fall wood; b, b, b, medullary rays; c, very large intercellular space. B, radial section; a, medullary rays; b, tracheld with two rows of bordered pits. C, Cupressinoxylon columbianum, tangential section. All magnified about 33 diameters. (From "Bull, 56 of the U. S. Geol. Surv.")

coniferous plants based entirely on the internal structure of the wood which has not been connected with other parts. It agrees in a general way with that of the eypress family, but more closely still with that of Secuoia in the tribe Taxodieve. The leading character is the circular punctations of the tracheids shown in radial section, which are always in a single row. The genus is chiefly Upper Mesozoie, being most common in the Lower Cretaceous. Though found in many parts of the world, it is perhaps most abundant in the United States, and constitutes most of the fossil wood found in such great quantities in the Potomae formation of Virginia and Maryland.

cupriaseptol (kū"pri-a-sep'tol). n. [cupric] nal structure of the wood which has not been

cupriaseptol (kū"pri-a-sep'tol), n. [eupri(c) + asept(ic) + -ol.] A light-green crystalline compound, Cu(C₆H₄(OH)SO₃),H₂O, obtained by neutralizing phenol-sulphuric acid with cupric oxid and purifying; copper sulphocarbolate, used as a homostatic

cupple Oxid and puritying; copper suiphocar-bolate: used as a hemostatic. Cupric reduction, the reduction of the state of cuprons oxid of an alkaline solution of cupric tartrate (Fehling's solution), which serves as a test for and the mens of quantitatively determining certain kinds of sugar, as

*cup-and-ring.

cupped, a. 2. Lodged in a cup or depression of the ground, as a golf-ball.

cuprum, copper, + E. bismut(h) + -ite².] A sulphid of bismuth and copper occurring in sulphid of bismuth and copper occurring in the cuprum.

salphia of bismuth and copper occurring in groups of bluish black prismatic crystals. cuprodescloizite (kū")prō-dā-cloi'zit), n. [L. cuprum, copper, + descloizite.] A variety of descloizite containing copper; it occurs in green to brown crusts or reniform masses.

cupro-iodargyrite (kū"prō-ī-ō-dār'ji-rīt), n. [L. cuprum, copper, + iod(ide) + Gr. ἄργνρος, silver, + -ite².] A rare mineral consisting of the iodides of copper and silver; it is found in

cuproplumbite (kū-prō-plum'bīt), n. [L. cuprum, copper, + plumbum, lead, + ·ite².] A sulphid of copper and lead intermediate in composition between galena and chalcocite: first described from Chile, but also observed elsewhere, for example, in Montana.

cuprotungstite (kū-prō-tung'stit), n. [L. cu-prum, copper, + tungst(en) + -ite².] A tungstate of copper, or of copper and calcium ((Cu, Ca) WO4), occurring in crystalline granular masses of a green color.

of a green color.

cuprum (kū'prum), n. [I.L. cuprum: see copper.] In chem., the metal copper.

cup-shake (kup'shāk), n. See shake, n., 7.

cup-stone (kup'stōn), n. In archæol., a stone with cup-like depressions made in its surface. Such cups are found in Europe and Asia, on natural rocks as well as on prehistoric monuments and on churches. Cup-stones occur also in America. See *cup-marking. cur. An abbreviation (a) of currency; (b) of

curangin (kū-ran'gin), n. [Curanga + -in².] An amorphous, bitter glucoside, C₄₈H₇₇O₂₀ (?), foundin Picria amara (Curanga amara of Vahl). It melts at 172° C.

CUTASSOW, n.—Mountain curassow, Oreophasis der-bianus, a species confined to the forest in the vicinity of the Volcan de Fuego, Guatemala. Also called mountain

or pertaining to the trio care family; cypress-like.

Cupressinoxylon (kū-pres-i-uok'si-lon), n. [NL. (Göppert, 1850), < L. cupressinus, of cypress, + Gr. \$ivor, wood.] A genus of fossil curatorial (kū-rā-tō'ri-al), a. [LL. curatorius (< curator, curator) + -ial.] Of or pertaining to a curator or his office or duties. or pertaining to the tribe Cupressineæ or cypress family; cypress-like.

Cupressinoxylon (kū-pres-i-uok'si-lon), n. [NL. (Göppert, 1850), < L. cupressinus, of squardian for minors, incompetents, etc.

The purely curatorial part of the work.

Gunther, Cat. Birds Brit. Mus., XX. v.

curatorium (kū-rā-tō'ri-nm), n. [NL. curatorium, neut. of LL. curatorius, adj. < L. curutor, curator.] A board or college of curators, forming the governing body of a German university or Imperial institution.

The function of the curatorium is the appointment of the officials and the general management of the institution. H. S. Carhart, in Smithsonian Rep., 1900, p. 405.

curatory2, n. [NL. curatorium.] Same as

curb n.2, 4. (i) Same as crib1, 11.—Curb market, business in stocks, bonds, etc., transacted on the curb, that is, on the street, or not within a regularly organized exchange; specifically, the business carried on by large groups of brokers, not members of the exchange, near the New York stock-exchange; as, prices on the curb market.

curb-hook (kerb'huk), n. A snap-hook fitted

for the curb-straps of a bridle.

curbing (kerb'ing), n. 1. The act of checking or restraining.—2. Material prepared for curbstones either roughly worked to dimension, or finished ready to set.

curcas (ker'kas), n. [NL. curcas (specific name), Sp. curcaso; of S. Amer. origin.] The seed of certain Euphorbiaceæ, as Jatropha Curcas, found in South America. Its oil has purging properties.

curculionideous (kėr-kū"li-o-nid'e-us), a. Belonging to the coleopterous family Curculionidæ, the weevils.

curculionist (kėr-kū'li-on-ist), n. [L. curculionist (ned), curculionist, o(ned) one versed in the study of curculios.

curcuma, n.-Ohio curcuma, the goldenseal, Hydrastis Canadensis.

curcumein (ker-kū'mē-in), n. Same as *cur-

cumin, 2. curcumin, n. 2. A name given to several yellow acid coal-tar colors, as, fast yellow, brilliant yellow, and citronin. Also curcumein.

curd-knife (kėrd'nīf), n. A series of knifeblades placed side by side in a metal frame fitted with a handle, used in slicing curd in cheese-making; a curd-cutter.

curd-soap (kėrd-sōp'), n. Soap which has been coagulated or granulated by the addition of corporate self to the original solution obtained

common salt to the original solution obtained by boiling together fat and an alkaline lye.

cure, n. 6. That which is cured (see cure, v. 4); a product preserved by drying, salting, etc.; a catch of fish so treated.

The fish caught round the Newfoundland coast are generally of good quality, but the Labrador cure, owing to the short season, is often very inferior.

Encyc. Brit., XXXI. 143.

Chlorid-of-gold cure. See *gold-cure.—Economic cure, cure of a disease, not necessarily absolute, but to the extent that the patient regains his wage-earning capacity. Lancet, June 18, 1904, p. 1753.—Open-air cure. See *open-air.—Terrain cure, treatment of disease by means of graduated exercises and measured mountain climbing, combined usually with strict regulation of the diet.

cure-all, n. 2. The name of various plants having real or supposed medicinal virtues: in most cases a translation like heal-all and all-heal, but applied specifically to the water avens, Geum rivate, and the garden or lemon balm, Melissa officinalis. The evening primary rose, Enothera biennis, is called king's cure-all. cure-master (kūr'mas ter), n. In fishing, one who superintends the curing of fish.

curf (kurf), n. [Another spelling of kerf², a cutting, layer, etc.] On the Isle of Portland, a calcareous rock which, considered geologically, is one of the members of the Portlandian division of the Jurassic series. [Local Eng.] curialist (kū'ri-al-ist), n. [curial + -ist.] An officer or dignitary of the Roman Curia or papal court; also, one who advocates or sup-

papar court; also, one who advocates of supports the papal system. curibali (kö-rē-bā'lē), n. Same as juribali. curiboco (kö'ri-bō''kō), n. [Braz.] In Brazil, a person of mixed Indian and negro descent.

curine (kūr'in), n. [cur(ari) + ine².] A crystalline alkaloid, C₁₈H₁₉O₃N₇, found in curari. It melts at ²12° C. It tastes at first sweet then bitter and acts by paralyzing the nervous system.

curist (kû'rist), n. One who cures or who professes to cure disease: usually employed in a somewhat contemptuous sense and in composition: as, mind-curist, sure-curist. etc. (really formed from mind-cure + -ist, etc.).

curl, n., 4. (b) A disease of potatoes in which the shoots become curled up and deformed. It is attributed to chlorosis. (c) A disease of It is attributed to chlorosis. (c) A disease of other plants in which the leaves curl up.— currant-fly (kur'-

teaf-curl. See *leaf-curl.
curl, v. I. trans. 4. In cricket, to cause (the ball) to curve in the air: said of the bowler. II. intrans. 5. In cricket, to curve in the air: said of the ball.

curl-cloth (kerl'klôth), n. A kind of woolen fabric with a curly face.

curld, pp. A simplified spelling of *curled.

curi; prought into curls.—2. Having a winding grain: said of wood, as curled maple. See maple.—3. In bot.: (a) much folded or erumpled, as the leaves of Cichorum Endira. (b)

Affected by curl. See curl. n. 3 (a) (b) (1) (b) (kur'ant-leff'), n. curled (kerld), p. a. 1. Having the form of a curl; brought into curls.—2. Having a wind-Affected by curl. See curl, n, 4(a), $\star(b)$, $\star(c)$.

curling² (ker'ling), n. 1. The act of forming into curls; taking the form of curls.—2. Same as curl, n., 4 (a), *(b), *(c).—3. A process for giving a curl to the long nap on the face of some woolen fabrics. It is done by passing the fabric beneath a plate fitted with a brush which is given a rotatg or otherwise curving motion.
. The faulty detaching of cotton from the

comb in a combing-machine.

curlock (ker'lok), n. A dialectal form of charlock.

courly, a. 2. Affected with curl. See curl, n., 4(a), *(b), *(c).—Curly top, a disease of unknown origin which affects the sugar-beet. The leaves become much curled and the roots hairy, tough, and fibrous. curly, a.

Sugar beets in New York, Ohio, and Michigan suttered severely from leaf spot. In Utah, Colorado, Nebraska, and to a slight extent in the Middle States the disease known as "curly top" was prevalent and injurious.

Yearbook U. S. Dept. Agr., 1901, p. 671.

curly-grass (kėr'li-gras"), n. A fern of the genus Schizæa: so called from the curly thread-like segments of the sterile fronds. See cut under Schizæa .- Curly-grass family, the fem family Schizæaceæ (which see)

curly-head (ker'li-hed"), n. The erect silky clematis, Clematis ochroleuca, an American plant which ranges from Pennsylvania to Georgia. It is an erect herh a foot or more high, covered with silky hairs, having opposite sessile, ovate



leaves and large solitary thick and leathery greenish-white flowers nodding at the summit of the stem; the flowers are converted into heads of fruit one to two inches in diameter, formed of a mass of long, curled, plumose, persistent styles of a yellowish-brown color, suggesting the name.

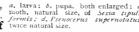
currant², n.—Black currant mite. Sec *mite1.—
Sec *cane-blight.—Currant Currant, n.—Black currant mite. See *mite!.—
Cane-blight of currant. See *cane-blight.—Currant
bark-louse. See *bark-louse.—Currant endropia, an
American geometrid moth, Pricegela armantaria, whose
larva feeds on the foliage of the currant in the northeastern United States.—Currant plant-louse, sawfly, scale. See *plant-louse, etc.—Native currant,
any currant in its native state; also, other plants with
currant-like fruit, as Amelanchier Botryapium (Dismal Swsmp region), and Berberia tripoliolata (Texas).
The fruit of the latter is used for tarts, jellies, etc.
Currant-horer n. (b) The larva of a cosmo-

currant-borer, n. (b) The larva of a cosmo-politan moth, Sesia tipuliformis, probably introduced into the United States from Europe. (c) An American cerambycid beetle, Pseno-

cerus supernotatus. Also called long-horned currant-bover.

currant-bug(knr'ant-bug), n.—Yel-low-lined currant-

ant-fli), n. An Americantrypetid fly, Epochra canadensis, which attacks the fruit of white and red currants, its larva feeding within the



The bishop's-cap or miterwort, Mitella diphylla: so called from some resemblance of the leaves to those of the current.

currant-moth, n.—Pepper-and-salt currant-moth, an American geometrid moth, Lycia cognataria, with pepper-and-salt markings, whose larva feeds on the foliage of the currant and other plants.

currency, *ii*.—**Divisional currency**, currency consisting of the small or fractional pieces.

currency, n.—Divisional currency, currency consisting of the small or fractional pieces.

current!, n.—After currents, electric currents in muscular tissue produced after the arrest of a galvanic current.—Atternating current. See *alternating.—Average current; in elect., the average intensity of an alternating current; the square root of the mean square of the current value. The average current is also sometimes defined as that value which is equal to the value of the equivalent continuous current.—Axial current. See *axial.—Cellulifugal current. See *cellulipetal.—Constant current, a direct or alternating current of constant mean intensity.—Continuous current, a direct current of constant or uniform intensity.—Current of injury, a current set up as the result of an injury to a muscle or nerve. The injured surface becomes electronegative, as compared with the intact substance. Also known as Hermann's demarcation current.—Disectric current.

Same as displacement *current.—Disectric current.

Same as displacement *current.—Disectric current, an electric current which always flows in the same direction.—Discharging current, the current derived from discharging a charged storage battery or condenser.—Displacement current, the condition of electric stress in an insulating material or dielectric produced by an alternating magnetic field or moving through a field so as to cut lines of force. Also called Foucantt currents.—Energy current, an alternating current or component of current in phase with the electromotive force or voltage.—Foucault current, an alternating current or component of current in phase with the electromotive force or voltage.—Foucault current, a current produced by an electrostatic machine.—Guinea current, a current methaliant.—Hermann's demarcation current, in elect, a current methaliant ocean which flows eastward along the Guinea coast; the counter-current of the equatorial Atlantic.—Hermann's demarcation current, in elect, a term formerly used for a wettless current.—Leaksee current. coast; the counter-current of the equatorial Atlantic.

—Hermann's demarcastion current, Same as *current of injury.—Idle current, in elect., a term formerly used for a wattless current.—Leakage current of transformer, in elect., a term formerly used for the exciting current of transformer, that is, a current passing through the primary circuit at open circuit of the secondary colls.—Local current, in elect., a current circuitating within any small portion of an electric circuit and not traversing the circuit as a whole. Currents flowing within a valetic cell for example, each current stowing lating within any small portion of an electric circuit and not traversing the circuit as a whole. Currents thowing within a voltaic cell, for example, and not entering the external circuits, are local currents.—Magnetic current, the magnetic flux. See magnetic **kerrent*.—Molecular current*, in phys., a term sometimes employed to denote that electric current flowing around each molecule of from which was assumed by Ampère in a theory of magnetism.—Molecular theory of vital currents, the theory that nerves and muscles are composed of electromotive molecules serially connected.—Monsoon current, a current of the equatorial oceans, particularly of the Indian ocean, caused by the monsoon winds.—Ore currents, in geol., subterranean waters which are believed to have brought the ores in solution to form ore-deposits.—Oscillating current, in elect., a periodically reversing current in which the successive half-waves are of equal duration but gradually decrease in intensity. See **alternating--Planktonic current. See **planktonic.—Polyphase currents, a system combining two or more alternating currents differing in phase.—Poncelet current, a current of water having a dynamic energy of 100. Wildowshurders not second.—Power current. current, a current of water having a dynamic energy of 100 kilogrammeters per second.—Power current. Same as caergy *current.—Pulsating current, a current which varies periodically in intensity, so that it always or generally flows in the same direction; a pulsa-

always or generally flows in the same direction; so that it always or generally flows in the same direction; a pulsatory current.—Reactive current. Same as wattless *current.—Rotary current, a term occasionally used for a polyphase, especially a three-phase, current.—Surface current, a current of small depth at the surface of a lake or occan.—Terrestrial currents, electrical currents traversing the crust of the earth; earth-currents.—Tesla current.—Upper currents, the motions of the atmosphere as shown by the clouds or by balloons at great elevations. According to Broun's rules, deduced in 1845 from observations at Makerstown, Scotland, the successive layers one above the other move in directions successively deflected more and more to the right of the lower wind. This law was also deduced independently by Clement Ley for southern England (1872), by Abbe for American balloon voyages (1871), and for clouds throughout the United States (1872), and is sometimes known by

their names.—Wattless current, an alternating current, or component of current, displaced in phase from the electromotive force by a quarter-period. current-bedding (kmr/ent-bed ing), u. Cross-

bedding developed in deposits made by a strong

current over a sandy bottom. Dana.
current-bottle (kur'ent-bot"), n. A sealed bottle, usually one of a number, containing a dated writing asking for its return when found: cast into the sea by investigators of the direction and velocity of ocean currents. Geog. Jour. (R. G. S.), XVI. 374.

current-collector (kur'ent-ko-lek"tor), u. In elect., any device, as a sliding brush or a trol-lev-wheel, for conveying current from a fixed to a moving portion of the circuit of an electric machine, motor, generator, or system; or vice

current-density (kur'ent-den "si-ti), n. In elect., the ratio of the current flowing to the cross-sectional area of the conductor, taken at right angles to the lines of flow. It is expressed inc. g. s. units of current per square centimeter, or in amperes per square centimeter, or sometimes in amperes per circular mil.

current-gage (kur'ent-gāj), n. An apparatus designed to measure the flow of liquids through channels; a current-meter.

current-mark (kur'ent-märk), n. In geol., the undulating surface of sands that are drifted by a current: contrasted with a ripple-mark which is formed by small waves. Geog. Jour. (R.G.S.), XVIII. 196.

curricular (ku-rik'ū-lär), a. [NL. *curriculu-laris, < L. curriculum, a course.] 1. Of or pertaining to a carriage course or carriage-driving. — 2. Of or pertaining to a curriculum or course of study. See *curricularization.

curricularization (ku-rik"ū-ligr-i-zā'shon), n. [curricular+-ice+-ation.] Subjection to a hard-and-fast school or college curriculum.

Youth who want somewhere room for individuality, if not for distinction, and resist curricularization and, as the French call it, the canalization of knowledge.

G. S. Hall, Adolescence, II. 500.

currycomb (knr'i-kom), v. t. To curry, as a

Cursive epilepsy. See *cpilepsy.

cursor, n. — Radial cursor, an addition to the slide-rule, devised by Lanchester.

rule, devised by Lanenester.

Lanchester's radial cursor, which makes thermodynamical calculations with γ -wise exponents almost as direct as plain multiplications, and far more convenient than with the log. log. line.

Nature, July 24, 1902, p. 293.

cursus, n. 2. A course of study.

curtail (ker'tāl), n. In arch., a member shaped like a volute or scroll, especially in stair-building, as in the lower termination of a hand-rail or the projection of the lowest step of a flight,

See cartail-step.
curtain, n. 9. In hydraul. engin., a woven fabric of brushwood or withes, such as branches of willows, placed in a stream to retard the current and permit the deposition of silt, or to compel scour and remove it. - 10. A vertical fold of the mantle within the margins of the valves of certain pelecypods (the peetens).— 11. In arch., a wall which serves as an inclosure 11. In arch., a wall which serves as an inclosure rather than as a support. Thus the wall beneath a large window, as in a church, or that between two buttresses which carry the vault and roof without its assistance, is a curtain. — Asbestos curtain. See ★asbestos.— Auroral curtain, an arrangement of nearly vertical beams of auroral light resembling the folds of a curtain, or drapery, and partly obscuring the light of the stars beyond. The foldings are usually in motion horizontally, or changing so as to give the appearance of motion, and show that the sheet of light is superposity beautoners confered to the series. the sheet of light is apparently a boundary-surface between moving masses of air.

curtain-holder (kėr'tān-hōl"dèr), n. A me-chanical device for holding a car window-curchainear device for nothing a car window-curtain in any desired position.— Magnetic curtain-holder, a curtain-holder consisting of bar-magnets fastened to the lower edge of the shade and bearing against soft iron guides in the window-casing. The shade is held in place by magnetic attraction. A slight pull readily releases the magnets, and when again at rest they hold the curtain in place. curtain in place.

curtain-paper (kėr'tān-pā"pėr), n. tinted and ornamented paper of close texture, used to some extent in the United States for roller-blinds or window-shades.

curtain-raiser (kėr'tan-ra"zėr), n. opening piece acted before the principal play of the evening. [Theatrical slang.]

Curtate expectation of life. See *expecta-

curteous, curtesy, curtezan. Simplified spell-

curveous, courtesy, courtezan.

curupay (kö-rö-pi'). n. [Guarani curupai.]

The name in Paraguay and Argentina of Stachychrysnm Cebil (Piptadenia Cebil of Grisebach), a large tree of the mimosa family.



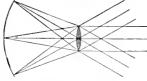
Curly-head (Clematis ochroleus) (From Britton and Brown's "Illustrated Flora of the Northern States and Canada,")

It yields a strong and easily worked dark-red timber, used for furniture and house construction, and a reddish gum resembling gum arabic. The bark contains from 19 to 25 per cent, of tannin, and is much used locally for tanning hides in the manufacture of sole-leather, called cebil and cebil colorado.

curv, a., n., and r. A simplified spelling of

curvature, n. 4. In projective geom., susceptibility of being cut in two different points by a straight, independently of whether the construct possessing this property has any point at which two straights inclined to one another and lying in this construct might meet. metric geometry curvature is often used for the measure of curvature or the reciprocal of the radius of curvature .- Axis of curvature,

the intersection of consecutive mormal planes of a skew curve.—
Curvature of field, in photog., the imaginary conseave surface upon which the rays of light are brought to a focus. Corrections for this are made in photographs. the intersection of



to a focus. Corrections for this are made in photographic and other objectives in order that the image may appear sharply defined at all points of the plane of the plate or film.—Curvature of space. See *space.—Sachs's curvature, the difference in the growth of the two sides of a root, causing it to curve. Wettstein.—Specific curvature, the curvature of a surface expressed in terms of the solid angle subtended by a unit of area.—Terminal curvature, in good, the bending over of outcropping edges of strata. This is a common feature in glaciated regions, but it is not confined to them. The same effect is sometimes the result of creep.

CUTVE. W.—Addon't or addunct curve. in math., a

cropping edges of strata. This is a common feature in glaciated regions, but it is not confined to them. The same effect is sometimes the result of creep.

CUTVE, n.—Adjoint or adjunct curve, in math., a curve which passes i—I times through every i—fold point of a primitive curve. —Affective curve. See *Agfective.—Binomlal curve, in math., a curve whose ordinate may be expressed by some power of a binomial function of the abscisa: thus y=xm(a+bxm)p is a binomial curve.—Curve of Carus, the axis of the pelvis represented by a curved line.—Curve of centers of buoyancy. See *curves of ship calculations.—Curve of comfort, in climatology, a curve connecting temperatures and moistures that correspond to perfect bodily comfort for a given velocity of the wind. Abbe, in Monthly Weather Rev., Ang., 188s.—Curve of decay, in radioactivity, a curve showing the diminution of activity of a radioactive substance, as a function of the time.—Curve of discomfort, a curve connecting temperatures and moistures that correspond to extreme bodily discomfort for a given velocity of the wind; a hyther. W. S. Tyler, in Monthly Weather Rev., May, 1904.—Curve of displacement. See *curves of ship calculations.—Curve of distribution. Same as quettelet *xeurve.—Curve of energy, in phys., any curve representing change of condition or configuration of a system, in which energy is one of the variables; specifically, in *spectroscopy, the curve of distribution of energy in the spectrum.—Curve of extinction, in naval arch., a curve showing graphically the diminishing angle of inclination in the rolling of a vessel in still water which has been inclined by an extraneous force and then allowed to oscillate freely in the water.—Curve of fatigue, in phys., the curve which shows the gradual change in the deformation of a body subjected to continued stress.—Curve of loads. See *curves of ship calculations.—Curve of loads. See *curves of ship calculations.—Curve of loads. See *curves of ship calculations.—Curve of loads. See *curves of ship calculations. tained are joined in a curve. The resistance for a given speed is separated into three parts, the wave-making resistance, eddy resistance, and frictional resistance (see *resistance), and hy suitable calculations, using the law of comparison, the curve of resistance and curve of effective horse-power for the full-sized ship of similar form to that of the model are obtained.—Curve of saturation, in meteor., that curved line on the Hertzian or Neuholf diagram of adiahatic changes which separates the dry stage from the cloudy stage.—Curve of search (naved), a curve of pursuit geometrically developed from information as to the speed and time of departure of a vessel or fleet of the enemy from a given place, or from its speed and probable time of arrival. The pursuing or sconting vessel follows this curve as the best method of systematic search for the enemy with the information available.—Curve of sensitiveness, acurve which represents matic search for the enemy with the information available.—Curve of sensitiveness, acuve which represents the relative sensitiveness of a photographic plate for rays of different wave-length.—Curve of stability, a curve which shows the relation between the angle of inclination of a floating vessel, as a ship, and the arm of the righting couple. See also *curres of ship calculations.—Curve of velocity, a curve for every point of which the abscissa is the length of time after a certain instant and the ordinate is the velocity acquired at the end of that period of time.—Curve of weight. See *curres of ship calculations.—Curve resistance. See *resistance.—Curves of ship calculations. In determining the qualities of a ship, haval architects make certain calculations based on the form of the vessel as shown by the lines. These calculations are made by certain mathematical rules

These calculations are made by certain mathematical rules

known as Simpson's rules, trapezoidal rule, etc. (see *rule). The calculations are made for the vessel floating at a certain number of equally spaced water-lines, and the values obtained are laid off in a diagram. The points thus obtained are joined by curves passing through them (see the cut). From the diagram the quantities for any intermediate water-line can be obtained without calculation by reading their values from the intersection of the corresponding curves with the water-line. The following curves are usually eacheud, a curve showing to a suitable scale the displacement of a vessel of any importance: Curve of displacement, a curve showing to a suitable scale the displacement of a vessel in fresh or salt water for any given mean draft. Curve of eenters of buoyancy, a curve showing the position of the center of buoyancy (see center) corresponding to the immersion of a vessel to any given water-line. The curve showing the vertical position of the center of buoyancy is generally plotted in combination with the curve of transverse metacenters as follows (see the cut): A diagonal line at 45' inclination is drawn on the diagram, where this diagonal intersects any given water-line a vertical line is drawn (see dotted line in diagram), and the intersection of this vertical with the curve of metacenters and the curve of centers of buoyancy gives the height of the metacenter and of the center of buoyancy corresponding to the displacement of the vessel floating at that water-line. The longitudinal position of the center of buoyancy is shown by laying its value off on the water-line corresponding to any given displacement forward or abaft a vertical indicating the middle perpendicular (not shown in diagram). Curve of transverse metacenters or curve of metacenters, a curve showing the height of the metacenter with reference to the water-line or curve of metacenters or curve of metacenters. For the method of laying of the one in the deeper immersion of the vessel in the water-line. The long the method of the diagram

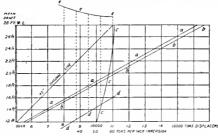


Diagram of Displacement and Other Curves usually Calculated for Ships.

a, a, curve of displacement in fresh water; b, b, curve of displacement in salt water; c, c, curve of tons per inch immersion; d, d, curve of vertical position of centers of buoyancy; e, e, curve of transverse metacenters.

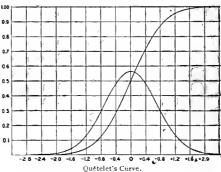
weight required to be added to the vessel to sink her one inch deeper when she is floating at any given displacement. Additional curves are usually calculated for warships. Among the more important of these are the crosscurves of stability. From the cross-curves can be obtained for any given condition of loading of the vessel a curve of statical stability which shows, corresponding to each angle of inclination from the upright, the value of the righting couple and the point to which, if sufficiently inclined, the vessel will upset or turn turtle. The curve of cross-sectional areas or curve of buoyancy is the curve whose ordinates are areas of cross-sections up to a given waterline corresponding to each point in the length. Read to a suitable scale, these ordinates represent the buoyancy per unit of length. Curve of weight is a similar curve showing the actual weight of the vessel and its contents for each unit of the length. The difference between the ordinates of the curve of weights and the curve of buoyancy for any given displacement gives the curve of loads, from which, by integration, are successively obtained the curve of longitudinal shearing-stresses and the curve of bending moments which serve to determine whether the vessel has sufficient longitudinal strength.—Derived curve, of the function f(x) of x.—Diametral curve, a curve which has, like a diameter, the property of bisecting parallel chords in a curve.—Dioptric curve. Same as curve of probability, but applied more often than the latter term to unsymmetrical curves which cannot be explained in any very limited espace.—French curve, in mechanical drawing, a thin plate of metal or hard rubber, sheet of cardboard, or veneer of wood cut into complicated shapes so that its edge may give a great many different curves of non-geometrical character. It is used for drawing a curve through three or more points previously laid down, and in similar ways.—Funcular curve. Same as catenary.—Ichthyoid curve.—Galton's curve. See *Hessian's.—Ichthyoid three of the c Integral curve. If $\phi(x)$ and f(x) are 2 functions so re-

lated that $\frac{\mathrm{d}}{\mathrm{d}x} \phi(x) = f(x)$, then the curve $y = \phi(x)$ is an

integral curve of the curve y = f(x).—Integral probability curve. See the diagram under Quételet's **eurve. By this curve problems such as the following can be solved: Given the probability, r, that an object taken at random will have a certain character, then among any considerable number, n, of independent objects, what is the probability that the number having the character in question will be within the given inclusive limits m_1 and

cuscamidine

m₂, where m₁ < m₂?—Iseidomal curve. See *iseidomal.—Isentropic curve, a curve, in any thermodynamic diagram, indicating any process or operation during which there is no change of entropy.—Isogyric curve. See *isogyre.—Isothermal curve, the curve which represents the expansion or compression of a gas or vapor at a constant temperature. The isothermal curve for a perfect gas follows the law of Boyle or Mariotte, which is that the pressure times the volume is a constant.—Kinematic curve, a curve which is usually the resultant of two or more harmonic or circular motions mechanically combined.—Liquidus curve, a curve which shows the temperatures of complete fusion or of the beginning of solidification of a series of alloys containing every proportion of the two constituents. See *solidus curve.—Load curve, in electrotechnics, a curve which indicates variations of the load of an electric-power system as a function of any variable, such as the time of day, upon which the size of the load depends.—Magnetic curves. (b) See *magnetic.—Mixed curve, an irregular curve; a curve composed of two or more different curves.—Motion curve, a curve showing the successive positions of a piece of mechanism or a point, specifically of the link-block or of that part which moves the slide-valve of a steam-engine, as in a locomotive or marine engine.—Polytropic curve, in thermodynamics, a curve having the equation pvn = const., where p is the pressure of a gas and v is its volume.—Probability curve, See Quételet's *curve.—Quételet's curve, a curve which exhibits the arrangement or distribution of a group of statistical events



Probability Curve and Integral Curve of Probabilities.

according to the mathematical law of error. It was first employed as a means for recognizing and distinguishing biological types or species by a French mathematician, Lambert Adolphe Jacques Quételet (1796-1874), and it is the basis of the modern science of biometry, Quételet showed that the numbers representing the individual qualities of a race of mankind are grouped round the numbers referring to the 'average man' in a manner corresponding to that in which single results of observation are grouped round the mean result, so that the principles of the theory of probabilities may be applied to statistical researches in anthropology as a means of distinguishing the different human races. He showed that the number of cases in which a certain height, for example, occurs among a large number of individuals of a race may be represented by an ordinate of a curve symmetrically situated with regard to the ordinate representing the mean result or average stature, and that the curves for different races of mankind are different. Also called Galton's curve, curve of distribution, probability curve.

—Reverse curve, See reverse *twist.—Vapor-preseure curve, a curve showing the variation of vapor-pressure with temperature.—Vertex of a curve. See **ever** a curve. An instrument

curve-adder (kérv'ad"ér), n. An instrument by means of which the sum of two curves of any kind, with any relations of period, ampli-

scripture, Exper. Phonetics, p. 68.

curve-pen (kerv'pen), n. A ruling-pen having pen-points attached to a rod inclosed in the handle and free to rotate with it. When used in drawing fine curves the points follow the

motion of the hand, whatever its direction. curve-tracer (kerv'trā"ser), n. A machine for drawing curves; specifically, a device for recording graphically the changes of electromotive force or current which occur in alternating electric circuits or when a condenser is charged or discharged. The term is also applied to instruments for drawing curves of magnetic induction.

curve-tracing (kerv'tra sing), n. The process of tracing a curve or curves. A curve is said to be traced when the general form of its several parts or branches is determined, and the position of those which are unlimited in extent is indicated.

curvilineal (kėr-vi-lin'ē-al), a. Same as cur-

curvilinear fret. See *fret3.

curvometer (kėr-vom'e-tėr), n. [L. currus, curve, + Gr. μέτρον, measure.] An instrument for measuring the length of curved lines, as of a road on a map. A wheel is rolled along the line, each revolution of the point of contact indicating a path equal to the circumference of the wheel. Encyc. Brit. XXX. 578.

cuscamidine (kus-kam'i-din), n. (bark) + amide + -ine².] A crystalline alkaloid contained in the bark of certain species of einehona.

cuscamine (kus'ka-min), n. [Cuse(o) (bark) Same as *cuscamidine.

Cuscutaceæ (kus-kū-tā'sē-ē), n. pl. [NL. (Dumortier, 1829), \(Cuscuta + -aceæ. \)] A family of dieotyledonous sympetalous plants of the order *Polemoniales*, the dodder family. of the order *Polemoniales*, the dodder family. It contains the genus *Cuscuta* only, and differs from the *Concotrudacea*, in which it is included by many suthors, chiefly in its parasitic habit, the leaves being reduced to minute scales. See *Cuscuta* and dodder1. **cusecs** (ku'seks), n. An abbreviation of *cubic fect per second*, oceasionally used by irrigation engineers, particularly by British engineers, as an expression of rate of flow of water. **cush**² (kush), n. [Origin observed] In North

cush² (kush), n. [Origin obscure.] In North Carolina, the erumbs and scrapings of crackeror meal-barrels, fried with grease.

cushaw (kush-â'), n. [Also cashaw, cashew, kershaw; Algonkian (of Virginia) escushaw.]

A fruit, mostly oblong or erooked, of Cucurbita mosehata, sometimes called squash and sometimes pumpkin. The pumpkins, as the term is understood in North America, belong to the species Cucurbita Pepo, and the autumn and winter squashes to C. mosehata. The name seems to be applied somewhat loosely, and in its local usage may designate pumpkin-like fruits other than those of Cucurbita mosehata; but the usage of horticultural writings seems to confine it to that species, although it does not follow that all fruits of C. mosehata are cushaws. The winter crookneck or Canada crookneck type is the fruit most commonly known as cushaw or cashaw. It keeps well into winter. The name is chiefly used in the southern and western United States. The best variety (of squash] for family use is the Cashaw, a long, cylindrical, curved variety, swollen at one extremity, of fine, creamy yellow color, very solid and excellent to use as a winter squash, and quite as valuable as any for the other purposes.

II. V. White, Gardening for the South, p. 214.

the other purposes.
Il. N. Il'hite, Gardening for the South, p. 214. **cushion**, n. 2. (j) (2) An expansion at the lower extremity of a grape-vine from which a part of its roots spring. This had ten roots springing from the cushion at the

base.
U. S. Dept. Agr., Div. Veg. Pathol., Bulletin 2, 1892, p. 52.
(f) Same as saddle, 3(g)(f) (m) In pianoforte-making, a pad or roll of left placed under the ends of the keys to prevent noise. See cut under pianoforte. (n) Same as coronetl, 6. (a) A pool formed by a low dam or obstruction immediately below a higher dam to prevent erosion or destructive effect of the water which falls over the higher dam or hydraulic work.—Cushion form, in phylogoga, the vegetation-form which is embodied in a *cushion-plant (which see, with cut). Also called hassock form.—Leafcushion, in padebot, the more or less raised and usually rhombic area left on the trunks and stems of various fossil plants, especially Lepidodendron and Sigillaria. It includes the leaf-scar proper (see scarl, 4), the print of the vascular bundle, the *parichnos(which see), the ligule (see ligule (d)), and other markings.—Sucking cushions, circumscribed areas of fatty tissue in an infant's checks, the function of which is supposed to be to prevent the checks from sinking in while the child is at the breast cushion, v. t. 4. In mach., to compress (exhaust-steam or other motive fluid) by closing the exhaust-outlet of a cylinder before the U. S. Dept. Agr., Div. Veg. Pathol., Bulletin 2, 1892, p. 52.

the exhaust-outlet of a cylinder before the piston completes its traverse. The gradual compression causes increasing pressure against the piston and arrests the motion of the reciprocating parts without shock. See cushion, n, 2 (h). cushion-bit (kūsh'on-bit), n. A metal bit in

canized leather. Round pads of soft leather, which bear against the horse's cheeks, are attached to the side of the rings.

cushion-crawling (kush 'on-kra "ling), n. In Eng. billiards, a mode of nursing along or near a cushion: analogous to American play 'on the rail' before it developed into 'straight (straight-forward and corner-turning) rail.

cushion-draw (kush'on-dra), n. In billiards the name of two draw-shots, in one of which the ene-ball retrogrades parallel with and along the cushion, and in the other comes peculiarly out at right angles to it, cushion and first object-ball being struck, in both shors, at about the same time.

cushion-flower (kush'on-flou"er), n. An evergreen shrub, Hakea laurina, of the family Pro-teaceæ. See Hakea. [Australian.] cushion-plant (kùsh'on-plant), n. In phyto-



A Cushion-plant (Verbena minima) of Peru and Bolivia, ural size. (Drawn from Schimper's "Pflanzengeographie.")

geog., a plant of a vegetation-form resembling a cushion, consisting of a mass of branches from an axis, which may either persist or disappear, so crowded that leaves and flowers are shown only on the general surface. Except in the ease of mosses, it is mainly an alpine or arctic type, but is also developed on islands of the south temperate zone.

cushion-rest (kush'on-rest), n. the cushion used as a support for the striker's bridge-hand or for the cue itself, the latter especially in giving the odds of one hand against two.

cushion-steam (kush'on-stem), n. The steam which remains in a steam-engine cylinder and the clearance-spaces after the exhaust-valve

cushion-work (kush'on-werk), n. See cushion style, under cushion.

In old embroidery the cushion-work or -style (opus pultrinarium) was like modern so-called Berlin work. It was done in cross- or tent-stitch with silk or wool, and was used to cover cushions, either to kneel upon or to uphold the mass-book at the altar; hence its name. It was also used for emblazoning heraldic designs.

Rock, S. K. Handbook**, Textile, Fabrics, p. 81.

cusk-eel (kusk'ēl), n. Any fish of the family Ophidiidæ. They are marine forms, eel-shaped, but have nothing in common with the true eels. 5. (c) One of the segments, with pointed tip, of a valve of the heart.—Ceratotd cusp, a cusp at which the two branches of the curve, in the neighborhood of the singular point, lie on opposite the neighborhood of the sing sides of the common tangent.

cuspate, (kus'pāt), a. $[cusp + -ate^{1}]$. Cf. cuspidate.] Resembling a cusp; having the form of a cusp.

cuspid (kus'pid), n. and a. [L. cuspis (cuspid-), a point: see cusp.] I. n. A canine tooth.

II. a. Same as cuspidate, 2. cuspidal, a. 3. Having cusps; cuspidate: said of teeth. [Rare.]—Cuspidal tangent. See *tan-

cuspidation (kus-pi-da'shon), n. Same as

cuspidite (kus'pi-dit), n. [L. cuspis (cuspid-), point. +-ite².] Same as cuspidine. cuspidule (kus'pi-dūl), n. [NL. *cuspidula, dim.of cuspis. a cusp.] A minute cusp. [Rare.] cusping (kus'ping), n. In arch., an arrange ment of cusps; a series of cusps; the general system of decoration by eusps, as in Gothic tracery

cusplet (kusp'let), n. [cusp + -let.] A small

cuspule (kus'pūl), n. [cusp + -ulc.] In anat., a small projection or minute eusp on a tooth. customary, n. 2. A book which treats of the rules, regulations, usages, and ceremonies to be observed by a religious community, order, or college. Also custumary .- Customary estate, Sec *estate

custom-free (kus'tum-frē), a. Free of eustomsduty; duty-free; on the free list: as, customfree goods.

cut, v. I. trans. 20. In golf, to draw the elub smartly across and underneath (a ball) with a quick upward turn of the wrists. Practical the subject in projective geom., said of the intersecting by a fixed plane μ (the picture-plane) of a figure, the subject, made up of planes β , γ , δ , etc., and straights b, c, d, etc., thus constructing the meets $\overline{\mu\beta}$, $\overline{\mu\gamma}$, $\overline{\mu\delta}$, and the passes μ b, μ c, μ d. Thus is obtained a new figure composed of straights and points, all on μ , and called a cut of the subject. If the subject is an eject of an original, the cut of the subject is an image of the original.

The operations of projecting and cutting are the two fundamental ones of the Projective Geometry.

C. Leudesdorf, Cremona, Projective Geom., p. 2.

C. Leudesdorf, Cremona, Projective Geom., p. 2.

Cut service, terrace. See *serrice1, *terrace.—Cutting-down machine, in show manuf., a foot-power cutting-moschine employing a strsight-edge knife for cutting panels, trimming shank-pieces, etc.—Cutting-off tool, in a lathe, a special tool for cutting off any part of the work to release it from the chuck, or to finish the end of the piece. It is made in many forms. A tool having two parallel cutting-off blades, with a narrow space between them, is used to cut flat rings from a pipe and is called a ring-cutting tool. An automatic machine for cutting metal rods into lengths is called a cutting-off machine, as is also a cold saw for cutting rods and bars. See parting-tool.—To cut tice, to make an impression; effect something. (Slanz,)—To cut the pan, in scapmaking, to add salt to the original solution obtained by boiling together fat, alkali, and water, in order to precipitate or curdle the soap, leaving glycerin in the watery brine or underlye.

II. intrans. 9. In mech., to become scored or scratched by friction, as a journal-bearing

or scratched by friction, as a journal-bearing or piston-rod when imperfectly lubricated or improperly packed .- To cut in. (c) In carriage-

painting, to apply color around a letter or stripe.—To ent out, to cut all out, in sheep-shearing, to finish the work. [Australia.] cut, n. 22. In mining: (a) An advance opening made with a piek or by blasting in drifting or other mine-work to facilitate subsequent blasting. (b) An open side. In long-wall work, one working-face in advance of another gives it cut. Barrowman, Glossary.—23. In forestry, the season's output of logs.—24. In agri., a land or ridge.

After this the furrows between the "lands," or "cuts," are cleaned out, so as to allow of surface drainage.

H. J. Webb, Advanced Agriculture, p. 319.

25. A slit or narrow opening across the stage of a theater for use in moving the scenery up or down.-26. In sugar-manuf., a pause in the process of boiling syrup, during which the evaporating-pan is partly emptied of the concentrated syrup. A portion is left to set up erystallization in the fresh syrup which is then added and the process resumed.

To obtain this result, reduce the cutting and shorten the time of boiling, refiners now proceed as follows, viz., they concentrate some liquor in the pan to nearly the crystallizing point and add to it a proportion of the dried sugar from the first or earlier cuts of a former boiling.

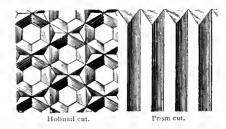
Sci. Amer. Sup., Feb. 28, 1903, p. 22706.

27. In math.: (a) Any separation of the system of rational numbers into two classes, A_2 , A_1 , which possesses the characteristic property that every number in A_1 is less than every number in A_2 .

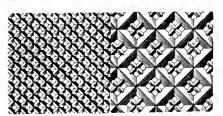
Every separation R = A + A' which satisfies these conditions is called a cut, and will be denoted by (A, A'). We have seen that every rational number a is associated with a definite cut. Conversely, a cut (A, A') in which A has a last element a is perfectly definite, and specifies a without ambiguity.

Encyc. Brit., XXXI. 284.

(b) In projective geom., the figure obtained by entting. See *cut, v. t., 21. (c) In function-theory, the line of division in the z-plane, which serves to separate the branches of a function from one another.—28. The act of entting or interfering. See cut, v. i., 6.—Fishfin cut, a standard pattern in decorative glass-cutting, resembling the serrated fins of a fish.—Forward cut, in cricket, a stroke by which a short-pitched ball is sent to the right side of point. Mutchinson, Cricket, p. 67.—Hobnail cut, a standard pattern in decorative glass-cutting.



—Indian cut, a method of cutting gems in Ceylon and the Orient, in which the size of the table is usually double the size of the culet and there is no special order as to the size of any of the facets, the gems being cut for weight and preservation of color rather than for their beauty. They are almost invariably recut when sent to Europe or the United States.—Late cut, in cricket, a wrist-stroke by which a length ball, or a ball short of a length, is hit when it has almost passed the hstsman, so as to send it in the direction of third man. Hutchinson, Cricket, p. 67.—Olive cut, a standard pattern in decorative glass-cutting.—Prism cut, a standard pattern in decorative glass-cutting.—Rasp cut. Same as raspl, 1.—Speedy cut, an injury to the inside of the fore leg of a horse just below the knee, inflicted when the animal is trotting or going at a rapid gait.—Split cut. (a) See split. (b) A standard pattern in decorative glass-cutting.—Sex-plit, n.—Square cut, in cricket, a wrist-stroke by which a length ball, or a ball short of a length, is sent in the di-



rection of point. *Hutchinson*, Cricket, p. 67.—**Strawberry** diamond cut, table diamond cut, standard patterns in decorative glass-cutting. cut-and-cover (kut'and-kuv'er), a. and n. I. a.

In engin., a term applied to a method of tun-nel construction in which those portions which approach the surface are made by cutting down from above (instead of boring horizon-

II. n. The cut-and-cover method of tunnel construction.

cut-and-fill (kut and-fil'), n. In geol., lateral planation on one side of a meandering stream accompanied by deposition on the other.

This is cut-and-till. The sediment eroded from the curve which is concave toward the stream is shifted down-stream, while that deposited in the curve which is convex toward the stream is brought down from above.

Chamberlin and Salishury, Geol., I. 183.

cutch³, n.— Dtamine cutch, a direct cotton coal-tar color of the disazo type, derived from diamido-naphthalene. It dyes unmordanted cotton a violet brown from a salt bath, with the intermediate n. cut-chain (kut'chān), n. In mining, a chain used on inclines, which may be cut at different

places to suit various levels.

cut-finger (kut'fing/ger). n. See Vinca. cutigeral (kū-tij'e-ral), a. [L. eutis, skin, + East Indies.

gerere, carry, + all.] Carrying or supporting cutter¹, n. 3. (e) A vessel of the government skin.—Cutigeral cavity, the depression or emargination in the inner upper border of a horse's hoof. cut-in (kut-in'), n. Same as cut-in notes. See

cutization (kū-ti-zā'shon), n. [L. eutis, skin, -ize + -ation.] Transformation into skin.

cutline (kut'lin), n. Same as *cautline.
cutling² (kut'ling), n. [cut + -ling¹.] A
cutting; a small part of a plant, as a twig, severed for purposes of propagation. cut-looker (kut'lūk'er), n. One who inspects

the weaver's cut or piece of cloth as it comes from the loom.

rom the room.

cut-meter (kut'mē"tér), n. An instrument for measuring the cutting-speed of machine-tools. It is essentially a form of tachometer, having a dial which, when the instrument is pressed against the spindle of a lathe, the cutter of a milling-machine, or the table of a planer, records the speed of the cut made by the tool. cut-money (kut'mun"i), n. See *money.

cut-off, n. 7. An attachment to a magazine from which enables the soldier to weit test.

firearm which enables the soldier to use it as a single-loader and reserve the cartridges in the magazine.

The new weapon [Springfield rifle] is what is known as the clip-loading magazine gun, being provided with a cut-off which enables the firer to use it as a single loader.

Review of Reviews, Nov., 1903, p. 570.

8. In forestry, an artificial channel by which the course of a stream is straightened to facilitate log-driving.—9. The practice of stopping or cutting off the admission of motor-fluid, such as steam, to the engine-eylinder before the traverse of the piston is completed. It makes the steam imprisoned in the cylinder work by expansive action after cut-off has occurred, so that the steam is of lower pressure and temperature when the exhaust takes place, and the heat in it is more efficiently utilized. The cut-off is said to be short when the expansion period is long. The expansion or degree of expansion is the reciprocal of the cut-off, that is, if the cut-off is at \(\frac{1}{2} \) of the stroke, the expansion is \(\frac{1}{2} \), or the steam has \(\frac{1}{2} \) the volume which it occupied when the valve closed. The point of cut-off is the point of the piston traverse at which the valve closed.—Commercial cut-off, a point on a steam-engine indicator-diagram which is determined by drawing a line paralled to the base-line through a point which shows the maximum pressure during admission, and intersecting it with the backward prolongation of the expansion-line by a hyperbolic curve; that point of cut-off which gives the greatest power for a dollar expended to produce such power.—Cut-off governor, a governor which regulates the speed of the engine by varying the point of cut-off, thus changing the amount of steam or gas admitted to the cylinder by shortening or lengthening the period of admission, but without affecting the pressure during such admission.—Cut-off plate. (a) Same as *cut-off valve. (b) A partition or plate in a valve-chest having one or more ports controlled, as to opening and closure, by a cut-off valve.—Cut-off rings, a metal ring with a number of holes around its periphery, placed in the steam-chest of a turbine and used to regulate the amount of steam valve to ent off steam from the back of the main steam-valve to ent off steam from the back of the main steam-valve to ent off steam from the back of the main steam-valve to ent off steam the course of a stream is straightened to facilitate log-driving.—9. The practice of stopping or cutting off the admission of motor-fluid,

tally) and filling in with the excavated earth cut-over (kut'ō"ver), r. t. In cricket, to injure cutting-frame (kut'ing-fram), n. when the cut has been properly lined and (the batsman) by striking him in vulnerable frame, with a trough and a spinor parts: said of the ball.

cut-shot (kut'shot), n. A blast-hole designed cutting-grass (kut'ing-gras), n. Same as cutto break coal which has been opened on one side by shearing with a pick or otherwise. [Scotch.]

cuttaçoo (kut'a-kö), n. [Jamaica,] In Jamaica a small bag made of basketry, carried attached to a belt or shoulder-band and used for carry-

ing tobacco and trinkets.

cuttage (kut'āj), n. [cut + -age.] The practice or process of multiplying plants by means of cuttings or severed parts.

cuttanee (kut'a-nē), n. [Hind. Pers. *kattanī, < Hind. katān, line linen (Fallon), kattān, waste selvage of silk (Yule, 1903), Pers. Ar. kattān, linen.] A stuff of silk, or of silk and cotton, at one time imported into Europe from the

revenue marine which is known as the revenuerevenue marine which is known as the revenue-cutter service.—Albany cutter, a style of sleigh first built by James Goold in Albany, New York. Its characteristic features are a light bent-wood frame for the body, well-curved panels, and full-sweep outlines. An enlarged size has seat-room for four or six passengers.—Ensilage cutter. See **ensilage.—Formed cutter, a cutter made of a special form to adapt it to particular kinds of work. It is made in a great variety of forms to which special mames are given, as *twist-drill cutter, grooring-cutter, angular, spiral, convex, volute cutter, etc.—Lever cutter, a small machine which has a feed-table on which has a pivoted knife operated by a hand-lever. Larger machines employ revolving knives operated by means of a hand-crank.

cutter-brig (kut'er-brig), n. A square-rigged vessel with a fore-and-aft mainsail and a jigger-mast.

cutter-built (kut'er-bilt), a. Built on the lines of a cutter.

cutter-gig (kut'ér-gig), n. A ship's boat between a cutter and a gig in build and size.

cutter-rigged (kut'ér-rigd), a. Rigged like a cutter. See eutter, 3 (b). cutter-spindle (kut'ér-spin"dl), n. A revolving head or spindle to which cutting-blades

can be attached.

cutter-yacht (kut'er-yot), n. A deep-draught comparatively narrow-beamed vessel rigged as a cutter.

Cutthroat finch. See *finch1.

Cutting, n. 9. A process in bookbinding. After gluing, rounding, and backing, the edges are cut in a special machine. Cutting is one of the secondary processes included in the general term forwarding. See forwarding, n., 2.—Accretion cutting. Same as *accretion thinning.—Clean cutting, in forestry: (a) The cutting of the entire stand. (b) An area upon which the entire stand has been cut.—Cutting series, in forestry, a block, or a part of a block, containing even-aged stands whose ages differ uniformly within given limits and which are to be cut in turn, the cuttings usually following a given direction. A perfect cutting series seldom exists, except under the clean-cutting method followed by artificial reproduction, or under the sprout method.—Preparatory cuttings. See stand *method.—Regeneration cuttings. See reproduction **eutting.—Removal cuttings. See stand *method.—Rependuction cutting in forestry, any cutting which is intended to invite or assist reproduction.—Seed cuttings. See stand *method.—Severance cutting, in forestry, the cutting of all trees upon a narrow strip before natural pruning has far advanced, in order that the trees bordering this strip may, as the result of partial exposure, become wind-firm through the development of strong roots. ing this strip may, as the result of partial exposure, become wind-firm through the development of strong roots.

cutting-almond (kut "ing - a' mond), n. The American feverfew or prairie-dock, Parthenium integrifolium, a stout composite plant with numerous small white-flowered heads in dense terminal corymbs: found from Maryland to Minnesota and south to Georgia and Texas. cutting-back (kut"ing-bak'), n. The heading-

in of shoots or plants by cutting the leading shoots off at the ends.

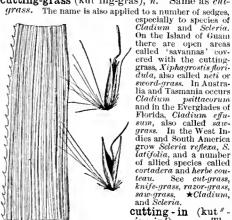
shoots off at the ends. cutting-bed (kut'ing-bed), n. A bed or plot of sandy soil for propagating plants. The enttings of currant, privet, or other shrubs or trees are set in the bed in the spring or fall and allowed to stant for one growing season, when they may be removed from it for sale or permanent planting. In a greenhouse a shallow box of wood or slate placed over the hot-water or steam pipes and filled with sand is used as a propagating-bed for such plants as the geranium, verbena, etc. cutting-cylinder (kut'ing-sil'un-dèr) n. The

cutting-cylinder (kut'ing-sil"in-der), n. The cylinder with a knife-attachment which cuts the roll of paper printed on a web-press into sheets of proper length.

cutting-die (kut'ing-dī), n. A simple die for cutting out the blanks used in making tinware and other sheet-metal objects.

cutting-engine (kut'ing-en*jin), n. A machine for cutting gear-teeth or ratchet-wheels. It has an indexing device to divide a circumference into aliquot or equal parts.

A wooden frame, with a trough and a spindle, in which are placed the wheels used in glass-cutting.



Cutting-grass (Xiphagrostis floridula),

dula, also called neti or sword-grass. In Austraha and Tasmania occurs
Cladium psittacorum
and in the Everglades of
Florida, Cladium efusum, also called savgrass. In the West Indies and South America
grow Scleria reflexa, S.
Latifolia, and a number
of allied species called
cortadera and herbe couteau. See cut-grass,
knife-grass, razor-grass,
saw-grass, *Cladium,
and Scleria. saw-grass, and Scleria.

cutting - in (kut "ing-in'), n. The
process of shorten-Portion of leaf-blade showing cuttinging the growth of teeth; spikelets. All magnified.

teeth; spikelets. All magnified. plants or of reducing their size by cutting the leading shoots in two. Often called *eutting-buck (which see). cutting-liquor (kut'ing-lik"or), n. In ealico-printing, a chemically prepared liquor for dis-charging (or cutting), in spots, a color that is printed on the cloth, in order to produce a pattern. G. Duerr, Bleaching and Calico-printing, p. 45.

cutting-machine (kut'ing-ma-shēn"), n. apparatus, used by cracker-bakers, for cutting a sheet of sponge or water dough into crackers. Sometimes called peeling-machine.

cutting-pot (kut'ing-pot), n. A shallow earthenware pot filled with sand and used as a small propagating-bed in a window or green-

cutting-press, n.—Armature-disk cutting-press, a press employing a gang of dies which punch the blank circular armature and make all the perforations, key-slots, and notches at once. Other machines cut segments of armature-disks, cutting, perforating, and notching at one stroke. Sec *notching-press.

cutting-shop (kut'ing-shop), n. An establish-

cutting-shop (kut'ing-shop), n. An establishment in which flint-glass is decorated by the process of cutting or grinding.
cutting-tool (kut'ing-töl), n. A tool with a sharp edge intended or adapted for cutting, as distinguished from a boring-, piereing-, planing-, riving-, sawing-, or other tool.
cutting-wire (kut'ing-wir), n. In eeram., a piece of fine brass wire, a foot or more in length to each end of which a small rivee of

length, to each end of which a small piece of wood or other object is attached as a handle: used by potters for cutting the plastic vessel from the wheel-head. See archetto.

cuttle⁴ (kut'l), n. [Origin obscure; perhaps orig. a fold made by the use of the back of a knife (see cuttle2).] A fold or plait of cloth, formed when the piece is done up in layers. cuttle⁴ (kut'l), v. t. [See *cuttle⁴, n.] To fold (cloth) in plaits, with the exception of a length at one end, which is wrapped around the plaited

part for convenience in unfolding and showing it.

Cuttle, to fold cloth in the following manner. First, a small portion is doubled, then another upon it (not round it), and so on until it is all doubled up; finally wrap the end, left first or last round all. The reasons for adopting this mode are, that the cloth is supposed to keep best; it is easier to unfold for show purposes; it piles best.

Glossary of the Dialect of Almondbury and Huddersfield, [p. 34. N. E. D.

cuttle-shell. Same as cuttlebone.

cutty-stoup (kut'i-stoup), n. A pewter vessel holding the eighth part of a chopin or quart. Jamieson.

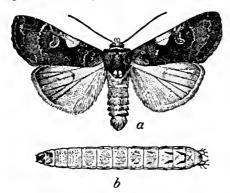
cut-under (kut'un-der), n. A carriage or other vehicle in which the body is cut out in such a way as to allow the front wheels to pass under it in turning; also, the form thus produced. See cut-under buggy, under buggy2.

cut-ups (kut'ups), n. pl. Articles of hosiery, such as stockings, undershirts, etc., cut and shaped out of a web knitted by machinery, and then sewed together and finished by other machines.

It cut-work (kut'werk), n. [eut, n., 13, + work, n.]In typographic printing, the presswork of woodents or their electrotypes, or of illustrations

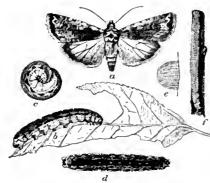
given to ordinary type-work.

Cutworm, n.—Bean cutworm, the larva of an American noctuid moth, Ogdoconta cinercota. It devours the buds and leaves of beans and peas.—Black cutworm, the larva of Nephelodes violans.—Climbing cutworm, any one of several different eutworms which, climb trees and plants at night to feed on foliage or fruit; notably and specifically, the larva of Euxoa seandens.—Clover extra worm, the larva of a noctuid moth, Mamestra trifolii, which feeds on the bolls and squares of cotton in the larva of an American noctuid moth, Prodenia ornithogalli, which feeds on the bolls and squares of cotton in the same way as does the boll-worm. Dark-sided cutworm, the larva of an American noctuid moth, Euxoa messoria.—Dingy entworm, the larva of Feltia subgothica.—Granulated cutworm, the larva of an American noctuid moth, Agrotis ypsilon.—Pretty entworm, the larva of Mamestra legitima.—Shagreened cutworm, the larva of Mamestra legitima.—Speckled cutworm, the larva of Mamestra subjuncta.



Spotted Cutworm (Noctua c-nigrum) a, moth; b, larva, somewhat enlarged

—Spotted entworm, the larva of an American noctuid moth, Noctua c-nigrum, which damages grains, grasses, and other crops.—Striped cutworm, the larva of an American noctuid moth, Feltia jaculifera, a species of eastern distribution.—Variegated cutworm, the larva of an American noctuid moth, Peridromia saucia, which



Variegated Cutworm (Peridremia saucia). a, moth; b, c, d, larvae; e, egg; f, egg mass on twig, All reduced except e, highly magnified. (After Howard, U. S. D. A.)

damages crops of nearly all kinds, including garden and field crops, also fruit-trees, greenhouse plants, etc.—
Western striped cutworm, the larva of an American noctuid moth. Feltia herillis, a species of western distribution.—W-marked cutworm, the larva of an American noctuid moth, Noctua elandestina.

cuvenant, n. and v. A simplified spelling of corenunt.

cuver, cuverd, cuvering. Simplified spellings of cover, covered, covering.

cuverlet, n. A simplified spelling of coverlet. cuvetous, a. A simplified spelling of coretous. cuvette, n. 4. In photog., a narrow vessel of glass, porcelain, vulcanite, etc., for holding silver nitrate or other solutions: it is placed vertically or at an angle, and into it the photographic plate is dipped. Wilson, Cyc. of Photog., p. 107.

cuvey, n. A simplified spelling of covey.
Cuvier, canal of. Same as ductus Cuvieri.
Cnyahoga shale. See *shale2.
Cuzco corn. See *corn1.

cuzen, cuzenage. Simplified spellings of cozen,

cuzin, n. A simplified spelling of cousin. C. V. An a An abbreviation of Common Version (of

C. V. O. An abbreviation of Commander of the Royal Victorian Order.

cwm (köm), n. [W. cwm, a valley, comb: see

of any kind, that requires more skill than that comb3, coomb2.] A round valley-head inclosed on all sides but one by steep slopes; a corrie; a cirque. The typical ewms of the Welsh moun-

cyameluric (sī'a-me-lū'rik), a. [cyamel(lone) + -wic.] Noting a tribasic acid, C₆H₃O₃N₇ + 2½H₂O, whose potassium salt is formed when the potassium salt of cyamellone is boiled with a solution of potassium hydroxid. cyanacetic (sī"an-a-set'ik), a. [cyan(ogen) + acetic.] Derived from chloracetic acid and potassium eyanide.— **cyanacetic acid**, a crystalline acid, CH₂(CN)CO₂H, whose potassium salt is formed by the action of a solution of potassium cyanide on chloracetic acid. It melts at 55° C.

cyananiline (sī-an-an'i-lin), n. [cyan(ogen) + aniline.] A crystalline base, NH:C-NHC₆l1₅

 $\mathrm{NH:C\text{-}NHC_6II_5}$

formed by the action of cyanogen on aniline. It melts at 210-220° C.

cyanephidrosis (sî-a-nef-id-rō'sis), n. [Gr. κύανος, blne, + εφιδρωσις, superficial perspira-tion.] Blue sweat, a form of chromidrosis.

cyanescent (si-a-nes'ent), a. [cyan(cons) + escent.] Tending to a cyaneous or dark bluish color.

cyanethine (sī-an'e-thin), n. [cyan(ide) + eth(yl) + $-ine^2$.] A compound, $C_9H_{15}N_{3}$. which occurs when ethyl cyanide is treated with potassium.

cyanformic (si-an-fôr'mik), a. [Irreg. ⟨
cyan(ogen) + formic.] Same as *cyanoformic. cyanhematin (si-an-hem'a-tin), n. [Irreg. $\langle cyan(ogen) + hematin.$] A supposed compound of cyanogen and hematin.

cyanhemoglobin (sī-an-hem-ō-glō'bin), n. [Also cyanhæmoglobin; irreg. < cyan(ogen) + hemoglobin.] A compound of hydrocyanic acid with hemoglobin.

with hemoglobin.

cyanhydrate (sī-an-hī'drāt), n. [cyan(ogen) + hydr(ogen) + -ate².] Same as *cyanhydrin.

cyanhydrin (sī-an-hī'drīn), n. [cyan(ogen) + hydr(ogen) + -in².] A compound, RC(OH)

CN.H or R-C(OH)CN.R', containing a hydroxyl and a cyanogen group. The cyanhydrins are usually prepared by the addition of hydrocyanic acid to an aldehyde or ketone. cyanic, a. 3. Samo as cyanotic.

cyanic, a. 3. Samo as cyanotic.

cyanide, n.—Alkaline cyanide, a compound of cyanogen and an alkali metal.—Cyanide of cacodyl. See *cacodyl.—Cyanide process, an important process of modern metallurgy, in which a dilute solution of an alkaline cyanide, aided by the action of atmospheric oxygen, serves to dissolve metallic gold existing in a very finely divided condition in rock: the gold is recovered from the solution by precipitation on metallic zinc. The process is especially valuable in the treatment of poor but abundant ores of gold, as in South Africa, and of tailings from other methods of treatment.—Platinobarium cyanide, Same as *harium platinocyanide, or platinum *baricyanide - Potassium cyanide. Much of the salt sold under this name is in reality a mixture of two thirds potassium cyanide and one third sodium cyanide, this mixture serving quite well for all of its usual applications in the arts. In two respects these alkaline cyanides have recently commanded special attention, first on account of their use on a very large scale for the extraction of gold from rocks containing the precious metal in such small proportion as not to admit of profitable working in any other way, and secondly on account of the electric furnace, the nitrogen of the air for the production on the a scale of the cyanides themselves. See *cyanide process.

cyanide (si a-nid or -nid), r. t.; pret. and pp.

elves. See *cyanide process.

cyanide (si'a-nid or -nid), r. t.; pret. and pp. cyanided, ppr. cyaniding. [cyanide, n.] To treat an ore with a weak solution of an alkaline eyanide, as in the cyanide process for tho

extraction of gold. See *cyanide process for the extraction of gold. See *cyanide process.

cyanilic (si-a-nil'ik), a. [cyan(agen) + -it + -ic.] Noting a crystalline acid, C₃H₃O₃N₃ + 2H₂O, obtained by boiling mellone with nitric acid. It is isomeric with cyanuric acid but is more easily soluble.

cyanimide (sī-an'i-mid). n. [cyan(ogen) eyanimide (sī-an'i-mid). n. [eyan(oyen)] from urine.

— Calcium cyanimide. Same as **colcium cyanamide. cyanurtriamide (sī'a-nūr-trī-am'id), n. See eyanine, n. 2. In chem., a beautiful blue dye, *cyanuramide.

chinoline blue, prepared by acting on a mix- cyaphenin (sī-af'e-nin), n. [cya(nate) + ture of chinoline and lepidine with amyl iodide. $phen(yl) + -in^2$.] A crystalline compound, cyanine, n. 2. In chem., a beautiful blue dye, chinoline blue, prepared by acting on a mix-ture of chinoline and lepidine with amyliodide.

Unfortunately it does not resist the action of light, and hence has lost its importance as a dyestuff, but it is used in making orthochromatic plates for photography.—Alizarin eyanine, a name applied to several mordant dyestuffs derived from anthraquinone, which produce greenish blues. They are chiefly tetra- or penta-hydroxy-anthraquinones.—Brilliant alizarin cyanine G and 3G, mordant coal-tar colors, similar to alizarin blue. Cyanine B, an acid coal-tar color prepared by oxidizing patent blue. It dyes wool and silk, in an acid bath, a blue resembling indigo. patent blue. It dyes blue resembling indigo.

cyanitic (sī-a-nit'ik), a. [cyanite + -ic.] Pertaining to or containing evanite.

cyanmethemoglobin (si"an-meth"em-ō-glō'-bin), n. [cyan(ogen) + methemoglobin.] A compound of methemoglobin with hydroeyanic acid.

cyano (si'a-nō), n. [Detached from cyanogen.] The radical CNO contained in cyanic acid.

cyanochroite (sī-a-nok'rō-īt), n. [Gr. $\kappa \iota a \nu o \varsigma$, blue, $+ \chi \rho o \dot{\sigma}$, color, $+ -i t e^2$.] A hydrous sulphate of copper and potassium occurring in bright-blue crystalline crusts, found in Vesuvian lavas after the cruption of 1855.

cyanocrystallin ($\sin^n a$ -no-kris'ta-lin), n. [Gr. κi -avec, blue, $+ \kappa \rho i \sigma \tau a \lambda / o c$, crystal, $+ -i n^2$.] A bluish pigment found in the eggs and carapace of the river erab and the lobster.

cyanoform (si-an'ō-fōrm), n. [cyan(ide) + (chloro)form.] A crystalline compound, CH(CN)₃, formed by the action of potassium evanide on chloroform,

cyanoformic (si a-nō-fôr'mik), a. [cyano(yen) + formic 1 Soo The following + formic. See the following phrase.—Cyanoformic acid, a hypothetical acid, CN.CO₂H, known only in the form of its esters, which are prepared by the dehydration of esters of oxamic acid.

cyanogenetic (sī"a-nō-jē-net'ik), a. [cyano-(gen) + -genetic, < -genesis: see genetic.] Giving rise to eyanogen. The poisonous properties of certain fodder-plants and food-grains are referable to cyanogenetic glucosides which occur in the young plants but gradually disappear as the seeds ripen.

Besides louisin and dhurrin, the glucosides we have isolated from young plants of Lotus arabicus and Sorghum vulgare respectively, only one other cyanogenetic glucoside is definitely known.

Philos. Trans. Roy. Soc. (London), Ser. a, 1902 p., 409.

cyanomaclurin (si*a-nō-ma-klö'rin), n. [Gr. κὐανος, blue, + E. maclurin.] A compound, C₁₅H₁₄O₆, closely related to the catechins and found in the jack-wood, Artocarpus integrifolia. cyanometric (sī "a-nō-met'rik), a. [cyanometer + -ic.] Pertaining to or measured by the cyanometer.

cyanophilic (sī-a-nō-fil'ik), a. [Gr. κίανος, blue, + φίλος, loving, + -ic.] Same as *eyablue, $+ \phi i$ nophilous.

cyanophilous (sī"a-nof'i-lus), a. [Gr. κὐανος, blue, + φίλος, loving, + -ous.] In cytol., having the capacity of readily staining in blue or green dyes: said of cells and tissues: opposed to erythrophilous.

cyanophycean ($si''a-n\bar{o}-fi's\bar{e}-an$), a. and n. I. Same as *eyanophyceous

II. n. An alga of the Cyanophyceæ. Glojoconis, found by Renault in a coprolite of Permian age, is regarded by him as a Cyanophycean allied to Glæ-ocapsa. Encyc. Brit., XXXI. 409.

cyanophyceous (sī"a-no-fī'se-us), a. In bot., of or pertaining to the Cyanophycese, or bluegreen algæ.

cyanopia (sī-a-nō'pi-a), n. [NL., ⟨Gr. κίανος, blue, + ωψ (ωπ-), eye.] Blue vision; a morbid condition in which objects appear to have a bluish tinge

cyanoplatinite (sī″a-nō-plat'i-nīt), n. [cyano-(gen) + platin-um + -ite².] Same as *platino-cyanide.

cyanoplatinous (sī "a - nō - plat 'i - nns), a. [cyano(gen) + platin-um + -ous.] Same as *platinocyanic.—Cyanoplatinous acid. Same as *platinocyanic acid. cyanoplatinous

cyanosine (sī-an'ō-sin), n. [Gr. κύμνος, blue, + -ose + -in².] A coal-tar color of the xanthene type, made by methylating phloxin. It dyes wood a bluish pink or red in an acid bath. It is only alightly soluble in water, but dissolves readily in alcohol.

cyanuramide (sī/a-nū-ram'id), n. [cyanur-ic + amide.] An amide of cyanuric acid; especially melamine, $(\text{CNNH}_2)_3$, which is more properly called cyanurtriamide.

cyanurenic, a. Same as cyanuric. cyanurin (si-a-nū'rin), n. [Gr. κύανος, blue, + οἰροτ, urine, + -in².] Indigo-blue obtained from urine.

 $(\mathrm{C_6H_5CN})_3, \ \mathrm{formed} \ \mathrm{when} \ \mathrm{potassium} \ \mathrm{cyanate}$ is heated with benzoyl chlorid. It melts at 233° C

Cyathaspis (sī-a-thas'pis), n. [NL., (Gr. κίαθος, a cup, + ασπίς, a shield.] A genus of extinct ostracoderm fishes, known from its dorsal shield and rostral plate: found in the Upper Silurian rocks.

Cyatheaceæ (sī-ath-ē-ā'sē-ē), n. pl. [NL., Cyathea + -accæ.] One of the seven coördinate families of homosporous leptosporangiate Filicales, or true ferus, typified by the genus Filicates, or true terus, typined by the genus Cyathea. The species, which are mainly arborescent and are commonly known as the tree-ferns, are associated within about 10 genera, under 3 trilies, namely, Cyathea, Thrysopteridea, and Dicksoniea. The sporangia, which are either sessile or short-staked, are provided with a complete annulus extending obliquely over the apex of the capsule, and are aggregated in dense soil borne upon mostly elevated receptacles. There are more than 250 species, mainly tropical, and divided about evenly between the eastern and western hemispheres.

the eastern and western hemispheres.

Cyatheæ (sī-ath'ē-ē), n. pl. [NL., < Cyathca + -cæ.] One of the three tribes constituting the family Cyatheuccæ. The sori are borne dorsally upon the simple veinlets or at their forking; the indusia are globose, cyathiform, scale-like, or (in Alsophila, wanting. The principal genera are Cyathea, Hemitelia and Alsophila, embracing many of the most heautiful tree-ferns.

cyathocrinoid (sī-a-thok'ri-noid), n. and a. n. A crinoid allied to Cyathocrinus.

II. a. Pertaining to Cyathocrinus.
 cyathometer (sī-a-thom'e-ter), n. [Gr. κίαθος, eup, + μέτρον, measure.] An instrument designed to detect any tampering with liquids in

bottles, vals, or other receptacles. It indicates how much of the liquid has been withdrawn and if thereafter any has been added. Sci. Amer. Sup., Nov. 22, 1902, p. 22,481. cyathophyllid (sī-a-thō-fil'id), n. and a. I. n.

A member of the family Cyathophyllidic.

II. a. Pertaining to or having the characters

of the fossil coral family Cyathophyllidæ. Cyathophylloidea (siⁿa-thō-fil-lḍ-id'ō-ii), n. pl. [NL., ζ Gr. κίαθος, cup, + φίνλον, leaf, + είνλος, form.] A Paleozoic section of rugose corals having the peripheral region of the visceral chamber extensively occupied by vesicular dissepimental tissue whose lenticular cells are directed obliquely downward: not generally

recognized. Cybele, n. 3. [NL. (Salisbury, 1809), \langle L. Cybele, \langle Gr. Κυβέλη, Cybele, a Greek goddess. The summit of the flower before expanding resembles the crown which Cybele is conventionally represented as wearing.] A genus of dicotyledonous plants of the family *Proteaccæ*.

See Stenocarpus.
cycad, n. 2. A fossil cycadeau trunk belonging to either of the genera Cycadcoidca or Bennettites.

A Famous Fossil Cycad. Amer. Jour. Sci., July, 1904, [p. 40.

cycadean (sī-kā'dē-an), a. [cycad + -can.] Same as cycudaceous; also specifically and commonly applied to fossil trunks of the family Bennettitaccæ.

In no case, however, had the fructification of any Fern-Cycad been definitely recognised, hence it remained an open question whether the Cycadean advance which was so marked a feature of the vegetative organs found its counterpart in the reproductive process.

Nature, June 4, 1903, p. 113.

Cycadeoidea (sī-kā-de-oi'dē-ā), n. [NL. (Buckland, 1828), < Cycas (Cycad-) + -oidea (see -oidea, -oideus, -oid).] A large genus of fossil cycadean trunks of the family Beanctitiaceæ, characterized by an axis consisting of a large characterized by an axis consisting of a large medulla or pith, a woody zone usually of three exogenous layers or rings, and a very thick false bark or armor (see *armor) in which the reproductive organs are buried. These in which seeds have been found have been called *Bennettites (which see). These trunks are abundant in the quarries of the 1ste of Portland, where they are popularly called crow's-nexts from the cavity at the summit caused by the loss of the terminal bud. Great numbers occur in Mesozoic strata in Italy and in the United States.

cycadeous (sik-ā'dē-us), a. Same as *cyca-

cycadite (sik'a-dīt), n. [cycad + -ite2.] A fos-

Cycadofilices (sik a-dr.), n. [cycad.]
Cycadofilices (sik'a-dō-fil'i-sōz), n. pl. [NL. (Potonié, 1897), \(\ceit{Cycad}\) (Cycad-) + L. filices, pl. of filir, fern]. A group of extinct plants, all Paleezoic so far as is known, having the systematic rank of a phylum, coordinate with the Pteridophyta and the Spermatophyta and intermediate between these in having the outward appearance of ferns but bearing true seeds. The name Pteridaspermaphyta has been proposed as better expressing these relations. The group was originally founded on features of the internal struc-ture of these plants which were incompatible with their classification as ferns. The discovery of seeds was subsequent and the group now includes many genera not pri-marily included in it.

cycadofilicinean (sik "a-dō-fil-i-sin'i-an), a. [Cycadofilices + -inc1 + -e-an.] Relating or belonging to the Cycadofilices. [A bad form.]

It is impossible to do more than to point to a few indications afforded by external and, to a slight extent, by internal structure, of the survival of Cycadofilicinean types.

Encyc. Brit., XXXI. 425.

cyclad (sī'klad), n. [NL. Cyclas (cyclad-).] A fresh-water mollusk of the genus Cyclas, or of the family Cycladidæ.

cyclamen, n.—Wild cyclamen, in bot., in California, any species of the genus Dodecatheon; the shooting-star. Parsons and Buck, Wild Flowers of California.

cyclamen² (sik'la-men), n. Same as *cycla-

cyclamin, n. 2. A coal-tar color of the xanthene type. It dyes wool and silk bluish red in a neutral bath. Also spelled cyclamen and

cyclamiretin (sik la-mi-re'tin), n. [Cyclami(n) + Gr. $\rho\eta\tau\nu\eta$, resin.] A white amorphous compound, $C_{14}H_{18}O_{2}$, obtained by the hydrolysis of the glucoside cyclamin.

cyclamose (sik'la-mōs), n. [Cyclam(in) + -osc.]
A levorotatory sugar, C₁₂H₂₂O₁₁, found in the roots of Cyclamon Europaum.

Cyclanthaceæ (sik-lan-thā sē-ē), n. pl. [NL. (Lindley, IS36), < Cyclanthus + -aceæ.] A family of monocotyledonous plants typified by the genus Cyclanthus. They hear some resemblance to both palms and screw-pines, but have the monuccious flowers arranged in dense alternating spirals or whorls around a thick succulent spadix. The family includes 6 genera and 44 species, all natives of tropical America. The largest and most important genus is Carludovica (which see (which see).

cyclanthaceous (sik-lan-thā'shius), a. clanthaceæ + -ous.] Belonging to the plant family Cyclanthaceæ.

cyclar (sik'lär), a. Same as cyclic.

cycle¹, n. 10. In clect., the time of one complete wave, or double reversal, of alternating currents. Frequencies are usually denoted in eyeles per second. See *alternating.—11. In chem., same as *ring, n. 18.—12. In mech., a succession of conditions, operations, or phases which follow each other in a determinate order; specifically, in gas or internal-combustion motors, the successive changes experienced by the mixture of fuel and air in the motor cylinder. In the cycle proposed by Bean de Rochas, now hetter known as the *Otto cycle*, the mixture of fuel and air is drawn into the cylinder by an aspirating stroke of the piston and the mixture is compressed by the return of the piston; then this compressed mixture is ignited by of the piston; then this compressed my the return of the piston; then this compressed mixture is ignited by an electric spark, or other means, and the expansion due to the heating of the air by the combustion of the gas causes a rise in pressure and exerts the forward effort on the piston during the second outward stroke; during this increase of volume the pressure is lowered. On the second return stroke, the exhaust-valve is opened and the burned gases are expelled during this fourth traverse. Then the cycle repeats itself. This cycle may be realized in one cylinder, or aspiration and compression may be done in one cylinder, and the working-stroke and following exhaust take place in another; or, in the two-phase cycle, or two-cycle motor, the intake or aspiration phase may take place just at the end of the working-stroke, the exhaust not occupying the time of a piston traverse. This makes one working-stroke for each complete revolution of the crank. The cycles may differ in having the compression and expansion isothermal or adiabatic, the compression may he omitted, although efficiency is increased by retaining it. The cycle of the gas-mixture should not be confounded with the mechanical arrangements for realizing and utilizing it. realizing and utilizing it.

Their three-quarter actual horse-power motor, which is of the two cycle compression type, having an impulse at each revolution and is reversible.

Hiscar, Horseless Vehicles, p. 163.

It thus takes four strokes or two revolutions of the shaft to complete the Otto cycle, the cylinder being used alternately as a pump and a motor, and the engine, when working at full load, thus gives one impulse for every two revolutions.

Encyc. Brit., XXVIII. 184.

13. In math.: (a) In geom., a closed path in a nultiply connected region. (b) In function-theory, the set of homologous corners of a given region (in substitution-groups).—14. In meteor., the repetition of some general atmospheric phenomenon at approximately atmospheric phenomenon at approximately regular intervals. The more prominent cycles are the 35-year period, deduced by Bruckner; the sun-spot period, which varies between seven and thirteen years following the sun-spots; the 26.6 day period, deduced by Professor F. II. Bigelow; the lunsr or tidal periods, the existence of which has been asserted by many persons but which are still uncertain; a 7-year period in the rathfall of Illinois, announced by Dr. Cyrus Thomas; the geological periods of indefinite and irregular extent, disensed by many geologists; the sun-spot period in the

tropical temperatures combined with a retardation further away from the equator, as deduced by Koeppen; the annual temperature wave carried slowly from the tropics to the polar regions by the ocean current or surface drift; and the dismand and annual periods, carried from the surface of them and adminal periods, carried from the surface of them and downward by the conduction of heat through the ground—Amostrous cycle. See **ance**.—Aserual cycle. See **exual **cycle.—Altomobile cycle, a form of motor-driven bicycle; a motor-vice.—Calippic cycle. Sunce see **exual **cycle.—Aserual cycle. See **exual **cycle.—Calippic cycle. Canicular cycle. See **exual **cycle.—Calippic cycle. This cycle all parts of the engine are assumeninghe. In this cycle all parts of the engine are assumeninghe. In this cycle all parts of the engine are assumeninghe. In this cycle all parts of the engine are assumeninghe. In this cycle all parts of the engine are assumeninghe. In this cycle all parts of the engine are assumeninghe. In this cycle all parts of the engine are assumeninghe. In this cycle all parts of the engine are assumeninghed to be parts of the engine and temperature. The steam is supplied to the cylinder and temperature. The steam is supplied to the cylinder and the cycle of the back-pressure. Then the return-stroke of the parts of the parts of the cycle of cycle, a complete cycle of cycle of cycle of eccurrence of these same conditions at the end of the cycle.—Yele of eclipses. See sarros.—Cycle of erconditions, the cycle of eccurrence of the cyc

The glomerular parasite . . . may represent the schizo-genic or Eimerian cycle of the species and as such may antedate the whole sporogenic cycle of the tubules. Jour. Exper. Med., VI. 310.

Sexual eyele, in biol., that form or generation of animals and plants in which they spring from an ovum or female gametocyte, as distinguished from the asexual cycle, or generation which arises by budding or fission of the parent organism. The sexual and asexual cycles alternate in the so-called 'alternation of generations.'—

Sporogenic cycle, the resting or spore stage in the lifehistory of certain animal parasites. See schizogenic **cycle*.

cycle-horn (sī'kl-hôrn), n. Au alarm signal for use on bicycles, usually blown by compressing a rubber bulb which forces air through a reed at the smaller end of the born-tube.

cycle-path (si'kl-path), n. A path for bicycles. The cycle tax consequently has been devoted, first, to the construction of *cycle-paths*, on which wheelmen have equal rights with pedestrians.

Encyc. Brit., XXVII, 328.

cycleway (sī'kl-wā), n. An elevated roadway for the special use of bicycles, motor-cycles, etc.: as, the cycleway between Pasadena and Los Angeles, California.

Cycliæ(sik'li-ē), n. pl. [NL., < Gr. κύκλος, cirele.] An order of fossil marsipobranchiate fishes found in the Lower Devonian, interesting on

account of its high development.

cyclic, a. 4. In chem., containing a cycle or ring. -5. In bot., arranged in whorls: said of the stamens, petals, etc., in a flower; also, having the parts so arranged: said of the flower; cyclical. In composition used in this sense and also with reference to the annual course or cycle of plant-life. See monocyclic, and *\$3, bicyclic1, pentacytic, **Adicyclic, and **pleicyclic.**
6. In geom., having its vertices all on the same circle: thus, if a quadrilateral has its vertices. eoncyclic it is cyclic.- Cyclic albuminuria. See

albuminuria.—Cyclic compounds. Same as **ring compounds or closed **chain compounds.**—Cyclic constant. See **constant.*—Cyclic hydrocarbon, a hydrocarbon containing a closed chain or ring of carbon atoms.*—Cyclic permutation. Same as excital permutation.

Cyclical form, in music, a method or pattern of composition in which a principal theme or passage recurs at intervals without substantial change: used especially of rondos and sometimes of songs in which successive stanzas are treated alike. See **strophic, 2.

cyclically (sik'li-kal-i), adv. In a manner such that a cycle or series of cycles occurs: said of

that a cycle or series of cycles occurs; said of certain periodic changes as of temperature or pressure in which the varying conditions are repeated and follow each other in the same order.

cyclicism (sik'li-sizm), n. [cyclic + -ism.] The custom or system of reckoning days or years by

cyclicotomy (sik-li-kot'ō-mi), n. [Gr. κυκλικός, circular, + -τομια, ζ ταμείν, cut.] An operation for dividing the ciliary body of the eye. Syd.

Soc. Lex.

cyclide, n.— Darboux's cyclide, a point surface represented by any equation of the second degree k (a, b, c, d, e) = 0, taken in connection with the relation b2 + c2 + d2 - ae = 0. From the point of view of ordinary projective geometry, the cyclide is a surface of the fourth order containing the imaginary circle common to all spheres of space as a double curve.—Duplin's cyclide. Same as cyclide. cyclism (sik'lizm), n. [cycle + -ism.] The use of the bicycle or tricycle as a means of transportation or for health or pleasure.

portation or for health or pleasure.

portation or for nearm or preasure.

Military cyclism wants no undue praise.

Saturday Rev., Aug. 2, 1890, p. 136.

cyclocentric (sī-klō-sen'trik), a. [Gr. κίκλος,

Having the circle, $+ \kappa i \nu \tau \rho \sigma \nu$, center, + -ic.] Having the starting-point of the spiral at a little distance from the center, so that the first whorl runs around it, as in the shells of certain mollusks. Syd. Soc. Lex.

cyclocephalian (sī 'klō-se-fā' lian), a. Same as cyclocephalic.

Cycloceras (si-klos'e-ras), n. [Gr. κικλος, circle, + κέρας, horn.] A genus of Palcozoic nautiloid cephalopods with slightly curved shells bearing annuli and longitudinal ridges.

cycloceratitis (si'klō-ser-a-ti'tis), n. [NL., Gr. κίκλος, circle, + κέρος (κερατ-), horn, + -itis.] Inflammation of the cornea and ciliary body. Cycloconium (si-klō-kō'ni-um), n. [NL. (Čas-

Cycloconium (si-klō-kō'ni-um), n. [NL. (Častagne, 1845), < Gr. κίκλος, circle, + κόνις, dust (see conidi-

um).] A geehotomously branched black hyphæ growing in the epider-

Soc. Lex.



Cycloconium oleaginum.

the distribution of epidermis of an olive is showing the mycelum in the cuticle, and erect comida, greatly magnified. (Drawn Burgler and Pranti's "Pflanzenfamilieu.)

mis of the host and producing two-celled darkcolored conidia. The single species, C. oleagnum, is parasitic on leaves of the olive in Europe and California, causing a disease called scab. See *scab of olive.

Cyclodonta (si-klō-don'tā), n. [NL., ⟨ Gr. κυκός, eircle, + οδοίς (οδοντ-), tooth.] A division of the relevand mellusia alternativasides.

sion of the pelecypod mollusks characterized by the extreme torsion of their dentition. which curves out from under the beaks and is not set upon a flat hinge-plate.

cyclogenous (si-kloj'e-nus), a. [cyclogen + rous.] Of the nature of a cyclogen; exogenous. Syd. Soc. Lex. [Not used.]

cyclograph, n. 2. The name given to a machine, invented by A. H. Smith of the British

Museum, for photographing Greek vases. The vase to be photographed rotates while traveling along the circumference of a circle having its center at the center of the lens .- 3. A special form of camera for obtaining panoramic views .- 4. An apparatus for automatically making a topographical record of the ground making a topographical record of the ground traversed during a journey. As now manufactured it is intended for use on a bicycle, and the rider must set the lustrument for direction by the aid of a compass, the remainder of the recording being done automatically.

cyclography (si-klog ra-fi), n. [Gr. κίκλος, circle, + γραρία, ⟨γράρειν, write.] A method for the treatment of geometrical problems by manuscoff similars due to Fiodler 1863. Seignorm.

means of circles: due to Fiedler, 1863. Science, May 2, 1902, p. 713. **cyclohexane** (sī-klō-hek'sān), n. [Gr. κίκλος, eircle, + E. hexane.] A hydrocarbon, C₆H₁₂, found in Russian and in Californian petroleum, and also prepared synthetically. It boils at

cyclohexanol (sī-klō-hek'sa-nōl), n. [cyclohex-ane + -ol.] An alcohol, C₆ll₁₁OH, derived from cyclohexane. It boils at 160.5° C.

cyclohexanone (sī-klō-hek'sa-nōn), n. [cyclohexanc + -onc.] A ketone, $C_6H_{10}O$, prepared by oxidizing cyclohexanol. It boils at 154,5°

C. Also called *pimelic ketonc*. culum. cycloid, a. 3. In chem., containing a cycle or cyclone-season (sī'klōn-sē"zn), n. The months ring of atoms: used especially of the structure of organic compounds.

Cycloidal pump. See *pump1.

cycloidally (sī-kloi'dal-i), adr. In a cycloidal manner

manner. **cycloidotrope** (sī-kloi'dō-trōp), n. [Gr. κίκλος, eirele. + είδος. form (see cycloid), + τρόπος, a circle, $+\epsilon i \partial \sigma_c$, form (see cycloid), $+\tau \rho \delta \pi \sigma_c$, a turning.] In photoy... a kind of lantern-slide for projecting the operation of engine-engraving or furning.

cyclolith (sī'klō-lith), n. [Gr. κύκλος, circle, + λίθος, stone.] A prehistoric megalithic stone

circle.

But similar blocks are also found disposed in circular form round the barrows, and they are then known as cycloliths or stone circles.

Keane, Ethnology, p. 130.

cyclomatic (si-klō-mat'ik), a. [NL. *cyclomaticus, < cycloma, a circle: see cycloma. j pertaining to a cycle or cycles.—Cyclomatic number, in *phys.*, a number which denotes how many cycles occur in a given process or are comprised in a diagram.

cyclome (sī'klōm), n. [NL. cycloma, ⟨ Gr. κὐκλωμα, a circle, wheel, coil, ⟨ κὐκλοῦν, make into a circle, ⟨ κὐκλος, circle.] In bot, a ring-mach cushion of anthers. McNab. shaped cushion of anthers. McNab. cyclometrical (sī-klō-met'ri-kal), a.

pertaining to the cyclometer or to cyclometry.

A degree of exactness for cyclometrical operations was ow obtained. Smithsonian Rep., 1890, p. 113.

2. Cyclometric; specifically, pertaining to the rectification of the circumference.

Cyclonal gradient. See *gradient.

2. Cyclometric; specifically, pertaining to the rectification of the circumference.

Cyclonal gradient. See *gradient.

Cyclone, n.—Axis of a cyclone, in meteor., a line which joins the center of a cyclonic whirl at the earth's surface with corresponding centers in the layers of air above. The line is generally inclined to the curth's surface and is rarely a straight line.—Centered cyclone, a theoretic cyclone in which the isobars are circular, the winds are parallel to them, and the whole system is stationary relative to the carth's surface.—Cyclone, note which say the winds are parallel to them, and the whole system is stationary relative to the carth's surface.—Cyclone, note he winds are parallel to them, and the whole system is stationary relative to the carth's surface.—Cyclone, note he winds and the whole system is stationary relative to the carth is surface, and the surface of winds on a weather-map of the whole filluminated hemisphere, on which the departures from normal temperatures, pressures, and winds show a general inflow toward the heated coutral region over which the sun is vertical, thereby constituting a total eclipse of the sun, on which the departures from normal temperatures, pressures, and winds show cyclonic and anti-cyclonic tendencies in the atmosphere around the central shadow.—Ferrel's theory of cyclones, the application to general cyclone motions of the laws governing small local cyclones; especially the assumption that the condensation of vapor in sacending convection-currents is the initial cause and the supporting force of the cyclone.—Folar cyclone, which could center, in which the lower air flows outward but the upper air flows inward.—Primary cyclone, a large area of low pressure having a well-defined system of isobars and rotation of the wind.—Satellite cyclone, a large area of low pressure having a well-defined system of isobars and rotation of the wind.—Satellite cyclone, a large area of low pressure having a well-defined system of isobars and rotation of the wind.—Satellite

ground room used as a refuge on the approach Cyclops, n. 4. [l. c.] A monster having one of a cyclone or tornado in certain western imperfect eye, sometimes showing a fusion of and prairies of the United States. Sometimes called cyclone-pit.

Cyclonema (sī-klō-nē'mā), n. [NL., ⟨ Gr. -in².] A protamin obtained from the testicles κικλος, circle, + νημα, thread.] A genus of of the teleost fish Cyclonetrus lumpus.

Paleozoic gastropods commonly assigned to cycloramic, u.— Cycloramic camera. See *camera.

the family Turbinidæ and including turbinate shells with inflated whorls marked with spiral striæ, rounded aperture, and conical oper-

during which hurricanes, typhoons, or cyclones are most frequent. In India the cyclone-season extends from July to November; in China and Japan from April to November; in the West Indies and the Philippines from August to October.

cycloneurous (si-klō-nū'rus), a. [Gr. κίκλος, eirele, + νεύροι, nerve, + -ous.] Having the principal parts of the nervous system arranged in a circular manner, as certain jellyfishes.

in a cirenlar manner, as certain jellyfishes.

Cyclonic law, the law of the circulation of the winds within a cyclone; specifically, the rule that, in the northern hemisphere, if one stands with his back to the wind, the center of the cyclone bears from 50 to 80 degrees to the left of front or from 10 to 40 degrees in front of the left hand; it will also be more directly to the left of the movement of the lower clouds. In the southern hemisphere the center will be to the right instead of to the left. Originally the cyclonic law assumed a circular motion around a storm-center, but at present it includes the idea of a spiral movement inward with a gradual ascent, and a corresponding outflow and descent above.

Cyclonist (sī'klō-nist), n. [cyclone + -st.] A

cyclonist (sī'klō-nist), n. [cyclone + -1st.] eyclonologist; in a restricted sense, one who advocates the circular theory of cyclones; one who makes too much use of explanations based

on the theory of cyclones.

cyclonograph (sī-klon'ō-graf), n. [cyclone + Gr. γράφειν, write.] A form of dromoscope devised by Viscovich in 1882; an apparatus for drawing cyclonic movements; also, a diagram for exhibiting the circulation of winds around a storm-center.

cyclonologist (sī-klō-nol'o-jist), n. nolog-y + -ist.] A student of eyclonology; one who is wedded to the circular theory of cy-

clones. See cyclonic law.

cyclonology (sī-klō-nol'ō-ji), n. [cyclone + Gr. -λογια, < λέγειν, speak.] The scientific study of $-2\alpha\gamma ia$, $\langle\lambda\dot{\epsilon}\gamma\epsilon\dot{\nu}$, speak.] The scientific study of the winds and other phenomena of cyclones.

cyclopedist, cyclopædist (si-klo-pe'dist), n. [cyclopedia + -ist.] One who contributes to or makes a cyclopedia or encyclopedia.

Cyclopeltis (sī-klō-pel'tis), n. [NL. (John Smith, 1846), < Gr. κικλος, curele, + πέλτη, a shield.] A genus of free-veined polypodiaceous ferns, having the crowded simple pinne narrow, auriculate, and articulated with the rachis, the sori borne in from 1 to 3 rows on either side of the midvein, and the indusia peltate. There are 2 species, C. semicordata, a well-known West Indian plant, and C. Presliana of the Philippine Islands.

cyclopentane (sī-klō-pen'tān), n. [Gr. κίκλος, eirele, + E. pentane.] A synthetic cyclic hydroearbon, C₅H₁₀. It is an oil which boils at 50° C. Also called pentamethylene and R-pentene

cyclophoria (sī-klō-fō'ri-ä), n. [NL., < Gr. κύκλος, circle, + -φορος, ζ φέρειν, carry.] Insufficiency of the oblique muscles of the eye, producing a tendency to rotation about an anteroposterior axis. Med. Record, Feb. 7, 1903,

cyclophoric (si-klō-for'ık), a. Relating to or of the nature of cyclophoria. Optical Jour.,

Aug. 4, 1904, p. 453.

Cyclopia (sī-klō'pi-ā), n. [NL. (Ventenat, 1808), \langle Gr. κίκλος, circle, + $\dot{\omega}\psi(\dot{\omega}\pi)$, eye: see Cyclops. The allusion is to the circular definition of the circular definition of the circular definition of the circular definition. pression of the base of the calyx, around tho pedicel.] A genus of the varya, around the pedicel.] A genus of shrubs of the family Fabaccae. They have small, sessile, trifoliate leaves, and yellow flowers borne singly in their axils. There are about 10 species, all South African. See bush tea, under teal. cyclopic (si-klop'ik), a. [Cyclopia (see def.)]

-ic.] Obtained from a plant of the genus Cyclopia.—Cyclopic acid, a solid yellow scid, C7H8O4, found in the leaves of Cyclopia subternata.

cyclopically (sī-klop'i-kal-i), adr. In the manner of the Cyclopes. See Cyclops, 1, and cyclopic. cyclopiform (si-klop'i-fôrm), a. [L. cyclops (cyclop-), cyclops, + forma, form.] Shaped like a cyclops.

cycloplegic (si-klō-plej'ik), a. and n. I. a. Relating to or of the nature of cycloplegia.

II. n. 1. An agent, such as atropine, which eauses paralysis of the ciliary muscle. Optical Jour., June, 1903, p. 726.—2. A person suffering from eycloplegia.

two, near the middle line.

cyclopterin (si-klop te-rin), n. [Cyclopterus + -in².] A protamin obtained from the testicles of the teleost fish Cyclopterus lumpus.

The existence of cycles is called Cyclosis.

Clerk Maxwell, Electricity and Magnetism, 1, 17.

3. In math., the occurrence of closed paths. Cyclospondyli (si-klō-spon'di-li), n. pl. [Nl., ζ Gr. κικλος, eirele, + σπότδελος, a vertebra.] A suborder of sharks having the calcareous lamellæ of the vertebræ arranged in one or more concentric circles or series around a central ring, instead of radiating from a cen-

tral ring as in the asterospondylous sharks. **cyclospondylic** (si*klō-spon-dil'ik), *u.* Having the characters of the *Cyclospondyli*; having vertebre that are partly cartilaginous and partly ossified by the deposit of bone arranged in concentric layers; also, noting such vertebræ.

cyclospondylous (sī-klō-spon'di-lus), a. Same *cyclospondylic.

Cyclosporales (si/klo-spo-ra'lez), n. pl. [Nf.., Gr. κυκλος, circle, + σπομά, seed (spore), +
 -ales.] An order of the Phæophyceæ, or brown

seaweds: practically the same as Fucacca.

cyclostomian (si-klō-stō'mi-an), a. [Gr. κίλος, circle, + στόμα, mouth, + -ιαπ.] Having circular orifices of the zoocia or cells, as certain polyzoans.

cyclostyle, u. 2. A peristyle of circular form.

cyclotomic, a. 2. Relating to or of the nature of cyclotomy. - Cyclotomic equation. See *equa-

tion.

cyclotomy (sī-klot'ō-mi), n. [Gr. κίκλος, circle, + -τομα, ⟨ ταμεῖν, cut.] I. In surg., operation for division of the ciliary muscle, practised to relieve tension in glaucoma.—2. In math., the theory of the partition of the circle.

Cyclotus, n. 2. [l. c.] Same as synotus, 2. cycloverteoral (sī-klō-ver'tō-bral), n. [Gr. κίκλος, circle, + E. vertebral.] The body of a vertebra in fishes; the centrum.

Cydippidea (sī-di-pid'ō-m), n. pl. [NL., ⟨ C

Cydones (si-dō'nēz), n. [Gr. Κύδωνες.] One of the early races of Crete.

Cygnian (sig'ni-an), a. and n. [Cygnus + -un.] I. a. Having a spectrum similar to that of Arided (a Cygni, often called Deneb). II. n. A star having such a spectrum

cyl. An a An abbreviation (a) of cylinder; (b) of

cyl. An abbreviation (a) of cylinder; (b) of cylindrical.

Cylinder oil. See *\sil.\$—Delivery-cylinder, in a printing-press, the cylinder which seizes the printed sheet when it leaves the printing-cylinder, and delivers it to the fly on the receiving-table. —Displacement-cylinder, an auxiliary cylinder used on some internal-combustion engines for foreing the charge into the main or working cylinder.—Impression-cylinder, the cylinder of a rotary printing-machine which resists the pressure of the plate-cylinder and gives the impression which produces the print. See cylinder, 2 (c).—Inside cylinder, a cylinder located between the frames of a locomotive instead of ontside of them. The maide cylinder compels the use of a cranked axle, and compacts the connecting-rods and guides into the small spaces under the boiler. The valve-gear is then usually forced outside the frames, where it is more liable to injury. See locomotive.—Inverted cylinder, a vertical-engine cylinder in which the piston-rod passed through the bottom-head. In the original vertical engines built by Watt and others, the piston-rod passed through the top-head.—Inverted-cylinder, the last cylinder in which the steam is expanded in a compound or multiple-expansion engine, the steam passing first into the high-pressure cylinder and thence through the other cylinder in the order of their size, the low-pressure cylinder being the largest.—Outside cylinder. See coerrhanging *cylinder*, a cylinder of a locomotive, which overhangs the frames. Usually called outside cylinder of outside connected cylinder.—Porcupine cylinder. Same as porcupine *beater.

Cylinder (sil'in-dèr), r. t. To press under a cylinder or between cylinders. Cylinder oil.

cylinder (sil'in-der), r. t. To press under a

ylinder or between cylinders.

cylinder-band (sil'in-der-band), n. A type of fluted band, observed in certain metallic spectra, which has the appearance of a hollow half-cylinder illuminated from one side. Electrochem. Industry, Dec. 1903.

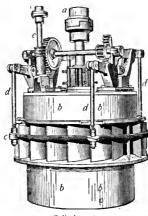
cylinder-cake (sil'in-der-kāk), n. Salt-cake (sodium sulphate) made by heating common salt with sulphuric acid in cylindrical cast-iron retorts. G. Lunge, Sulphuric Acid, II. 121.

a steam-engine.

cylinder-gate (sil'in-der-gat), u. A cylindrical gate or valve used to regulate the amount

of water flowing to a fur-bine. In its usual form it is a series of fingers protrud-ing down ward from a cylinder and filling the passages between the guide-vanes of the turbine.

cylinder-pressure (sil'inder-presh/ur),
n. The motor effort on a piston-motor, due to the tension of the fluid which drives it. The pressure at the beginning of the stroke is the initial pressure, that at the end of the stroke the final or terminal pressure. The average of all pressures through-out the stroke is the mean pres-sure, or the mean



Cylinder-gate.

a, shaft of turbine; b, cassing surrounding turbine; c, ring or cylinder-gate flange (the cylinder which shuts off the water from the vanes or buckets is fastened to the inner edge of this ring or flange); d, d, d, hangers supporting flange and gate; e, rod actuating worm and wheel to raise and lower the gate.

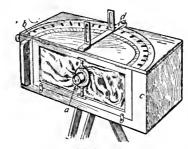
with the patterns to be printed.

cylinder-relief (sil'in-der-re-lef"), n. A drain for carrying off water which collects in a steam-cylinder; also, an automatic valve which opens when the pressure rises above a certain point: a relief-valve.

cymograph (sī'mō-grāf), n. Same as kymograph (sī-mom'e-ter), n. [Gr. κῦμα, wave, + μέτρον, measure.] In elect., an instrument for the measurement of the wavelength and frequency of electric oscillations.

in massive forms with concentric cylindrical structure: found in Bolivia. Also written

cylindrograph (si-lin´drō-grāf), n. [Gr. κίνλινδρος, cylinder, + γράφειν, write.] In



Cylindrograph. α, objective; δ, curved film; ε, camera; d, arm for rotating objective.

photog., a form of panoramic camera which has an angular range covering nearly half the horizon. Woodbury, Eneye. Dict. of Photog., p. 152.

cylindroid, n. 3. In authrop., a cranium the norma verticalis of which is elongated, flat-tened at the forehead and occiput, and rounded at the sides. G. Sergi, (trans.) Var. of the Human Species, p. 39.—4. In pathol., a body resembling a tube-cast, consisting usually only of mnens

cylindroscope (si-lin'drō-skōp), n. [Gr. κύλυ-δρος, cylinder, + σκοπείν, view.] In photog., an apparatus for viewing panoramic pictures, the print being curved to a radius which corresponds to the original radius of the panoramic camera or cylindrograph used to secure the negative. Wall, Dict. of Photog., p. 172.

cyclose (si'klōz), n. [Gr. κίκλος, circle, +-ose.] cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. A sugar containing a closed carbon chain in the molecule.

cyclosis, n. 2. In phys., the existence of cycles.

A steam-gage connected with the cylinder of a cylinder of a steam-gage connected with the cylinder of a cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. [NL. (Greville, 1822), κελλινόρος, cylinder, the cylinder of a cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. [NL. (Greville, 1822), κελλινόρος, cylinder, the cylinder of a cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylinder of a cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylinder of a cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylinder of a cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder-gage, n. 2. A gage for testing or Cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylinder of the cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylindrosporium (si-lin-drō-spō'ri-um), n. (NL. (Greville, 1822), κελλινόρος, cylinder, the cylindrosporium (si-lin-drō-spō'ri-um), colored conidial cushions (sporodochia) embedded in the surface of the host, and producing filiform straight or variously curved

eonidia. C. Padi is a common species causing a disease of the leaves of plum and cherry. See cherry *leaf-spot.

cylindruria (sil-in-drū'ri-ā), n. [Nl... ⟨ Gr. κίλινδρος, cylinder, + οὐρον, urine.] In pathol., the condition in which there is a passage of urinary tube-easts in the urine.

Cym. An abbreviation of Cymric.

cymba, n.—Cymba conchæ, in anat., the npper portion of the concha of the ear, above the anditory meatus.
cymbalo (sim'ha-lō), n. Same as cembalo.
cymbella (sim-bel'ā), n.; pl. cymbellæ (-ē).
[Nl., dim. of L. cymba, a boat: see cymba.]
In bot., one of the elliptical zoöspores of some algæ.

cymbocephalic, a. 2. Belonging to a subdivision of the oöidocephalic forms, characterized by an exceedingly protuberant occuput. Aithen Mergs.

cymbocephalous (sim-bō-sef'a-lus), a. Same

as cymbocephalic. cymbocephalus (sim - bō - sef 'a - lus), n.; pl, cymbocephali (-lī). [Gr. $\kappa \iota \mu \beta \eta$, bowl, $+ \kappa \epsilon \phi a \lambda \dot{\eta}$, head.] One who has a cymbocephalic skull. cyme, n. - Bostrychoid cyme. Same as bostryx.

cymenol (sim'e-nol), n. [cymene + -ol.] Same

cymidine (si'mi-din), n. [cym(ene) + -id¹ + -ine².] Amino-cymene, CH₃C₆H₃(NH₂)CH (CH₃)₂(1:3:4), an oily monaeid base which boils at 230° C. Also called 3-amino-methul-4methoethylphen.

cymogene, n. This very volatile product, obtainable at the heginning of the distillation of erude petroleum, boils under ordinary pressure at 0° C. (32° F.), and consists chiefly of normal butane, C_4H_{10} . Also chymogene.

cynanchocerin (si-nang-kō-sē'rin), n. [NL. Cynanchum (see def.) + Gr. κηρός, wax, + -in².] A compound obtained from the milky jnice of Cynanchum acutum Linn. It crystallizes in needles which melt at 146° C.

cynanchol (si-nang'kôl), n. [NL. Cynanchum (see def.) + -ol.] A crystalline substance ob-tained from the milky juice of Cynanchum acutum Linn. It was afterward separated into eynanchoeerin and cynanchin.

cynapin (sin'a-pin), n. [NL. cynapium (see def.) + -in².] An oil of uncertain composition obtained from fool's-parsley, Æthusa Cyna-pium. It has a strong odor and reddish-yellow color.

Cynareæ (si-nā'rē-ē), n. pl. [NL., < Cynara + -eæ.] A tribe of plants of the family Asteraceæ, typified by the genus Cynara; the thistle family; same as Cynaroideæ. Cynareæ is the proper form of the tribal name.

cynarrhodion, cynarrhodium, n. Erroneous forms often used for cynorrhodon or cynorrho-

dium. cyniatria (sin-i-a-trī'ä), n. [Gr. κίων (κυν-), dog, + iaτρεία, medical treatment.] Investiga-

tion and treatment of diseases of the dog. cyniatrics (sin-i-at'riks), n. [Gr. κίων, dog, + ἰατρικός, ⟨ ἰατρός, physician: see iatric.] Same as *cyniatria.

cynipidean (si-ni-pid'ē-an), a. Of or belonging to the hymenopterons family Cynipidæ, the gall-flies.

cynism (sin'ism), n. Same as cynicism. Thirlwall. N. E. D.

cynoctonine (si-nok'tō-nin), n. [Gr. κυτόκτονον, aconite, (neut. of κυνόκτονος, killing dogs (ζ κίων (κυν-), dog, + -κτονος, ζ κτείνειν, killi, + -in².] An amorphous, bitter alkaloid, C₃₆H₅₅ O₁₃N₂, found in Aconitium septentrionale. It is poisonous, producing tonic-clonic spasms.

cynodonichthys (sin*ō-don-ik'this), n. [NL., ζ Gr. κυνόδους (κυνοδουτ-), canine tooth. + iχθις, fish.] A genus of fishes of the family Pacillidae found in fresh waters of Mexico. cynodont (si'nō-dent), n. [Gr. κυνόδους, a canine tooth, ζ κίων (κυν-), dog, + όδούς (όδουτ-), teoth.] A member of the reptilian suborder *Cyno-

On the other hand, like the cynodonts, they show a radimentary secondary palate.

Amer. Nat., Feb. 1904, p. 103.

Cynodontia (sī-nō-don'ti-ä), n. pl. [NL., neut. cynodon (ar-in-don tr-a), n. μ. [M., neut. pl. of Cynodus, ζ Gr. κινόδους, a canine tooth: see cynodont.] A suborder of anomodont reptiles of medium size, having the squamosal expanded, the quadrate reduced, and double occipital condyles: Owen's family Cynodontia (1876), raised to a suborder by Osborn (1903).

cynolatry (si-nol'a-tri), n. [Gr. κίων (κυν-), deg, + λατρεία, worship.] Dog-worship. cynology (si-nol'ō-ji), n. [Gr. κίων (κυν-), deg, + -λογια, ζ λέγειν, speak.] The natural history

of the dog.

Cynomoriaceæ (si-nō-mō-ri-ā'sē-ē), n. pl. [NL. (Lindley, 1836), < Cynomorium + -aceæ.] A family of dicotyledenous archichlamydeous root-parasitic plants of fungoid habit, containing the genus Cynomorium only (which see). Lindley gave this name to the lamly Balonophoraceæ in which he and most other authors included this plant, but Engler, in 1897, removed it from that family and classed it in the order Myrtales, as a distinct family. See rhizo-

cynomorphous (sī-nō-môr'fus), a. [Gr. κυνό-μορφος, dog-shaped, ζκίων (κυν-), a dog, + μορφή, form.] Resembling, or characteristic of, tho Old World monkeys contained in the family

Cynopithecidæ or Cercopithecidæ, cynophilist (sī-nof'i-list), n. [Gr. κίων (κιν-), dog, + φίλος, loving, + -ist.] A lover of dogs. N. E. D.

cynophobia (sī-nō-fō'bi-ā), n. [Also kynophobia; ⟨Gr. κτων (κιν-), dog, + -φοβία, ⟨φοβείν, fear.] 1. Same as lyssophobia.—2. A merbid fear of dogs.

cynopic (si-nop'ik), a. [Gr. κυνώπης, dog-eyed, κύων (κιν-), dog, + ὧψ (ώπ-), eye.] Dog-eyed; shameless. Badham. [Nonce-word.] N. E. D. Cynthia, n. 4. [l. c.] In bot., the Virginia *goat's-beard (which see).

cynurenic (si-nu-ren'ik), a. [cynur(ic) + -en + -ic.] Obtained from the urine of dogs. — Cynurenic acid, a colorless compound, $110C_011_5NCO$ OH. 11_2O , contained in the urine of dogs fed with meatat. It crystallizes in silver, fustrous needles and when anhydrous melts at $257-258^\circ$ C. Also called hydroxyquinolinecarboxylic acid.

cynuric (si-nū'rik), a. [Gr. κίων (κυν-), dog, + υὐρον, urine.] Noting a crystalline acid, CO₂ H.C₆H₄NHCOCO₂H + H₂O, which melts, when free from water, at 188–189° C., with decomposition. Also called oxalylanthranilic acid.

cynurine (sin'ū-rin), n. [cynur(ic) + -ine².] A colorless bitter compound, HOC₉H₆N, prepared by the fusion of cynurenic acid and also by the oxidation of cinchonine and certain related compounds. It crystallizes in lustrous, monoclinic, anhydrous prisms or, with 3H₂O, in needles melting at 201° C. and 52° C. respectively. Also called 4-hydroxyquinolinc.

cyperoid (si'pe-roid), a. [Cyper-us + -oid.] Resembling, allied to, or belonging to the plant-genus Cyperus or the family Cyperaceæ. Cyphaspis (si-fas'pis), n. [Gr. κυφός, bent, + ασπίς, a shield.] A genus of trilobites of the family Pročtidæ, having a short ovoid glabellum based carbolic merimas regions. lum, broad cephalic margins, a variable number of thoracic segments, and a small pygidium. It occurs in the Silurian and Devonian rocks.

cyphophthalmid (si-fof-thal'mid), a. Having the characters of or belonging to the family

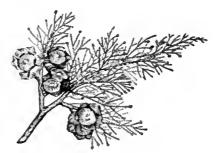
Cyphophthalmidæ.

Cyphosomatidæ (si "fō - sō - mat 'i-dē), n. pl. [NL., $\langle Cyphosoma(t-) + -idæ.$] A family of regular ectobranchiate Echinoidea, of the regular ectobranchiate Echnoulca, of the order Diademoida. They have the ambulacral plates compounded, with 3 to 7 pore-plates in an are; the adoral, supraoral, and sometimes also the aboral plates primaries, and the remaining constituents denii-plates. It is typified by the extinct genus Cyphosoma, the only living genus being Glyptocidaris.

cyphotic (sī-fot'ik), a. [cyphosis (-ot-) + -ic.] Humpbacked: usually kyphotic.

cypress¹, n.—Alaska cypress, Alaska ground-cypress, the yellow cedar, Chamseyparis Nootkatensis, See yellow.—Arizona cypress, Cupressus Arizonica, a tree of the mountains of Arizona and northeastern Mexico, sometimes attaining a height of 70 feet, with the trunk very large in proportion to the height. The wood

is light and soft. The tree is occasionally cultivated for ornament.—California mountain cypress. Same as MacNab's *cypress.—Chilean cypress, a tall, stately tree, Libocedrus tetragona, of the Chilean Andes and Patagonia, with a straight trunk sometimes 120 feet high, and soft, white, light, resinous wood, which is durable under ground and is much used for railway-ties in Chile. This species, together with the Chilean cedar (Fitzroga Patagonica), is recommended for planting in swampy mountain-moors of the temperate zones. The name alerce is often applied to both of them, as well as to Libocedrus Chilenas.—Dwarf cypress. Same as cypress-moss. See heath-cypress.—Flowering cypress. See tamarisk, I.—Gowen cypress, Cupressus Goveniana, a tree of the California coast regions, sometimes 50 feet high and 2 feet in diameter, with light, soft wood: sometimes cultivated for ornament.—Ground-cypress, the lavender-cotton (which see, under cotton!).—Guadalupe cypress. Same as Arizona *cypress.—MacNab's cypress, Capressus Macnabiana, a small husby tree of interior California, occasionally 30 feet high and over a foot in diameter, with light, fine-grained wood. It is occasionally planted for ornament in southwestern Europe.—Mexican cypress, Mexican bald cypress, Taxodium Mexicanum.—See Taxodium.—Monterey cypress. See cypress!, 1. (a) The Monterey cypress is a tree 60 or 70 feet high, with a trunk very large for its height, usually 2-3 feet in diameter, but exceptionally 6 feet. Its slender erect branches form in old trees a broad flat-topped crown. The wood is hard, flue-grained and durable. This tree is remarkable is light and soft.



Monterey Cypress (Cupressus macrocarpa). m Sargent's "Silva,"

for its very restricted range, being confined to an area about two miles long and 200 yards wide on the California coast south of the Bay of Montrey, extending from Cypress Point to the shores of Carmelo Bay, with a small grove on Point Lobos. It is now nearly extinct in its native habitat, but fortunately it thrives well in cultivation, and has been introduced throughout the Pacific coast region from Lower California to Vancouver Island, also to some extent in the southeastern United States, and extensively in southern and western Europe, in South America, and in Anstralia and New Zealand.—Montezuma cypress, and individual tree of the Mexican cypress of historic note. See Taxodium.—Nootka cypress, Nootka Sound cypress. Same as Alaska *cypress, Pond-cypress, a subspecies of the bald cypress, Taxodium distichum imbricarium, regarded by some as a distinct species, growing in or around ponds, swamps, and shallow streams, from the Dismal Swamp to Florida and Alabsma. It is distinguished from the typical bald cypress by its smaller size and acicular leaves, and is more frequently cultivated in the northern United States and in Europe than the type form.—Red-hark cypress. Same as Arizona *cypress.—Sunsta cypress, cash as a subspecs, the white cedar, Chamæcyparis thyoides. The bald cypress is also so called.

Cypress-grass (si 'pres-gras), n. A general course for plants of the genus ('unerus', cyalan.

cypress-grass (sī'pres-gras), n. A general name for plants of the genus Cyperus; galan-

gal. See Cyperus. cypress-vine, n. 2. The climbing fumitory,

Adlumia fungosa.
Cyprian vitriol. See *vitriol.
Cypricardella (sip*ri-kär-del'ä), n. [NL., Cypri(na) + Card(ium) (genera of pelecypods) + -ella.] A genus of Devonian teleodesmaceous pelecypods having subquadrate concentrically lined valves, each bearing two cardinal teeth. Same as Microdon, 3.

Cypricardinia (sip#ri-kär-din'i-ä), n. [Cypri-(na) + Card(ium) (genera of pelceypods) + -in + -ia.] A genns of Devonian teleodesmaceous pelecypods having two small cardinal teeth in each valve and bearing concentric laminæ on the surface with a finer ornament

Cypricardites (sip"ri-kär-di'tez), n. [Cypri-(na) + Card(ium) (genera of pelecypods) +
-ites, E. -ite².] A Silurian genus of prionodesmaceous pelecypods of the family Cyrtodontidæ, with subequal valves bearing fine

cardinal teeth.

Cypridina shales, in South Devon, the Rhincland, and Westphalia, the uppermost division of the marine Devonian, profusely abundant in the ostracode crustacean Cypridina or Entomis.

tish belonging or allied to the family Cy-

II. a. Having the characters of the Cyprid-

The tree is occasionally cultivated for cypriferous (sip-rif'e-rus), a. [Cypris + L. erre, bear.] Containing the tests of the ostracode crustacean Cypris.

Cypro-Mycenæan (si/prō-mi-sē-nē'an), a. Relating to both Cyprus and Mycenæ; noting relics of the Mycenæan age found in Cyprus. See * Myccnæan.

Cyproniscidæ (sip-rō-nis'i-dē), n. pl. [NL., Cyproniscus + -idæ.] A family of isopod crustaceans, parasitic on Ostracopoda, typified by the genus Cyproniscus.

Cyproniscus (sip-rō-nis'kus), n. [NL., < Cypris + Gr. ονισκος, a wood-louse (see Oniscus).] The typical and only genus of the family Cyproniscidae. Kossmann, 1884.

Cypro-Phenician (sî/pro-tē-nish'an), a. or pertaining to the civilization brought to Cyprus by the Phenicians. Colones were estab-lished in Cyprus by Phenicians at an early period, and the earliest Phenician inscriptions have been found there.

Cypselid (sip'se-lid), n. [Gr. Κυψελιδαι, pl., ζ Κυψελος, Cypselus.] A descendant of Cypselus, tyrant of Corinth. The Cypselids dedicated the chest of Cypselus at Olympia.

cypselous (sip'se-lus), a. [cypsela + -ous.] Having the character of a cypsela; bearing cypsele.

cyrillaceous (sir-i-lā'shius), a. Belonging to the plant family Cyrillaceæ. cyroplane (sir'ō-plān), n. Gr. κίρος, lord (?),

cyroplane (sir'ō-plān), n. 'Gr. κὶρος, lord (?), + E. plane.] A special form of tripod-head for photographic cameras or surveyors' planetables, by which the plane of the table can be adjusted to be normal to any line, and free adjustment horizontally or in azimuth be subsequently made without changing the position of the normal: useful in taking panoramas by photography. The usual ball-and-socket mounting is retained, but in addition a conical axis in the ball gives a separate adjustment without disturbing the ball.

cyrtean (ser'tē-an), α. [Gr. κυρτός, cenvex, + e-an.] Noting that type of vertebra in which both faces of the centrum are convex. Wicland, 1899.

Cyrtia (ser'ti-ä), n. [NL. ζ Gr. κυρτός, curved.] A Paleozoic genus of *Brachiopoda* resembling Spirifer, but having a high subcreet cardinal area and perforated deltarium.

Cyrtina (ser-ti'nä), n. [NL., Gr. κυρτός, curved, -ina1.] A Paleozoic genus of brachipods in general aspect like Spirifer, but having a median septum in the ventral valve which supports the convergent dental plates or spondyfium.

cyrtiniform (ser-tin'i-form), a. Having the form and aspect of Cyrtina, an extinct genus of brachiepeds.

cyrtocephalus (sér-tō-sef'a-lus), n. [NL < Gr. κυρτός, eurved, convex, + κεφαλή, head.] In anthrop., a cranium which has a convexity, extending from the frontal and parietals to the vertex, resembling a protuberance. G. Sergi (trans.), Var. of the Human Species, p. 55.

cyrtoceracone (ser-to-ser'a-kon),n. [Gr. κυρτός, curved, $+\kappa \epsilon \rho a c$, horn, $+\kappa \delta \nu o c$, cone.] In the nautileid cephalepods, a shell curved, like Cyrtoceras, on both venter and dorsum.

Cyrtochoanites (ser"tō-kō-a-nī'tēz), n. pl. [NL.. cephalopods, including forms with straight or curved shells variously ornamented and with simple sutures, the siphuncle tubular or num-muloidal and the siphonal funnels short and bent outward.

cyrtocœlian (ser-tō-sō'li-an), n. [Gr. κυρτός, curved, + κοίλος, hollow.] Having that type of vertebra in which the anterior face of the centrum is convex and the posterior concave: convexo-concave. Wicland, 1899.

cyrtocone (ser'tō-kōn), n. [Gr. κυρτός, eurved, +κῶνος, a cone.] In the nautiloid cephalopods, a curved form of the young shell replacing or succeeding the more primitive orthocone.

Cyrtodonta (sér-tő-don'tä), n. [NL., < Gr. κυρτός, enrved, + όδούς (όδουτ-), a tooth.] A genus of prionodesmaceous *Pelecypodu*, typical of the *Cyrtodontidæ* and having rounded heavy shells, narrow cardinal area, from 2 to 4 curved cardinal teeth, and strong lateral teeth. It is of Silurian age.

cyrtograph (ser'tō-graf), n. [Gr. κυρτός, enrved, convex, + γράφειν, write.] Same as cyrtometer.

Cyrtoidida (sér-toi'di-dā), n. pl. [NL., ζ Cyrtoides (ζ Gr. κυρτός, enrved, + είδος, form) + -uta.] An order of nassellarian Radiolaria having a helmet-shaped shell without a sag-gittal furrow. It includes the families Tripocalpidæ, Anthocyrtidæ, Podocumpidæ, and others

Cyrtolites (ser-tō-lī'tēz), n. [NL., ζ Gr. κυρτός, curved, + λιθος, stone.] A genus of Silurian rhipidoglossal gastropod mollusks of the fam-Belterophontidee, having widely umbilicate keeled shells without peripheral slit and with strong transverse ribs or lamellæ.

cyrtometer, n. 2. An instrument for measuring

the shape or size of the head.

Cyrtomium (ser-tō'mi-um), n. [NL. (Prese, 1836), referring to the curved veins, ζ Gr. κίρτωμα, curvature, ζ κυρτούν, make curved, ζ κυρτος, curved.] A small genus of rigid, simply pinnate polypodiaceous terms allied to Polysti-Cyrtomium (sėr-to'mi-um), n. chum, from which it differs by its freely anastomosing venation. There are about 6 species, all Asiatic, of which C. falcatum, C. caryotideum, and C. Fortunei are commonly cultivated in greenhouses.

Cyrtonotus (ser"tō, nō'tus), n. [Gr. κυρτός, enrved, + νοτος, the back.] A genus of short and thicked-shelled Petceypoda, allied to Astarte and characterized by the broad cardinal surface, with one strong tooth on each valve.

It is of Devonian age.

cyrtopia (sér tō 'pi-ā), n.; pl. cyrtopiæ (-ē).

[NL., ζ (ir. κυρτός, curved, + ωψ (ωπ-), eye, face.] A schizopod crustacean in a larval stage, in which the antennæ are transformed and no longer serve for locomotion, and the posterior pairs of thoracic and abdominal feet and the gills appear.

cyrtoplatyan (sér-tō-plat'i-an), a. [Gr. κυρτός, enrved, + πλατίς, flat, + -an.] Having the anterior face of the vertebral centrum convex and the posterior face flattened; convex-plane.

Wieland, 1899.

cyrtosis (sêr-tô'sis), n. [NL., \langle Gr. κίρτωσις, curvedness, humpbacked condition, \langle κυρτοῦν, enrve, arch, hump, \langle κυρτός, curved, arched,

convex.] Spinal curvature.

Cyrtospadix (ser-tō-spā'diks), n. [NL. (C. Koch, 1853), ζ Gr. κυρτός, curved, + spadix, in reference to the curved middle part of the spadix in the type species, C. striatipes.] genus of monocotyledonous plants of the family Araceæ. See Caladium, 2.

cyrtostyle (ser'tō-stīl), a. and n. [Gr. κυρτός, + στυλος, pillar, column (see style2).] I. a. Having columns arranged in a generally curvilinear plan: said of a portico, or a part of one, which has a rounded horizontal projection.

II. n. A portico having a rounded projection; or, by extension, a building furnished

with such a portico.

cyst, n. 5. (a) The resistant coating formed by the parent organism previous to spornlation and inclosing the spores, in Sporozoa. (b) In Sporozoa, the common envelop surrounding the two associated gametocytes. (c) The resistant covering secreted by many Infusoria previous to going into a resting-stage, or be-fore fission, or for the purpose of resisting draught or other unfavorable conditions of envidraught or other unita vorable conditions of environment.— Dentigerous cyst, a dermoid cyst in which a tooth has developed.—Inclusion cyst, a cyst which results from the inclosure in tissue of one origin of an islet of tissue of different origin.— Melbomian cyst. Same as chalazion.— Mother-cyst. See *mother-cyst.—Nabothian cysts, small nodules formed by retention of the mucous secretion in the Nabothian folicles.— Parent-cyst. Same as *mother-cyst.—Piliferous cyst, a dermoid cyst which contains hair.— Serous cyst. Same as *hygroma.

cystal (sis'tal), a. [cyst + -at1.] Pertaining to or derived from a cyst.—**cystal residum**, the surplus of protoplasm remaining after the formation of the gametes in the gametocyte of Sporozoa, and serving for the nutrition of the sporoblasts during their further development.

development.

cystamine (sis'ta-min), n. [Gr. κύστις, bladder, + amine.] Same as *uritone.

cystauchenitis (sis"tâ-kē-nī'tis), n. eystauchenitis (sis"tå-kē-nī'tis), n. [NL., \langle Gr. $\kappa i \sigma \tau \kappa$, bladder, $+ a v \chi \dot{\eta} v$, neek, + -i t i s.] Inflammation at the neek of the bladder. **cystectomy** (sis-tek'tō-mi), n. [Gr. κὐστις, bladder, + ἐκτομή, excision.] Excision of the urinary or gall-bladder, or of a cyst.

cyrtoid (ser'toid), a. [Gr. κυρτοειδής, < κυρτός. **cystein** (sis'tē-in), n. [Gr. κύστις, bladder, + eurved, arched, convex, + είδος, form.] Humpbacked. Syd. Soc. Lex. -(c+-in²-] An organic sulphur body which is closely related to cystin. On oxidation it yields cysteinic acid, and this, in turn, taurin.

cysteinic (sis-tē-in'ik), a. Pertaining to or derived from cystein.—Cysteinte actd, an oxidation product of cystein, C₃H₇NSO₅. By loss of CO₂ cysteinic acid gives rise to taurin.

cystencyte (sis'ten-sit), n. [Gr. κύστις, bladder, $+ \epsilon r$, in, $+ \kappa i \tau \sigma \varsigma$, a hollow (a cell).] One of the large vesicular cells of which cysten-chyma is composed. W. J. Sollus.

Cystic canal. Same as cystic duct (which see, under duct).—Cystic degeneration. See *degeneration.

cysticercosis (sis "ti-ser-kō'sis), n. cysticereus + -osis.] An infection with blad-der-worms or larval tapeworms (cysticerci) of the genus Tænia. Cysticercosis of man is caused by Cysticercus ecllulosæ; of cattle, by C. bovis and C. tenuicollis; and of hogs, by C. cellulosæ and C. tenuicollis.

cysticolous (sis-tik'ō-lus), a. [Gr.κύστις, bladder (cyst), + L. colere, inhabit.] Inhabiting a cyst: specifically applied to certain Myzos-tomaria. Cambridge Nat. Hist., II. 334.

[cystic + Gr. cysticotomy (sis-ti-kot'ō-mi), n. τομία, ζ ταμεΐν, cut.] Incision into the cystic duct of the liver.

cystidean, n. II. a. Pertaining to or having the characters of the Cystidea.

cystigerous (sis-tij'e-rus), a. [Gr. κύστις, bag (cyst), + L. gerere, bear.] Bearing or containing cysts; cystic: as, cystigerous growths. cystinemia (sis-ti-nē'mi-ā), n. [NL. cystinæmia, \ E. cystin + Gr. aiµa, blood.] Presence of cystin in the circulating blood. Also custinæmia.

cystinuria (sis-ti-nū'ri-ä), n. [NL. cystinuria, ζ E. cystin + Gr. οὐρον, nrine.] Excretion of

cystin in the urine.

cystinuric (sis-ti-nū'rik), a. [cystinuria + -ic.] Relating to or affected with cystinuria. cystiphragm (sis'ti-fram), n. [Gr. $\kappa'\iota\sigma\tau\iota\varphi$, a bladder, $+\phi\rho\dot{\alpha}\gamma\mu a$, partition.] One of the curved partitions which divide transversely the zoecia of the trepostomatous Bryozoa: contrasted with the diaphragms or flat partitions.

cysto-adenoma (sis "tō-ad-e-nō'mä), n.: pl.
cysto-adenomata (-ma-tä). [Gr. κὐστα, bladder,
+ NL. adenoma.] Ä gland tumor which con-

tains cysts.

cystocarcinoma (sis"tō-kār-si-nō'mā), n.; pl. cystocarcinomata (ma-tā). [NL., ζ Gr. κύστις, bladder, + NL. carcinoma.] A cancerous bladder, + NL. carcinoma.] growth which contains cysts.

cystocarpium (sis-tō-kar'pi-um), n.; pl. cysto-carpia (-ä). Same as cystocarp. Cystocidaroida (sis"tō-sid-a-rō'i-dä), n. pl. [NL., ⟨*Cystocidaris (⟨Gr. κύστις, a bladder, + κίδαρις, a Persian head-dress) + είδος, shape.] An order of primitive Palæcchinoidea regarded as transitional to the Cystoidca and characterized by an exocyclic test, narrow and straight ambulacra, with 4 vertical rows of plates each with a central pair of pores, broad interambulacra, numerous scale-like echinate plates, periproct posterior, and mouth with well-developed jaws. It is of Silurian age.

Cystodictya (sis-tō-dik'ti-ā), n. [NL., < Gr. κύστις, a bladder, + δίκτυον, a net.] A Paleozoic genus of cryptostomatous bryozoans,

typical of the family Cystodictyonidæ.

Cystodictyonidæ (sis"tō-dik-ti-on'i-dē), n. pl. [NL., ⟨ Cystodictyon + -idæ.] A Paleozoic family of cryptostomatous Bryozoa in which the zoaria consist of several rows of cells grown together back to back, ferming flat, branching fronds; primitive cells with tubular vestibules, and superficial aperture with a lunarium; and interzoœcial spaces with vesicular tissue

Cystoflagellata (sis "tō-flaj-e-lā'tā), n. pl. [NL., ζ Gr. κὐστις, bladder (cyst), + NL. Fla-[NL., \ Gr. kvotu, bladder (cyst), \ Tall. Laggellata.] An order of mastigophoran Protozoa. It contains individuals of large size with a single nucleus, reticular protoplasm, a stout membrane, and 2 flagella, one of which is modified into a long tentacle, while the other is small, and contained within the gullet. It includes two genera, both marine: Noctiluca (which see), and Leptodiscus. Same as Rhynchofagellata.

der, + amine.] Same as *uritone.

cystatrophy (sis-tat'rō-fi), n. [Gr. κίστις, of cystogen (sis'tō-jen), n. [Gr. κίστις, bladder the bladder, + ἀτροφία, atrophy.]

Atrophy (cyst), + -γενης, -produced.] Same as *uritone.

cystoid, a. II. n. One of the structures produced.

cystoid, a. II. n. One of the structures produced. duced by the swelling of a functionless pollentube within the ovarian cavity of plants.

cystomatous (sis-tom'a-tus), a. [cystoma(t-) + ous.) Relating to, containing, or complicated by a cystoma.

cyston (sis'ton), n. [NL. cyston, < Gr. κύστις,

bladder.] One of the daetylozoöids of Siphonophora, modified for exerctory purposes. Sedgwick, Text-book of Zoöl., I. 151.

Cystonectæ (sis-tō-nek'tē), n. pl. [NL., < Gr. κύστις, bladder (eyst), + νήκτης, swimmer.] group of siphonanthous Siphonophora having large apical pneumatophore without nectocalvees or bracts, the pneumatocyst having an apical stigma. The gasterozooids are generally numerous and arranged either on the lower side of the pneumatophore or on a long tubular cemosare. It includes the *Physaltidae* and several other families.

cystonectous (sis-to-nek'tus), a. Having the characters of the Cystonectæ.

cystonula (sis-ton'ū-lä), n.; pl. cystonulæ (-lē). [NL., dim. of cyston, cyston.] The youngest [NL., dim. of cyston, cyston.] The youngest larva of the Physaliidæ. It has a float and one siphon with a tentacle hanging below it.

cystopexy (sis'tō-pek-sı), n. [Gr. κύστις, a bladder, + πῆξις, a fixing.] In surg., an operation for the fixation of a prolapsed bladder to the anterior abdominal wall.

cystophore (sis' $t\bar{o}$ - $f\bar{o}r$), n. [Gr. $\kappa \dot{\nu} \sigma \tau \iota \varsigma$, bladder (eyst), + $-\varphi o\rho \rho \varsigma$, $\langle \phi \dot{e} \rho \epsilon \iota \nu \rangle$, bear.] 1. The stem or stalk which bears the eysts in the Myxobac-

Finally a condition is reached in which the stem or cystophore, as it may be conveniently called, is terminated by one or more rounded masses of very similar dimensions.

Thaxter, in Bot. Gazette, XVII. 391.

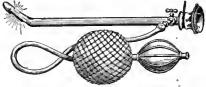
2. Same as ascophore. Jackson, Glossary. cystophthisis (sis-tof'thi-sis), n. [NL., < Gr. κύστις, bladder, + φθίσις, consumption: see phthisis.] Tuberculosis of the bladder.

cystoproctostomy (sis"tō-prok-tos'tō-mi), [Gr. κύστις, bladder, + πρωκτός, anus, + στόμα, mouth.] In surg., an operation for the establishment of a permanent communication between the bladder and the rectum.

cystosarcoma (sis"tō-sār-kō'mā), n.; pl. cystosarcomata (-ma-tā). [Gr. κύστις, bladder, + σάρκωμα, sarcoma.] A sarcoma which contains cysts.

cystoschisis (sis-tos'ki-sis), n. [NL., Gr. κίστις, bladder, + σχίσις, cleaving. Congenital fissure of the bladder.

cystoscope (sis'tō-skōp), n. [Gr. κύστις, bladder, + σκοπεῖν, view,] A hollow tube illuminated



Cystoscope, with bulb attachment for inflating the bladder.

by an electric light, employed to bring into view the interior of the bladder.

Alterations in the internal vesical orifice as demonstrated by the stone-searcher and cystoscope.

Therapeutic Gazette, Feb. 15, 1903, p. 74.

cystoscopic (sis"tō-skop'ik), a. [cystoscop-y + ic.] Relating to cystoscopy or the cystoscope; obtained by use of the cystoscope. Med. Revord, June 13, 1903, p. 952.

cystoscopical (sis-tō-skop'i-kal), a. Same as *custoscopic.

cystoscopy (sis-tos' kō-pi), n. [Gr. κίστις, bladder, + -σκοπια, < σκοπεῖν, view.] Inspection of the interior of the bladder by means of the cystoscope. Med. Record, Jnne 13, 1903, p. 952.

cystosore (sis'tō-sōr), n. [Gr. κύστις, bladder (cyst), + σωρός, a heap.] In bot., a group or heap of resting-spores within a cell, as in the

fungus Woronina. cystospasm (sis' tō-spazm), n. [Gr. κύστις, bladder, $+ \sigma \pi a \sigma \mu \delta c$, contraction: see spasm.] Spasmodic contraction of the walls of the bladder. V. Krafft-Ebing (trans.), in Alien. and Neurol., Feb., 1903, p. 29.

cystospore (sis'tō-spōr), n. [Gr. κύστις, bladder (cyst), + σπορά, seed (spore).] In bot., same as carpospore.

cystostomy (sis-tos'tō-mi), n. [Gr. κίστις, bladder, + στόμα, month.] In surg., an operation for the establishment of a permanent opening into the bladder.

cystotrachelotomy (sis "tō-trā-kē-lot'ō-mi), n. [Gr. κὐστις, bladder, + τραχηλός, neck, + -τομία, ζ ταμεῖν, cut.] In surg., incision through the neck of the bladder. **cystozoöid** (sis-tō-zō'oid), n. [G.κύστις, bladder(cyst), +zoöid.] The enlarged body-like a hollow (a cell), + διάγνωσις, diagnosis.] Diaganterior portion of the proscolex of certain Cesnosis based upon a study of the cell-contents toidea, as Dipylidium caninum. See *acantho-zoöid. Villot.

cyst-pearl (sist'perl), n. See *pearl.

cyst-worm (sist 'werm), n. A bladder-worm. **cytase** (si'tās), n. [Gr. κύτος, a hollow (a cell), + E. -ase.] An enzym which ferments cellulose: found in germinating seeds, certain fungi, and possibly in some animal secretions. See *complement, n, 8.

The views advanced by Bordet and others of the French school regarding the union of the amboceptors with the cells to be destroyed are less precise than those of Ehr-lich. Both, however, recognize the importance of an association of the amboceptor as a condition for the effective action of the complement (cylase).

Med. Record, Feb. 14, 1903, p. 249.

cytaster (sī-tās'tèr). n. [Gr. $\kappa i \tau \sigma \varsigma$, a hollow (a cell), $+ \dot{a} \sigma \tau \dot{\eta} \rho$, star.] In cytol., the star-like

(a cell), + ἀστῆρ, star.] In cytol., the star-like radiation seen at either pole of the karyokinetic spindle during the division of a cell.
Cytherea (sith-e-re'ä), n.
[NL. (Salisbury, 1812), ζ
L. Cytherea, ζ Gr. Κιθέρεια, a surname of Aphrodite.]
A genus of monocotyledonous plants of the family Orchidaceæ. See Calippso, L. Cythereala (sith-e-re'iä) Cytherella (sith-e-rel'ä), n. [NL., (Cythere + -ellä.] A genus of ostracode crustaceans or water-fleas, having elongate, smooth, bean - shaped valves. flanged on the hinge. They are commonly regarded as appearing in Silurian time and continuing to the present.

eytiau (kut'i-ou), n. pl. [W., pl. of cwl, a hut, cot, sty.] In Eng. archæol., a name given to certain prehistoric stone huts in Wales, as those at Tre'r Ceiri. Sci. Amer. Sup., Nov. 14, 1903, p. 23299. cytoblast, n. 3. In cytol.:

(a) The nucleus of the cell. Schleiden, 1838. (b) One of the hypothetical units of cell-structure. Altmann, 1890. (c) A Altmann, 1890. (c) A naked cell; a protoblast. Kölliker.

Cytherea bulbosa, (L) One half natural size

cytoblastemal (sī "tō- One half natural size. blas-tē'mal), a. [cytoblastema + -all.] Of or (sī #tōpertaining to eytoblastema.

cytoblastemic (si"tō-blas-tē'mik), a. Same as *cytoblastemal.

cytochemism (sī-tō-kem'izm), n. [Gr. κύτος, a hollow (a cell), + E. chemism.] Same as *chemotaxis.

cytochromatic (sī"tō-krō-mat'ik), a. In cytol., of or pertaining to cytochromes, or to the appearance of specific, readily stainable sub-

pearance of specific, readily stainable substance in the cytoplasm of certain cells.

cytochrome (sī 'tō-krōm), a. [NL. eytochroma, Gr. κίτος, a hollow (a cell), + χρῶμα, color.]

In neurol., a name given by Nissl to the so-called 'granules,' or nerve-cells with scanty cytoplasm incompletely surrounding a small nucleus which does not exceed in size the nucleus of an ordinary leucocyte or neuroglia cell: opposed to *caryochrome cell which has a larger nucleus.

cytochylema (si-tő-ki-lő'ma), n. [NL., ζ Gr. κύτος, a hollow, (a cell), + χυλός, juice, + κύτος, a hollow, (a cell), +
-ema.] Same as *cytolymph.

cytochyma (si-tō-ki'mā), n. [Gr. κύτος, a hollow (a cell), + χυμα, juice.] The fluid contents of the vacuoles found in cell-protoplasm.

cytoclasis (sī-tok'la-sis), n. [NL, < Gr. κύτος, a hollow (a cell), + κλάσω, breaking, < κλάν, break.] Necrotic destruction of cells.</p>

cytoclastic (sī-tō-klas'tik), α. [Gr. κέτος, a hollow (a cell), + κλαστός, < κλάν, break.] Relating to evtoclasis.

cytocyst (si'tō-sist), n. [Gr. $\kappa\acute{v}\tau o_{\varsigma}$, a hollow (a cell), + $\kappa\acute{v}\sigma r_{\varsigma}$, a bladder (a cyst).] A schizont inclosed in a membrane, as in the sporozoan blood-parasite *Lankestrella*.

cytoderm (si'tῷ-derm), n. [Gr. κότος, a hollow (a cell), + δέρμα, skin.] Same as cytioderm. S.—22

of the fluids of the body, especially of the **cytophagy** (sī-tof'a-ji), n. [Gr. κίτος, a hollow eere brospinal fluid. Lancet, May 30, 1903, p. (a cell), + -φαγία, ζφαγείν, eat.] Same as pha-

cytodieresis (sī tō-dī-er'e-sis), n. [Gr. $\kappa i \tau \sigma c$, a hollow (a cell), + $\delta \iota a \iota \rho \iota \sigma \iota c$, a division.] In cytol., cell-division, both direct (amitosis) and indirect (mitosis, karyokinesis).

cytodieretic (si"tō-di-e-ret'ik), a. taining to cytodieresis, or cell-division. cytogenic (si-tō-jen'ik), a. 1. Same as cytog-

cuous.-2. Concerning or pertaining to cytogenesis or the subject-matter of the science of

cytogeny, n. 2. Cell-lineage; the series of cells which intervenes between an embryonic cell and the tissues or organs or parts of the body which ultimately arise from it.

The relationship of the inner and outer layers in the various forms of gastrulas must be investigated . . . by tracing out the cell-lineage or *cytogeny* of the individual blastomeres from the beginning of development.

E. B. Wilson, in Biol. Lectures, 1894, p. 2.

cytoglobin (sī-tō-glō'bin), n. [Gr. κέτος, a hollow (a cell), + E. $glob(ulin) + -in^2$.] A cell globulin.

cytohyaloplasm (sī-tō-hī'a-lō-plazm), n. [NL. cytohyaloplasma, < Gr. κίτος, a hollow (a cell), + εαλος, glass, + πλάσμα, anything formed.] In cytol., the reticular or alveolar substance of cell-cytoplasm as opposed to the more

iquid eytochylema or cytolymph.

cytohyaloplasma (sī·tō-hi"a-lō-plaz'mä), n.

[NL.] Same as *cytohyaloplasm.

cytohydrolist (sī·tō-hī'drō-list), n. [Gr. κίτος, a hollow (a eell), + E. hydrol(ysis) + ist.] An enzym which attacks and breaks up the cellwall by hydrolysis.

cytolist ($si't\bar{o}$ -list), n. [cytol(ysis) + -ist.] An enzym which dissolves the cell-wall.

cytologic (sī-tō-loj'ik), a. Of or pertaining to cytology or cells.

cytological (si-tō-loj'i-kal), a. Same as *cuto-

cytologist (sī-tol'ō-jist), n. One who studies

cells or cytology. cytology (si-tol' δ -ji), n. [Gr. $\kappa i \tau o \varepsilon$, a hollow (a cell), + - $\lambda o \lambda i o$, $\langle \lambda i \gamma \varepsilon \alpha v$, speak.] The study of the structure and functions of the cells of animals and plants; especially, the study of the cells of the human body, and of the significance of changes in their form and location in disease.

cytolymph (si'tō-limf), n. [Gr. κύτος, a hollow (a cell), + L. lympha, clear water.] In eytol., the more liquid substance contained in the reticulum or alveoli of the cell-cytoplasm. Also called cytochylema and hyaloplasma.

cytolysin (si-tol'i-sin), n. [cytolys(is) + -in².] Same as *cytoloxin.

cytolysis (sī-tol'i-sis), n. [Gr. κίτος, a hollow (a cell), + λίσις, dissolution.] In pathol., the

destruction or degeneration of cells. cytolytic (sī-tō-lit'ik), a. Relating to cytolysis; having cell-destroying properties. cytomachia (sī-tō-mak'i-ā), n. [Gr. κύτος, a hollow (acell), $+ \mu \dot{\alpha} \chi \eta$, fight.] 'Cell-fighting'; a rhetorical name referring to the apparent strnggle for mastery between pathogenic mi-ero-organisms and the protective cells of the body. Buck, Med. Handbook, III. 534.

cytometer (sī-tom'e-ter), n. [Gr. κύτος, a hollow (a cell), $+\mu \ell \tau \rho o v$, a measure.] Any device used in counting cells: employed frequently in the special sense of hemacytometer.

cytomicrosome (sī-tō-mi'krō-sōm), κύτος, a hollow (a cell), + μικρός, small, + σωμα, body.] In cytol., one of the minute bodies which are supposed to make up the cytoplasm of the animal and plant cell.

cytomitoma (sī-tō-mī-tō'mä), n. Same as *cytomitome.

cytomitome (sī-tom'i-tōm), n. [NL. *cytomitoma, ζ Gr. κύτος, a hollow (a cell), + μίτος thread.] In cytol., the reticulum which forms the more solid portion of the cytoplasm of the cell; the cytohyaloplasm.

cytomorphosis (sī-tō-môr'fō"sis), n. Gr. κύτος, a hollow (a cell), + μόρφωσις, shaping.] In biol., a general term for all the structural alterations which cells, or successive generations of cells, may undergo from the earliest undifferentiated stage to their final destruction. Minot, 1901.

gocytosis.

cytophan (si'tō-fan), n. [Gr. κίτος, a hollow (a cell), + -φανίς, ζ φαίνεσθαί, appear.] The ovoid matrix surrounding the nucleus-like granules, or karyophans, in the strand of the contractile steals of contain Internal contractile stalk of certain Infusoria, as Zoöthamnium.

cytopharynx (sī-tộ-l'ar'ingks), n. [NL., \langle Gr. $\kappa i \tau o c$, a hollow (a cell), $+ \phi a \rho c \gamma \xi$, pharynx.] The gullet or esophagus of a protozoan, as a ciliate

cytophil (si'tŏ-fil), a. [Gr. κίτος, a hollow (a cell), + φίλος, loving.] In cytol.. having a disposition to combine with the receptor of a cell: a term applied to one group of amboceptors. Wasserman (trans.), Immune Sera,

cytophilic (sī-tof'i-lik), a. Same as *cytophil. Cytoplasmic bridge. In cytol., a strand of protoplasm connecting two adjacent blastomeres during the early cleavage of the egg.—Cytoplasmic cycle, that stage in the life-cycle of a micro-organism during which it is living in the cytoplasm, or cell-body, or some cell of the host organism: distinguished from the intranuclear cycle or stage. or stage,

cytoplast (sī'tō-plast), n. [Gr. $\kappa \dot{\nu} \tau o \varsigma$, hollow, (a cell), $+ \pi \lambda a \sigma \tau \dot{o} \varsigma$, formed.] In biol., one of the hypothetical bodies or units of protoplasm in the cell.

cytoplastin (sī-tō-plas'tin), n. [Gr. κύτος, a hollow (a cell), + E. plastin.] The plastin of the cytoplasm of a cell.

cytoproct (si'tō-prokt), n. [Gr. κίτος, a hollow (a cell), + πρωκτός, anus.] In zoöl., the anus of a unicellular organism, such as an infusorian.

wall by hydrolysis.

cytohydrolytic (si*tō-hī-drō-lit'ik), a. [Gr. cytopsyche (sī-top-si'kō), n. [NL. cytopsyche, κiroc, a hollow (a cell), + Ε. hydrolytic.] Relating to or of the nature of intracellular hydrolytic ferments.

The consciousness of the protoplasmic contents of a cell, according to the metaphysical contents of a cell content of a c system of E. Haeckel. Haeckel (trans.), Riddle of the Universe.

> cytoreticulum (sī"tō-rē-tik'ū-lum), n.; Cytoreticula(-13). [Gr. $\kappa \tau \sigma c$, a hollow (a cell), + L. reticulum, a little not see reticulum. L. reticulum, a little net: see reticulum.] In cytol., the network of more solid substance in the cytoplasm; the spongioplasm as distinguished from the more liquid ground substance, cytochylema or cytolymph. See cut under *cell.

> Cytoryctes (sī-tō-rik'tēz), n. [NL., ⟨Gr. κίτος, a hollow (a cell), + ὁρὐκτης, a digger, ⟨ὁρὐπσος ν, dig, excavate.] The supposed protozoan organism of smallpox and vaccina; one of the vaccine-bodies. Nature, Aug. 4, 1904, p. 324.

> **cytosin** (si'tō-sin), n. [Gr. $\kappa i \tau \sigma c$, a hollow (a cell), $+ -\sigma c + -i n^2$.] A pyrimidin derivative ($C_4 H_5 ON_3$) of the nucleinic acids, from which it is obtained as a constant decomposition-product together with xanthin bases.

product together with xanthin bases. cytosoma (sī-tō-sō'mā), u.; pl. cytosomata (-ma-ti). [NL.] Same as *cytosomc. cytosome (si'tō-sōm), u. [NL. cytosoma, \langle Gr. $\kappa i \tau o c$, a hollow (a cell), $+ \sigma \delta u a$, a body:] The body of a cell.

Cytospora (si-tos'pō-rii), n. [NL. (Ehrenberg, 1818), ζ Gr. κύτος, a hollow (a cell), + σταρα, seed (spore).] A large genus of sphæropsidaceous fungi having allantoid, hyaline spores daceous fungi naving aliantoid, hyaline spores produced in irregular chambers in an erumpent stroma buried in the surface of the host. About 200 species have been described. They occur on the branches of woody plants, and many are regarded as the pycnidial condition of species of Valsa. Also incorrectly spelled Cytospora.

cytostasis (si-tos'ta-sis), n. [NL., ⟨ Gr. κὐτος, a hollow (a cell), + στάσιε, standing.] Arrest of blood-corpuscles in the small vessels.

cytotactic (sī-lō-tak'tik), a. [cytotaxis (-tact-) + -ic.] Of or pertaining to the locomotion of cells in relation to other cells; exhibiting evtotaxis.

cytotaxis (si-tō-tak'sis), n. [Gr. κύτος, a hollow grounds (see quicks), h. [quicks], a nonnext (a cell), $+ \tau \delta z_{ij}$, arrangement.] The movement of cells, or of cell-masses, in relation to one another. The approach of cells to one another is spoken of as positive cytotaxis, their withdrawal from one another as negative cytotaxis.

cytotherapy (sī-tō-ther'a-pi), n. [Gr. κήτας, a hollow (a cell), + θεραπεία, medical treatment.] Same as *organotherapy or *opother-

cytothesis (si-toth'e-sis), n. [NL., ζGr. κύτος, a hollow (a cell), $+\theta i\sigma i\varsigma$, placing, arranging.] In

physiol., the regenerative or restorative change in a cell or neuron: the opposite of *cytolysis.

cytotoxic (sī-tō-tok'sik), a. [Gr. κύτος, a hollow (a cell), + τοξικόν, poison (see toxic).]

Effecting the destruction of cells: applied to

the action of special cytotoxins.

cytotoxin (sī-tō-tok'sin), n. [cytotox(ic) +
-in².] An adaptation-product which has specific toxic properties for the particular kind of cell which was used in immunization. Generally gean which was used in immunization. Generally speaking, those bodies result on immunization with cells from a different species, and are specific. Autocytotoxins may, bowever, also be formed. The action of the cytoxins depends appon the presence of a specific amboceptor and of a complement (see *complement*, 8) which is present in normal serum. Examples are the nephrotoxins, hepatotoxins, leucotoxius, etc. Also termed *cytolysin.

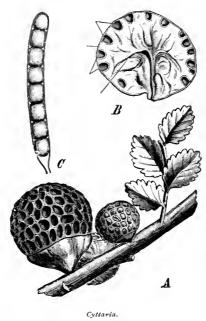
extotropic (sī-tō-trop'ik), a. [Gr. κύτος, a hollow (a cell), $+ \tau \rho \delta \pi \sigma \varsigma$, a turning.] Of or pertaining to the growth or bending of cell-masses in relation to one another.

cytotropism (sī-tot'rō-pizm), n. [cytotrop(ic) + -ism.] The growing or bending of cellmasses, or of cells, toward or away from one another. See *cytotaxis.

cytozoan (sī-tō-zō'au), a. and n. I. a. Having the characters of the Cytozoa.

II. a. One of the Cytozoa.
 cytozoā (sī-tō-zō'on), n.; pl. cytozoa (-ij).
 [NL., ζ Gr. κότος, a hollow (a cell), + ζōον, an animal.] A protozoau parasite of the red blood-corpuscles.

Cyttaria (si-tā'ri-ä), n. [NL. (Berkeley, 1841), so named from the resemblance of the plants to a wasp's nest; ζ Gr. κύτταρος, honeycomb,



A, C. Gunnii in different stages of development; B, C, C. Harioti: B, a longitudinal section through a strona: C, a mature spore-case with spores. (From Engler and Franti's ''Pflanzenfamilien.'')

wasp's nest.] A genus of discomycetous fungi having the ascomata sunker in the surface of a subspherical mostly stipitate stroma which is gelatinous when mature. About 6 species are known, mostly from Patagonia and Tierra del Fuego, where they sre eaten by the natives. They grow upon living branches of beeches, species of Nothofagus. See beech-fungus and mushroom, 1.

Cyttariaceæ (si-tā-ri-ā'sē-ē), n. pl. [NL., < Cyttaria + -aceæ.] A family of ascomycetous fungi named from the single genus Cyttaria, and having the same general characters. See *Cyttaria.

C. Z. An abbreviation of (Gould's) Cordova Zones. See *G. C. Z.

czar, tsar, n.—White Czar, a name by which (or its equivalent) the Czar of Russia is known especially in Asia.

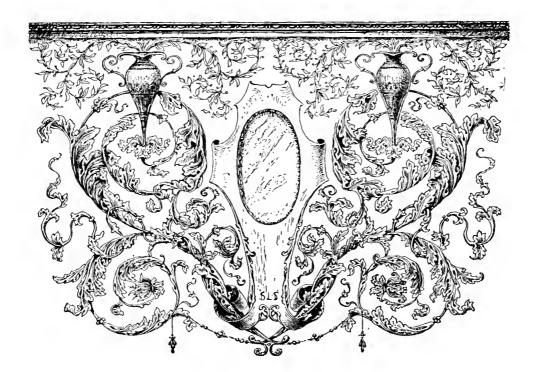
The White Tsar's people call
Aloud to the skies of lead:
"We are slaves, not freemen:
Ourselves, our children, our women—
Dead, we are dead,
Though we breathe, we are dead men all.
R. W. Gilder, In the Heights,
The White Tsar's People, i. 3.

czardom, tsardom (zär'dum, tsär'dum), n. The dominion, power, or office of a czar. czarian, tsarian (zär'i-an), a. Of or pertaining

The growing influence of the Tsar in the affairs of other nations was conditioned by the same causes as the decline of the Tsarian System within the confines of Russia.

A. Ular, Russia from Within, p. 1.

czarism, tsarism (zär'izm), n. Absolutism in government, such as that of the Czar of Russia. A. Ular, Russia from Within, p. 5.







sic, the final of the Dorian and Hypodorian modes. (b) In chem.: (2) d- before certain compounds has reference to their behavior toward

their dextrorotation, as distinguished from their inaction (i-) or levorotation (l-). (c) In math.: (2) D is also used for the number denoting the deficiency of a curve (what its number of double points lacks of the maximum).

4. As an abbreviation: (f) In law (L.), an abbreviation of Decree, Decret, Dictum. (g) In med. (d.), an abbreviation of: (1) diapter or dioptric; (2) dexter (right); (3) divide (in presentitions). (h) (h) Of Demograt Days (Co.) seriptions). (h) (D.) Of Democrat, Deus (God), Dominus (Lord), Dutch; (d.) of daughter, delete (cancel), density .- 5. Short for damn (often printed d-).

At last he flung out in his violent way, and said, with a D, 'Then do as you like.' Dickens, Great Expectations, xi.

6. Any mechanical device or appliance which resembles the letter **D**; specifically, in a har-dacryostenosis (dak"ri-\(\tilde{0}\)-st\(\tilde{e}\)-n\(\tilde{0}'\)sis), n. ness, a loop of metal which has a straight bar ioined at each end to a semicircular loop: joined at each end to a semicircular loop: ture of the lacrymal duct.

used as a support for a strap. Also written dec. See *ID-trap and ID-valve.—Radium D.

See *radium.—The D, the striking-balk in English billularists: so called because of its resemblance to the letter D turned hall-way round. Of a smaller area, substantially the same thing in form and function is styled the senicircle bulk in all three-balt games in America.

The December of the lacrymal duct.

Gr. δάκρε, tear, + σύρες, pipe, syringe.] 1.

A syringe for injecting fluids into the lacrymal duct.—2. A lacrymal fistula.

dactyl, n. 6. [Gr. δάκτελοι 'Idαῖοι, 'fingers of Ida,' in Crete.] In Gr. anhy, a mythological

Da. The chemical symbol of daryum.

D. A. A. G. An abbreviation of Deputy Assistant Adjulant-General.

dab1 (dab), adv. [Elliptic use of dab,1 r.] With a dab; without hesitation; vigorously. Ruskin.

dab2, n. -

dabb (dob), n. [Also "dhabb, dhob; < Ar. dabb (dhabb).] The palm-lizard, I romastix acanthu-(dhabb).] The palm-lizard, t'romastix acanthus scopidae, inhabiting coral sand in the trues, of the family Agamidae, found in north-Dactylanthias (dak-til-an'thi-as), n. ern Africa.

dabbler, n .- Mud dabbler, the common killifish, Fundulus heteroclitus

da camera (dä kä'me-rä). [It.] chamber?: in music, applied to music (chamber music) so distinguished from music for the church or the opera-house.

dace, n.—Black-headed dace. Same as binckhend, 2.
—Black-nosed dace, a small minnow, Rhiniehthys atronasus, of the eastern United States.—Horned dace, a epirinoid fish, Semotilus atronaculatus, found in the castern United States.—Long-nosed dace, a small minnow, Rhiniehthys cataracte of the eastern United States.—Red-bellied dace, a small minnow, Chrosmus erythrogaster, of the Mississippi valley.

Dachstein (däch'stin), n. [G. Dachstein, a mountain group in the Austrian Alps, named from the principal peak, Dachstein. In ycol., a division of the Triassic formation in the northern and southern Alps, constituting the upper division of that formation and equiva-

dacion (dä-thệ-ōn'), n. [Sp., < L. datio(n-), a giving: see dation.] In Sp. law, the actual effective delivery of a thing in the performance of a contractual obligation.

| dation (dä-thệ-ōn'), n. [Sp., < L. datio(n-), a giving: see dation.] In Sp. law, the actual effective delivery of a thing in the performance of a contractual obligation.

dacitic (dā-sit'ik), a. [dacite + -ic.] In pc- plete foot-jaw.
trog., of or pertaining to dacite; having the Dactyloidites (dak*ti-lō-i-dī'tēz), n. [NL., < mineral composition and the texture characteristic of dacite.

dacryocystosyringotomy (dak"ri-ō-sis"tō-siring-got'ō-mi), n. [Gr. δάκριου, tear, + κύστις, bag (sae), + σῦριγξ, pipe, + -τομία, < ταμεῖν, eut.] In surg., the operation of opening the laerymal sac and duct.

3. (a) In music: (3) Also, dacryocystotomy $(dak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'\tilde{\phi}-sis-tot'\tilde{\phi}-mi)$, n. the key-note of the minor key of one flat; in medieval music range of $(ak "ri-\tilde{\phi}-sis-tot'$ laerymal sac. (b) Division of a stricture of the lacrymal duet.

dacryolin (dak'ri-ō-lin), n. [Gr. δάκρυον, tear, + -ol + -in2.] An albuminous component of

polarized light, namely, to **Dacryomyces** (dak "ri-om'i-sēs), n. [NL. ion, as distinguished from (Nees, 1816), < Gr. δάκρυον, tear, a drop, + or levorotation (1-). (c) In μύκης, a fungus.] A genus of fungi of the order Dacryomycetales, having gelatinous, sessile, tlat or cushion-shaped irregular fructificastions. The spores are ovate or cylindrical, simple at first, but becoming septate before germination. About 55 species have been described, occurring mostly on decaying wood. D. abictimus is a widely distributed species occurring on rotting conifers.

Dacryomycetales (dak "ri-ō-mi-set'a-lēz), n. pt. [NL., $\langle Dacryomyees (-et-) + -ales.$] order of basidiomycetous fungi named from the genus Dacryomyces. The basidia are undivided and the species are mostly small; some are flat and spreading, others more or less stipitate and forming flattened or irregular club-shaped fructifications. Also Dacryomyce-

Dacryomycetineæ (dak*ri-ō-mi-se-tin'ē-ē), u. pl. [NL.] See *Dacryomycetales.

< Gr. δάκρυ, tear, + στένωσις, narrowing.] Strieture of the lacrymal duet.

in Crete.] In Gr. anhy., a mythological ereature supposed to have the secrets of fire and of iron-working. The dactyls were associated with the worship of Rhea and Cybele. The basis is found in some sacred stones (bætyl-stones) found in Crete, and associated with the worship of Cybele.

These bartyl-stones were called in Crete, Dactyls, Jane E. Harrison, in Jour. Hellenic Studies, XIX, 238.

lab², n.—Alaska dab, Limanda nspern, a small flounder found in Alaska.—Mnd dab, Limanda limanda, a European flounder. See dab^2 .

Dactylagnus (dak-ti-lag'nus), n. [NL., \langle Gr., pean flounder. See dab^2 . δάκτυλος, finger, + άγνος, name of a fish.] A genus of small fishes of the family Daetyloscopide, inhabiting coral sand in the tropics.

Gr. δακτύλος, finger, + άνθίας, name of a fish. A genus of serranoid tishes found in the sea of Ambeyna.

'Of the **dactylate** (dak'ti-lāt), a. [Gr. δάκτυλος, a fin-ehamber ger, + -alc¹.] In anat., having finger-like processes; digitate; fingered. A dactylate joint is one formed by the articulation of various tong and rather slender processes.

Dactylifera (dak-ti-lif'e-rä), n. pl. [NL., ζ Gr. δάκτυλος, finger, + L. ferre, bear.] An order of Platyhelmia, of the class Temnocephader of Platyhetmia, of the class Temnocephaloidea. They have the body produced into finger-shaped tentacular processes along the anterior margin, sometimes also along the lateral margins; the mouth situated anteriorly; the pharynx leading into a wide, nearly rectangular intestine which has no diverticula. It includes the families Tennocephalidæ and Actinodactylellidæ.

Dactylioida (dak*til-i-oi'dä), n. pl. [NL., \Gr. δακτέλιος, a finger-ring (\langle δάκτυλος, a finger: see dactyl), + είδος, form.] A group of the fossil ammonoid een bal oppoly a rammonites constitut.

ammonoid cephalopods or ammonites constitut-

plete foot-jaw.

Gr. δάκτυλος, finger, + είδος, form (see dacty-loid) + -ιτης, Ε. -ite².] A genus of organisms, found in the Cambrian slates, having a stellate form with rays thickened distally. These bodies are regarded by some writers as stellate fucoils, but by others are considered as easts of the internal eavities of Medium or fellyfishes.

dactylolysis (dak-ti-lol'i-sis), n. [NL., < Gr.

339

δάκτυλος, finger, + λίσις, dissolution.] In pathol., loss, by disease, of fingers and toes. See ainhum.

dactylomegaly (dak#ti-lo-meg'a-li), n. [Gr. δάκτυλος, finger or toe, + μεγαλία, largeness, < μέγας, great, large.] A condition in which the fingers or toes are abnormally large.

Dactylopius (dak-ti-lo'pi-us), n. pl. Gr. δάκτυλος, finger, + ωψ, eye, face.]

portant genus of seale-insects including all of the so-called mealy bugs so abun-dant in greenhouses. Recent writers place most of the old species of Dactylopius in the genus Pseudococcus.

dactylorhiza, n. 2. The phenomenen of rootforking.



Dactylopius citri: female. (Comstock, U. S. D. A.) Five times natural size.

dactyloscopy (dak-ti-los'kō-pi). n. [Gr. δακτυ-λος, finger, + -οκοπία, ζοκοπείν, view.] The identification of individuals by means of examination of the lines on the tips of the fingers: a method employed for the identification of criminals, records of impressions of fingertips being kept for this purpose.

dactylosternal (dak*ti-lo-stér 'nal), a. [Gr. δάκτυ' aς, finger, + στέριον, breast-hone, + -at¹] Having the lateral margins of the plastron daetylate, or provided with finger-like pro-cesses, which abut on the earapace and are often received in little depressions: said of some turtles. Amer. Jour. Sci., Feb., 1904, p. 129.

dactylozoöid (dak"ti-lō-zō'oid), n. [Gr. δακτι-Zar, finger, + E. zoord.] One of the members of a colony of Hydrozou whose function is to capture food for the gastrozoöids, or untritive members of the colony.

dadangsi (dä'däng-sē), n. [Chamorro dadangsi, sticker, \(\) dangsi, adhere. \(\) On the island of Gnam, the name applied to burweeds, especially to the dogsfoot-weed, Urena sinuata, a half-shrubby plant belonging to the mallow family, with deeply lobed palmate leaves having a nectar-gland on the lower surface of the midrib, and small rose-purple flowers; and to species of Triumfetta, belonging to the linden family, with cordate or 3-lobed leaves and cymes of small yellow flowers.

dadap (dä'däp), n. [Jav. dadap, Malay, dādap, also dědap.] Any one of several species of leguminous trees belonging to the genus Erythrina; especially E. lithosperma and E. Hypaphorus, natives of the East Indies. The dadaps are cultivated in the tropics, especially in Java and Ceylon, for shade in coffee-plantations and for the green manure afforded by their leaves.

dado-head (dā'dō-hed), n. See *dado-machinc. dado-machine (dā'dō-ma-shēn"), n. In woodworking, a modification of a gaining-machine employing a special type of cutter head, called a dado-head or groover-head, for forming

square, ornamental balustrades, etc. dædala (ded'a-lä), n. pl. [Gr. δαίδαλα, pl. of δαίδαλος, a statue, neut. of δαίδαλος, wrought by art: see dedal.] In Gr. antiq.: (a) Crude archaic wooden figures. (b) A Beeotian fesstrend described by Pausanias. The greater declala occurred every sixticth year; the lesser declala every seventh. The characteristic features of both were certain little wooden tigures which were distributed by lot among the cities of Borotia.

Dæodon (de o-don), n. [NL., irreg. < Gr.

δαίειν, divide, + ἀδοίς, tooth.] A gonus of extinct ungulate mammals of the family Titanothervidæ.

daer-stock (dü'êr-stok), u. [Mr. dāer, Olr. dör, döer, base, servile, Ir. daer, enptiye, enslaved, guilty, = Gael. daor, enslaved ($\langle do \rangle$, not, \equiv Gr. δ , σ -, ill (see dys-), + fear. man), + E. stock.] In Ir. antiq., eattle or other stock granted by a chief to a tenant for his use, ownership still remaining with the chief. Sometimes used attributively: as, duer-stock

The Dacr-stock tenant, distinguished by the limited amount of stock which he received from the Chief, remained a freeman, and retained his tribal rights in their integrity. The Dacr-stock tenant (through accepting mained a freeman and the integrity. The Duer-stock tenant [through accepting a large grant of stock from the Chief] had unquestionably parted with some portion of his freedom, and his duties are invariably referred to as very onerous.

Maine, Early Hist, of Institutions, p. 159.

daffy (daf'i), a. [daff'l (still in dialectal use) +y!] 1. Like a silly person; silly; imbecile; soft, [Prov. Eng. and U. S.]—2. Dry; insipid. [Prov. Eng.] Eng. Dial. Dict.

D. A. G. An abbreviation of Deputy Adjutant-

General.

 dag^2 , n. 4. A short tapering or pointed piece of metal like the point of a dagger, used to interlock timbers with each other, or to form the stabbing or piereing teeth on rolls for breaking coal.—5. The first antier of a buck, which is slender, almost straight, and without branches, thus resembling a dagger or dag.

dagesh, n. See daghesh.
dagga (däg'ä), n. [South African name, also
rendered dakka, daeka.] In South Africa,
Cannabis Indiea, the Indian hemp, which is used by the natives as a narcotic. It is collected, dried, and smoked by the lower classes of Hottentots, who are rendered stupid and incapable of connected work while under the influence of it. See hashish, deiamba, and Cannabis.

and tanhaois.

dagger, n.—American dagger, a noctuid moth, Apatela americana, common in the Atlantic United States, where its larvæ feed on the foliage of maple, elm, and other forest and shade trees.—Ocher dagger, an American noctuid moth, Apatela morula, whose larvæ feed on the leaves of elm and basswood.—Witch-hazel dagger, an American noctuid moth, Apatela hamamelis, whose larvæ feed on the leaves of the witch-hazel, oak, and other forest trees.

dagger-head (dag'er-hed), n. A timber placed diagonally in the launching-ways of a ship and securing certain timber shores placed between the bottom of the vessel and the bilgeways.

 dagger-moth (dag'er-môth), n.—Gray dagger-moth, an American noctuid moth, Apatela interrupta, whose larve feed on the foliage of the apple, pear, cherry, and plum.

dagmai (däg'mī), n. [Bisaya dagmai, dagmay.] ln the Philippines, a name for Caladium Colocasia, also called yabi. See tarol and Colocasia.

dago² (dä'gō), n. [Chamorro dago, a yam.]

In the island of Guam, the square-stemmed

yam, Dioscorea alata, and other species of Dioscorea resembling it.

Daguerreotype etching, in photog., a process for biting dagnerreotypes by immersing the plate in dilute hydrochloric acid opposite a platinum plate, and passing a current from a couple of Grove's cells for a few seconds. Oxychlorid of silver is formed, which, when removed, leaves the plate simficiently etched to be printed from Devised by Sir W. R. Grove.

dahlia, n.—Dahlia wartlet, Tælia crassicornis, one of the commonest British sea anemones.

dahllite (dal'it), n. [Named after the brothers Tellef and Johann Duhll, Norwegians.] A mineral containing the phosphate and carbonate of calcium and occurring in yellowishwhite fibrous crusts. It probably results from the alteration of apatite. Found at Bamle,

Dahoman (dä-hō'man), a. and n. Same as

*Dahomeyan.

Dahomeyan (dä-hō'mi-an), a. and n. I. a. Of or pertaining to Dahomey.
II. n. A native of Dahomey.

dahu (dů/hö), n. A large forest tree, Arlocarpus Lakoocha, of India and Ceylon, belonging to the breadfruit family. It has simple leaves, glabrous and shiny above and softly downy beneath. The round, velvety, yellow, acid fruit is edible when ripe; the spadix of the male flowers is pickled, and is used in curry; the seeds are eaten; the roots yield a yellow dye, the bark a fiber snitable for cordage; and from the viscous latex a cement is prepared. In Bengal called dephat (which see).

Daikoku (di-kō'kö), n. [More fully Daikokŭten: Sinico-Jap. dai, great, + kokŭ, black, + ten, deva, god; corresponding to Chin. t'ai, great, + heh (or ho), black, + t'ien, heaven, deva.] One of the seven gods of happing the large of the large ness of the Japanese; the god of wealth, whose image is found in every household. bordered and banded with black. Its larve feed on the margined. It inhabits the southwestern United States with the visor well drawn down; standing or sitting on bags of rice; carrying a mallet, the emblem of labor, in daira (di'ra), n. [Ar. dāira, cirele, household,

the right hand; and over the left shoulder a large sack (wealth), the mouth of which is grasped firmly with the left hand, thus controlling its expenditure.

daikon (di'kōn"), n. [Jap. dai-kon, < Chin, tai, great, + kūn, root.] A large variety of radish, Raphanus satirus, one of the most important root-crops cultivated in Japan. It is eaten raw or boiled, and when pickled forms the chief relish of the people.

daimiate (di'mi-at), n. [daimi(o) + -ate³.] The position, territory, or jurisdiction of a

daimioate, n. Same as *daimiate

Daimonelix (di-mon'ē-liks), n. [NL., irreg. < Gr. δαμων, demon, + ἐλιξ, spiral: see helix.] An erect, spiral, gigantic fossil found in great



Daimonelix in position, Arikaree formation. Sioux Nebraska. Average height six to seven feet.

Daimonelix in position, Arikaree formation. Sioux County, Nebraska. Average height six to seven feet.

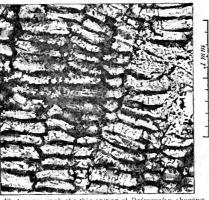
Tertiary) of northwestern Nebraska, chiefly in Sioux county, and also in eastern Wyoming

Daimonelix in position, Arikaree formation. Sioux County, that the Mis, house.] A house that ched with straw or reeds. [South Africa.]

Dakota formation. See *formation.

Dakotian (da-kō'ti-an), a. Same as Dakotan.

L.H. Morgan, Ancient Society, p. 154. in Sioux county, and also in eastern Wyoming and southern South Dakota. These anomalous fossils, thought by some to represent the burrows of tertiary rodents, consist throughout of intertwining plant fibers of roots of varying size, which, in section, invariably yield perfectly preserved plant-tissue, a fact which led the discoverer to assign them to the vegetable kingdom. Though of diverse form and varying size, two principal kinds are conspicnous, the one with, the other without, an



axis. Daimonelix, though known for years to the cowboys and ranchmen as the devil's corkscrew, was first definitely described by Erwin II. Barbour, State geologist of Nebraska, in 1891. Collections of specimens are now to be found in the large museums of the United States, notably that of the University of Nebraska, the Field Columbian Museum, the Carnegie Museum, and the United States National Museum.

daimonion (di-me'ni-en), n. [Gr. δαιμόνιαν, prop. neut. of δαιμόνιος, adj., < δαίμων, demon.] Same as demon, 1: usually with reference to the demon of Socrates.

dainanago (di-nā-nā'gō), n. [Jap. Tainan, a port of southern Formosa, + anago, eel.] A name of the conger-cel of Formosa, Leplocenhalus erebennus.

dainty, a.—Dainty sulphur, an American pierid hutterlly, Nathalisiole, of very small size and yellow color bordered and banded with black. Its larve feed on the marigold. It inhabits the southwestern United States and Mexico.

private estate, \(\langle d\vec{a}r \), go about.] The private estates of the Khedive of Egypt.

Dairy scales. See *scale2. dairy-farmer (da'ri-farm"er), n. A farmer who operates a dairy-farm.

dairy-farming (da'ri-farm"ing), n. That branch of agriculture which is specially devoted to the production of milk and the manufacture of butter, cheese, and other milk pro-

dais, n.—Chamber of dais. See *chamber. daisy, n. 4. A kind of sea-anemone, Actinia

daisy, n. 4. A kind of sea-anemone, Actinia bellis. [England.]—Big daisy, the oxeye daisy.—Blue daisy, (b) The chicory.—Blue spring-daisy, the robin's-plantain, Erigeron putchellus, from its early flowering and the color of the rays. See plantain!.—Bull's-eye, butter-daisy (b) Names for the oxeye daisy.—Childing daisy, dicky-daisy, the English daisy.—Childing daisy, dicky-daisy, the English, European, garden daisy. See *doy-daisy.—English, European, garden daisy.—Red daisy, the orange hawkweed.—Shasta daisy, a perennial herb which bears very large white-rayed flowers resembling the white field-daisy in general form: originated by Luther Burbank, and apparently of hybrid origin. It is hardy in New York.—White daisy, the oxeye daisy, unore commonly called whiteweed.—Yellow daisy, yellow oxeye daisy, the common cone-flower, Rudbeckia hirta.

daisy-fleabane (dā "zi-flē' bān), n. See fleabane. daisy, n. bellis.

Dajidæ (daj'i-dē), n. pl. [NL., < Dojus + idæ.] A family of isopod crustaceans parasitic upon schizopods. Dajus is the typical genus.

Dajus (dā'jus), n. [NL. (Kröyer, 1846, G. spelling for *Daius), Gr. δάιας, destructive.]
The typical genus of the family Dajidæ.
Dak. An abbreviation of Dakota.

daka (dä'kä), n. [Also dacca, prop. dhaka: see def.] An East-Indian muslin of fine and delicate texture, made on the native loom in the district of Dhaka, or Dacca, Bengal.

dak-boat, dawk-boat (dâk'bōt), n. [Hind. dâk, a post, + Eng. boat.] A mail-boat. [Anglo-Indian.]

dakhuis (däk'hois), n. [D., \dak, roof, thatch,

Daksha (dak'sha), n. [Skt. Daksha, lit. activity, capacity, power, as adj. able, active, dexterous: see dexter.] In Hindu myth., a son of Brahma, of whom grotesque legends were told.

dal² (däl), n. [D., = E. dale¹.] A valley. [South Africa.]
dalaga (dä-lä'gä), n. [Tagalog dalaga = Pampanga dalaga, prob. C Skt. däraka, boy, son, in dual two boys, or boy and girl. Ct. Malay dära, maidenhood, anak dära, a young woman, a maid, C Skt. därä, a wife.] In woman, a maid, (Skt. dārā, a wife.] In Luzon, Philippine Islands, a young unmarried woman; a girl.

Dalarnian (da-lär'ni-an), a. [Sw. Dalarne, 'the valleys,' otherwise Dalecarlia, a former province of Sweden: see dale¹.] In geol., a scries of Precambrian rocks in Sweden.

Dalatiidæ (dal-a-ti'i-dē), n. pl. [NL., \(\) Dalatius + -idæ.] A family of sharks typified by the genus Dalatius, otherwise known as Scymnus or Scymnorhinus. The typical species is D. licha of the Old World.

daler (dä'lèr), n. [Sw.: see dollar.] A copper coin, of fictitious value, of Charles XII. of Sweden.

Sweden.
dalesfolk (dālz'fōk), n. pl. Dwellers in a dale or valley; dalesmen. Mary Howitt.
daleth (dă'leth). n. [Heb. dāleth. prop. dālet: see delta, D.] The fourth letter (7) of the Hebrew alphabet, corresponding to the English D. Its numerical value is IV.
dali² (dâ'lê), n. [Hind. dāli.] See dolly⁴.
Dalibarda (dal-i-bār'dā), n. [NL., (Linnæus, 1753), named in honor of Thomas François Dalibard (1703-79), a French botanist.] A genus of plants of the family Rosaceæ, closely related to Rubus, but distinguished by the nearly dry drupelets inclosed at maturity by nearly dry drupelets inclosed at maturity by nearly dry drupelets inclosed at maturity by the connivent calvx lobes. The only species, *D. repers*, a native of northeastern North America, is a low perennial unarmed herb, with slender root-stocks bearing tufts of simple, cordate, crenate leaves, the scape-like peduncles bearing 1 or 2 delicate white flowers. It has much the habit of a strawberry. See *devedrop. 2.

dallastype (dal' as-tip), n. [Dallas (D. C. Dallas, inventor of the method, 1875), + type.]

A process used in the early days of photo-engraving: now superseded by more modern methods.

Dalmanites (dal-ma-nī'tēz), n. pl. [NL., < Dalman, a proper name, +-ites, E.-ite².] A genus of trilobites of the family Phacopide, in I which the test is distinctive. Dalmanites (dal-ma-nī'tēz), n. which the test is distinctly divided into three subequal areas both longitudinally and horisubequaf areas both longitudinally and norracontally. The glabellum is large, with prominent frontal lobe and three pairs of lateral lobes, the compound eyes very conspicuous and schizochroal, thorax with eleven grooved segments, pygidium large, with many segments and usually a caudal spine. It is very characteristic of the Silurian and Devonian formations.

dalmatic, u. 2. The imperial mantle, resembling the ecclesiastical dalmatic, worn by kings and emperors at coronation and on other important coursions.

aings and emperors accoronation and on other important occasions. The dalmatic worn by Queen Victoria when she was crowned in Westminster Abbey, June 28, 1838, was of cloth of gold.

dalo (da'1o), n. [Fijian dalo, < Polynesian turo.] In Fiji, Caladium Colocasia, the roots and leaves of which are approach.

and leaves of which are among the principal food-staples of the natives. See ture

Daltonist (dâl'ton-ist), n. Same as Daltonian. dam¹, n. 5. A fire-brick wall forming the dam¹, n. 5. A fire-brick wall forming the front of the hearth or erucible of a blast-furnace, through which the tap-hole is formed. nace, through which the tap-hole is formed.

—Bear-trap dam, a species of movable dam used in the canalization of rivers for purposes of navigation. It consists of two large plates or leaves, each hinged above its lower edge, one pointing down-stream and the other up-stream. The distance apart of the hinged edges is such that when both are horizontal the leaf pointing down-stream overlaps the other leaf. When both are raised, the free edges of the two leaves approach one auctor, and form a fint triangle nearly issuedes. In this other up-stream. The distance apair of the Imiged edges is such that when both are horizontal the leaf pointing down-stream overlaps the other leaf. When both are raised, the free edges of the two leaves approach one auther and form a flat triangle nearly isosceles. In this position the two leaves form the barrier to daon back the water of the stream. When it is lying that on the bottom of the river the dam does not obstruct the stream. It is lowered during high water and during those periods when the natural flow or depth of the stream is adequate for purposes of navigation. When it is desired to increase the depth artificially, the dam is raised. This is accomplished by admitting water through submerged enliverts and shines into the space under the two leaves from a pool artificially created at a short distance upstream. The pressure of the water mader the leaves raises them somewhat, and with them the level of the water above the dam. This still further increases the pressure of the water under the leaves, and under its influence the leaves continue to rise to any desired height within the limits of movement provided. The dam is lowered by closing the gates connecting the space under the dam with the nipper pool of the river, and opening corresponding gates which connect the space under the leaves with the river below the dam. The internal pressure heing thus diminished to a value less than the external pressure due to the load of water on the outside of the dam, the leaves gradually fall. The internal pressure heing thus diminished to a value less than the external pressure due to the load of water on the outside of the dam. This type of dam was first devised in 1818 by Joshah White, a Philadelphia merchant, to meet the needs of coal navigation on the Lehigh river, in Pennsylvania, and was soon adopted extensively on logging-streams in Pennsylvania and chanda. Chanda dam, to meet the needs of coal navigation on the Lehigh river, in Pennsylvania, and chanda. Of ordinal device which can be propose of forcing

a spiasn-dam, Dama, n. This, the generic name for the European fallow-deer, Dama dama, or D. vulgaris, was for a short time used for the American deer generally placed in the genus Odocodeus of Rafinesque, which has precedence completions. er Cariacus.

damage, n.—Contingent damages, those given where the issues upon counts to which no dennurrer has been filed are tried, before demurrer toone or more counts in the same declaration has been decided. *Boucier*, law in the same declaration has been decided. Bourier, Law Diet.—General damages, in law, damages which necessarily result from the commission of a wrong or breach of contract, and therefore need not be specially pleaded in the complaint or declaration.—Intervening damages, damages which arise after judgment or order: suffered by an appellee by reason of delay caused by an appeal from the judgment or order.

damalic (da-mal'ik). a. [Gr. δάμαλα, fem. (δάμαλα, m.), a young cow, + -ιc.] Derived from the cow.—Damalic acid an overanic substance

from the cow. - Damalic acid, an organic substance found in the urine of the cow.

lamaluric (dam-a-lū'rik), a. [Gr. δάμαλις, a young cow, + ονρον, urine, + -ic.] Derived from damaluric (dam-a-lñ'rik). a. the urine of the cow.—Damaluric acid, an seid, $C_8\Pi_{10}\Omega_2$, said to occur in cows' urine.

damascenine (dā-mas'ēn-in), n. cena (see def. +-inc².] An alkaloid, $C_{10}\Pi_{15}$ O_3N , contained in the seed-coats of Nygella Damascena L. It melts at 27° C., boils at 168° C., and gives blue fluorescent solutions.

damask, v. t. 3. To deface or destroy by

stamping or marking: as, to damask seditious

Damaskeen texture, in petrog., the interlaced, variegated, appearance of some varieties of obsidian, produced by differences in color of glass or of varieties of microlites.

dambosite (dam'bos-it), n. Same as dambonite.

Damburneya (dam-ber'nê'ya), n. [NL. (Rafinesque, 1838), named for L. A. Dambourney (1722-95), a French botanist.] A genus of dicotyledonous trees of the family Lauraceae. See Nectandra.

dammar, n.—Philippine dammar, a resin obtained from Dunonara Philippinensis (Agathis loranthifolia of Blaoco, not of Salisbury), a large coniferous tree growing in the mountain districts of Luzon, Camarines, and several other of the Philippine Islands.—Rock dammar, the commercial name for the resin obtained in Burna from Neisandra adorata.

dammaran (dam'a-ran), n. [dammar + -an.]A neutral resin, $C_{40}\Pi_{62}O_{6}$, one of the constituents of Australian dammar-resin.

dammarol (dam'a-rol), n. [dammar + -ol.]
A volatile oil obtained by the distillation of [dammar + -ol.] Australian dammar-resin.

dammarone (dam'a-rōn), n. [dammar + -one,]
A volatile oil obtained by the distillation of Australian dammar-resin with lime.

dammar-pine (dam'är-pin'), n. A tree, Dammara alba. See Dammara.'
dammaryl (dam'a-ril), n. [dammar + -yl.]

A tasteless, odorless powder, $C_{45}H_{72}$, obtained from dammar-resin. It softens at 145° C. and melts at 190° C.

damnation, n.- Legacy by damnation. See

damnous (dam'nus), a. [L. damnosus, \ damnum, hurt.] In law, of or pertaining to damage; causing loss or damage.

damnum fatale (dam'num fā-tâ' lē). [NL.] In civil luw, damages caused by reason of chance, that is, by the happening of an event which could not be foreseen or guarded against by the highest degree of prudence or care.

damp, n. 6. The popular name of a disease which attacks young seedlings and succulent plants, causing them to rot off near the surface of the ground. An excessively moist atmosphere is particularly favorable for its development. Pythium De Barganum is responsible for most of the "damp" in encumbers, egg-plants, peas and similar plants while a species of Rhizochonia causes this disease in cotton, and Alternaria tennis produces the effect in tobacco. Also called damning of damping of

damp, v.- Damped vibration. See *vibration. dampener, n. 2. in laundry-work, a machine dampening collars, cuffs, and other garments previous to ironing. One type employs metal and rubber rolls for spreading a film of water over the collars or other pieces as they pass between the rolls.

dampening-press (damp'n-ing-pres"), n. A machine for pressing laundered garments that have already been sprinkled with water or otherwise dampened; a combined sprinklingmachine and press.

damper, n. 1. (c) In elect.: (t) An attachment which makes a measuring-instrument aperiodic or dead-beat; that is, so that it assumes its final position without oscilla-It usually consists of vanes moving in a closed air space or in a liquid, or of conductors moving in a magnetic field. (2) The appliance in a synchronous machine or motor used to prevent surging. See ★amortisseur.

damper-action (dam' per-ak "shon), n. In pianoforte-making, a collective term for all the parts which compose and control the dampers. damper-flange (dam'per-flanj), n. In piano-forte-making, the wooden piece, fastened to the action-rail, to which the damper-lever is pivoted. See cut under pianaforte.

damper-head (dam'per-hed), n. In pianoforte-making, the padded head or cross-piece of a damper which is designed to check the vibrations of the strings when the key is released.

See cut under pianoforte. damper-lever (dam'per-lev"er), n. In piano-forte-making, the wooden piece that connects the damper-lifter with the damper-head. See cut under pianoforte.

damper-lifter (dam'per-lif"ter), n. In pianoforte-making, the connective piece between the whip and the damper-lever; also called spoon, from its shape. See cut under pianoforte. damper-spring (dam'per-spring), n. In piano-

forte-making, the spring which presses the damper-head against the string when the key is re-

leased. See cut under pianoforte.
damper-wire (dam'per-wir), n. In pianofortemaking, the wire that carries the damper-lever.

See cut under punnforte.

damping, n. 2. (b) The stopping of the tendency to surge or hunt, in synchronous ma-chines, as alternating-current generators or synchronous motors or converters, by means of

elosed low-resistance copper turns inserted in the pole-faces of the magnetic field. See *amortisseur.—3. Premature decay in plants, especially young seedlings, attributed to exces-See *damp, 6. sive moisture.

damping-coil (dam'ping-koil), ". In cleet a wire used to check the vibrations of the needle or moving parts of a galvanometer or dynamometer by means of the Foucault currents induced in the coil.

damping-machine (dam/ping-ma-shēn"), n. 1. A machine used for dampening or moistening certain classes of wool fabrics, to render the fibers of the nap more flexible and susceptible of the quality of finish desired. Another form of damping-machine is sometimes used for cotton cloth, to improve its feel and appearance.

2. A mechanism used by printers for the quick dampening of paper to make it pliable

under impression.

damping-off (dam'ping-ôf"), n. The decay of young plants, particularly of seedlings and euttings, at the surface of the ground. See $\star damp, n.,$

damp-proof (damp 'prof), a. Proof against

damp: as, a damp-proof course of masoury. damsel-bug (dam'zel-bug), n. Any heterop-terous insect of the family Nabidæ, a group of small predatory bugs often included in the small predatory bugs often meladed in the family Reduviidæ.—Black damsel-bug, a heteropterous insect, Coriscus subcoleoptratus, of the family Nabidæ, common in the northern United States. It is black in color and has yellowish legs, and usually radimentary wings.—Blonde damsel-bug, a heteropterous msect, Coriscus ferns, of the family Nabidæ, a third of an inch long, and light yellow in color, dotted with brown. It is found in both Europe and North America, Inding in flowers to capture the small insects which frequent them.

damsel-fish (dam 'zel-fish), n. A name in travical regions of various species of the fam-

tropical regions of various species of the family Pomucentrida, especially of those which have brilliant colors.

dan3 (dan), n. [Prob., like dan2, a rustic reduction of dandy1, applied to various mechanical

appliances.] Nant., a small buoy having a pole on which is displayed by day a flag and by night a lantern. It is used to indicate both the position of deep-sea fish-lines and a center around which a steam trawler is worked.

Dan. An abbreviation of Danish.

Danæa (då-nê'ä), n.
[NL. (J. E. Smith,
1793), named in honor of Giovanni Pietro
Maria Dana, professor of botany in Turin.] A genus of marattiaceous ferns which comprises about 20 species of similar appearance, restricted to the humid forests of the West Indies and tropical America. The sterile fronds are from 1 to 3 feet high and mostly once pinuate, the pinuse opposite and articulate to the rachis, the vein mostly forked and parallel. The fertile fronds are of similar shape, but somewhat reduced, and the numerous sessions are the first parallel and the forms are the first parallel and the f sile sporangia are borne along the free veins and fused into more or less sunken linear synangia which open eventually by apical pores. Most species have the stipes one or several times nodose. One of the best known is *D. alata*, **danaïdin** (da - nā ' i - din), n. [dana-in + -id,

danain (da-na 1-din), as fraction + in².] A resinous compound, C₂₂ll₂₀O₆, obtained by the hydrolysis of danain.

danaīn (dan'a-in), n. [Nl. Danais (see def.) + in².] A glucoside, C₁₄H₁₄O₅, contained in the root of Danais fragrams.

danaine (dan'a-in), a. and n. I, a. Of or belanding to the cultivaries to

longing to the subfamily *Dunainæ*.

II, n. A member of the subfamily *Danainæ*. danaro (dă-nă'rō), n.; pl. danari (-ē). [It., < L. denarius: see denarius, denier².] An Italian coin, the denier.

dance, v. II. trans. 4. In the West Indies, especially Trinidad, to clean and polish (caeao) by treading it with the naked feet. The friction caused by the treading removes the mildew from the outside of the beans and at the same time polishes them.

dance, n.— Green-corn dance, a ceremonial connected with the ripening of Indian corn.— Pyrrhic dance. See pyrrhic1, n. 1.—St. Guy's dance, St. John's dance,

dance-fly (dans'fli), n. Any fly of the dipterons family Empididæ, or Empidæ: so named from the dance-like mode of flight.

dance-hall (dâns'hâl), n. A hall, usually in connection with, or as an annex to, a saloon, where dancing is earried on. [Chiefly U. S.] dance-house (dâns'hous), n. 1. A dance-hall.

-2. A house in which ceremonial dances, or



dancer, n. 4. Same as dandy-roller.
dance-society (dans'sō-sī*e-ti), n. ln anthrop.,
a society which has the duty or the privilege of performing a certain religious ceremonial the chief outer expression of which is a dance.

On superficial examination various tribes appear to be organized according to identical principles, but fuller knowledge generally reveals differences among the similarities. From this it was concluded that such terms as gens, band, age-fraternity and dance-society have no stable or exact meaning and hence little descriptive value, detailed information being the great desideratum.

Science, May 31, 1901, p. 864.

dancette, n. 3. In silver and metal work, decoration relieved by the addition of twisted

wire.

dancing-mania (dan'sing-mā/ni-ä), n. A form of saltatory chorea associated with religious ecstasy, occurring in wide-spread epidemics in the middle ages.

dancing-rattle (dán'sing-rat"), n. A rattle used to accompany dances, particularly dances that form part of religious ceremonials. Rat-zel (trans.), Hist. of Mankind, II. 274.

dancing-stilts (dan'sing-stilts), n. Stilts used

in dames. Such stilts were used by the natives of the Marquesas Islands, and are also common in China. dandie dinmont (dan'di din'mont), n. A small, long-bodied, short-legged, coarse-haired breed of terriers popular in Scotland, named after Andrew (Daudie) Dinmont, a character in Scott's novel "Guy Mannering," who possessed such a dog.

dandruf, dandrif, n. Simplified spellings of dandruff, dandriff.

dandy, n. 5. (a) A roller placed on a machine in advance of another, to perform a preliminary operation. (b) See dandy roller.—6. An openwork basket or vessel, used either to earry fuel, or to confine fuel in a larger grate, or to hold pig-iron in a furnace-hearth for preliminary heating.

Pantiles, on occasion the only article of food, are what the self-satisfied landlubber would call biscuits. They are served with a liberal hand, but the stock is protected by their almost irrefragable character. Out of pantiles a delectable dish is to be made by vigorous pounding in a bag, followed by the admixture of some handy liquid, preferably old pea soup, with the addition of a little fat pork. When this creation is browned in the oven it becomes "dog's body." Should there be molasses to add, the result is "dandy-funk."

C. Protheroe, Life in the Mercantile Marine.

dandy-jack (dan'di-jak), v. i. To play the

dandy-jack (dan di-jak), ...
juckulundy (which see).
dandy-loom (dan'di-löm), n. Originally a land-loom with a take-up mechanism for the woven cloth, invented by William Redeliffe.

H. n. One of the Daphniacea.

II. n. One of the Daphniacea.

daphnite (dat'nit), n. [Gr. δάφνη, lanrel, + -ite².] A rare member of the chlorite group,

to operation by power.

dandy-rig (dan'di-rig), n. The rig of a kind of yawl or sloop known as a dandy. See

dandy-roll (dan'di-rol), n. Same as dandy-

Dane, n.—Great Dane, a breed of powerful, straight-haired dogs, standing from 24 to 30 inches high at the shoulders. The muzzle is rather pointed, the tail thin and wiry. The Danes are usually plain mouse-color, but there are spotted and brindled varieties.

wiry. The Danes are usually plain monse-color, but there are spotted and brindled varieties.

Danebrog, n. 2. The Danish national flag—

a white cross on a red ground. Also Danne
D. A. Q. M. G. An abbreviation of Deputy Danebrog, n. 2. The Danish national flag-

Danes' money. See *money.

Danes' money. See *money.

Danger ball. See guilty *ball.

danger-line (dān'jēr-lin), n. A line, real or imaginary, marking the boundary between apparent safety and danger, as the fire-lines at a conflagration, or the line or level on a river-bank above which the rising waters of a river in flood may overflow, or burst the banks.

**Touthbu Weather Rev., Jan., 1902, p. 3.

**Touthbu

Monthly Weather Rev., Jan., 1902, p. 3. dangersome (dān'jēr-sum), a. [danger + -some.] Dangerous. [Prov.] dangle (dang'gl), n. One of the points, bobs, rings, or the like, that dangle from an object. dangle-foot (dang'gl-fnt), n. The dropping of the anterior part of the foot in consequence of paralysis of the flexor muscles in the anterolateral part of the leg. dangle-money (dang'gl-mun"i), n. An early

dangle-money (dang'gl-mun"i), n. An early Chinese bronze coinage, so called from its resemblance to and former use as dangles of a musical instrument. Also called bridge-money.

religious ceremonials connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, are performed.

| Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Danian (dā'ni-an), n. [L. Dania, Denmark, Connected with dances, Danian (dā'ni-an), n. [L. Dania, Danian (dā'ni-an), n. [L. Dania, Danian (dā'ni-an), n. [L. Danian (dā'ni-an), n. tem in France and Belgium, wanting in the English series.

Dankali (dän-kä'lē), n. One of the dialects of Abyssinia, sometimes grouped with Galla, Somali, and other dialects in a 'Cushite'

division of Hamitic languages.

Dantean, a. II. n. A student of Dante. Danthonia (dan-thō'ni-ä), n. [NL. (De Danthonia (dan-thō'ni-ā), n. [NL. (De Candolle, 1805), named in honor of Etienne Danthoine, a French botanist.] A genus of grasses. There are about 100 species, belonging to the tropical and temperate regions of both hemispheres. D. penicillata, of Australia, widely distributed in that country and known of Australia, which discribing in maccountry and known as wallaby-grass, is valued for spring pasturage. D. Californica is an important element in the natural pasturage of the Pacific coast of the United States. D. spicata, known like other species as wild out-grass, is a characteristic plant of worn-out pastures in the northeastern United States.

Danubian corn. See *corn¹.
Dapedius (da-pē'di-ns), n. [NL., ζ Gr. δάπεδον, ground, pavement.] A genus of ganoid fishes of the family Dapedidæ, having flattened ovate bodies with elongate dorsal and anal fins and

dicotyledonous archiehlamydeous (choripetalous or apetalous) plants of the order Daphnules, by some included in the order Myrtales, the mezereon family, typified by the genus Daphne (which see). See also Thymelæaccæ, by which name it was long known.

Daphnales (daf-nā'lēz), n. pl. [NL. (Lindley, 1833), < Daphne + -ales.] An order of dicotyledonous archichlamydeons plants, including 6 families, of which the Daphnacew and Elæagnaceæ are the most important. In Lindley's elassification, of which it is the daphnal alliance, it included the Proteaceæ and Lauraceæ, which are now referred to different orders.

reterred to different orders.

dandy-cart (dan'di-kärt), n. A kind of spring-cart, used by milkmen, etc. N. E. D.

dandyfunk (dan'di-fungk), n. Naut., a kind of pudding formerly well known among seafaring men.

Pantiles, on occasion the only article of food, are what the self-satisfied landlubber would call biscuits. They are served with a liberal hand, but the stock is protected by

reterred to different orders.

Daphnean (daf'nē-an), a. Of or pertaining to the nymph Daphne. T. Hardy.

Daphnephoria (daf-nē-fō'ri-ā), n. [Gr. δαφνηφορείν, ν., < δαφνηφορείν, ν., < δαφνηφορείν, λ. (δαφνηφορείν, λ Greece. It occurred once in eight years, but was probably at first annual. A boy, richly dressed, and with his long hair let down, headed the procession. He was followed by his nearest relative carrying the decorated pole and a band of singing-girls holding olive-branches.

daphnetic (daf-net'ik), a. [daphnet-in + -ic.] Connected with daphnetin.—Daphnetic acid, a hypothetical acid, (HO)₃C₆H₂CH:CHCOOH, (2:3:4:1), known only in the form of salts and of its anhydrid, daphnetin.

in small spherical forms with concentric and radiated structure; it is characterized by the presence of ferrous iron with almost no magnesium.

dapicho (dap'i-chō), n. [Braz. tapicho, classed doubtfully as a Tupi word; compare Guarani tapichá, similar.] A South American name for the caoutchouc from the roots of Siphonia

dark I, a.—Cathodic dark space or Crookes's dark space. Same as Crookes's *space.—Dark Continent, a name applied to Africa by H. M. Stanley (1878), probably in allusion to the lack of knowledge with regard to it, as well as to the dusky complexion of its inhabitants.—Dark lightning, radiation, segment. See *lightning, radiation, segment, See *lightning, etc.—Dark slide, in photog, the holder for the sensitized plate; plate-holder; single or double back.—Dark star. See *star1.

darkling at A. Sitting in the dark.

An early darkling, a. 4. Sitting in the dark.

As to Eusapia, in Appendix A (not Appendix B, as the notes say), Dr. Maxwell criticizes the Cambridge report on her deceptions. Dr. Hodgson deliberately allowed her

to release her hand from his hold, informed the darkling company that phenomena were about to occur, and occur they did. Athenæum, June 3, 1906, p. 693.

dark-sighted (därk'si"ted), a. In psychol. optics, adapted to light, and therefore seeing objects as if tinged with black.

If we pass, again, from light to dark, our eye is dark-ighted.

E. B. Titchener, Exper. Psychol., 1. i. 23.

Darluca (där-lū'kä), n. [NL. (Castagne, 1851), named after Michel Darluc, a French naturalist and physician.] A genns of sphæropsida-ceousfungi having globose, superficial pyenidia and mostly spindle-shaped hyaline spores provided with polar appendages. Eight species have been described most of which are parasitic on rusts (Uredinales). D. Filum is a very common cosmopolitan

darning-egg (där'ning-eg), n. Same as darnina-ball

darning-needle, n.darning-needle, n.—Eve's darning-needle. Same as Adam's needle and thread, the Vucca filamentosa. daroga (dä-rō'gā), n. [Also darogha, daruga, droga, etc.; < Hind. dārōghah.] An overseer;

inspector; superintendent; governor: a title (originally Mongol) applied in India to various executive officers. Yule and Burnell.

an almost equally bilobed tail. It occurs in the Trias and Lias of Europe and India.

Daphnaceæ (daf-nā'sē-ē), n. pl. [NL. (St. Hilaire, 1805), < Daphne + -aceæ.] A family of distribution of provided the state of the state of

Your only dart is to buy a staunch horse with a tip-cart. Rolf Boldrewood, Nevermore, iii.

7. Idea; 'style'; fancy: as, "strawberries and cream, eh!-that's my dart." (Australian slang.

stang.]
darter, n., 3. (a) (2) of these small brilliantly colored fishes of the fresh waters of the eastern United States about 50 species are known, the following being the most common: the black-sided darter, Hadropterus aspero; the blue darter, Etheostoma caruleum; the blue-breasted darter, Etheostoma camurum; the fan-tailed darter, Etheostoma fabellare; the green-sided darter, Dipleson blennioides; the johnny darter, Bolcosoma nigrum; the least darter, Microperca punetulata; the manitou darter, Percina caprodes, var. zebra; the tessellated darter, Bolcosoma olmstedi.

Agrt.-fish (därt-fish), n. A carangoid fish, Tra-

dart-fish (därt-fish), n. A carangoid fish, Tra-chynotus russelli, inhabiting Australian waters. dartman (därt 'man), n.; pl. dartmen (-men). A warrior or soldier armed with darts or javelins.

dartwood (därt'wid), n. A small rubiaceous tree of the West Indies, Chomelia fasciculata, used for darts and arrows.

darwinite (dar'win-it), n. [Darwin + -ile².]
A mineral found in Chile. Same as whitneyite. Darwin's point, process, tip. Same as Darwin's tubercle (which see, under tubercle).
das (das), n. [D. das = G. dachs, a badger.]

Same as dassy.

dash, n.—Black dash, an American hesperiid butterfly, Limochores pontiae, blackish brown in color with yellow on the basal half of the fore wings: found from Massachusetts to Nebraska.—Long dash, an American hesperiid butterfly, Thymelicus mystic, occurring in the northeastern United States and feeding in the larval state on

dash2 (dash), n. [Also dashee; W. African.] A present or gratuity; a cumshaw. N. E. D. dash-box (dash'boks), n. A dash-pot; a cylinder in which a partial vacuum is created by more or less withdrawing a piston. On the re-turn of the piston by its weight or a spring, the air below is compressed and released through controlled openings, causing the valve to seat with less shock or with none.

dashee (dash' $\bar{\epsilon}$), n. [W. African.] Same as $\star dash^2$, n.

dash-foot (dash 'fut), n.; pl. dash-feet (fēt). An iron, fitted to receive and retain the dashframe, attached to the inner side of the front

dash-plate (dash-plāt), n. A plate sometimes fixed in a marine boiler, over the fire-box, to prevent the crown-sheet from being left bare prevent the crown-sheet from being left bare when the ship heels or rolls heavily. Such a plate holds the water from running to leeward as the ship rolls, and hence the crown-sheet does not get overheated. Also called division plate.

dash-rail (dash'rāi), n. A rail placed outside of the covered rails of the dash of a carriage.

Dasistoma (dā-sis'tō-mā), n. [NL. (Rafinesque), irreg. < Gr. δασύς, shaggy, + στόμα,

month: in allusion to the hairy throat of the corolla.] A genus of plants of the family corolla.] A genus of piants of the taining Scrophulariaceæ. It is related to Gerardia, but differs in its yellow flowers, with the cells of the authers awned at the base. There are about 8 species, natives of eastern North America, variously known as false foxglore, yellow foxglore, etc. One of them. D. Virginicum, is sometimes called golden oak, because of the shape of its leaves.

dastur (da-stör'), n. [Also destour, destoor, dustoor; Pers. dastūr, (Pahlavi dastūbār, ehief

dustoor; Fers. austur, N ramay raustoour, Since councilor, chief priest. Compare dustoor, custom.] A chief priest.

Dasyatidæ (das-i-at'i-dē), n. pl. [NL., < Dasyatis + -udæ.] A family of sting-rays, typified by the common sting-ray of Europe, Dasyatiana, The Tays of this family have small yats pastinaca. The rays of this family have small teeth and a slender tail usually provided with a strong serrated apine which may inflict a dangerous wound. The name of the family is usually Tragonidæ, but the name Dasyatidæ is older.

Dasyatinæ (das*i-ä-ti'nē), n. pl. [NL., < Dasyatis + -inæ.] A subfamily of sting-rays typified by the genus Dasyatis, characterized within the family by the slender tail.

Dasyatis (das-ī'a-tis), n. [NL. (Rafinesque, 1810), later corrected to Dasybatis and Dasybatus, $\langle \text{Gr. } \delta aaic$, thick, $+\beta aric$ (also $\beta airoc$), a ray or skate.] The typical genus of stingrays, represented by numerous species on both rays, represented by numerous species on boun sides of the Atlantie, in the South Seas, and about the East Indies. Usually ealled Trygon.

Dasyhatus (da-sib'a-tus), n. [NL., ζGr. δασίς, thick, + βάσς, a ray or skate.] An emended form of *Inasyatus.

Despotting [Age_i] kot 'ns) n. [NL., ζGr.

Dasycottus (das-i-kot'us), n. [NL., ζ Gr. δασίς, rough, + κόττος, a fish (see Cottus).] Α



(From Bulletin 47, U. S. Nat. Museum.)

genus of small soft-bodied sculpins found in the deep waters of the North Pacific.

dasyphyllous, a. 2. Having thickly set leaves.

— 3. Having thick leaves.

dasyproctine (das-i-prok'tin), a. Relating to or like the agutis which belong to the genns Dasyprocta.

dasypygal (das-i-pi'gal), a. [Gr. δασίς, hairy, + πυγή, rump.] Having the posteriors covered with hair: said of the large anthropoid ages as distinguished from the gibbons and Old World monkeys, which have ischial eallosities. [Rare.]

Dasyscopelus (das-i-skop'e-lus), n. [NL... Gr. δαούς, rough, + σκόπειος, a peak, promontory.]
A genus of lantern-fishes of the family Myctophidæ, characterized by the rough, firm scales. D. spinosus is a species from the mid-Atlantic.

Dasyscypha (da-sis'i-fā), n. [NL. (Nees, 1817), (Gr. δασίς, hairy, + σκίφη, σκίφος, enp.] A genus of discomycetous fungi, so named from the hairy aseomata which are sessile or stipitate. The sporea are usually simple and hyaline. About 150 species have been described. They are distributed throughout the world and occur chiefly on decaying trunks and branches. D. Willkommii is said to produce a disease of the larch called blister. See larch *bbister.

datal (dā'tal), a. [dale¹ + -al¹.] Chronological; of or pertaining to date: as, the facts are stated in datal order. N. E. D.

date!, n.—Of even date, an expression commonly used in legal instruments to indicate that another instrument referred to was or is to be executed upon the same date.

date3, n. 2. An oceasional name in California of the fanleaf palm, Neowashingtonia filamenof the fanleaf paim, Neowashingtonia filamentosa.—Chinese date, the finit of a cultivated form of the Asiatic jujube, Zizyyhhus Jujuba. It is caten either fresh or dried, and is often candied as a sweetmeat. See Zizyphus.—Date coffee, honey.—See *coffee, *honey.—Trebizond date, the date-plum of the Mediterranean region, Diospyros Lotus. It is considered to afford the best stock for grafting persimmons.—Wild date, in California, one of the Spanish bayonets, Fueca Mohaeensis. The fruit has somewhat the appearance of a date and has also a sweet and succulent flesh, eaten, fresh or dried, by the Indians.

date-fever (dāt'fē"vér), n. Sa Buck, Med. Handbook, III. 400. Same as dengue.

date-palm, n. The date-palm, introduced by the Mission Fathers and by American pioneers, has long existed in California, but in inferior seedling varieties. Good varieties have recently been introduced by the United States Government under anspices promising commercial success over limited areas in Arizona and California. The date-palm, to mature fruit, requires long-continued heat and dry air above, with an abundance of water at the

roots, and is thus suited to hot deserts reclaimed by irrigation. It will bear alkali in the soil and will endure more frost than the orange, but less than the peach. It is dioceious and in culture is usually pollinated artificially one male tree sufficing for a hundred female. The varieties do not breed true by seed and are propagated by the suckers or offshoots put forth from the base of young trees. The tree dies if the terminal bud is destroyed. The plantations in the Sahara form a shelter for many fruit-trees which could not otherwise be grown. The fruits as grown by the Arabs are of three priocipal types, viz. soft dates (those known to the American market), which are very sugary; similar dates, but with a much lower sugar-content, usually eaten fresh from the tree; and dry dates, which are not at all sticky, are picked up as they fall, and are regarded by the Arabs as much better for food than the soft dates. One of the best of innumerable named varieties is the deylet noor. Some good seedling varieties have been developed in the southwestern United States.

dater, n. 3. An apparatus for stamping the date on receipts, orders, or other papers. In some couplex forms the hour also can be indicated, a clock in the hase of the instrument changing the hour as the day advances, without attention from the nser.

datil (då'tél), n. [Sp. dátil, date (Phænir dactylifera): see date³.] 1. Yucca baccata. See yucca.—2. In South America, a name of several palms, especially of Cocos Datil, the leaves of which yield a fiber which is braided by the natives into hats, baskets, etc.

dating-machine (da'ting-ma-shēn"), n. A machine having type-wheels and mechanism for printing dates on cards, tickets, etc.; a

datiscaceous (dat-is-kā'shius), a. Belonging to the plant family Datiscaceæ. Also datisceous. datiscetin (datis'e-tin), n. [datisc-in + -ct-+ A pale-yellow compound, $C_6H_4 < {\rm CO \atop O} > C_6({\rm OH})_2({\rm OCH}_3)_2$, prepared by the

action of sulphuric acid on datiscin. It crystallizes in needles, melting at 237° C.

Datism (da'tizm), n. [Gr. Δατισμός, Datis, the Median commander at Marathon,

cytol. and cmbryol., either of two metameres, blastomeres, chromosomes, or other organic elements, derived by division from a single mother-element of the same kind.

daumont (dō-môn'), u. [Named from the Duc d'Aumont, who introduced this vehiele into France in the time of Napoleon I.] A carriage drawn by four horses, of which the two near ones are ridden by postilions, and having two dauphin, n. 2. A billon coin struck, under Charles VII. of France, for Dauphiné.

Davallieæ (da-va-li'ē-ē), n. pl. [NL., < Davallia + -eæ.] A tribe of mainly tropical

polypodiaceous ferns. Its component genera are distinguished by usually terminal and marginal or submarginal sori, and by extrorse indusia. It includes among others the well-known genera Davallia and Nephrolepis, several species of which are commonly cultivated, those of the latter genus being known as sword-ferns. See Davallia and sword-*fern.

David powder. See *powder.
David's harp. See *harp.—David's shield. See Zionist *dag.

Daviel's spoon. See *spoon.

daviesite (da viz-it), n. [Named after Thomas Davies of the British Museum.] A lead oxyehlorid occurring in colorless prismatic crystals: from Atacama.

tals: from Atacama.

dawa (da'wa), n. [Fijian name.] In the Fijian Islands, Pometia primata, a stately forest-tree which belongs to the Supindacea. It has pinnate leaves, flowers in terminal panicles, and fruit containing a seed inclosed in a honey-like, glutinous, pulpy white aril which is edible and is esteemed by the natives. The bark is saponaceous, and the trober, though coarse-grained and porous, is suitable for cabinet-work. The tree is also found in New Hebrides, New Caledonia, and New Guinea.

dawk-hoat. n. See *dak-hoat

dawk-boat, n. See *dak-boat.

dawn, n.—False dawn, a transient light on the horizon about an hour before dawn; a phenomenon well known in the East.—Liquid dawn, in ceram, a ruby-red color, obtained from copper. Also called dawn-red. dawn-red (dan'red), n.—Same as liquid *dawn.

Datism, the Median commander at Marathon, who spoke broken Greek.] Brokenmey (A parts, the Median commander at Marathon, who spoke broken Greek.] Brokenmey are incorrectness of speech natural to a foreigner or an instance of this; a fault or mistake in speaking a foreign language.

We can understand that a small Athenian boy should commit a Dation in Latin.

Saturday Rev., Nov. 14, 1801, p. 584.

datival (dā-ti'val), a. Of or belonging to the dative case: as, datized treminations, dato (dä-ti'ob, n. [Also datto, datta; Philippine Sp. dato, datto, C Sult dato, the head of a family, hence a title of distinction, a chief, a petty prince.] A feudal lord or chief in Sult and other Malayan countries. In sult the datos formed the executive head of the council. The Galas district is nominally under the charge of the latin. Bernara, but he lives at Kuta Sharn, as do all the Pata, Bentara, Bentara, Bentara, Bentara, Bentara, Bentara, Bentara, Bentara, Bentara

It is due to the descent of rapidly moving cool air replacing that which ascends when heated by sunshine. The corresponding night-breeze is due to the flow of air from adjacent hills or frees, where it has been cooled by nocturnal radiation

day-coach (da'kōch), n. In railroading, an ordinary passenger-ear with ordinary double seats, as distinguished from a sleeping-car, drawing-room ear, dining-car, or chair-car; not necessarily limited to day use.

day-dawn (da'dan), n. Break of day; the

Coleridge.

day-degree (då'dē-grē"), n. In phenology, the unit by which an excess or deficit of effective heat is expressed; one degree of temperature per twenty-four hours. Thus the germination of a seed planted in the ground may require ten days at an average temperature of 50° F., or 500 day-degrees; or 80 day-degrees above 42° F. considered as the lower limit of vitality. The day-degree centigrade and the day-degree Fahrenheit are used in the metric and English systems respectively.

day-mosquito (dā'mus-kē"tō), n.— spotted day-

mosquito, the common name in the British West Indies for the yellow-fever mosquito, Stegonnia fasciata.

day-number (dā'num-ber), n. A numerical datum used in calculating the corrections for aberration, precession, and nutation required in reducing the mean place of a star to its apparent place for any day of the year.

Independent Day-Numbers for the year 1903, as used at the Royal Observatory, Cape of Good Hope.

Geog. Jour. (R. G. S.), XVIII. 646.

day-stone (dā'ston), n. A surface fragment. day-student (dā'stū dent). n. A non-resident student who attends college during the day.

day-ticket (da'tik"et), n. A railway or other ticket good for only one day, usually the day of issue.

Dayton limestone. See *limestone.

day-view (da'vū), n. [A translation of G. "round." tayesansicht.] The metaphysical system of dead-head, n. tagesansicht.] The metaphysical system of Gustav Theodor Feehner, of which the principal points are that there is no absolutely unconscious matter, that all finite beings make with no lateh-bolt, operated by a knob.—4. A conscious matter, that all finite beings make up one sole infinite being, and that this is the only relation between the finite and the infinite.

dazement (dāz'ment), n. [daze + -ment.] A dazed state or condition.

The 'king relapsed into his dazement, muttering, "It cannot be, it cannot be!"

L. Wallace, The Fair God, vii. 4.

An abbreviation of Doomsday Book.

D-bit (de'bit), n. Same as pod-bit,
D. C. An abbreviation (b) of direct current;
(e) of District Court; (d) of District of Columbia; (e) of Deputy Consul; (f) of Divus Carsar (the divine Cæsar).

D. Ch. An abbreviation of Doctor of Chem-

D. C. S. An abbreviation of Deputy Clerk of ession.

D. E. An abbreviation of Dynamical Engineer, a degree conferred at the completion of a graduate course in mechanical engineering.

deacon, n. 4. A hunter's name for the young of the elk or wapiti, Cervus canadensis. deacon-seat, n. The bench in front of

deacon-seat, n. The bench in front of the sleeping-bunks in a logging-eamp.

Deacon's process. See *process.
deactivation (de-ak-ti-va'shon), n. [de-+ac-tive+-ation.] Loss of radioactivity: said of radium and its emanations, and of other radioactive substances.

Prof. Curie, in Comptes Rendus, gives the results of his experiments of the action taking place when radium is placed in an inclosure maintained at 450 deg. C. or at — 180 deg. C. He finds that the law of deactivation is still the same throughout this range of temperature.

Sci. Amer. Sup., Feb. 20, 1904, p. 23523.

dead, a. 19. In golf, said of a ball: (a) when it falls without rolling; (b) when it lies so near a hole that the player is "dead sure" to hole it; (c) when it lacks life or resiliency. -20. In elect., said of a circuit which is not connected with any source of electric power, either directly, or indirectly, as by induction.

-21. Said of molten metal when it is thick and sluggish, either from insufficient melting, or from having stood too long in a ladle. Dead or from having stood too long in a hadle. Dead metal does not pour well and is not suitable for making thin castings, although it may be successfully used for heavy castings.—Dead end, a closed end of a branch water-pipe, passage, etc., through which there is no flow or movement.—Dead fin. Same as adipose fin.—Dead fingers, coldness and pallor of the fingers due to defective circulation, a precursor, at times, of Raymand's disease.—Dead finish. See *faish.—Dead full, said of a contact at billiards when the exact center of the cue-ball hits the exact center of the first object-ball. W. Broadfoot, Billiards, p. 327.—Dead lime. See *lime1.—Dead loss. See *loss.—Dead low water, the lowest stage of ebb-tide.—Dead

space. (b, c, d) See *space.—Dead time, water. See *time!, *water.—To be dead, in golf, to lie so near the hole that a player is certain to put it in with his next stroke: said of a ball.

The ear-lobes of the domesticated fowl. deafforest (de-a-for'est), v. t. Same as dis-

dead-bird (ded-berd'), n. A certainty; a fore-

gone conclusion. [Australian slang.] dead-bolt (ded'hōlt), n. In a lock, a bolt operated directly by the key.

dead-burnt (ded'bernt), a. Said of lime or plaster of Paris, heated so strongly in the burning as to have become incapable of promptly taking up water: the lime is thus prevented from slaking or the plaster from setting.

Under favorable conditions gypsum actually breaks up t 63°.5, and forms insoluble anhydrite found in nature and identical with dead-burnt gypsum.

Nature, Nov. 19, 1903, p. 64.

deadener, n. 2. In lumbering, a heavy log or timber, with spikes set in the butt-end, so fas-tened in a log-slide that the logs passing under it come in contact with the spikes and are retarded.

deadeye, u. 2. In mech., a bearing made in a solid piece, and not split into halves or provided for taking up wear: used mostly in cheap

and temporary work.

dead-finish (ded-fin'ish), n. Any one of several leguminous trees or shrubs of the genera Acacia and Albizzia; especially Albizzia basaltica and Acacia Farnesiana, which by their dense growth form such an obstruction to the traveler that he is brought to a 'dead finish' or

dead-furrow (ded'fur"ō), n. In agri., the furrow that remains open in the center of a 'land' or field in plowing. The dead-furrow is the last furrow made; it is really a double furrow, since the plow throws the furrow-slice either way in making the last

4. In lumbering, a sunken or

lock in which the key-bolt must be moved by turning the key in each direction: distinguished from a spring lock.

dead-lock (ded'lok), v. t. To bring to a deadlock or standstill: as, "they have dead-locked the legislature," The Nation, Aug. 4, 1892, p. 81. dead-lurk (ded'lerk), n. Sneak-thieving; the entering of a dwelling during the absence of

the family, for the purpose of robbery. [Slang. Chiefly Eng.]

dead-man (ded'man), n. In lumbering, a fallen tree on the shore, or a timber to which the hawser of a boom is attached.

dead-man's-thumb (ded'manz-thum"), n. The early orehis, Orchis mascula of England, so called from the color and shape of the tubers. Also called dead-man's-hand. [Prov. Eng.] N, E, D,

dead-plate, n. 2. The part of a cotton-seutching machine between the beater-grids and the dust-cages.

dead-roasting (ded'ros"ting), n. ores carried to the farthest practicable degree in the expulsion of sulphur. Also called sweetroasting.

dead-stroke, a. II. n. A stroke in power hammers (as in those driven by steam or by belts) in which the hammer-head is not instantly withdrawn after striking and the blow is inelastic in effect and is not received on any cushioning device. This is the most effective blow, and is preferred except for fine finishing or planishing strokes. It is secured by having the mechanism which lifts the hammer after the blow overtake the hammer-head after the blow has been delivered.

dead-water, n. 2. The water which is below the level of the heating-surface in an internally fired steam-boiler, the circulation in

this part of the boiler being very slow.

dead-weight, n. 4. In railroading, the weight of a car as distinct from its load (called the death-of-man (deth'uv-man"), n. The American weight) whether it is a freight-

dead-wheel (ded'hwel), n. A wheel or pulley which surrounds a sleeve or evlinder earrying or supporting a mechanism, but which cannot

be used as a driving-pulley.

dead-wood, n. 5. In card-playing, the discards from the various players; eards which cannot be used again for any purpose during the hand then being played.—Dead-wood fence, a fence built of fallen tree-trunks cut into suitable lengths, hid side by side, and finished above with the smaller branches. [Australia.]

deaf, a.—Deaf-and-dumb alphahet. See deaf-mute.
—Deaf nut, a nut without a kernel; figuratively, anything empty and worthless. N. E. D.

deafforestation (de-a-for-es-tā'shon), n. Same

as disafforestation.
deaf-mutism, n. 2. A usage in speech or writing that is peculiar to deaf-mutes.

writing that is peciniar to deat-inness.

deafness, n.—Cortical deafness, deafness due to a lesion in the cortex of the hrain.—Labyrinthine deafness. Same as nervous deafness.—Mental deafness, psychical deafness, a form of mental disorder in which sounds can be heard, but cannot be recognized or interpreted. It is supposed by Munk to be due to the destruction of the cortical centers in which auditory sensations are raised to the rank of nerceptions. of perceptions.

The phenomena which make their appearance after destruction of the former [centers], he [Munk] names, in the case of the two higher senses, cortical blindness and cortical deafness; the disturbances which result from the extirpation of the centers of the second order, he terms mental blindness and mental deafness.

W. Wundt (trans.), Physiol. Psychol., I. 201.

Mind-deafness. Same as mental *deafness.—Paradoxical deafness, deafness, due to disease of the middle ear, in which hearing is more acute in a noisy place, as the street or a railway train. Also called paracusis of Willis.—Psychical deafness. Same as mental *deafness.—Throat-deafness, deafness resulting from a catarrhal process in the throat which leads to closure of the Eustachian tube.

deal1, v. t.—To deal off, in poker, to continue to deal until a jack-pot is opened.

deal², N.— Colonial deal. Same as native ★deal.— Native deal, in Australia, the wood of the she-pine, Nageia elata, a large tree of the yew family. It is free from knots, soft, close and fine grained, and easily worked. It is tough and lasting, not readily attacked by termites

dealate (dē-ā'lāt), a. [dc-+alate².] Deprived of wings: said of the queens of ants whose wings are shed after the nuptial flight.

dealated (de-ā'lā-ted), a. Same as *dcalate. I have found as many as fourteen dealated queens in a single shovelful of its nest-earth. Biol. Bulletin, Oct., 1904, p. 245.

deal-ends (dēl'endz), n. pl. See deal2, n., 1. dealer, n. 3. In banking games, such as faro, the person who holds the eards which the

players bet upon.

deal-yard (del'yärd), n. A yard where deals are stacked or sold.

deanthropomorphic (de-an"thro-po-môr'fik),
a. [lrreg. \(\langle \) deanthropomorph(ism) + -ic.] Of the nature of or tending to deanthropomorphism.

death, n.—Local death, the 'death' or cessation of vital action which is continually occurring among the cells of animals and plants as the result of metabolism.—Molar death, gangrene or necrosis in which a mass of tissue is destroyed.—Molecular death, niceration or caries in which the tissues are destroyed gradually, as contrasted with molar *death.—Peril of death, in law, the condition of apprehension of death in which a person must be in order to make a valid gift causa mortis.

death-adder, n. 2. The black-snake of Australia. Pseudechis normhyriquus. See black-tralia.

tralia, Pseudechis porphyriacus. See black-

snake, 1.

death-angle (deth'ang "gl), n. An angle in a military position made memorable by heavy losses: also called bloody angle.

death-blast (deth'blast), n. An unusually degas. The destruction of St. Pierre, in Martinique, in 1902 was due to a death-blast of hot gases rolling down from the summit of Mont Pelé.

death-cup (deth'kup), n. The poisonous mushroom, Amanita phalloides. See deadly *agaric, and procesus * *Invanita*.

and poison *Amanita.

death-duty (deth'dū"ti), n. In law, a tax levied upon the property of a decedent upon its transfer to heirs, legatees, or distributees. The expression is usually used in reference to the English law of 1894, in which year these taxes were largely increased. The corresponding American term is direct or collateral inheritance tax.

death-grapple (deth'grap"1), n. A close des-

erties of its root.

death-penny (deth'pen"i), n. The obolus which the ancients placed in the hand or mouth of the dead, as passage-money for Charon.

death-ring (deth'ring), n. A ring containing poison which is intended to be transmitted during the act of shaking hands. W. Jones,

Finger-rings, p. 435. N. E. D. death-wave (deth'wāv), n. Any great ocean wave which causes the destruction of vessels at sea or of property and lives on land. Such are the inundations on the Wexford coast; the great ocean-

death-weed (deth'wed), n. An ambrosiaceous plant, Ira axillaris, giving trouble as a weed, particularly in northern Nevada and southern Oregon. It grows profusely in low alkali meadows and pastures, sometimes invading cultivated ground, and is very persistent by reason of its creeping rootstocks.

debarbarization (de-bär"ba-rī-zā'shon), n. [debarbarize + -ation.] The act of debarbarizing or the state of being debarbarized, N. E. D. debarbarize (de-bär'ba-rīz), v. t.; pret. and

pp. debarbarized, ppr. debarbarizing. [de- + barbarize.] To free from barbarism: as, first

debarbarize, then civilize. De Quincey.
debarrence (dē-bar'ens), n. [debar + -cnce.]
The address made by a Scotch-Presbyterian minister at the celebration of the Lord's Supper, describing the character of those who should partake, and debarring the unworthy. Also called debarring. See to fence the tables, under fence.

debarring (de-bar'ing), n. Same as *debar-

debash, n. See dobhash.

debilitative (dē-bil'i-tā-tiv), a. [debilitate +

debloom (dē-blöm'), v. t. [de- + bloam¹.] To remove the bloom of. See *deblooming. deblooming (dē-blöm'ing), n. The removal or

concealment of the bluish fluorescence of lu-bricating-oil from petroleum. Exposure for a long time to smilight and air is said to be effective, and nitro-benzene or dinitronaphthalene may be added for the same purpose; these additions, however, render the oil corrosive of iron or steel.

debouchure (de-bö-shür'), n. [debouch + -ure.] A mouth, opening out, or outlet; specifically, the opening out of a stream as it emerges from a confined valley or gorge upon an open valley or broad plain, or the junction between the narrow and the broad portion of a valley; also applied to the zone of change from a mountain track of high gradient to a plains track of much lower gradient and consequent decrease of load.

same principles as deposition elsewhere.

Chamberlin and Salisbury, Geol., I. 62.

debris-cone (de-brē'kon), n. A mound or cone built up by the accumulation of erupted, fragmental products about the vent of a volcano.

Dana, Manual of Geol., p. 269.

debrital (dē-bri'tal), a. [Irreg. \(debris \) (with assumed stem debri-t-) + -al¹. Cf. detrital.] Of, pertaining to, or consisting of debris. Geog. Jour. (R. G. S), IX. 328.

Geog. Jour. (R. G. S), IX. 328.

debt, n. Ancestral debt, in law, a debt of an ancestor which survives him and which the law compels the heir to pay.—Contingent debt, in Scots law, a debt which is to become due upon the happening of a future event, as distinguished from a pure or a future debt.—Future debt, in Scots law, a debt which is to become due upon some definite future day, as distinguished from a pure or a contingent debt.—Preferred debt, a debt provable in bankruptcy, such as taxes, judgments, wages due a servant, workman, or other employee, up to a certain amount and earned during a certain limited period, a bona fide preference, etc., that shall be paid before any other debt or debts are paid.—Purs debt, in Scots law, a debt actually due, as distinguished from a future or a contingent debt.—Writ of debt, a writ which issues in favor of a party claiming the recovery of a certain and liquidated sum of money alleged to be actually due him. debt-raiser (det ra-zèr), n. One who undertakes to raise or suceeceds in raising money to pay off a debt, such as the mortgage on a

pay off a debt, such as the mortgage on a

pay on a debt, such as the mortgage on a decay (deskap), i.e. the pr. decapping, [de-+ cap1.] To remove the debut, n. 2. In chess, same as opening, 9.

Queen's Knight's debut, same as Vienna opening, decapartite (dek-a-pär'tit), a. Same as *decae. An abbreviation (d) of declaration; (e) of declaration; (f) of declination; (g) of decorative. decapitate, v. t. 3. In math., to strike out, as decaeanthous (dek-a-kan'thus), a. Having ten spines, as the dorsal fin of some fishes.

decacarbon (dek-a-kär'bon), n. [Gr. δέκα, ten, + E. carbon.] A compound, usually of the aliphatie series, containing ten atoms of carbon.

decacere (dek'a-ser), n. [NL. Decacera.] ten-armed cephalopod, a member of the Deca-

cera; a decapod.

decacyclene (dek-a-sik'lēn), n. [Gr. δέκα, ten. + κίκλος, cirele, + -ene.] A dark-yellow crystalline compound, trinaphthylenebenzene, (C₁₀H₆)₃C₆, prepared by the fusion of acenaphthene with sulphur. It melts at 387° C. and contains ten closed chain-systems in its molecule.

waves, due to earthquakes, that devastate the eastern coasts of Japan: and the wave that washed over the city of Galveston during the height of the great storm of Cotaber. 1899. devaluation of Galveston during the height of the great storm of $\delta \epsilon \kappa a d a \kappa \tau v \lambda o c$, finger.] Having ten finger-like projective. tions or rays

decadarch (dek'a-därk), n. [Gr. δεκαδαρχος,

(δεκας, a company of ten, + άρχάς, ruler.] Α commander of ten men; a decurion.

decadarchy (dek'a-där-ki), n. [Gr. δεκαδαρχας, τua, ζ δεκάδαρχας, decadarch.] Α body of rulers consisting of ten men.

decadary (dek'a-dā-ri), a. [decad + -ary².]
Relating or pertaining to a decad of days:
specifically pertaining to the periods of ten
days into which each month of the French

Revolutionary calendar of 1793 was divided. lecadent, a. II. u. One who or that which decadent, a. exhibits decadence or deterioration; specifically, one whose literary or artistic work is supposed to show the marks of national or general decadence: applied especially to a

certain group of French writers and artists.

decadescent (dek-a-des'ent). a. [decad(ent) + -escent.] Tending to decay; in a decadent state.

decadic (dek'a-dik), a. [Gr. δεκαδικός, ζ δεκάς, the number ten: see decad.] Of or pertaining to tens; reckoning by tens; proceeding by or based on tens: as, the decadic system of num-

-ive.] That has a tendency to debilitate; that decafid (dek'a-fid), a. [Irreg. \(\) Gr. \(\) \(\) Gika, ten, eauses or tends to eause debilitation.

+ L. \(-\) fidus, \(\) findere, divide.] Same as dedebloom (de\(\)-bloom'), v. t. \([de- + bloom^1.] \) To \(\) cemfid.

decagrade (dek'a-grād), n. [Gr. δέκα, ten, + L. gradus, step, degree.] Ten degrees of an are or angle measured according to that French system in which the quadrant is divided into one hundred parts: a tenth of a quadrant.

decahydrate (dek-a-hī'drāt), n. [Gr. δέκα, ten, + νδωρ (iνδρ-), water, + -atel.] In chem., a compound containing 10 molecules of water, as crystallized sodium sulphate, Na2 $SO_4.1011_2O.$

Between 33° and 17°, however, it was found that in solutions containing but small amounts of sodium chloride and in contact with solid sodium sulphate, the equilibrium conditions were determined by the solid salt being in the form of the decahydrate, and the solubility curves for this decahydrate are very much flatter than the corresponding curves for the ambydroms salt.

Science, Jan. 24, 1902, p. 146.

Deposition at the debouchure of the valley follows the decahydrated (dck-a-hī'drā-ted), a. In chem. decatholicize (dē-ka-thol'i-sīz), r. t. ame principles as deposition elsewhere.

Catholicize (dē-ka-thol'i-sīz), r. t. decatholicize. To divest of Catholicize. Sulphurie Acid, H. 22.

decalcomania. - Vitrifiable decalcomania, in ceram., a colored design printed in mineral colors on paper, for transference to the surface of pottery or porcelain. decalescence (dē-ka-les'ens), n. [dc- + ca-

tescence.] The sudden absorption of heat by iron which is observed when that substance is heated to about 795° C .: opposed to recales-

decalobate (dek-a-lō'bāt), a. [Gr. δέκα, ten, + λοβός,lobe, + αίτε-1.] Ten-lobed.
decalog, n. A simplified spelling of decalogue.
decalvant (dē-kal'vant), a. and n. [L. de, away, + calvans, ppr. of calvare, make bald, ζ calvas, bald: see callow.] Same as depilatory.

decameral (de-kam'e-ral), a. [Gr. δέκα, ten, decavolt (dek'a-völt), n. [Gr. δέκα, ten, + Ε. + μέρος, a part.] Divided into ten parts: as, volt.] In elect., an electromotive force equal the decameral radial symmetry in the calice of a coral.

decanting-jar (de-kan'ting-jar), n. In ehem., a jar, commonly of porcelain or stoneware, having in the side a series of tubulatures at different levels for drawing off a liquid from above a solid sediment or deposit.

decap (de-knp'), v. t.; pret. and pp. decapped, ppr. decapping. $[de-+cap^1]$. To remove the cap of. See *decapper.

4. Of a word, to cut off the beginning.

decapitator (dē-kap'i-tā-tor), n. [NL. decapitator.] 1. One who decapitates; a headsman.

—2. In sury., a hook with a sharp inner curve, used to decapitate the fetus in eases of ob-

decapod, n. 3. In mech., a ten-wheeled locomotive; strictly, a locomotive having eight driving-wheels and a single truck: a decempedate (de-sem/pē-dāt), a. [L. decem, type used for hauling heavy freight-trains. [Colloq.]

decappage (dē-kap'āj), n. Tho process of re-

moving the outside surface of, or eleaning, a piece of metal preparatory to giving it a particular finish.

decapper (de-kap'er), n. [decap + -erl.] A device for removing exploded primers from the

primer-seat of a cartridge-case.

primer-seat of a cartridge-ease.

decapsulation (de-kap-sū-lā'shon), n. [de-+capsulation.] In surg., the depriving of an organ of its investing membrane.—Decapsulation of the kidney, or renal decapsulation, the operation of stripping off the capsule of the kidney to a greater or less extent in order to relieve tension in cases of Bright's disease.

Decapterus (de-kap'te-rus), n. δέκα, ten, + πτερόν, wing.] Agenus of mackerellike fishes of the family Carangidæ, distinguished by the presence of the free finlet behind the dorsal and behind the anal. There are numerous species in all warm sens. D. punctatus, the cigar-fish or round-robin, is common on the Atlantic coast of the United States. See cut under cigar-fish.

decapterygian (de-kap-te-rij'i-an), u. Same as *decapterygious.

decapterygious (de-kap-te-rij'i-us), a. [Gr. δέκα, ten, + πτέριξ or πτερίνταν, wing, fin.] Having ten fins or finlets.

decarbonizing-furnace (dē - kār ' bo - nī - zingfér"nās), n. See *furnace.

decarburation (dē-kār-bū-rā'shon), n. Same as decarburization.

decarch, dekarch (dek'ärk), n. [Gr. δεκάρχης, $\langle \delta \epsilon \kappa a, \text{ ten, } + a \rho \chi \dot{\phi} \epsilon, \text{ a ruler.} \rangle$ A leader of ten; specifically, the head of the oligarchy of ten appointed by Lysander, after the battle of Ægospotami, in each of the leading Greek

decarchy, dekarchy (dek'är-ki), n. [Gr. δε-καρχια, ζοεκαρχις: see *decarch.] An oligar-chy of ten; specifically, one of those established by Lysander in the leading Greek cities after the battle of Ægospotami.

decarnate (de-kar'nāt), a. [LL. decarnatus, pp. of decarnare, deprive of flesh, ⟨ L. de, from, + caro (carn-), flesh.] Stripped of flesh; divested of incarnation.

decaspermal (dek-a-sper'mal), a. In bot., ten-

decasyllable (dek-a-sil'a-bl), n. [Gr. δέκα, ten, + σεγχαβη, syllable.] In pros., a line of ten · syllables.

To divest of Catholicism or Catholicize.]Catholic character.

decatize (dek'a-tīz), v. l.; pret. and pp. decatized, ppr. decatizing. [F. décatir, deprive (cloth) of its luster, \(dc\) priv. + catir, press (cloth), \(\L L \) *coactire for coactare, compel, press together: see coact.] To subject, as tightly rolled cloth, to the action of steam in clother inverse and for its results. order to increase and fix its press-luster: a process in the finishing of woolen cloth.

decatoic (dek-a-tō'ik), a. [Gr. δέκατος, tenth, +-ic.] Containing ten earbon atoms.— Decatoic acids, the name given to the isomeric, aliphatic acids, U₁₀H₂₀O₂. The chief member is capric acid. decaudate, v. t. 2. Of a word, to cut off the

volt.] In elect., an electromotive force equal to ten volts. [Rare.]

decay, n.—Curve of decay. See *curve.

Deccan traps. See *trap3.

deceast, p. a. A simplified spelling of de-

deceiv, v. A simplified spelling of deceive. deceive, r. l. 5. In fencing, to evade, as an attack or parry, thus causing an opponent to lose the contact or feel of one's foil.

decelerate (de-sel'e-rat), v. i.; pret. and pp. decelerated, ppr. decelerating. To docrease in velocity: opposed to accelerate.

deceleration (de-sel-e-ra'shon), n. [de-+ (ae)celeration.] The decrease of velocity: opposed to acceleration.

December moth. See *moth.

decemjugate (de-sem'jn-gat), a. [L. decem,
ten, + jugum, yoke, + -ate1.] Having ten
pairs of leaflets or other organs.

decempartite (de-sem'par-tit), a.

decapodan (de-kap'ō-dan), a. and n. Same as decemplex (dē-sem'pleks), a. [L. decemplex, < decapod, 1 and 2. decemp (ten, + -plex, -fold.] Tenfold. Syd. decappage (dē-kap'āj), n. Tho process of re-

decene (de'sen), n. [L. dec(em), ten, + -enc.] A hydrocarbon, C₁₀H₂₀, belonging to the eth-ylene series. It is an oily liquid which boils at 172° C

decenniad (de-sen'i-ad), n. [decennium -adl.] A period of ten years; a decennium. decentered (dē-sen'terd), a. [de-+ center +

ed2.] Same as *decentrated.

decentrated (de-sen'tra-ted), a. [*decentrate (\lambda L. de- + *centratus, \lambda eentrum, eenter) + -cd2.] In optics, having the optical center not directly in front of the pupil: noting a lens directly in front of the pupil: noting a lens which by this fact has a slightly prismatic action. **Recentration** $(d\bar{e}-\text{sen-trā}'\text{shon})$, n. [*decentration (e) and normal *solution. **Removal** from a center: as, decentration of a lens, in which the visual line does not pass through the center. **Removal** from a center: as, decentration of a lens, in which the visual line does not pass through the center.

decentration (de-sen-tra'shon), n. [*decen-

does not pass through the center.

decentric (de-sen'trik), a. [L. de-+ eentrum, eenter, + -ic.] That has been decentered, detached, or dissociated from a particular center or central object; considered or viewed apart from and without reference to some central notion or object.

We see love charms dissociated from sex centers and become objects of independent attraction. . . . If touch, smell, voice, eye, . . . are the *decentric* series, we can see how now a change in fashion, now in manners, . . . may each be only a change of fetish groups. *G. S. Hall*, Adolescence, 11, 115.

decenylene (dé-sen'i-lên), n. [L. decem, ten, -en + -yl + -enc.] A colorless liquid, C₁₀ 18, prepared from decylene bromide and

alcoholic potassium hydroxid. It boils at 150° C. Also decine.

decerebrate (de-ser'ē-brāt), a. [L. de, from, + eerebrum, cerebrum, + -ate¹.] Deprived of the cerebrum; associated with or consecutive

to removal of the cerebrum.

The decerebrate monkey exhibits "cataleptoid" reflexes. Father Kircher's experimentum mirabile with the fowl and the chalk line succeeds best with the decerebrate ben.

Eneye. Brit., XXXI. 744.

decerebrate (dē-ser'ē-brāt), v. t. Same as decerebrize

decerebration (de " ser - e - bra ' shon), n. Removal of the brain.

Dechenella (dek-e-nel'a), n. [NL., (G. Dechen (H. von Dechen, 1800-89, a German geologist) + dim. -ella.] A genus of Devonian trilobites of the family Proteide.

dechristianization (de-kris tian-i-zā'shon), n. The process of making non-Christian; a break-

ing down of Christianity.

The Renascence was not, as has been said, a superficial revolution of people's souls; it was, for a narrow group of sonls reared in the aristocracy of art and intellect, a profound dechristianisation which, underneath the Reformation, was to spread among us in the eighteenth century.

Tarde (trans.), Laws of Imitation, p. 363.

Decian (de'shi-an), a. Of or pertaining to the Roman emperor Decius or his reign (249-251): as, the Decian perseention of the Christians.

decidua, n.—Ovular decidua. Same as decidua refleza.—Placental decidua. Same as decidua serotina.
deciduitis (dē-sid-ū-ī'tis), n. [NL., < decidua
+ -tis.] Inflammation of the decidua.

deciduoma (dē-sid-ū-ō'mā), n.; pl. deciduomata (-ma-tā). [NL., < decidua + -oma.] A tumor of the uterus resulting from overgrowth of a portion of the decidua which remains after abortion.—Deciduoma malignum, a cancerous tumor resulting from malignant degeneration of a decidnoma.

decifer, v. A simplified spelling of decipher. decil, n. 2. In math., an object or term occu-

pying a place whose ordinal corresponds to 10 or to a multiple of 10. Also decile.

decilux (des'i-luks), n. [l. deci(mus), tenth, + lux, light.] In photom., one tenth of the illumination from a light-source having an intensity of one hefner and placed at a distance of one meter; one tenth of a lux.

decim. An abbreviation of decimeter.

decima, n. 3. A tenth part; a tithe or tax of one tenth.

one tenth.

lecimal. I. a.—Decimal candle. See *candle.—
Decimal degree. (a) Of time, 0.1 of an hour. (b) Of an angle, one sixtieth of a right angle. (c) Of an are, one two-hundred-and-fortieth of a circumference.—Decimal hour, an hour divided into one-hundredth parts called decimal minutes, and into ten-thousandth parts called decimal seconds.—Decimal minute. (a) Of an angle, one six-hundredth of a right angle; 0.1 of a decimal degree. (b) Of time, 0.01 of an hour; 0.6 of an ordinary minute.—Decimal second, one one-hundredth part of a decimal minute.—Decimal watch. See *watch.

II n.—Infinite decimal. See infinite.—Periodic decimal.

II. n.—Infinite decimal. See infinite.—Periodic decimal, a recurring decimal.

decimillivoltmeter (des-i-mil-i-volt'me#ter), n. [L. deci(mus), tenth, + millivolt + meter3.]

In elect., a voltmeter reading to tenths of a millivolt.

decimo, n. (c) A silver coin of Chile, equivalent to 10 centavos. (d) A copper coin of La Plata, the tenth part of a medio. decine (de'sin), n. [L. dec(em), ten, +-ine².]

Same as *decenylene.

decinormal (des-i-nôr'mal), a. [L. deci(mus), tenth, + normalis, normal.] 1. Having one tenth of a normal or usual strength.—2. In phys. chem., said of a solution in which one liter contains one tenth of the gram-molecule

cy innter of a Jacquard loom.—To deek up, to pile (logs) upon a skidway.

deck, n. 2. The names given to the various deeks in a vessel differ greatly at different times and in different localities. (f) the deck all seeds and the seeds are still to seed the seed of the s

decl.

the highest deck, of light construction, on which the lifeboats are carried. A short low deek at the bows is called an anchor-deck or monkey-forecastle. A raised quarter-deck is a part of the upper deck abaft the bridge-house, at a somewhat higher level than the upper deck forward. A forecastle is a deck shove the upper deck at the bows. A poop is a similar deck at the stern. In a special British design of cargo-steamer, of which many have been huilt, the side, instead of meeting the main deck rectangularly, is rounded off so as to make a continuous curved surface with the deck. Inboard of this the side is again curved up. The space between the sides at the top is covered by a narrow deck called the turret-deck, the horizontal part on the main-deck level being called the harbor-deck. In a generally similar type of cargo-steamer, in which, however, the side is not rounded off, the narrow deck covering the central superstructure or trunk is called the trunk-deck. In a large Long Island Sound steamer, besides the important structural-steel lower and main decks, there are the following, from below upward: saloon, gallery, hurricane, break, and domedecks. The tonnage-deck is that one from which the under-deck gross tonnage is measured. (See tonnage.) In vessels having three or more decks to the hull it is the second deck from below in all others the nuper deck of the hull is the tonnage-deck. (Sec. 4150, Revised Statutes.) A flush deck is one extending from stem to stern without break in continuity of surface.

7. In car-building, the roof of the clearstory of a passenger-car, often called upper deck; also, the sloping roof on either side of the clear-

of a passenger-car, often called upper dcck; also, the sloping roof on either side of the clear-story, often called lower dcck. The word is used in many compounds, such as dcck-hood, a projecting shelter to keep the rain out of the deck-end ventilator of a street-car; deck-lamp, a gas-lamp suspended fron the under side of the deck; deck-sash, a clearstory window.—Deck side, the vertical side, including sash, etc., of the clearstory of a car.—Deck snatch-block. Same as plate *match-block.—Deck ventilator, one of the sashes at the deck side of a car, operated by a deck-sash opener.—Protective deck, in a war-ship, a deck in the vicinity of the water-line intended primarily to prevent the penetration of the enemy's projectiles into the vital parts of the ship beneath it. For location, see *dcck, 2. The deck is sometimes of an arched shape, the edge of it at the side being from 4 to 6 feet below the load water-line and usually rising to from 2 to 3 feet above it in the center. More frequently, however, the central part is flat and there is a sloping part at the side, as indicated in the cut under frame. This form of deck is used in most protected and armored cruisers and also frequently in battle-ships of recent deck in the central parts is carried out level to the top of the armor-belt. In the British navy the main-deck plating is sometimes made extra heavy, forming a second protective deck above the first. In the Freich may, in the largest ships, there is usually a second protective deck above the kirst. In the Freich may, in the largest ships, there is usually a second protective deck above the kirst. In the Freich may, in the largest ships, there is usually a second protective deck as or the substance of the side armor. Protective decks are usually made in two or three thicknesses of plate, the upper thickness being of nickel-steel. The total thickness of steel on the flat parts varies from 1 to 3 mches, on the stopes from 1 to 6 inches. Also erroneously called protected deck. of a passenger-car, often called upper dcck; also, the sloping roof on either side of the clear-

deck-block (dek'blok), n. A block having one or more sheaves, and the sides and base cast in one piece and screwed to the deck. See plate *snatch-block.

decker, n. 3. In lumbering, one who rolls logs upon a skidway or log-deck. deck-erection (dek'é-rek"shon), n. In shipbuilding, any permanent structure projecting above the general line of the upper deck, as a deck-house, poop, or fore-eastle. White, Manual of Naval Arch., p. 10.

deck-head, n. 2. The eard exposed on the top of the pack; specifically, the turned trump is the game of grait form.

in the game of spoil-five. deck-hood (dek'hùd), n. See *deck, 7. decking-chain (dek'ing-chan), n. Same as *loadina-chain.

deck-lamp (dek'lamp), n. See *deck, 7. deckle-edge (dek'l-ej), n. Same as deckle (b). deck-light (dek'lit), n. A heavy piece of glass,

of circular or rectangular prismatic form, set into a deek to give light below.

deck-line (dek'lin), n. In ship-building, the line formed by the intersection of the surface

of the deck at the top of the beams with the central longitudinal plane; also, the intersec-tion of the surface with the molded surface of the side of the vessel: ealled deck-line at center

and at side, respectively.

deck-nail (dek'nâl), n. A kind of soft iron
spike with a flat head, commonly made in a diamond form: used for decks where any projection of the head above the level surface

would be objectionable. deck-plating (dek'pla"ting), n. In ship-building, the steel or iron plates forming the cover-

ing of a deck, considered collectively.

deck-pot (dek'pot), n. A large iron pot or
kettle used on whalers to receive scraps from the try-pots.

The oil flows freely between their fingers into the pots, while the refuse, called "twitter," is thrown into another receptacle, called the deck-pot, or perhaps into apparatus.

Sci. Amer. Sup., March 5, 1904, p. 23551.

deck-sash (dek'sash), n. See *deck, 7. deckt, pp. A simplified spelling of decked. decl. An abbreviation (b) of declination.

declamation, n. 2. (b) A specially close or decollator (de-ko-la'tor), successful union of tones with words, as in a n. Same as *decapitator. song or aria. (e) A work in which the text is **décolletage** (da-kolread or spoken while a musical accompaniment täzh'), n. [F., < décolle-or comment is played. Also called metodrama. ter, ent low in the neck: or comment is played. Also called melodrama.

See melodrama, 2.
declaration, n. 6. In card-playing, an announcement or meld; in bridge, specifically, the naming of the trump suit by the dealer. Somenaming of the trump suit by the dealer. Sometimes—called the make.—Auburn Declaration, a defensive statement of doctrine issued by a convention of the Presbyterian synods of Utica, Geneva, Genesee, and the Western Reserve (Auburn, New York, August 17, 1837), in answer to the acts of the General Assembly (May, 1837) exseinding the churches of the above synods for alleged heresies. The declaration was later (1868) indorsed by the General Assembly as having "all the fundamentals of the Calvinistic creed."—Declaration of Paris, a declaration signed by the duly authorized delegates of the powers to the Congress of Paris, in 1856, in regard to the rights of belligerents and neutrals in time of war. It includes four points: (1) Privateering is abolished; (2) the neutral flag covers enemy's goods, except when contraband; (3) neutral goods, except when contraband; (3) neutral goods, except when contraband; (3) neutral goods, except when contraband; (6) neutral goods, except when contraband; (7) neutral goods, except when contraband; (8) neutral goods, except when contraband; (9) the first of these, but concurred in the others.—Mecklenburg Declaration. See Mecklenburg Declaration of Independence, in Century Cyclopedia of Names.

declare, v. 1. 5. ln bridge, to make or namo the trump suit, or to announce the intention to

trump suit, or to announce the intention to play without a trump.

declass (dē-klas'), r. t. [F. déclasser, \ dé-, L. de, from, + classe, class: see class, n.] To remove from one's or its class.

déclassement (dā-kläs-mān'). n. [F., \(\) dielas-ser, declass.] The breaking down of class distinctions in society.

The primary school . . . is rapidly leading to a general déclassement. Kidd, Social Evolution, App. iii.

declination, n.—Circle of declination. See *circle.

Declination axis, compass, See *axisl, *compass,
—Declination of a plane, in dialing, the angle made by a vertical plane with the prime vertical or with the meridian plane.

declinatorium (dek "li-nā-tō'ri-um), n.; pl. declinatoria (-i). In phys., an instrument for measuring the magnetic declination; a circle of declination.

decline, v. i. 10. In chess, to refuse to take a

piece or pawn offered.

decoagulate (dě-kộ-ag'ű-lāt), v. t.; pret. and pp. decoagulated, ppr. decoagulating. [de-+coagulate]. To change from a coagulated condition: applied by Duclaux to the action of a diastatic ferment, found in malt, which control is the condition of the condition. verts starch into soluble dextrines.

decoction, n.—Zittmann's decoction, a decoction of sarsaparilla, containing calomel, cimabar, and various aromatic substances, employed in the treatment of syphilis. decoctor (dē-kok'tor), n. [L. decoctor, \(\) decoguere, squander, waste, lit. boil down, boil away: see decoct.] In Roman law, an insolvent, a bankrunt; one who squandered public vent; a bankrupt; one who squandered public funds

decode (dē-kōd'), r. t.; pret. and pp. decoded, ppr. decoding. [de-+code.] To turn or translate (a message or letter from a cipher code) into its original language or form. See code, 4. Decodon (dek'ō-don), n. [NL., < Gr. δέκα, ten, + ὁδοὺς (ὁδοντ-), tooth.] A genus of ladyfishes or Labridæ, found in the waters about Cuba, remarkable for their bright colors. D. puel-

laris is the only species.

decohere (dē-kō-hēr'), r. i.: pret. and pp. decohered, ppr. decohering. In elect., to increase in resistance, as a coherer in process of restoration to its normal condition of sensitiveness or as an anticoherer when acted upon by electric

waves.

decoherence (dê-kō-hēr'ens), n. Decohe action. Science Abstracts, VI. § B. p. 128

decoherer (dē-kộ-hēr'ér), n. Same as *anti-

decohesion (dê-kộ-hê'zhọn), n. [de- + cohesion.] The effect of decoherence.

After a short description of the single contact coherer used by him and an explanation of the so-called decohesion, he calculated how near the metallic surfaces must be brought together. Science, March 21, 1992, p. 466.

decoic (dē-kō'ik), a. [Gr. δέκα, ten, + -a- + -ic.] Noting an acid, the same as *decatoic or capric aeid.

decollate, v. t. 2. To remove the apex of, as

decollation, n. 3. In conch., the removal—by death, growth, or accident—of the upper whorls of a spiral shell after the animal has eeased to occupy them. See cut in middle

The coils may be lost by decollation, as in Coccum, in which the spiral part drops off.

Sedgwick, Text-book of Zoöl, I. 360.

eation.

see décolleté.] In dress-making: (a) The state of being cut low in the neek: said of the bodice or waist of a dress. (b) The low-cut neck itself of a bodice.

decompensation kom-pen-sā'shon).n. [de-+ compensation.] Failing compensation of the heart skeep place. (From "Compensation of the heart bridge Natural History. in valvular disease.

decompression (de-kom-presh'on), n. [de-+compression.] Relief from pressure; specifically, relief from excessive atmospheric or hydrostatic pressure.

decongestive (de-kon-jes'tiv), a. and n. [de-+ eongestive.] I. a. Tending to reduce congestion.

Treatment by physical agencies, by electricity in particular, restores general and local nutrition, has a deconsciple local action, depurative in general, and anti-neoplastic in particular. *Med. Record.* Aug. 1, 1993, p. 167.

II. n. A remedy designed to reduce con-

deconsider (de-kon-sid'er), r. t. [de- + eonsider.] To leave out of consideration; treat with scant consideration.

deconsideration (de-kon-sid-e-ra'shon), n. The act of deconsidering or the fact of being decubital, a. 2. Relating to decubitus. deconsidered.

deconstruct (de-kon-strukt'), r. t. [de-+con-struct]. To take apart (what has been put together); undo the construction of; undo (what has been done).

deconstruction (de-kon-struk'shon), n. [de-+construction]. The undoing of what has decolor, decolorize.

Thromnosis may take place in this acts the place in the decubit of the decubit of

been constructed or done.

decorating-wheel ($dek'\tilde{o}$ -r \tilde{a} -ting-hw $\tilde{e}l''$), n. small eylinder or disk of wood, baked clay, or metal which revolves on the end of a handle and usually carries a pattern in relief or in cavetto; a coggle: used for impressing ornamental bands around jars, etc., while they are in a plastic state. Also called runner.

decoration, N. - Corn-flower decoration, a style of ceramic ornamentation in which small blue fringed flow-erets, with green leaves, are painted on porcelain or cream-colored ware: at one time extensively used by certain English, French, and American potters.—Geo-metric decoration, the arrangement of mathematical

lines and figures in such a way as to produce an interesting pattern. The most perfect and elaborate examples are to be found in the various Arabic styles.—
Hawthorn decoration, see *hawthorn.—Lowe-stoft decoration, a pecu-

Geometric Decoration.

Geometric Geom

decorationist (dek-ō-rā'shon-ist), n. [decoration + -ist.] An expert or professional decorator. Carlyle.

decorporated (dē-kôr' pō-rā-ted), a. [L. de, from, + corpus (corpor-), body, + -ate1 + -cd2.]
Deprived of a body: said, for example, of the head after its separation from the body by the guillotine.

decorticated (de-kôr'ti-kā-ted), p. a. 1. Same as decorticate: applied most frequently to trunks of fossil trees of the coal-measures .- 2. Having the periostracum, or the periostracum and the porcelanous layer, worn away, as a shell.

decorticator, n. 2. Any machine for removing hulls, bark, or other onter covering of seeds or parts of plants: as, a hemp-decorticator, or hemn-brake.

decortization (dē-kôr-tī-zā'shon), n. Decorti-



A, decollated (adult) form, and B, perfect (young) form, of Cylindrella nobiliar Ad., Jamaica; the dotted line shows where the decollation

decostate (dē-kos'tāt), a. [de- + costate.] Having no ribs.

decoy, n. 4. A pond used to snare and entrap, and also to maintain and breed, waterfowl.—Decoy letter, a letter prepared and mailed for the purpose of detecting suspected violators of the postal and revenue laws and postal thieves, or for similar purposes.

decoyman (de-koi'man), n. A man in charge of a decoy or of several decoys for luring birds, animals, etc.

decr. In music, an abbreviation of decrescendo. decreative (de-kre-a'tiv), a. [de- + ercative.] That tends or serves to hinder, reverse, or undo some creative act.

Development is upward, creative, and not decreative. G. S. Hall, Adolescence, 11. 546-

decree, n.—Decree of forthcoming, in Scots taw, the decree, made after the arrest of a debtor, by which it was adjudged that the debt be paid or the property of the debtor delivered to the creditor eausing the arrest.—Order of decrees, the doctrine concerning the order of the divine decrees to create, to permit the fall of man, to provide salvation, and to secure acceptance of salvation to some. There are three forms of the doctrine, supralapsarianism, infralapsarianism, and sublapsarianism.

decrement, n.—Logarithmic decrement, the Napierian logarithm of the ratio of a preceding to a succeeding amplitude in a damped vibration.

decrepit, a. 2. In geol., said of rivers that have reached the last stages of their existence, or of that portion of a drainage-course which

or of that portion of a drainage-course which has reached base-level and where deposition along the bed exceeds the amount removed by floods. Dana, Manual of Geol., p. 182.

In music, an abbreviation of decredecres. scendo.

Thrombosis may take place in this area due also to the added weight of the decubitol position.

Med. Record, July 25, 1903, p. 131.

decumana (dek-ū-mā'nā), n. [L. (porta) decumana, adj. fem. of decumanus. See decuman.] One of the two gates of the typical Roman eamp. See decuman, a., 1. Opposite the porta decimana was the porta practoria, the two being connected by the via practoria, the principal street of the camp.

decuria (dē-kū'ri-ā), n.; pl. decuriæ (-ē). see decury.] A company of ten; specifically, in the Jesuit method of instruction, a minor division of a class in which chiefly memory lessons are heard.

decurion, n. 3. In Rom. hist., a member of the senate of a colony or of a municipality; a town-councilor.—4. A member of the great council of an Italian city or town.

Decurtate pulse. See *pulse1. decussation, n.— Fillet decussation. See *fillet.— Fontanal decussation. Same as *fountain decussation.

sation.

decylene (des'i-lēn), n. [L. decem, ten, + -yl + -ene.] Same as *decene.

decylic (de-sil'ik), a. [l. decem, ten, + -yl + -ic.] Same as capric.

ded, a. A simplified spelling of dead.

dedans (de-dän'), n. [F. dedans, the interior, prop. prep., within, < de (< L. de), of, + dans, within, see deciron | In court tenuis that within: see denizen.] In court-tennis, that part of the penthouse at the service end which

is netted off for spectators.

dedendum (dê-den'dum), n.; pl. dedenda (-dä).

[NL. (contrasted with addendum), < L. dedendum, neut. fut. pass. part. of dedere, give np, \(\langle de, \text{ away, } + dare, \text{ give.} \] That part of the tooth of a cog-whicel or gear which is inside the pitch-circle and is intercepted between the pitch-line and the circle which limits all the roots of the teeth and the spaces between

meshing-wheel enters into this space.

deditician (dedi-tish'an), n. [l. dediticius, a captive, also as in def., \(\lambda deditus, pp. \) of dedere, surrender, give up.] In Rom. law. a former slave who upon manumission was not admitted

them. The addendum of the teeth of the

to full citizenship because of some offense committed during slavery.

dedly, a. A simplified spelling of deadly.

dedolomitization (de-do*lo-mit-i-za*shon), u. [de- + dolomitization.] In petrog., the change of a dolomite to some other rock.

dedolomitize (dē-dol'ō-mit-īz), r. t.; pret. and pp. dedolomitized, ppr. dedolomitized; pr. dedolomitizing. [de-+dolomite+-ize.] In petrog., to change (a dolomite) into some other kind of rock, as by the formation of magnesian silicates or of magnesium hydrous oxids.

Deed of arrangement, in *Eng. law*, an instrument transferring the property of a debtor to a trustee for the benefit of his creditors.

educational. As regards the hindering or undoing of education or educational work.

deëmanate (de-em'a-nāt), r. t.: pret. and pp. deëmanated, ppr. deëmanating. [de: + emu-To deprive (a radioactive substance) of nate.] the power of giving off an emanation, or to deerman (der'man), n. A member of one of reduce, by heating or other process, the rate of the escape of the emanation from such a substance

deëmanation (de-em-a-na'shon), n. The process of depriving (a radioactive substance, such as radium) of the power of emitting emanation, or the reduction of the rate of such emission: the state or condition in which emanating power ceases or is reduced.

Thus de-emanation does not permanently destroy the power of thorium of giving out an emanation.

E. Rutherford, Radio-activity, p. 216.

deep-field (dep'feld), n. In ericket: (a) A fielder placed at or near the boundary somewhere behind the bowler. (b) The position of such a fielder.

deepsinker (dêp'sing-kêr), n. 1. A deep tumbler: a tumbler of the largest size as regards depth.-2. The drink or beverage served in sneh a tumbler. [Slang, Australia.] deep-tank (dep'tangk). n. In ship-building, a

tank formed by partitions or bulkheads cutting off a part of the hold and specially constructed to hold water ballast. See *ballast-tank. A midship deep-tank is in the middle of the length; the forepeak and afterpeak tunks, or trimming tanks, are at the ends of the vessel.

deer, n.—Irish deer, an extinct representative of the Cerridze, Cereus or Megaceros giganteus, remarkable for its large size and great spread of palmate antlers, "which diverge at right angles from the plane of the frontals and



Skeleton of the Irish Deer (Cervus giganteus) from the Pleisto-ne of Ireland. (From Nicholson and Lydekker's "Palæon-

have a distinct brow- and bez-tine and a small posterior have a distinct brow- and bez-tine and a small posterior tine on the opposite side of the beam to the bez-tine." (Nicholson and Lydekker, Mannal of Paleont., p. 1134.) Its remains are found in the bogs of northern Europe, particularly of Ireland, and specimens have been found with a spread of more than 11 feet between the tips of the antlers. Also called Irish Elk.

deer-balls (der'balz), n. See hart's-truffles. deer-brush (der'brush), n. One of several shrubs of the genus Ceanothus (C. integerrimus, C. incanus, and C. velutinus) which furnish shel-

deer-grasshopper (dēr'gras"hop-èr), n. A Malayan locustid insect, of the genus Meco-poda, which is enabled by its greatly devel-

oped hind legs to take enormous leaps. Proc. deferentitis (def-e-ren-tī'tis), n. Zool. Soc. London, 1900, p. 854.

deëducational (de-ed-u-ka'shon-al), a. [de-+ deerhorn (der'hôrn), a. 1. The horn of a deer: also, the bone which forms the antlers of **Deferred shoots**, in bot. See *shoot, a deer.—2. A large rough mussel, Tritigonia defervesce (de-fer-ves'), v. i.; pret. or Unio verrucosa, found in the Mississippi defervesced, ppr. defervescing. [L. river, the shell being used in the manufacture of buttons. Also called buckhorn.

> the pastoral reindeer-raising communities of Siberia: opposed to the maritime fisherman defervescent (de-fer-ves'ent), a. and n. [L.

of the same tribes.

deer-necked (der'nekt), a. Having the dorsal or upper margin of the neck concave instead of convex or at least straight; ewe-necked: said of a horse.

Deer parks . . . constitute a feature of considerable importance because of their area in the mountain regions of both the Eastern and Western portions of the United States. Yearbook U. S. Dept. Agr., 1900, p. 585.

deer-stalker, n. 2. A lined cap of cloth or flannel, peaked before and behind with the same material, and sometimes having ear-flaps which are turned up over the crown and tied

together at the top by laces. [Eng.] deer's-tongue, n. 2. The white adder's-tongue, Erythronium albidum.—3. The rib-grass, Plantago lanccolata. In all the deer's-tongues the form of the leaf suggests the name.

deer-tick (der'tik), n. Same as *deer-fly. deer-weed (der'wed), n. A handsome yellowflowered Californian leguminous plant, Lotus glaber. Also called wild broom. See *broom1. deer-yard (der'yard). n. A winter pasture or browsing-ground of deer.

de-ethicize (de-eth'i-sīz), v. t. To deprive of moral implications or tendencies.

def, a. A simplified spelling of deaf.

def. An abbreviation (a) of defendant; (b) of definite; (e) of definite; (d) of definition.

defaultant (de-fal'tant), a. [default + -ant].]

Charged with or guilty of defaulting.

defaulter, n. 2. In the British service, a seldier accused of a military offense.

defector (de-fek'ter), n. One who defects,

falls away, deserts, or secedes, as from a religious body, a political party, or the like.

defemination (de-fem-i-na'shon), n. [L. de-+ femina, woman, + -ation.] Deprivation of some of the characteristics of a woman, with or without the assumption of some of those of the male sex.

defeminize (dē-fem'i-nīz), v. t.; pret. and pp. defeminized, ppr. defeminizing. [L. de-+ femina, woman, + ize.] To deprive of feminine qualifications. ties and tastes; affect with masculine notions or a liking for mannish modes of life and pursuits or an aversion to domestic life. Amer. Jour. Psychol. XI, 546.

defendant. n.—Defendant in error. See $\star error$. defender, n.

4. In Irish hist., one of an association of Roman Catholics organized in the north of Ireland in the eighteenth century to oppose the Protestants who had organized as

Peep-o'-day Boys or Orangemen.

defenestration (de-fen-es-trā'shon), n. [NL.

defenestratio(n-), \ '*defenestrare, \ L. de, from,

+ fenestra, window.] The act of throwing out of the window: as, the defenestration of Prague in 1618, when Bohemian insurgents

c. incanus, and C. velutinus) which furms used ter and browsing for deer.

deer-fern (dēr'fērn), n. See *fern!.

deer-fly (dēr'fli), n. 1. A European hippoboseid fly, Lipoptena cervi, which lives on the European red deer.—2. An American hippoboseid fly, Lipoptena depressa, which occurs on Cervus virginianus: also called deer-tick.

deer-food (dēr'fōd), n. The water-shield or water-target, Brasenia Schreberi, supposed to be eaten by deer.

deer-foot (dēr'fūt). n. A V-shaped iron catch on the side of a logging-car in which the binding-chain is fastened.

deer-forest (dēr'for"est), n. A tract of land frequented by deer and used as a lunnting-preserve.

deer-grass, n.—2. A bunch-grass, Epicampes rigens, found in the southwestern United Ctatas: it is of some forage value.—3. In Wy-land, where it is of some forage value.—3. In Wy-land, *proteid.*

deer-forest (dēr'for"est), respectively.

deer-grass, n.—2. A bunch-grass, Epicampes rigens, found in the southwestern United Ctatas: it is of some forage value.—3. In Wy-land, *proteid.*

deer-forest (deerland).

deerland threw two or which preluded the Thing, window, an act which preluded the Thing, and the which preluded the Thing, window, an act which preluded the Thing, and the which preliments, elements, elements, elements, elements, elements,

cle, *gland, *proteid.

deferent, n. 3. In math., the locus of the cen-

ters of circles of which a bicircular quartic is drawn as the envelop.

[NL.. < deferens (-ent-) + -itis.] Inflammation of the vas deferens.

defervesce (de-fer-ves'), v. i.; pret. and pp. defervesced, ppr. defervescing. [L. defervescere, \langle de- + fervescere, boil: see fervescent.]
To cease to beil; eool down; hence, to become more or less neglected or out of favor or regard.

defervescens (-cnt-), ppr. of defervescere: see *defervesce.] I. a. Causing or associated with a reduction of fever.

II. n. A remedy employed to produce defervescence.

deer-park (der 'park), n. A park in which deer live or are kept.

Defforges's pendulum. See *pendulum. defilade (def-i-lad'), n. [defile2 + -ade.] That arrangement of a fortification by means of which its interior is concealed from an adver-

sary on a neighboring beight.

which its interior is concealed from an adversary on a neighboring height.

definition, n.—Constructive definition, definition by stating the essential requisites for constructing an object having the defined character. Such definitions have been highly valued in geometry, but they do not always conduce to sound or philosophical development of the subject.—Dlagnostic definition, a statement which, without attempting to analyze the essence of the object of a general term, undertakes to show that it may be distinguished from everything else.—Genetic definition, (a) and (b). See genetic. (c) Definition by describing a process for producing the object defined. It is often confounded with the constructive definition, which is a species of genetic definition. Thus if as a definition of Prussian blue it were said to be the substance precipitated on mixing aqueous solutions of partially oxidized green vitriol and yellow prussiate of potassa, this would be a so-called genetic definition; but it would fail altogether to mention one of the essential characters to which the name is due. Less excusable is a method of defining abstract conceptions which has been highly favored by German writers since Kant. It consists in sying that if from some familiar conception certain enumerated ingredients are omitted, what remains is the conception intended. This is no definition, and serves no other purpose than to lead the reader to mistake a vague feeling for an intellectual description and to produce a false illusion of scientific accuracy.—Normal definition, a definition of a class of objects as differing only accidentally from a certain norm with a distribution of frequency of given departures from it according to the law of probabilities.—Pragmatistic definition, a definition.

Same as Aristotelian definition. See definition. Same as Aristotelian definition. See definition. Same as Aristoteeum accountry property of the property of the

Definitive host, sporoblast. $\star sporoblast.$

definitize (de-fin'i-tīz), v. l.; pret. and pp. definitized, ppr. definitizing. [definite + -ize.] To make definite.

Hope and fear may be regarded as special forms of expectation. Expectation is indefinite. . . . Hope and fear definitise expectation.

W. H'undt (trans.), Human and Animal Psychol., p. 377.

definitor (dē-fin'i-ter), n. [L. definitor, \langle definite, definie.] An officer in certain religious orders whose duty is to decide points of diseipline.

deflate (dē-flāt'), v. t. [de- + -flate, as in inflate.] To remove the air from: the opposite of inflate.

deflation (dē-flā'shon), n. 1. The act of de-flating.—2. In geol., denudation by the action of the wind bearing solid particles. Walther. deflectionization (de-flek shon-i-za shon), n. The act of deflectionizing; loss of inflections.

In Saxon this infinitive was a flexional one. It could not be otherwise, because there was no flexionless infinitive in the language. This variety then, which we call the Flat Infinitive, is a direct product of defectionization.

Earle, Philol. Eng. Tongue, ¶ 569.

deflectionize (de-flek'shon-iz). r. t.; pret. and pp. deflectionized, ppr. deflectionizing. [de-+
flection + -ize.] To subject to flectional decay; deprive of inflections.

Flectional languages are called Synthetic, and deflectionized languages are said to be Analytic. Earle, Philol. Eng. Tongue, \P 445.

deflector, n. 3. In general, something which deflector, n. 3. In general, something which is deflects. Specifically—(a) A plate or board which is projected into a current of gas or air to cause it to flow to one side. (b) A partition or surface, plane or curved, by which the flames or hot gases in a boiler-setting are compelled to follow definite paths. (c) A similar partition to force circulating water to rise or descend in a boiler lundefinite directions and places. (d) A cone or vane in a ventilating-hood. (e) A board placed outside of a carwindow, at right angles to the motion of the train, to keep smoke and cinders away from the open window.

4. See the extract.

Another conspicuous advantage arising from the use of compasses of this pattern is the readiness with which they admit of correction by the use of the "deplector," a simple instrument devised by Lord Kelvin for the measurement of directive force, the successful application of which to compass correction depends on the fact that, when the directive force is equalized on all points, the error of the compass is neutralized.

Energy. Brit., XXXI. 108.

deflexibility (de-flek-si-bil'i-ti), n. [*deflex-ible (-bil-) +-ity.] Capability of being deflected. Brougham.

deflocculation (de-flok-n-la'shon), n. [de-+ flocculation.] The reversal of the process of floceulation.] The rever floceulation (which see).

The removal of the finest particles from the surface soil is attributed to defloculation induced by the use of sodium nitrate, and followed by the washing of the finest particles into the subsoil. Nature, July 7, 1904, p. 238.

deflorate (de-flo'rāt), v. t.; pret. and pp. deflorated, ppr. deflorating. [L. deflorare (pp. -atus); see deflower.] To strip of flowers; deflower.

deflorence (de-flo'rens), n. [L. de- + flos (flor-) + -enee.] The fading out of the eruption of an exanthematous disease.

defness, n. A simplified spelling of deafness. **deforest** (de-for 'est), v. t. [de-+ forest.] Same as disafforest.

deform¹, v. l., 1. (b) In geom., to bend without stretching or tearing.

deformation, n. 5. In bot., any malformation

or abnormal growth due to the attack of some parasite.—6. In geol., the process whereby, under the influence of strains (usually compressive), individual strata, masses of rock, or larger portions of the earth's crust suffer change of form, as when massive rocks become schistose, flat strata are folded, or mountain-ranges are upheaved.

deformational (de-for-ma'shon-al), a. Of or pertaining to deformation; tending to produce deformation.

Several deformational movements had affected this district. Nature, Feb. 12, 1903, p. 359.

deformity, n.—Gun-stock deformity, displacement of the forearm following fracture of the humerus.—Silverfork deformity, the peculiar curve of the outline of the wrist characteristic of Colles's fracture of the lower end of the radius.

defraudation, n. 2. In Sp. law, the offense of frandulently avoiding payment of a public

defrock (de-frok'), v. t. [F. défroquer; as de-

+ frock.] Samo as unfrock.

defrost (de-frost'), r. t. [de-+ frost.] To remove the effects of frost or freezing from; restore to a sound unfrozen condition or state. [Colloq.]

Each year there is visible improvement in the methods of defrosting meats in European markets. Frozen mutton from the antipodes and from Argentina reaches the retail butcher shop in better form and appearance than formerly.

Fearbook, U. S. Dept. Agr., 1896, p. 26.

An abbreviation of degree.

degelation (de-je-la' shon), n. [L. de- + gela-tio(n-), freezing.] Melting; fusion; the change from the solid to the liquid phase or state; liquefaction: opposed to congelation. N. E. D. degenerate, a. II. n. One who has retrograded from a normal type or standard, expecially in moral nature and character, and exhibits certain morbid physical and mental traits and tendencies.

That which nearly all degenerates lack is the sense of That which nearly an appropriate morality and of right and wrong.

Nordau, Degeneration, iii. 18.

degeneration, n. 5. A progressive departure of a family from the normal condition: shown in the first generation by a nervous temperament, moral depravity, and excesses: in the second by tendency to apoplexy and severo neuroses frequently with alcoholism; in the third by mental derangement, suicide, and intellectual weakness; and in the fourth by hereditary imbeeility, deformities, arrested development, and sterility.—6. In gcol., disdevelopment, and sterility.—6. In gcol., disintegration produced by weathering.—Adjose degeneration. Same as fatty degeneration.—Anemic degeneration. Same as polyphromatophilic *degeneration.—Angiolithic degeneration atheroma with abundant calcareous deposit.—Ascending degeneration.

(a) Degenerative change in the spinal cord which progresses upward toward the brain. (b) Wallerian degeneration from the periphery toward the center.—Bacony degeneration. Same as lardaceous disease (which see, under tardaceous).—Chitinous degeneration. Same as anythous degeneration, degeneration associated with the formation of eavities or cysts in the part affected.—Descending degeneration, degeneration associated with the formation of eavites or cysts in the part affected.—Descending degeneration. Same as calcoreous degeneration.—Fibrous degrees as a calcoreous degeneration.—Fibrous degrees on tannea as a by-product of some kinds of leather.

Dégras, which has been referred to in connection with the woolen industry as being obtained from wool grease, is also a by-product of great value in the leather industry.

Sci. Amer. Sup., Dec. 6, 1902, p. 22518.

dégras-former (dâ-grā'fôr'mêr), n. A substance of brown color and resinous consistence, a constituent of tanners' dégras and sodoil, the presence of which enables the fish-oils used in eurrying leather and in oil-tanning to form an emulsion with water.

ration. Same as calcoreous degeneration.—Fibrous degrees on tannea as a by-product of some kinds of leather.

Dégras, which has been referred to in connection with the woolen industry as being obtained from wool grease, is also a by-product of great value in the leather industry.

Sci. Amer. Sup., Dec. 6, 1902, p. 22518.

dégras-former (dâ-grā'fôr'mêr), n. A substance of brown color and resinous consistence, a constituent of tanners' dégras and sodoil, the presence of which enables the fish-oils used in eurrying leather and in oil-tanning to form an emulsion with water.

degeneration, overgrowth of the connective-tissue framework of a part, which compresses and causes atrophy of the functionating cells.—Gelatiniform degeneration.—Same as colloid degeneration.—Keratoid degeneration, transformation of the plasma of the cell into keratin.—Method of degeneration, in math., a method of obtaining results by letting one dimension vanish.—Partial reaction of degeneration, the presence of reaction of degeneration in a muscle under direct galvanic stimulation, with preservation of normal reaction in the nerve supplying this muscle. See reaction of degeneration, the atrophy of certain cells or tissues or organs that others may attain to perfect development. Brinton, Basis of Social Relations, p. 82.—Polychromatophilic degeneration, a condition of the red corpuscles of the blood, which is characterized by a simultaneous affinity of the cells for more than one dye, namely, for a basic as well as an acid dye.—Quain's degeneration, fibrous degeneration of the heart.—Senile degeneration, Same as lardaceous disease (which see, under lordaceous).

Degenerative juncture. See *inneture.

Degenerative juncture. See *juncture. degerm (de-jern'). r. t. [de- + yerm.] To extract or remove the germ from. See degerminator.

After de-germing, the maize is unhusked, wetted, submitted to a temperature sufficient to rupture the starch cells.

Encyc. Brit., XXVI. 363

glaciation.] The withdrawal of iee from a previously glaciated region. Dana, Manual of Geol., p. 969.

deglutible (dē-glö'ti-bl), a. [NL. *deglutibilis, \ L. deglutire, swallow: see deglutition.] Capa-

ble of being swallowed.

 ${\tt deglycerinize}\,({\tt d\bar{e}\text{-}glis'e\text{-}rin\text{-}iz}), v.\ t.\,;\ {\tt pret.}\ {\tt and}$ pp. deglycerinized, ppr. deglycerinizing. [de-glycerin + -ize.] To separate the glycerin pp. deglycerinized, ppr. deglycerinizing, pagglycerin + -ize.] To separate the glycerin from (a fat or oil) before using the fatty acids for the manufacture of soap. Saddler, Handbook of Indust. Chem., p. 71.

degradand (deg'ra-dand), n. fML, dearadandus, fut. pass. part. of degradave, degrade: see degrade.] One who is to be degraded or reduced in rank. R. W. Dixon, Hist. Church of Eng., iv. 494. N. E. D. degradation, n. 10. In organic chem., the resolution of the molecule of a compound into other substances of evallor realization.

other substances of smaller molecular weight. It denotes the systematic climination of one carbon atom after another from a compound, whereby we pass down a homologona series, step by step, from the more to the less

A method of preparation of aldehydes and the systematic degradation of acids.

Nature, March 24, 1904, p. 504.

Nature, March 24, 1904, p. 504.

Degradation of energy, in thermodynam, the transformation of energy from higher or more available, to lower, or less available, forms. The most important case is that of the degradation of kinetic or potential energy into heat. The general doctrine of the degradation of energy is that the processes of nature are in general such as to convert energy from available to unavailable forms, so that the degraded forms, such as heat, constitute a greater and greater proportion of the total energy of the universe.—Differential degradation, in geol., the varying degrees of erosion exhibited by a series of stratified rocks of different degrees of hardness and resistance.

degradator (deg-rā-dā'tor), n. [NL., < ML.

degradator (deg-rā-dā'tor), n. [NL., \langle ML. degradator (deg-rā-dā'tor), n. [NL., \langle ML. degradare, degrade.] One who degrades; one who formally and with authority deprives of rank. R. W. Dixon, Hist. Church of Eng., iv. 494. N. E. D. degrade r. t. 8. In the most of the statement of th

degrade, v. t. 8. In thermodynam., to convert from a form of greater to one of less availability: said of certain transformations of energy. degraded, p. a. 5. In geol., worn down: leveled by erosion.—6. In thermodynam., reduced to a form less available for further transformation: said of energy which as the result of transformations has been converted into heat.

dégraissant (dā-grā-sān'), n. [F., prop. ppr. of degraisser, remove the grease from, \(\zeta\) de graisse, grease: see degrease.] Sand, or the like, mixed with potters' clay, to prevent it from eracking when fired.

dégras (dã-gra'), n. [F., for *degrais, < dé-graisser, degrease: see degrease.] A thick grease obtained as a by-product from wool,

eess of removing grease from a greasy object; specifically, the removal of fatty matter from raw sheep's wool by the solvent action of petroleum naphtha. Sadtler, Handbook of Indust. Chem., p. 310.

raw sneep s wool by the solvent action of petroleum naphtha. Sadtler, Handbook of Indust. Chem., p. 310.

degree, n.—Baumé degree, a degree of the Baumé seale of specific gravity. See *seale?, n.—Decimal degree, 8.—Baumé degree of an equation. See degree, 8.—Degree of a surface, the order of a sinface. See *seface, 2.—Degree of freedom. (a) See freedom. (b) In phys. chem., the number of conditions of a thermodynamic system which can be changed independently of each other, without destroy ing the system by suppressing one of its phases. For example, a system composed of water existing in the two phases, liquid and solid, and depending for equilibrium on the two conditions, temperature and pressure, has one degree of freedom and only one and pressure, has one degree of freedom and only one and pressure has one degree of freedom and only one and pressure has one degree of freedom and only one same may be established within certain limits, but the temperature may be given to it within certain limits, but the temperature is determined in sodoing.—Degree of saturation. See *saturation.—Degrees of frost. See *frost.—Geothermic degree, the ratio between depth in the earth and increase of temperature equivalent to one degree. After passing below the onter zone of variable seasonal temperature, the usual ratio, as ascertained by data from deep wells and mine-shafts, is from 55 to 60 feet in depth to 1° F. Dana, Manual of Geol., p. 257.—Lambeth degree, a degree given by the archibishop of Canterbury. Although he can confer all degrees given by the two universities, the graduates have many privileges not shared by the recipients of his degrees. Boueier, Law Dict.—Mercury-in-glass degree, a degree of the thermometrie seale in which equal relative expansions of mercury in glass, as in the ordinary mercury thermometers have the mometrie scale in which equal relative expansions of mercury in glass with change of temperature. The mercury-in-glass degree of ordinary thermometers is not strictly uniform.—Number of degree, a leave

dehair (dē-hār'), v. t. [de- + hair.] To remove the hair or wool from, as hides or skins. Modern Amer. Tanning, p. 37.

dehalogenize (dē-ha-loj'e-nīz), $v.\ t.$; pret. and pp. dehalogenized, ppr. dehalogenizing. [de+ + halogen + -ize.] In chem., to deprive of one or more of the halogens chlorin, bromine, iodine, ete. Jour. Soc. Chem. Industry, Il. 171.

dehematize (de-hem'a-tiz), v. t.; pret. and pp. dehematized, ppr. dehematizing. [Also dehæmatize; \langle L. de-, from, + Gr. $ai\mu a(\tau-)$, blood, + -ize.] To deprive of blood, either locally, by compression or the use of the Esmarch bandage, or generally, as in the 'salt frog'; render exsanguine. Med. Record, March 7, 1903, p. 362. dehemoglobinize (dē-hem-ō-glō'bi-nīz), v. t.;

pret, and pp. dehemoglobinized, ppr. dehemoglobinizing. To remove from the red blood-eorpuscles their characteristic coloring matter, the hemoglobin. Jour. Tropical Med., Nov. 2, 1903, p. 337.

dehorn (dē-hôrn'), v. t. [de- + horn.] remove the horns from (domestie cattle). Two tools are used in the operation, a saw and a clipper. The saw has a narrow web held in a frame and resembles a butcher's saw; the clipper has a chisel-shaped kulfe which moves in guides and is operated by a rack and segments controlled by a pivoted handle.

2. To saw off the product learning the controlled by a pivoted handle.

To saw off the ends of logs bearing the owner's mark and to put on a new mark. [Kentucky.]

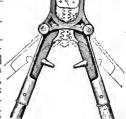
dehorner (dē-hôr'-ner), n. [dehorn + -er1.] An instrument dehorner for cutting off the horns of cattle.

Dehumanized virus. See *virus.

dehydracetic (dē-bīdra-set'ik), a. [de-+ hydr(ogen) + acetic.] Noting an acid, colorless compound, CH₃COCH : COCH : C(CH₃)OCO, prepared by the prolonged boiling of of thyl posteriors ethyl aeetoseetate (acetoacetie ether).

It erystallizes in rhombic needles or plates, melts at 108.5-109° C. and boils at 269.9° C. oil, the presence of which enables the fish-oils used in eurrying leather and in oil-tanning to form an emulsion with water.

degreesing (de-gre'sing), n. The act or produce at 108.5–109° C. and bons at 269.9° C. dehydrocholalic (de-hi'dro-ko-lal'ik), n. [de-hydrocholalic (de-hi'dro-ko-lal'ik), n. [de-hydrocholalic] Noting an organic acid, $C_{24}H_{34}O_{5}$, obtained on oxidation of cholalic acid.



Dehorner.

dehydrogenate (dē-hī'drō-jen-āt), v. t.; pret. and pp. dehydrogenated, ppr. dehydrogenating. [de- + hydrogen + -ate².] Same as dehydro-

dehydromorphine (dē-hī-drō-môr'fin), n. [de-+ hydro(gen) + marphine.] A colorless compound, $(C_{17}H_{18}O_3N)_2$, contained in opium and prepared artificially by the oxidation of morphine. It erystallizes with 3H2O and decomposes without melting. Also called pseudomorphine and oxymorphine.

dehýpnotize (dē-hip'nō-tīz), v. t.; pret. and pp. dehypnotized (de-nip no-tiz), v. l.; pret. and pp. dehypnotized, ppr. dehypnotizing. [de- + hypnotize.] To awaken from the hypnotic state. deicidal (de'i-si-dal), a. [deicide + -all.] Of or pertaining to the slaying of a god. P. J. Bailey, Festus. N. E. D. Bailey, Festus. N. E. D. deictic, a. 2. Demonstrative.

The augment seems to have been originally a pronominal eictic particle. Encyc. Brit., XXXI. 676. deictic particle.

deindividualization (dē-in-di-vid/ ū-al-ī-zā'shon), n. Destruction of individuality; hence, a social process destructive of individuality and self-dependence, and creative of dependence or pauperism.

There are social eauses of deindividualization and de-ocialization. Giddings, Inductive Sociol., p. 263. socialization.

deindividualize (dē-in-di-vid'ū-al-īz), v. t.; pret. aud pp. deindividualized, ppr. deindividu-alizing. [de- + individualize.] To destroy individuality.

The degraded are those who are both deindividualized and desocialized. They have lost both social instinct and self-respect. Giddings, Inductive Sociol., p. 263.

Deiphon (dē'i-fon), n. [NL.] An aberrant genus of trilobites, with the two lateral lobes of the entire animal much reduced and modified. The glabellum is globular and the fixed cheeks produced as long curved spines at the base of which are the eyes. The thoracic segments are nine and their plema are entirely separated from each other; the pygidium is small and bears two pairs of curved spines. It is of Silusius care.

deipotent (de-ip'o-tent), a. [L. deus, god, + potens, having power.] Possessing divine

power.

But Paul denounced a curse deipotent Against him. W. C. Wilkinson, Epic of Paul.

Deister sandstone. See *sandstone. dejectile (de-jek'til), n. [deject + -ile.] A missile hurled down upon an enemy.

dejection, n. 6. ln geol., voleanie debris; a

dejection, n. O. In you, voteante debits, a sediment of voleanie origin.
dejector (dē-jek'tor), n. A medicinal agent which tends to produce evacuation of the bowels; an aperient.
déjeuner, n. 2. A breakfast service, usually

déjeuner, n. 2. A breakfast service, usually consisting of a tray, cups and saucers, tea pot, sugar-bowl, eream-jug, and slop-basin.

dekarch, dekarchy, n. See *deearch, *deearchy.

del3, n. A simplified spelling of dell1.

Del. An abbreviation (a) of Delaware; (b) [l. e.] of delegate.

delabrated (dē-lā'brā-ted), p. a. [*delabrate (L. de-+ labrum, lip, + -ate1) + -ed².] Having the lips or edges removed: applied to volcanic eraters of which the walls have been partly destroyed.

delaminate (dĕ-lam'i-nāt), v. i.; pret. and pp. delaminated, ppr. delaminating. [NL. delaminare (pp. -atus), \langle L. de- + lamina, a thin plate of metal: see laminate.] To split into separate layers or plates: used in embryology of the formation of the embryonic layers when one is derived from the other by splitting, and not, as usual, by invagination or eell-migration.

delaminate (de-lam'i-nat), a. [NL. delaminatus, pp.] Formed by splitting off from a layer or plate: said of the formation of the

deleb (del'eb), n. [Ar.; cf. dolb, plane-tree.] A variety of the palmyra-palm, Borassus fla-

See palmyra, 1, and Borassus. delectus (de-lek'tus), n. [L. delectus, a selec-

delegant (del'ē-gant), n. [L. delegans (-ant-),

assigns to his creditor a debt of a third party due to himself.

delegate, n.—Apostolic delegate. See *apostolic. delegatee (del-ē-gā-tē'), n. [delegate + -cel.] In civil law, the assignee of a delegant; one to whom a debtor is assigned in satisfaction of another's debt. See *delegant, delegator (del'ō-gā-tor), n. [LL. delegator, < L. delegator, delegate.] In civil law, same as *delegate.

 \star delegant.

delestage (de-les-täzh'), n. In French marine law, the throwing overboard of ballast.

Delézinier's base. See *base2.

Delézinier's base. See *buse².

delf², n.—Brislington delf, stanniferous faience made at Brislington, near Bristol, England, in the eighteenth century. It is of coarse body and yellowish enamel and is frequently decorated with crudely painted copperluster designs.—Bristol delf, stanniferous faience made at Bristol, England, in the eighteenth century, in imitation of Dutch delf, but possessing a body sufficiently hard to resist a steel point.—Lambeth delf, tin-enameled pottery produced at Lambeth, London, England, in the seventeenth century, in imitation of the delf ware of Iloland. It is of a harder and denser paste than the Dutch product, and the blue color used in the decoration is of a paler tint.—Liverpool delf, tin-glazed pottery made at Liverpool, England, during the first half of the eighteenth century, in the manner of Iloland delf. The decoration is of a paler tint.—Liverpool delf, tin-glazed pottery made at Liverpool, England, during the first half of the eighteenth century, in the manner of Iloland delf. The decoration is of a pinkish tint.—Staffordshire delf, stanniferous enamel produced at several places in Staffordshire, England, in the seventeenth and eighteenth centuries. It was of a coarser body and ruder decoration than other English delf.

Delbartian (del-sär'ti-an), a. Of or pertain-legistant delf. Lambeth lambeth centuries and limes acoda feldspar, with quartz and subordinate minerals.

Dellopis (de¹-olo'e-pis), n. [NL., < Gr. δηλος, visible, + μεπίς, scale.] A genus of fishes of the family Cryptacanthodidæ, or wrymouths, found in Alaskan waters.

dellomorphic (de¹-olo'e-pis), n. [NL., < Gr. δηλος, visible, + μερφή, form, + -ie.] Of appreciable size: noting those eells of the stomach-glands which supposedly secrete the hydrochloridate.

dellomorphic (de¹-olo'e-pis), n. [NL., < Gr. δηλος, visible, + μερφή, form, + -ie.] Of appreciable size: noting those eells of the stomach-glands which supposedly secrete the hydrochloridate.

dellomorphic (de¹-olo'e-pis), n. [NL., < Gr. δηλος, visible, + μ

Delicate long-sting, an American bracould parasite,
Macrocentrus delicatus, which destroys the codling-moth.
Saunders, Insects Injurious to Fruits, p. 132.

delicatessen (del-i-ka-tes'en), n. pl. [G., < F. delicatesse, < délicat, delieate.] Delicaeies; delieate or dainty artieles of food, implying, in German use, sausages and the like.

delictum (dē-lik'tūm), n.; pl. delicta (-tā)

[L.] In civil and Scots law, see delict.

deligate (del'i-gāt), v. t.; pret. and pp. deligated, ppr. deligating. [L. deligatus, pp. of deligare: see deligation.] To tie off; apply a

ligature to. N. E. D.

delime (dē-lim'), v. t.; pret. and pp. delimed,
ppr. deliming. [de-+ lime1.] To remove lime
from, as skins. Modern Amer. Tanning, p. 50.

delimit, v. t.—Delimiting curve, a curve which separates two regions of the stoface upon which it is drawn. delimitate (de-lim'i-tāt), v. t.; pret. and pp. delimitated, ppr. delimitating. To determine and lay down the boundaries of; delimit.

delimitation, n. 2. In bot., same as *abjune-

delimitative (de-lim'i-ta-tiv), a. [delimitate + -ive.] Having power to delimit: as, a delimitative commission has been named.

delineative (de-lin'e-a-tiv), a. [delineate + ive.] That serves to delineate; of or pertaining to delineation.

When, however, we encounter delineative elements or subjects employed in ornamental offices, we may reasonably assume that ideas were associated with them, that they were symbolic. 20th An. Rep. Bur. Amer. Ethnol., 1898-99, p. 65.

delint (de-lint'), v.t. [de-+lint.] To remove the fiber, or lini, from eotton or similar seeds. **delinter** (de-lin'ter), n. [delint + -e r^1 .] A kind of eotton-gin for removing the short fibers, or lint, which remain on the cotton-seed after the first ginning; a linter.
deliquescent, n. 5. In bot., becoming liquid

deliquescent, n. 5. In bot., becoming liquid at maturity, as certain agaries.

Delirium cordis ('aberration of the heart'), extreme irregularity in the movements of the heart.—Delirium vesanleum ('insane aberration'), the delirium of true insanity as distinguished from that associated with other conditions, such as acute fevers.—Muttering delirium, a condition, seen in acute fevers, in which the patient is unconscious of his surroundings and is quiet, but constantly mutters to himself tantly mutters to himself.

deliverance, n.—Second deliverance, in Eng. law, a writ by which a plaintiff in replevin, having lost his suit by default or nonsuit, could have the same distress again delivered to him upon giving the same security as before

layer or plate: said of the formation of the endoderm in certain ecelenterate embryos.

deleb (del'eb), n. [Ar.; cf. dolb, plane-tree.]

A variety of the palmyra-palm, Borassus flabelifer, distributed from Senegambia through the Sudan and Central Africa to German East Africa and the Zambesi. The seeds are used as food, and from the leaves mats are made. See palmyra, 1, and Borassus.

delectus (dē-lek'tus), n. [L. delectus, a selection, \(\lambda \) deligere, select: see delectus personæ.]

A graduated selection of passages from Latin or Greek authors, usually with notes and a vocabulary, for translation by school-boys: as, a Latin delectus; Valpy's Greek Delectus.

delegant (del'ē-gant), n. [L. delegans (-ant-), pp. of delegare, assign: see delegate, v.] In eivil law, a debtor who, to discharge his debt,

ehamber into which a liquid is thrown by pumps and from which it is delivered to any desired point.

delivery-pipe (dē-liv'er-i-pīp), n. The pipe through which liquids pass away, or are ejected, from a pump; a discharge-pipe. The pipe

dellenite (del'en-it), n. [Dellen, in Sweden, +-ite2.] In petrog., a name proposed by Brögger (1896) for rocks intermediate in composition between dacite and rhyolite. Dellenite is a porphyritic or non-porphyritic aphanitic rock, characterized by nearly equal amounts of potash feldspar and lime-soda feldspar, with quartz and subor-dinate amounts of other minerals.

Delphin blue. See *blue, n. Delsartian (del-sär'ti-an), u. Of or pertaining to François Delsarte (1811-1871), a French musician, or to a method of developing bodily grace and strength founded by him.

delt, pp. A simplified spelling of dealt. Delta connection, moth, purpurin. See *polyphase, deltoid moth, *purpurin. deltal (del'tal), a. [delta + -all.] Of or pertaining to a delta: of the nature of a delta. delta-plain (del'tä-plan), n. The nearly level

lowland portion of a delta, above water. R. D. Salisbury, Geol. Surv. of New Jersey, 1892,

delta-plateau (del'tä-pla-to"), n. plain; a delta formed at the front of a regional glacier.

For such topographic forms Professor Davis long since proposed the name of delta-plain or delta-plateau, instead of sand-plain, a designation which has also been employed by many others, being both suggestive and descriptive.

Amer. Geol., Sept., 1903, p. 163.

delta-ray (del'tä-rā), n. See ★ray1. deltarium (del-tā'ri-um), n.; pl. deltaria (-ā). [NL., < Gr. δέλτα, the letter Δ, + -arium.] In the

telotrematous Brachiopada, the deltidial plates, taken as a single feature; the eovering of the delthyrium in these organisms: eontrasted with deltidium and pseu-do deltidin m (After Hall and Clarke.) (which see).



A part of the hinge of the hrachiopod

Deltentosteus (del-ten-tos'tē-us), n. [NL., < Gr. $\delta \hat{\epsilon} \lambda \tau a$, delta, $+ \hat{\epsilon} r \tau \delta \varsigma$, within, $+ \hat{\delta} \sigma \tau \hat{\epsilon} o v$, bone.] A genus of small gobies found in the Mediterranean. D. quadrimaculatus is the typical species. delthyrial (del-thir'i-al), a. [delthurium +

all. I Of or pertaining to the delthyrium. **Delthyris** (del'thi-ris), n. [NL. for *Deltathyris (referring to the pediele aperture), \langle Gr. $\delta \ell \lambda \tau a$, the letter Δ , $+ \theta \ell \rho a$, a door.] A subgenus of Paleozoie braehiopods, having the general characters of the genus Spirifer, but with the surface of the shell covered with fine consurface of the shell covered with fine coneentrie lamellæ.— Delthyris limestone, in the original nomenclature of the New York rock formations, a
term applied to a division of the Helderberg series, taking
its name from the abundance of the brachiopod Delthyris
or Spirifer; also known as the Delthyris shaly limestone
and the Catskill shaly limestone. The present geographic
designation of the formation is the New Scotland beds.
delthyrium (del-thir'i-um), n; pl. delthyria
(-ä). [NL. for *deltathyrium, ⟨Gr. δέλτα, the letter Δ, + θυριου, a
little door] In

little door.] In the Brackiopodu, the triangular pedieleopening in the eardinal area of the ventral valve, 'extending from the beak to the hinge-line. It may remain open



A part of the hinge of the brachiopod Spirifer, showing the delthyrium, Δ . (After Hall and Clarke.)

the deltidium or, in secondary stages when the deltidium is absent, by the development of the deltidial plates. See \star deltidium, \star deltidial plates, and \star deltarium.

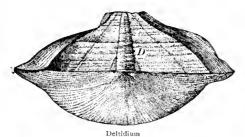
deltidial (del-tid'i-al), a. [deltidium + -all.]
Of or relating to the deltidium.—Deltidial plates, in the Brachiopoda, the two symmetrical plates which, in advanced forms

which, in advanced forms (Telotremata), cover the del-thyrial opening or delthyrinm. These plates are a sec-ondary structure, appearing late in the phylogeny of the class. They grow from the sides of the delthyrium and sometimes become coalesced along the median line at which they meet, forming a structure similar in appear-



which they meet, forming a atructure similar in appearance and function to the deltidial plates, D. (After deltidialm, but very different therefrom in origin, and known as the pseudodeltidium.—Deltidial tube, in certain extinct Brachiopoda, an incomplete tube or syrinx formed on the inner surface of the deltidium.

deltidium (del-tid'i-um), n.; pl. deltidia (- \ddot{a}). [NL., ζ Gr. δέλτα, the letter Δ , + dim. -ιδίον.]



A brachlopod (Derbya Cymbula) showing the deltidium, D. (After Hall and Clarke.)

In the Brachiopoda, the convex or concave single plate which covers the delthyrium or pedicle-passage. In the embryo this appears as a single plate on the dorsal side before the development of the ventral valve, with which it finally becomes fused (see prodeltidium), and characterizes certain of the Protremata; but in all advanced forms (Telotremata) the deltidium is absent, being replaced by the deltidial plates.

Deltistes (del-tis'tez), n. [NL., < Gr. δέλτα, delta, + term. -ιστης.] A genus of suckers of the family Calostomida, found in the lakes of southeastern Oregon, characterized by very

or southeastern Oregon, characterized by very strong jaws and triangular teeth in the pharynx. D. luxatus is the typical species.

deltoid. I. a.—Deltoid dodecahedron. See *dodecahedron.—Deltoid eminence, that part of the lumerns where the deltoid muscle is attached.—Deltoid plates, in the blastoid Echinodermata or Blastoidea, the triangular interradial plates lying at the summit of the celvs. calyx

II. n. 2. In zoöl., a deltoid plate. - 3. In math., a symmetrical quadrilateral with a diagonal as axis.

Delinsion of grandeur, insane helief in one's own importance, wealth, social rank, etc.—Deliusion of negation, insane belief that some part of the body is lacking.
—Delinsion of persecution, insane helief that one is being pursued, watched, or slandered by secret enemies.

Delusional insanity. See *insanity.

Dem. An abbreviation (a) of Democrat; (b) of Democratie.

demagnetizer (de-mag'net-i-zer), n. One who or that which removes magnetic polarity, or which causes something to eease to exert magnetic attraction; specifically, a device for removing any polarity or tendency to exert magnetic attraction from articles which have touched or have been in the sphere of action of an electromagnet, as in chucks or clutches or lifting-apparatus where the grip has been by magnetic action. Demagnetization is snally effected by frequently reversing the polarity of the demagnetizing mass, while the object to be demagnetized is gradually withdrawn from the influence of that mass; or the object, if small, may be rapidly revolved in the radius of action of a mass of fixed polarity, and then gradually withdrawn while so revolving.

demand, n.—Reciprocal demand, the external demand for the products of one economic group induced by the demand of that group for the products of non-competing groups. Thus in international trade, through the tendency of imports to balance exports, one nation's demand for the products of other nations induces an equal reciprocal demand on the part of those nations for the products of the first nation. It was contended by Cairnes that this principle determines the relative valuation of products of groups within a nation when there is no free movement of labor and capital from group to group.—Stale demand or claim, in law, a claim or demand that has been allowed to lie dormant so long that, although not barred by the statute of limitations, it is not looked upon with favor by the law.

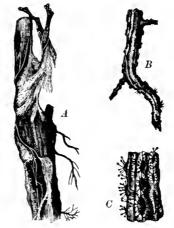
See dam-demand (dem'a-rē-fi'on) n. See dam-demand (dem'a-level) and the double bassoon.

demareteion (dem "a-rē-tī'on), n. See damareteian.

through life or become closed in early life by the growth of the deltidium or, in secondary stages when the deltidium Same as Dematicae: the form now in use.

Dematicae (dem-a-ti-ā'sē-ē), n. pl. [NL.] upright stones, while the other end rests on the ground. Same as Dematien; the form now in use.

Dematophora (dem-a-tof'ō-rā), n. [Nl. (Hartig, 1883), < Gr. δεμα(τ-), a band, + -φορος, <



Dematophora necatrix.

A, a vine-stock affected by the fungus (after a prolonged stay in a moist chamber); B, a vine-root with rows of black sclerotia of the fungus exposed, and bearing bristle-like conditiophores; C, portion of A after the formation of conditiophores: enlarged. (From Tubeuf and Smith's "Diseases of Plants," after R. Hartig.)

φέρειν, bear.] A genus of fungi of doubtful relationship occurring commonly as sterile relationship occurring commonly as sterile strands or layers of mycelium parasitie on the roots of plants. It sometimes forms tuberous black sclerotia from which bristle-like conidiophores may arise bearing ovoid hyaline conidia. Viola has also described what he regards as a perithecial condition of the fungus. D. necatrix is the best-known form. It attacks the roots of the grape and various fruit and forest-trees. See **haubernage** and **root-rot.

demedication (de-med-i-ka'shon), n. [de-+ medication.] See *eataphoretic demedication. démêlé (dā-mā-lā'), n. [F., < démêler, untangle, separate, discuss, < dé-+ mêler, mix: see mell, mêlée.] Contest; contention; quarrel; squabble: as, an unfortunate démêlé with the cook; a démêlé with Russia.

demene, n. A simplified spelling of demesne. dementholize (de-men'thol-iz), r. t.; pret. and pp. dementholized, ppr. dementholizing. [de-+ menthol + -ize.] To deprive of menthol.—De-mentholized oil, oil of peppermint from which the men-thol has been removed.

démenti (dā-māń-tē'), n. [F., $\langle d\acute{e}mentir$, deny, $\langle d\acute{e}-+ mentir$, lie.] The giving of the lie (officially); denial.

Dementia præcox, a form of insanity occurring at pu-herty.—Secondary dementia, a form of chronic demen-tia which follows repeated acute attacks.

Demerara crystals. See *crystal.

demeritorious (de-meri-tō'ri-us), a. [de-+meritorious (with ref. to demerit).] Blameworthy as well as destitute of merit: the opposite of meritorious: as, demeritorious conduct.

Let us start from a particular case. I sign what I know to be a malicious libel. I am, then, a malevolent liar. My conduct proves that I am neither benevolent nor truth-ful. I deserve blame, and my conduct is de-meritorious. Leslie Stephen, Science of Ethics, p. 279.

demersal (dē-mér'sal), a. [Irreg. I. demersus, pp. of demergere, immerse, + -all.] Having so great a specific gravity as to sink in water: said of fish-eggs.

The eggs may be pelagic, $i.\ e.$ so light as to float when lald, as in the Cod, Haddock, Turbot, Sole, &c., or demersal, $i.\ e.$ so heavy as to sink to the bottom, as in the Herring. Parker and Hasnell, Zoology, II. 225.

demi-bateau (dem[#]i-ba-tō'), n. One of the two small boats which when united form a pontoon-Also ealled demi-pontoon.

demibranch (dem'i-brangk), n. [demi- + Gr. βράγχιον, gill.] In lamellibranelliates, one of the two gills on either side. *Philos. Trans. Roy. Soc.* (London), 1903, ser. B, p. 151.

demidolmen (dem-i-del'men), n. A megalithie table-stone resting with one end on one or two

the ground.

demi-gross (dem'i-grōs), n. An English coin of
the time of Edward III., of the value of two

demi-kindred (dem'i-kin"dred), n. Persons related by either the paternal or the maternal blood.

demi-landau (dem'i-lan dâ), n. A half-landau: a landaulet.

demilegato (dem/i-lā-gā'tō), a. [It.: see demiand legato.] In musie, noting a style of performand legato.] In music, noting a style of performance in which the tones in a phrase are slightly separated by a silence, but not enough to become fully detached. It is indicated roughly by staccato marks and a sweeping curve. See cut (a) under staccato.

demilitarize (dē-mil'i-ta-rīz), v. t.; pret. and pp. demilitarized, ppr. demilitarizing. [de-+militar-y+-ize.] To convert from a military to a civil form of government; place under civil jurisdiction. N. E. D.

jurisdiction. N. E. D. demimondaine (dem-i-mon-dān'), n. [F., < demimonde, demi-monde.] A member of the demi-monde. N. and Q., May 27, 1905, p. 418. demineralization (de-min"e-ral-i-zā'shon), n. [demineralize + -ation.] Loss of mineral constituents: noting a process which occurs in softening of the boxes (vector-market). softening of the bones (osteomalacia). Med. Record, June 27, 1903, p. 1047. demi-pique (demi-pēk'), n. A saddle with a

about half as high as that of the military saddle.

Dis rider occupied his *demipique*, or war-saddle, with an air that showed it was his familiar seat.

Scott, Legend of Montrose, ii.

demi-plate (dem'i-plat), n. In Echinoidea, ono of the ambulaeral plates which are cut off from the median suture by the union of adjoining plates behind. Lankester, Treatise on Zool. III. 288.

demi-pontoon (dem/i-pon-ton'), n. Same as *demi-batcan.

demi-season (dem-i-se'zn), a. Intermediate, as in style, etc., between two seasons: as, a demiseason eostume. N. E. D.

demi-semi (dem-i-sem'i), a. Half of a half : ap-

plied contemptuously to a person (or thing) of no particular account or consequence: as, a demi-semi statesman. N. E. D.

demisemiquaver, n.—Half demisemiquaver. Same as hemidemizeniquaver.
demit (dē-mit'), n. An act of demission or transfer of membership, as from one masonic lodge to another; also, the letter which officially certifies to such a transfer.

demi-tasse (dem-i-täs'), n. [F., half-eup.] A small eup, as of coffee served after dinner. democentric (dem-ō-sen'trik), a. Character-ized by the idea that the people to which an in-

dividual belongs forms the center of the uni-

The heliocentric system was expanded out of an antecendent geocentric system, itself the offspring of a democentric system, which sprang from an earlier ethnocentric system born of the primeval egocentric cosmos of inchoate thinking.

W. J. McGee, Rep. Bur. Amer. Ethnol., 1897-98, p. 831.

democratic, a .- Social Democratic Federation.

demodectic (dem-ō-dek'tik), a. [Erroneously formed from Demodex.] Of or pertaining to Tormed from Demodext. Of or pertaining to Demodex.—Demodectic acariasis, a slowly spreading, not highly contagious infection of the hair-follicles with the hair-follicle nite (Demodex folliculorum). The best known and most dangerous variety of the disease is that which occurs in dogs. The bovine variety causes considerable injury to the hide, lowering its market value. In man demodectic acarissis is rather common, but rarely of importance. Other varieties occur in horses, goats, and sheep. Also called follicular mange.

demodicid (dem-ō-dis'id), n. and a. I. n. A member of the family Demodicidæ.

II. a. Having the characteristies of or be-

11. α. Having the characteristics of or belonging to the family Demodicidæ.

demogenic (dem-ō-jen'ik), α. [Gr. δημος, the people, + -γενής, -producing.] Creative of a people organized on a civic basis, as distinguished from a tribe or group of tribes organ-ized on a basis of kinship. Giddings, Prin. of Social., p. 74.—Demogenic sociology, that part of social science which is concerned with the social life of peoples which have outgrown the tribal state and have developed a civic organization.

demographically (dem-ō-graf'i-kal-i), adv. As regards vital and social conditions; with reference to demographic conditions.

Buénos-Ayres is a town which is altering demographically in two very sensible ways; there is a rapidly increasing population, together with improving sanitary and medical conditions, indicated by a falling death-rate and a decrease in the percentage of still-born children.

Biometrika, Jan., 1904, p. 100. demoid (dê'moid), a. [Gr. δημοειδής, ζ δήμος, the people (see demos), + ilou, form.] Characteristic of a region or period, or of a particular geological formation; applied to fossils that are so common as to be typical.

demolitionary (dem-ō-lish'on-ā-ri), a. [demo-lition + -avy.] Tending to demolish or ruin; lition + -ary.

destructive

demological (dem-ō-loj'i-kal), a. Of or pertaining to demology or demography. *Philos*. Trans. Roy. Soc. (London), 1895, ser. B, 186.

demology (dē-mol'ō-ji), u. [Gr. $\delta \tilde{\eta} \mu o \xi$, the people, + -io) a, $\langle 2e$) iw, speak.] Demography; occupy a continuously expanding spherical surface, originally, vital statistics, now expanded in **demonstrational** (dem-en-stra shon-al), a. Of meaning to denote the statistical study of population in extent, density, and composition. Philos. Trans. Roy. Soc. (London), 1895, ser. B, 186, 783,

demon, n. 5. In anthrop., a supernatural proteetor or helper. See munito and *nyarong. tector or helper. See mainto and *nijarrong, — Maxwell's demon, an imaginary intelligent agent assumed by Maxwell in a discussion of the second law of thermodynamics. The function of the demon was to open and close a gate or valve in a partition separating the two halves of a reservoir of gas in such a manner as to allow only particles of high velocity to pass through in one direction and those of low velocity in the other. The result would be that, without the expenditure of work the temperature of the gas would be raised on one side and lowered on the other in contradiction of the second law of thermothe other, in contradiction of the second law of thermodynamics.

demonism, n. 2. Specifically, in authrop.. the belief in the existence of an intimate relation between a person and one or more supernatural beings who become his protectors and helpers. This form of belief includes the manito of the Algonkin, the nyarong of the Sea Dayak, and similar beliefs of many other tribes and peoples. Also called manitoism.

Also daimonism.

T. W. Reid, Life of Lord Honghton, 11. 253.

demorphism (de-môr'fizm), n. [de-+ morphism] In petroy., the decomposition, disintegration or weathering of reaks as contracted.

The advantages of totemism are many, but most of them are social and benefit the special groups or the community at large. The hold that the manite has on the individual consists in its personal relation: the man feels that he himself is helped, and I suspect this is the main reason why it supplants totemism. I believe Mr. Lang some years ago suggested the term manituism for this cult. If this name be not necepted I venture to propose the revival of the word 'daimon' ($\delta a \mu a \nu$) to include the manitu, nyarong, and similar spirit helpers, and 'daimonism' as the name of the cult.

Rep. Brit. Ass'n. Advancement of Sci., 1902, p. 743. The advantages of totemism are many, but most of

demonolatrous (dē-mon-ol'a-trus). a. Pertaining to or given over to demonolatry; devilworshiping: as, demonolatrous tribes.

demonomaniac (de mon-o-mā'ni-ak), n. insane person believed by others, or by him-self, to be possessed by a devil.

For the demonomaniacs of a hundred years ago—belated representatives of mediaval mysticism, who typify the ancient form of paranoia—are now substituted the modern paranoiacs

C. Lombroso (trans.), Man of Genius, p. 173.

demonomy, n. 3. The system of knowledge that pertains to human activities.

I use the term sociology to distinguish one of five coorinate sciences, esthetology, technology, sociology, philogy, and sophiology; and I call all of these sciences J. W. Powell, Rep. Bur. Amer. Ethnol., 1898–99, p. lx.

demonophobia (dē"mon-o-fo'bi-ä), n. Gr. δαίμων demon, + -φοβία, fear.] Fear of demons: demonomania.

demonstrant (dē-mon'strant), n. One who takes part in a public demonstration, as of approval, hostility, or the like. lemonstration, n. 6. ln Rom, law, the formal

demonstration, n. demonstration, n. O. in Nom. aa, the formal statement of the plaintiff's claim in presenting his case to the court: somewhat analogous to the 'declaration' of the common law.—Abstractional demonstration. See *abstractional.—Demonstration by continuous identification, a demonstration which assumes that phenomena are to be identified by those features which change indefinitely little in indefinitely short intervals of time.—Demonstration by extreme cases, a demonstration which proceeds by imagining limiting cases of the application of a principle assumed as general, as, for example, when the properties of a function are demonstrated by considering the cases in which one and the other variable becomes zero and becomes infinite.—Demonstration by limits. See method of limits.—Demorganian demonstration, a demonstration which virtually assumes that a collection to which it relates is finite.—Dilemmatic demonstration, a demonstration by enumerating all possible cases and by demonstration by enumerating all possible cases and parately.—Fermatian demonstration, a mode of demonstration applicable to a collection of objects, say the Ns, provided it has the following character: Let the rs be certain objects among the Ns, and let 'exhaustive step' be the designation of a definite mode of transition from one N to other Ns, Then, if the Ns he such that any N whatever can be reached by a finite number of exhaustive steps starting from some R. a Fermatian demonstration will be statement of the plaintiff's claim in presenting ever can be reached by a finite number of exhaustive steps starting from some ν , a Fermatian demonstration will be applicable, and will proceed upon this assumption. Thus, if Q be any quality possessed by every ν and also possessed

by every N which can be reached by a single exhanstive step from another N that has the quality Q, the statement of this will be a Fernatian demonstration that every N has the quality Q.—Geminational demonstration, a demonstration by imagining a moving object suddenly to separate as if it consisted of two or more coincident objects which the accretion represents the experience of the consistency of the constraints.

separate as if it consisted of two or more coincident objects which at a certain moment begin to move along separate paths so as to generate wholly distinct parts of a new place.—Generalizational demonstration, a demonstration made by demonstration generosition which includes the proposition to be proved as a particular case.—Projectional demonstration, a demonstration which passes from imagining points or lines to imagining lines or surfaces through those points generated by the rectilinear motion of the former through a point; or which imagines the section of lines or surfaces by a plane, so as to give points or lines.—Pullational demonstration, a demonstration which supposes an object suddenly to begin to occupy a place of higher dimensionality, as when a particle occupying a mathematical point suddenly begins to occupy a continuously expanding spherical surface.

demonstrational (demon-gn-stra'shon-al), a. Of

or pertaining to demonstration.

demontry (de mon-èr-ji), n. [Gr. δαίμων, demon, + έργον. work.] The practice of magic with the help of the devil or of demons.

with the help of the devil or of demons.

demonymic (dem-\(\bar{0}\)-nim'ik), \(a\), a and \(n\). [Gr. \\
\delta\) denorms.] A monogometric demons.

\[
\delta\) denorms.] A monogometric demons.

\[
\delta\) denorms.] A monogometric denorms.] A monogometric denorms.]

\[
\delta\) denorms.] denorms.]

\[
\delta\) denorms.] denorms.]

\[
\delta\) denorms.] denorms.]

demophil (dem'ō-fil), n. [Gr. $\delta \tilde{\eta} \mu \sigma \varsigma$, the people, $+ \phi i \lambda \sigma \varsigma$, leving.] A friend of the people. N. E. D.

demophilism (dē-mef'i-lizm), n. [demophil + -ism.] Love of the people; regard for the

On the "high mountain" where you [Gladstone] stand there is a demon, not of demagoguism, but of demophilism, that is tempting you sorely.

T. W. Reid, Life of Lord Honghton, II. 253.

phism.] In petroy., the decomposition, disin-denaturation (de-na-tu-ra'shen), n. tegration, or weathering of rocks, as contrasted with their metamorphism or transformation into other rocks. Von Lasaulx. demos, n. 3. In sociol., a people which has

outgrown the tribal system and is organized the basis of neighborhood and medes of coöperation instead of on the basis denaturization (de-na "tūr-i-za'shen), n. [de-of blood-kinship; a social body which, since naturize + -ation.] 1. The act or process of blood-relationships are no longer important, includes iudividuals of various lineages or nationalities. Giddings, Prin. of Sociel., p.

Demospongiæ, n. pl. 2. A class of Porifera consisting of the orders Carnosa, Tetractinellida, Haliehondrina, Hadromerina, Dictyoecratina, Dendroceratina, and the Myrospongida. It is characterized by the rhagon type of canal system, and is the most widely spread group of spouges of the present day. It includes the most highly organized of the snonges.

demot (de'mot), n. [Gr. δημότης, < δήμος, the people.] A member of an old Attie deme, or hundred. Grote.

demote (dē-mēt'), v.t.; pret. and pp. demoted, ppr. demoting. [de- + (pro)mote.] To reduce to a lower grade or class: opposed to promote: as, to demote a boy for falling behind

in his studies. demotic, u. 2. Pertaining to a people developed beyond the tribal stage and including individuals of various kindreds or nationalities. Giddings, Prin. of Sociol., p. 96.—3. Social.

It is convenient to denote the primary activities comprised in the domain of esthetology as pleasures, since they are largely physiologic in character, though, like other activities, chiefly demotic (or collective) in their manifestations; and the activities may be classed as ambrosial pleas ures, decoration, athletic pleasures or sports, games, and

fine arts.

J. W. Powell, Rep. Bur. Amer. Ethnol., 1898-99, p. xii.

Demotic composition, the combination of various elements of age, sex, nationality, and race in a social population or people; a demos. The intermingling of elements unlike in organic constitution, in age, and in sex, and of elements bred of different parent stocks and having therefore unlike qualities and habits, may be called the demotic composition.

Because genetic and congregate aggregation must detogether a population always has a demotic compo-Giddings, Prin. of Sociol., p. 96.

Demotic society, a society which has outgrown the tribal stage and which includes individuals of any lineage or kindred. Giddings, Elem. of Sociol., p. 190. kindred.

demotics (de-met'ikz), n. The scientific study

of the common people; sociology. demotion (dē-mō'shon), n. (de- + (pro)motion.] Reduction in rank or relative position in any series or class: opposed to promotion.

This regimentation [of the members of an Indian family or tribel is complicated by various factors, such as adoption, and (especially) what may be called promotion and demotion, i. e., advancement in "age" (rank) by common consent in recognition of prowess, etc., with correlative

reduction in "age" as the penalty for cowardice, etc., so that the actual age relations may be completely lost.
Smithsonian Rep., 1901, p. 75.

demotist (dē-mot'ist), n. [demot(ic) + -ist.]
A student of the ancient Egyptian form of writing known as demotic (which see).

Though demotic has not yet received serious attention at Berlin, the influence of that great school has made itself felt among *denotists*, especially in Switzerland, Germany, America, and England. *Encyc. Brit.*, XXVII, 726.

demurrant (dē-mer'ant), n. [demur + -ant1.] In law, a party to an action who puts in a demurrer.

demurrer-book (de-mer'er-buk), n. A transcript containing a copy of all the pleadings in an action by which an issue of law, rather than of fact, has been joined.

demy, n. 5. The gold half-lion of 20 grains of Robert II. of Scotland, the lion itself weighing 40, or more usually 38, grains.

denar (de-när'), n. [G., \(\) L. denarius: see denarius.] A money of account of Breslau: one pound equals 288 denars.

denaturalize, v. t. 4. Same as *denaturize.

The manufacture of denaturalized alcohol as a substi-ite for petroleum spirit. Encyc. Brit., XXXI. 13. tute for petroleum spirit.

denaturant (dē-nā'tū-rant), n. [denature + -ant.] A substance added to alcohol or other material in order to unfit it for use in a particular way. See *denaturization.

denaturate (dē-nā'tū-rāt), v. t.; pret. and pp. denaturated, ppr. denaturating. [NL. *denaturare: see *denature.] Same as *denaturize.
G. Lunge, Snlphuric Acid, II. 14.

naturation; as denaturate + -ion.] Same as *denaturization.

denature (dē-nā/tūr), v. t.; pret. and pp. de-natured, ppr. denaturing. [F. dénaturer, < NL. *denaturare; as de- + nature.] Same as *denaturize.

deuaturizing (as salt, in Germany, or seed-oils, in Spain); specifically, the addition to alcehol of something which renders it unfit for use as a beverage (thus exempting it, under special legislation, as in England, France, Germany, and the United States, from taxation), so as to permit its economical use as a fuel or in the manufacture of varnishes, chemicals, etc. Wood-spirit, naphtha, and Dippel's animal oil are among the materials most employed for the dena-turization of alcohol, but others are used.

2. A term introduced by Neumeister to designate a change effected in the physical or chemical properties of the albumins whereby they lese their individual characteristics and, if coagulated, can no longer be dissolved in their ordinary solvents. Denaturization can be brought about by heat, acids and alkalies, the salts of the heavy metals, etc.

denaturize (dē-nā'tū-rīz), v. t.; pret. and pp. denaturized, ppr. denaturizing. [de- + nature + -ize.] To deprive (something) of its peculiar denaturized, ppr. denaturizing. nature; specifically, to treat (alcohol or other material) so as to render it unfit for use in one way while leaving it eapable of being used in another. See *denaturization. Irans.

Amer. Inst. Elect. Engin., 1898, p. 139.

Denbighshire grits. See *grit².

dendo (den'dô), n. [Native name in Angola.]

An evergreen tree of the ebony family, Diospyros Dendo, native to western tropical Africa. It yields a very black hard wood known commercially as black ebony or Niger chony. dendra, n. Plural of *dendron.

dendraxon (den-drak'son), n. [Gr. $\delta \dot{\epsilon} \nu \delta \rho \sigma \nu$, tree, + $\dot{\alpha} \xi \omega \nu$, axis.] A neuron, or nerve-cell, the axis-cylinder process of which branches off immediately into dendrites. Also spelled dendraxone.

dendrite, n. 3. In neurol., one of the protoplasmic processes of a nerve-cell: opposed to *neurite, the axis-cylinder. See cut at *neu-

dendritic, a. 3. In phys. geog., branching irregularly, in the form of a tree: as, dendritic drainage, streams, valleys.

The student should study also the well-developed dendrainage in Lebanon valley at the bottom of the I. C. Russell, Rivers of North America, p. 204. map.

Dendritic cancer. See *cancer.

dendrobium. N. E. D.

Dendrobium, n. 3. [l. c.] A plant of the genus

Dendrobranchiata (den "drō-brang-ki-ā'tā), n. pl. [NL.: see *dendrobranchiate.] A division of macrurous decapod erustaceans in which the branchial plumes are divided in an arborescent manner. It includes the *Penzidæ* and the *Sergestidæ*. Contrasted with *Phyllobran*chiata and Trichobranchiata. Spence Bate.

dendrobranchiate (den-drō-brang ki-āt), a. and n. [NL. dendrobranchiatus, ζ Gr. δένδρον, tree, + βράγχια, gills: see branchiate.] I. a. Having arborescent gills; of, or pertaining to, or resembling, the Dendrobranchiata.

II. n. One of the Dendrobranchiata. Dendroceratina (den "drō-ser-a-tī'nā), n. pl.[NL., $\langle \text{Gr. } \delta \xi v \delta \rho v \rangle$, tree, $+ \kappa \epsilon \rho a \varepsilon (\kappa \epsilon \rho a \tau^{-})$, horn, $+ ina^{2}$.] One of the two orders of ceratose sponges (the other being *Dietyoceratina*) having the spongin fibers dendritie, arising from a basal plate of spongin, and not anastomosing. It includes the family Aplysillidæ.

dendroceratine (den-dro-ser'a-tin), a. Resembling or pertaining to the Dendroceratina.

dendrochemical (den-dro-kem'i-kal), a. [Gr. cvopov + E. chemical.] Relating to chemistry as applied to the study of trees for industrial purposes: as, the dendrochemical laboratory of the Bureau of Forestry of the United States Department of Agriculture.

[Gr. δενδρώδης. dendrodic (den-dro'dik), a. same as δενδροειδής, tree-like (see dendroid). +
-ie.] 1. Same as dendrodont.—2. Tree-like: said of ramifying structures seen in the sec-

tions of certain organs.

Dendroidea (den-drō-id'ē-ā), n. pl. [NL.: see dendroid.] A suborder of the graptolites characterized by tree-like mode of growth and differentiation of the zoöids and thece in budding, nourishing, and generative individuals. They extend from the Upper Cambrian into the Middle Devonian. Their most widely known genera are Dictyonema and Dendrograptus.

nema and Dendrograptus.

dendrolatry (den-drol'a-tri), n. [Gr. δένδρον, tree, + λατρεία, worship.] Tree-worship. Jour. Amer. Folk-lore, April-June, 1903, p. 132.

dendrolene (den'drō-lēn), n. [Gr. δένδρον, tree, + -l- + -ene.] A trade-name of a viscid petroleum product used to protect the bark of trees carriert insects. trees against insects.

dendrophilons (den-drof'i-lus), a. [Gr. δένδρον, tree, + φιλείν, love.] Tree-loving; pertaining to or characterized by an arboreal mode of life.

dendropsychosis (den "drop-si-kō'sis), n. [NL., ζ Gr. δενδρον, tree, + ψύχωσις, animation: see psychosis.] A supposed instinctive interest in trees, or impulse to climb trees: regarded as

Dendropupa (den-drō-pū'pä), n. [NL., ζ Gr. δένδρον, tree, + NL. Pupa, a genus of mollnsks.] A genus of Carboniferous land-shells resembling Pupa but having no teeth in the aperture.

Dendrotrophe (den-drot'rō-fē), n. [NL. (Miquel, 1855), ζ Gr. δένδρον, tree, + τροφή, nourishment.] A genus of dicotyledonous plants, of the family Santulaceæ, often parasitic on trees. See Henslowia,

denegatory (de-neg'a-tō-ri), a. [denegate + -ory.] Involving or implying a contradiction; eontradictory: as, a denegatory declaration. Bentham.

denga (den'gä), n. [Russ. den'ga.] A Russian copper coin of the value of half a copeek. denier², n. 2. A unit of weight in the French

system, in use before 1812, equal to 19% troy grains .- 3. A unit of weight for silk yarns,

denitratation (de-nī-tra-tā'shon), n. Same as densimetry (den-sim'e-tri), n. The use of the denitration.

dendrobe (den'drob), n. [NL. dendrobium.] A denitrate, v. t. 2. To remove the lower oxids of nitrogen from (nitrous vitriol), in the manufacture of sulphuric acid by the lead-chamber density, n. 4. In photog., opacity of the deprocess, so that these oxids may not be lost, but returned to the lead-chambers.—3. To decompose (guncotton, nitroglycerin, or other nitric esters used as explosives), removing the nitric esters used as explosives), removing the nitric-acid radical and regenerating the cellulose, glycerin, etc., from which these were produced.

denitration, n. 2. The process of removing the lower oxids of nitrogen from nitrous vitriol in making sulphuric acid. See *denitrate, 2.—3. The process of removing the nitrie-acid radical from guncotton or other nitrie esters, regenerating cellulose, etc. See \star denitrate, 3.

denitrator (dē-nī'trā-tor), n. An apparatus

for denitration.

denitrifier (de-ni'tri-fi"er), n. 1. That which destroys or prevents the formation of nitric acid or nitrates, as certain ferments in the decomposition of nitrogenous organic matter.

2. In bacteriol., any micro-organism which is capable of breaking down nitrates into density-globe (den'si-ti-glob), n. nitrites, and nitrites into ammonia compounds,

or of liberating nitrogen from any of these. denitrify, v. II, trans. In bacteriol., to break down nitrates into nitrites, and nitrites into ammonia compounds, or to liberate nitrogen from any of these compounds by bacterial dent. action.

a device for raising water, similar to the Egyptian shadoof (which see).

The simplest and earliest form of wster-raising machinery is the pole with a bucket suspended from one end of a crossbeam and a counterpoise at the other. In India this is known as the denkli or paecottalt, in Egypt it is called the shadút.

Encyc. Brit., XXIX. 592.

Dennett grass. See *grass. Dennstaedtia (den-stet 'i-a), n. [NL. (Bernhardi, 1801), named for August Wilhelm Dennstaedt (or Denustedt) of Weimar, author of numerous botanical works.] A genus of polypodiaceous ferns, of the tribe Davalliea, with slender ereeping rootstocks and delicate solitary twice or thrice pinnate fronds 2 to 6 feet high. The globose sorus is terminal, the sporangia borne within a special cup-shaped indusium which is more or less adherent on the exterior side to the reflexed segment of the leaf margin. There are about 20 species, mostly tropical and subtropleal; but one, D. punctibobula, the hay-scented fern, occurs in the United States and Canada. See Dicksonia.

denomination, n. 4. In any system of reckoning, a class of units of one kind and having a specific name, as tens, hundreds, thousands, etc., in numbers; dollars or cents in values; pounds, hundredweights, tons, etc., in express-

possibly a psychical vestige of prehuman life nuder arboreal conditions.

The significant fact is that most of both the childish animisms and also of these specialised dendropsychoses fall away or end completely at puberty.

G. S. Hall, Adolescence, II. 217.

While, C. Gr.

The significant fact is that most of both the childish animisms and also of these specialised dendropsychoses fall away or end completely at puberty.

G. S. Hall, Adolescence, II. 217.

While, C. Gr.

The significant fact is that most of both the childish animisms and also of these specialised dendropsychoses in the denotative, specifically, denoting to denote; denotative; specifically, denoting to denote in growing terms, or by terms of the specialised dentification (den-ti-fi-kā'shon), n. [L. dens which have no natural association with the idea expressed: opposed to connotive.

Dentigerous cyst. See *cyst. Animasal (den-ti-nā'zal), a. and n. [L. dens dentinasal (den-ti-nā'zal), a. and n. [L. dens dentinasal (den-ti-nā'zal), a. and n. [L. dens dentinasal] I.

Among primitive peoples this denotive symbolism is not developed, and in lieu thereof an extensive and cumbrons system of comotive or associative symbols is employed.

Smithsanian Rep., 1892, p. xxiii.

a. Dental and nasal: said of certain sounds, a. Dental and nasal: said of certain sounds, a.

denounce, v. t. 6. In diplomacy, to announce the intention of abrogating (a treaty) in aceordance with its provisions or arbitrarily.

lens, n. 3. In entom., the terminal point of

dens. ". a mandible.

dense, a. 6. In optics, having a large index dentition. n.—Cheek dentition, the molar teeth: of refraction; capable of transmitting light at a less velocity than the velocity of lightwaves in vacuo.

The dense dentition of the molar teeth: used chiefly by British writers.

dentology (den-tol'φ-ji), n. [L. dens (dent-), tooth, + Gr. -λογία, ⟨λέγειν, speak.] Same as dense dens

densification (den "si-fi-kā'shon), n. Tho act or process of rendering dense.

The investigation of glass-pot clays, therefore, is restricted to the determination of plasticity, shrinkage, densification temperature, fusion point, and chemical composition. U. S. Geol. Surv., 1897–98, p. 428.

grains.—3. A unit of weight for sin, yellow equal to about 8_0^2 troy grains.

denier' (de-nēr'), r. t. To obtain the fineness or size of (a silk thread) in deniers.

or size of (a silk thread) in deniers.

Abnigrate (den'i-grāt), a. Blackened; turned

dense. [Rare.] U. S. Geol. Surv., 1897-98, the fine of the fine

densimeter; specifically, the operation of de-

termining the density of samples of gunpow-

The density-in-phase is constant in time for the varying phases of a moving system; provided, that the forces of a system are functions of its coördinates, either alone or with the time.

J. W. Gibbs, Statistical Mech., p. 9.

with the time. J. W. Gibbs, Statistical Mech., p. 9.

Dynamic density (of a population), the number of inhabitants per square mile taken in connection with their power to coöperate, as determined by concentration in cities and their means of communication.

—Flux density, the lines of magnetic force per unit section, or the induction.—Magnetic density, the rate of distribution of lines of force in a magnetic field. The unit is the gauss or one c. g. s. line per square centimeter.—Optical density, the property by virtue of which transparent substances transmit light at velocities less than that of a light-wave in vacno. Great optical density is associated with a large index of refraction, and vice versa: thus, glass is optically denser than water, and water than air.—Stem density. See ****tem!.—Vapor density, the density of a gas or vapor, at a specified pressure and temperature, in terms of that of hydrogen, or sometimes of air, taken as a standard.

density-globe (den'si-ti-glöb), n. A glass

globe having a capacity of from 30 to 2,000 cubic centimeters, used in accurate determinations of the density of gases. The globe is tions of the density of gases. The globe is provided with a stop-cock sealed on the neck. M. W. Travers, Exper. Study of Gases, p. 121. An abbreviation (a) of dental; (b) of dentist; (e) of dentistry.

denitrize (dê-nī'trīz), v. t.; pret. and pp. denitrīzed, ppr. denitrīzea, [de-+ nitr(ogen) +
-ize.] Same as denitrate.
denizen, n. 3. In bot., a plant suspected to
be of foreign origin. though behaving as if
indigenous. H. C. Watson.
denkli (dengk'li), n. [Hind. dhenkli.] In India,

dentale (den-tā'lē), n.; pl. dentalia (-li-i). [NL., neuter of L. dentalis, dental.] In ichth., the dentary; the tooth-bearing or anterior bone of the lower jaw.

dentalize (den'tal-īz), r. t.; pret. and pp. dentalized; ppr. dentalizing. [dental + -ize.] To convert (a sound) into a dental, such as d or t.

dentary-splenial (den "ta-ri-sple 'ni-al), n. The fused dentary and splenial bones, or a bone which takes the place of those two in

forming the jaw.

Dentate fascia. See * fascia. — Dentate fissure. Same as hippocampal fissure (which see, under hippocampal).

— Dentate gyrus. See * gyrus. — Dentate nucleus. Same as dentate body (which see, under dentate).

dentes. Plural of dens.

Denticete (den-ti-sẽ 'tē), n. pl. Denticete (den-ti-sẽ 'tẽ), n. pl. [L. dens, a tooth, + Gr. $\kappa\tilde{\eta}\tau\sigma_{\mathcal{C}}$ (pl. $\kappa\tilde{\eta}\tau\eta$), a whale.] A suborder of Cetacea containing the toothed whales. J. E. Gray, 1864.

denticle, n. 3. In the graptolites (Hydrozaa), one of the theeæ. See *theca, 1 (d) (6). denticular (den-tik' \(\bar{v}\) -l\(\bar{a}r\)), a. Resembling small teeth; tooth-like; denticulate.

denticulate-serrate (den-tik"ū-lāt-ser'āt),

a. Dental and nasal: said of certain sounds, as the consonant n.

II. n. A dentinasal sound.

dentiparous (den-tip'a-rus), a. [NL. *dentiparus, < L. dens, tooth, + parere, produce.] Producing teeth.

odontology.

dentonasal (den-tō-nā'zal), a. and n. An improper form for *dentinasal.

denucleate (dē-uŭ'klē-āt), v. t.; pret. and pp. denucleated, ppr. denucleating. [NL. *denucleare, < L. de, away, + nucleus, nucleus.] To deprive a cell of its nucleus. Also cuncleate.

denudes; denuding.

II. n. An agency or process which tends to denude a region. J. Geikie, The Great Ice Age, p. 259.

denudation, n. 3. In surg., the state of a part which is deprived of its natural covering, as a bone of the periosteum.—Chemical denudation, in geol., the process of removing the material of the land in solution. I. C. Russell, Rivers of North America, p. 81.—Plain of marine denudation, plain of subastial denudation. See *plain1.

denudationist (den - ū - dā ' shon - ist), n. One who emphasizes the influence of agencies in the production of relief forms, to the apparent neglect of deep-seated or subterranean agencies that may contribute to the

flow much of a valley is due to original fracture and how much to subsequent erosion remains a matter of opinion. After all, it is argaly a question of degree in most matters which are in dispute between the "convulsionists" and the "denudationists."

Athenaum, May 13, 1905, p. 595.

denudative (dē-nū'da-tiv), a. [denudate + '-ive.] Of or pertaining to denudation; effeetive in eausing denudation. [Rare.] Smith-

*denumeral.

denumeral (dē-nū'me-ral), a. Enumerable; numerable; countable; capable of being put into one-to-one correspondence with the class of all natural numbers in their usual order. Denumeral collection. Same as denumerable set.

denumerantive (de-nu'me-ran-tiv), a. [denumerant + -ive.] Pertaining to or like a denumerant. Sylvester.

denumerate (dē-nū'me-rāt), v. t.; pret. and pp. denumerated, ppr. denumerating. [dc-+ numerate.] 1. To count off or enumerate.—2. In math.: (a) To determine the number of in-

dividuals in a given class. (b) To determine the denumerant of an equation.

denumeration, n. 2. In math.: (a) Counting off, or ennmeration. (b) The determination of the number of individuals in a given class. (c) In theory of equations, the determination of the denumerant.

denumerative (dē-nū'me-ra-tiv), a. [denumerate + -ive.] Of or pertaining to denumera-

denunciation, n. 5. The act of denouncing a treaty.

Denver group. See *group1.
deoperculate, a. 2. Having an operculum that does not spontaneously separate from the sporophore, as certain mosses.

deoxidator (dē-ok'si-dā-tor), n. An agent or

apparatus for deoxidizing.

deoxidize, v. t.—Deoxidized bronze. See Tobin

deoxygenization (dē-ok"si-jen-ī-zā'shon), n. [deoxygenize + -ation.] Same as deoxygenation.

deozonization (dē-o/zōn-ī-zā'shon), n. zonize + -ation.] In chem., deprivation or removal of ozone: usually applied to its reversion to the condition of ordinary oxygen gas. Elect. World and Engin., Jan. 31, 1903, p. 205.

dep. An abbreviation (b) of department; (e)

of deponent.

depancreatize (de-pan'kre-a-tiz), v. t.; and pp. depancreatized, ppr. depancreatizing. [de- + pancreas (-at) + -ize.] To deprive of the pancreas by a surgical operation. Buck, Med. Handbook, VIII. 39.

depart. An abbreviation of department.

department, n.—Staff department, one of the Bureaus into which the United States Department of War is divided. It includes the following: the Adjutant-General's, Inspector-General's, Judge-Advocate-General's, Quartermaster's, Suhsistence, Medical, Pay. Engineer, and Ordnance Departments, and the Signal Buresu.

departmentalism (de part-men'tal-izm), n. [departmental + -ism.] Departmental methods

or usages.

department-store (de-part'ment-stor), n. large store or shop in which many different lines of retail business are earried on under one general management, such as the sale of fabrics, clothing, shoes, hats, jewelry, toys, household utensils, groceries, books, [U. S.]

Known in America as "department stores," situated at points of special convenience for customers using the various traffic lines, and tending to the extinction of thousands of small retail establishments.

Encyc. Brit., XXXI. 219.

Departure in despite of court, in old Eng. law, failure of a tenant in a real action to reappear on demand after having once appeared and been present in court. Rapalje and Laurence, law Dict.

depasturage (dē-pas'tūr-āj), n. [depasture +

-age.] Grazing; pasturage.

From Lammas to March the lands are subject to the enasturage of stock.

Encyc. Brit., XXVII. 169. depasturage of stock.

depauperation (de-pâ-per-a'shon). n. [depauperate + -ion.]
zation. Lindley. Impoverishment; depauperi-

depauperize, r. t. 2. To impoverish or render

poor; depauperate.

surface deperition (dep-e-rish'on), n. [NL. *deperitio(n-), \(\) L. deperire. waste away, \(\) de, away, \(+\) perire, waste away, perish: see perish. \(\) A

+ perire, waste away, perisn: see perisn. J A wasting away. Bentham.

depetalize (dē-pet'al-īz), v. t.; pret. and pp. depetalized, ppr. depetalizing. To deprive of petals; remove the petals from. U. S. Dept. Agr., Div. Veg. Pathol., Bulletin 5, p. 40.

dephased (dē-fāzd'), a. [de- + phase + -ed².]

In elect., out of phase.

dephlegmatory (dē-fleg'ma-tē-ri), a. Of or pertaining to the removal of phlegm or watery matter from spirits and acids, or to the dephlegmator or condenser by which this is sonian Rep., 1899, p. 279. effected. denumerable (de-nu'me-ra-bl), a. Same as dephlogisticate, v. t. 2. In med., to reduce

inflammation in.

Dephosphorization process, a method of eliminating the phosphorus and sulphur from fron while converting it into steel. This is done by using magnesian litnestone or dolomite, instead of the silicious ganister employed in the acid process, for lining the converter.

depict, v. t. 3. In math., to represent; map. depiction, n. 2. In math., representation; map-

ping: as, conformal depiction.

depictive (de-pik'tiv), a. [depict + -ive.] Having the quality of depicting or portraying; pictorial: as, the depictive character of Chinese writing.

depicture (de-pik'tūr), n. [depicture, v.] trayal; pictured representation; depiction. depigment (de-pigment), v. t. [de-+ pigment.] To deprive of pigment. [de-+pig-

depigmentation (de-pig-men-ta'shon), n. [de-pigment + -ation.] The loss or removal of pigment; decolorization; more particularly, the loss of pigment by which the white race became differentiated from all others.

Such a climate perhaps directly produced, or, at any rate, favored, variation towards that lymphatism and depignementation that thus came to be characteristic of the race, Jour. Polit. Econ., Dec., 1900, p. 81.

depigmented (de-pig'men-ted), a. [depigment + -ed².] Deprived of pigment. Buck, Med. Handbook, V. 485.
depigmentize (de-pig'men-tiz), v. t.; pret. and pp. depigmentized, ppr. depigmentizing. [de-+ pigment + -ize.] To cause loss of pigmentization in the depigment little product of the produc tation in; decolorize. Lit. Digest, June 17,

1899, p. 699. depilitant (de-pil'i-tant), n. [Irreg. assumed from depilatory, as if from a L. *depilitare. The proper form would be *depilant: see depilate.] In tanning, material used to swell or distend the fibers of a skin, thus loosening the hair-roots and enabling the tanner to remove the hair. C. T. Davis, Manuf. of Leather, p. 161.

deplaster (de-plas'ter), v. t. [de-+ plaster.]

To purify (wines that have been treated with depressor, n. 4. In elect., a device, consisting gypsum) by the removal of the plaster. See olaster, v. t., 5.

deplenish (de-plen'ish), v. t. [de- + plenish.] 1. To empty; deplete: as, to deplenish one's purse.—2. To dispose of the plenishing of; displenish: as, to deplenish one's home.

deploy, v. i. 2. To spread out, as the lewer end of a valley glacier which extends out on a plain. Chamberlin and Salisbury, Geol., I. 241. depolymerization (de-pol"i-mer-i-zā'shon), n. In chem., separation of a more complex molecule into two or more simpler ones which are similar to each other, as the separation of one molecule of trioxymethylene into three of simple formic aldehyde.

simple formic aldehyde.

deposit, n.—Active deposit. See *active.—Concentration deposit, an accumulation of ore formed by the leaching of overlying or adjacent rock, the removal of disseminated matter in solution, and the precipitation of it in an enriched body. Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 241.—Deposit warrant. See *warrant.—Glacial deposit, the materials, such as terminal and ground moraines, brought together by glacial action.—Irregular deposit, in law, one in which money is deposited for safe-keeping. The depositary is not bound to return the money actually received, but only an equal sum.—Phosphatic deposit, a general term for an accumulation of calcium phosphate, such as is extensively worked for the production of fertilizers. Such a mass frequently consists in large measure of more or less altered remains of animals (bones, teeth, fecal matter, etc.), either of comparatively recent origin, as in phosphatic guano, or altogether fossil, as in the bone-breccia of South Carolina, in coprolites, etc.—Quasi deposit, in law, a deposit in which the depositary comes lawfully into the possession of another's goods, but with no inten-

tion of a deposit being made, as when goods are found and the finder is nuder an obligation to return them to

depositee (dē-poz-i-tē'), n. $[deposit + -ee^{1}]$ The person with whom a thing is deposited, as for safe-keeping, or as security, etc.

depositing-machine (de-poz'i-ting-ma-shēn"), n. In candy-making, a machine for casting ereams, gums, or other conserves in starch or other molds, or for depositing liquid candies other molds, or for depositing liquid candies upon paper. It consists of a steam-heated hopper for delivering the conserves liquid, combined with pumps for delivering the material under pressure to the dropping or depositing machinery, which delivers the right amount of liquid into each mold. The starch molds, placed in trays, pass under the machine on a traveling apron, or a paper band travels under the machine on which the liquid candy is delivered in drops. It is often combined with the starch-buck and the starch-printer to form one machine. In cake-making, a similar machine is used for making soft-dough cakes, etc. It consists essentially of a hopper and delivery-rolls for depositing semi-fluid dough in cakes on pans moving upon a conveyer under the machine.

19. In acol., the accumulation

deposition, n. 9. In geol., the accumulation of sediments, or the precipitation of minerals (particularly ores) from solution.—secondary deposition, accumulation by chemical alteration, or replacement, or precipitation within the body of an existing

In theoretical geology he first suggested that secondary eposition might be the genetic condition of the iron ore odies.

Science, March 22, 1901, p. 461. bodies.

depositional (dep-ō-zish'on-al), a. [deposition + -all.] Of or relating to deposition.

Subordinate or local systems of crust-strains . . . are concentrated along old depositional and structural limits. Geog. Jour. (R. G. S.), XVI. 461.

depot, n. 3. Milit.: (d) A place where military prisoners are confined.

depotentiation (de-po-ten-shi-a'shon), n. [L. de- + potentia, power, + -ation.] Deprivation

of power or potency. depot-wagon (de-pō'wag''on), n. Formerly a square-box wagon with a detachable top; now a rockaway with a trap-door at the rear end which can be converted into a baggage-rack.

depressant, n. 2. A therapeutic agent which is employed to reduce mental or physical

strength.

II. a. Causing a lowering of the physical or mental forces.

depressibility (de-pres-i-bil'i-ti), n. Capability of being depressed.

of being depressed.

depression, n.—Barometric depression. (b) A region of low barometric pressure; a region of relatively low pressure; a region of pressure lower than the normal; a storn-center. (c) The difference between the low barometric pressure and the normal pressure for that locality; the departure of the pressure.—Depression of the dewpoint.—Depression range-finder. See *dew-point.—Depression range-finder. See *range-finder.—V-shaped depression, in meteor., an area of low pressure whose isobars run to a point like the letter V, generally formed on the equatorial side of the trough of a cyclone, or the trough between two adjacent anticyclones. The wind accompanying the depression is usually a squall or squally.

depressomotor (de-pres-o-mo'tor), a. and n. I. a. Causing a retardation of motor activity.

of a generator or other source of electromotive force, placed in the return circuit of an electric system and having the function of keeping the potential in that circuit approximately the same as that of the ground. Also called a crusher, A depressor or crusher is essentially of the same nature as a booster, but is applied to the regulation of the return circuit instead of the insulated circuit.—Depressores capitis, in the mnsculature of lepidopterous and other larve, the muscles which arise from the jugular plate or from the prosternma and are attached to the lower border of the occipital foramen; they operate in depressing the head.—Depressores externi, in the musculature of lepidopterous and other larve, the muscles which arise from the jugular plate, or from the prosternum, and are attached to the lower lateral border of the occipital foramen; they operate in depressing the head with a more or less lateral motion.—Depressors substance, a substance, formed in the pituitary body, the action of which is to produce a fall in blood-pressure.

deprint (dē-print'), r. t. [de- + print.] To print off (an artiele) with the same types, but the potential in that circuit approximately the

print off (an article) with the same types, but in a separate form from the miscellany of

which it forms a part; offprint.

deprint (de print), n. An article printed in the same types, but separately from the miscellany of which it forms a part; an offprint; a separate print.

dept. An abbreviation (b) of deputy.

depth, n.—Depth-perception, in psychol., the visual perception of the third dimension.—Molded depth, in ship-building, the interior depth of a vessel from the molded or exterior surface of the framing at the keel to the upper surface of the upper-deck beams. "The depth in one and two-decked vessels is to be taken from the upper part of the keel to the top of the upper deck beam

at the middle of the length, assuming a normal round up of beam of one-quarter of an inch to the foot of breadth. In spar-decked vessels and swning-decked vessels the depth is to be taken from the upper part of the keel to the top of the main deck beam at the middle of the length, with the above normal round up of beam." Lloyd's Rules.

depth-gage (depth'gāj), n. 1. An apparatus for measuring the depth of a hole or recess, or the distance from a plain surface to a projecting point.-2. An attachment to a drill or other boring-tool so adjusted that when the desired depth has been reached a rod rests on the surface of the work and prevents the cutter from entering farther. depula, (dep'n-lä). n. [NL. depula, dim., irreg.

 $\langle \text{Gr. } d\epsilon \pi a \varsigma, \text{ a goblet, a chalice.}]$ In embryol., that stage in the de-velopment of the egg which succeeds the blastula and precedes the formation of the

gastrula. Haeckel. der. An abbreviation (a) of derivation; (b) of derivative; (e) of derived.
deracialize (de-ra/sial- \overline{z}), v. t.; pret. and pp.



Depula of Amphioxus in Optical Section, (Enlarged.) a, archenteron or gastro-ccele; b, entoderm or hypo-blast; c, ectoderm or epi-blast. (From Marshall's "Vertebrate Embryology.")

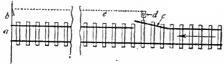
deracialized, ppr. dera-cializing. [de- + racial + -ize.] To break down the characteristic habits or qualities of a race or stock; diminish the relative influence of heredity as compared with that of environment. Patten, Develop. of Eng. Thought, p. 365.

deracination (de-ras-i-nā'shon), n. [deracinate + -ion.] A placking up by the roots; eradication; extirpation.

cation; extripation.

deradenitis (de-rad'e-nī'tis), n. [NL.. ⟨ Gr. δέρη, neek, + ἀδήν, gland, + -itis.] Inflammation of the cervical lymphatic glands.

derail (dē-rāi'), n. [derail, v.] In railroading, a switch which is designed to divert or



Simple Form of Derail at Drawbridge.

a, draw, open position: b, lock on draw, open; c, derail: d, switch-rod, stand, and danger-signal; c, interlocking connection between draw-lock and derail, so that draw cannot be opened without opening derail and displaying danger-signal. Arrow shows direction of approach to derail.

throw a train or ear from the track or to stop throw a train or ear from the track of to stop its further progress. Derails are placed on sidings to prevent a car from being moved from the siding to the line when the switch is closed; they are also used at draw-bridges snd at crossings. Any emergency obstruction on a track may serve as a derail. Derails on sidings are placed beyond the clearance-point of a switch.

derailer (dē-rā'ler), n. A derailing switch. See *derail, n.

deranencephalia (der-an"en-se-fā'li-ā), [NL., ζ Gr. δέρη, neck, + ἀν- priv. + ἐγκέφαλος, brain.] The condition of being a monster with a rudimentary brain lying upon one of the upper cervical vertebræ; also, a monster exhibiting complete or nearly complete absence of the brain and tho beginning of the spinal cord.

deranencephalus (der an-en-sef a-lus), n.; pl. deranencephali (-li). [NL.] A monster characterized by deranencephalia.

derangement, n.— Hey's internal derangement, a form of partial dislocation of the knee attended by severe pain and spasmodic contraction of the nuscies.—

Problem of derangements. See *problem.

Problem of derangements. See *problem.

derashah (de-rä'shä), n. [Heb., < dārash, seek, interpret, study.] A sermon or expesition of a scriptural or Talmudic theme in the synagogue on Sabbath or festival mornings. One who delivers the discourse is called darshan, that is, a preacher.

derive, v. t.—Derived circuit, curve, function, *group. See *circuit, *curve*, function, *group. See *circuit, *curve*,

and pp. derationalized, ppr. derationalizing.

[de-+rationalize.] To deprive of the power of reason or of reasoning: convert from a rational into an irrational being.

To call upon men to worship gravitation, and sing hallelnjahs to the whirlwind, is to call upon them to derationalize themselves.

C. Hodge, Systematic Theol., 1. 279.

derbio (der'bi-ō), n. [Sp. derbion, also derbiso; origin uncertain.] A carangoid fish, Lichia glauca, found in the Mediterranean. derbylite (der'bi-lit), n. [Named for Dr. O. A.

Derby, director of the geological survey of Brazil.] A ferrous antimoniate and titanate occurring in slender black prismatic crystals: found near Onro Preto, Minas Geraes, Brazil.

Dercum's disease. Same as *adiposis dolorosa.

derecho, n. 2. A strong wind or squall blowing straight ferward, without any apparent eyelonic rotation. G. Hinriehs, in Mo. Rev.,

Iowa Weather Service, 1885, derencephalia (der en-se-fā'li-ā), n. [NL., ζ Gr. δέρη, neck, + ἐγκέφαλος, brain.] Same as \star deranencephalia.

derencephalus (der-en-sef'a-lus), n.; pl. der-encephalis (der-en-sef'a-lus), n.; pl. der-encephali (-li). Same as *deranencephalis.

Derepodichthyidæ (der'e-pod-ik-thi'i-de), n. pl. [NI., < Derepodichthys + -idæ.] A family of small blenny-like fishes found in the deep water of Parish Columbia. waters off British Columbia. They are characterized by the absence of scales and spines, the small size of the gill-openings, and the attachment of the slender ventrals below the eye.

Derepodichthys (der "e - po - dik' this), n.

Derepodichthys (der "e-po-dik'this), n. [NL., irreg. \langle Gr. δερη, neck, + ποίς (ποδ-), foot, + iλθίς, fish.] A genus of blenny-like fishes, of which the single known specimen was dredged by the "Albatross" off Queen Charlotte Island, British Columbia: the species is D. alepidotus.

Derichthyidæ (der-ik-thī'i-dē), n. pl. [NL., \langle Derichthys + -idæ.] A family of eels found in the deep waters of the Gulf Stream. They are characterized by the development of the bones of the jaws and by the slender neck to which the snake-like head is attached. The single species is Derichthys serpentinus.



Perichthys serpentinus. (From Bull. 47, U. S. Nat. Museum,)

Derichthys (de-rik'this), n. [NL., $\langle Gr. \delta \epsilon \rho \eta$, neck, $+i\chi\theta ic$, fish.] A genns of eels, constituting the family *Derichthyidæ*, found in the depths of the Gulf Stream.

de rigueur (de re-ger'). [F., 'of rigor' or strictness.] Strictly required, as by etiquelte, usage, rule, etc.; essential; imperative: as, full dress is de riqueur.

derivant, ". 2. One who or that which is derived from another.

He sees quite clearly that neither the hide-bound empiricism of the traditional English school, nor the vaulting a priori dialectic of Hegel and his English-speaking derivants, suffice to philosophical salvation at present.

Pop. Sci. Mo., March, 1901, p. 552.

3. In med., same as derivative, n., 1.

II. a. 1. Deriving; derivative.—2. Iu

med., same as derivative, a., 3. derivative. I. a. 4. In geol., derived from some other source; not native to the rock in which it is now found.

The shells which they occasionally contain are probably. In most cases, derivative—they do not occupy the positions in which the molluses themselves lived.

J. Getkie, The Great Ice Age, p. 371.

Derivative rocks, in geol., rock strata which have been formed mechanically by the abrasion of preëxisting rocks; generally speaking, the sedimentary rocks.

II. n.—First, second, third, etc., derivative, in math, the derivative obtained by performing the operation of derivation upon the original function, upon its first, second, etc., derivative respectively.—Partial derivative. If x and y are independent in z = f(x, y), the derivative of z with respect to x when x varies and y remains constant is called the partial derivative of z with respect to x, and is denoted by the symbol $\frac{\delta z}{\delta x}$.—Total

derivative, a derivative obtained when all the variables of the function vary.

dermalaxia (der-ma-lak'si-ä), n. [NL., for *dermomalaxia or *dermatomalaxia, < Gr. δέρμα, skin, + μάλαξις, softening.] Softening of the skin.

dermale (dér-mā'lē), n.; pl. dermalia (-li-ä). [NL., neut. of dermalis, dermal: see dermal.] In sponges, one of the spicules which support the derinal or bounding membrane of the sponge. Sedgwick, Text-book of Zeöl., I. 92. sponge. Scagueta, 1 extended of 2001., 1. 32.

Dermanyssus (dér-ma-nis'us), n. [NL. (De Geer, 1778), irreg. ⟨ Gr. δέρμα, skin, + νύσσευ, pierce.] A genus of mites. D. galtinæ is the chicken- or fowl-tick. It is not a true tick, but a mite belonging to the family Gamasids, and is one of the most persistent and injurious pests of the hennery. It also attacks man, horses, cattle, dogs, cats, and rabbits.

dermarticulare (der-mar-tik-ŭ-la'rē), n.; dermarticularia (-ri-ā). [NL., ζ Gr. δέρμα, skin, + NL. articulare, a bony element of the lower jaw: see articular.] A bony element lying on the posterointernal face of each ramus of the lower jaw of some reptiles. It may fuse with the articulare or remain distinct as in turtles. Also dermarticular.

For this dermal element, which in some reptiles is distinct throughout life, I have adopted the term dermarticulare. J. S. Kingsley, in Amer. Nat., Feb., 1905, p. 61.

ulare. J. S. Kingsley, in Amer. Nat., Feb., 1905, p. 61.

dermatitis, n.—Biastomycetic dermatitis. See
★biastomycetic.—Dermatitis calorica, inflammation of
the skin caused by heat (or by cold).—Dermatitis congelationis, frost-bite.—Dermatitis exfoliativa, any
inflammation of the skin which is attended with an abundant desquamation.—Dermatitis herpetiformis, a
grave chronic skin-disease with lesions of most varied
character, marked by buming sensations and itching.
Also called Dubring's disease.—Dermatitis medicamentosa, an inflammatory reduces of the skin due to
the action of certain drugs, such as quinine, in susceptible
persons.—Dermatitis venenata, an inflammation of
the skin caused by some poison or irritant, such as poisonivy.—Epidemic exfoliative dermatitis, an epidemic
skin-disease marked by an eruption of confluent reddish
patches followed by an abundant desquamation.—Malignant papillary dermatitis, a parasitic disease of the
skin surrounding the nipple, the tendency of which is to
become cancerous. Also called Paget's disease,—Röntgen-light or Röntgen-ray dermatitis, a severe inflammation of the skin caused by exposure to the Röntgen
rays. Also called X-ray dermatitits, X-ray dermatit
tls. Same as Röntgen-light *dermatitis.

Dermatobia (der-ma-tō' bi-ā), n. [NL., < Gr.

Dermatobia (der-ma-tō'bi-ā), n. [NL., \langle Gr. δ ερμα $(\tau$ -), skin, + β ιος, life.] An important genus of Œstrid flies, containing one or more species (as D. noxialis) which attack human beings in tropical regions. The eggs are laid on the skin, the larva living in the connective tissue under the epidermis.

dermatocellulitis (der ma-tō-sel-ū-lī'tis), n. [NL., \langle Gr. $\delta \epsilon \rho \mu a(\tau -)$, skin, + NL. cellulitis.] Inflammation of the skin and underlying cellular tissue.

dermatocyst (der'ma-tō-sist), n. [Gr. δέρμα(τ-), skin, + κύστ α , bladder (eyst).] A eystic tumor of the skin.

dermatodynia (der"ma-tō-din'i-ii), n. [NL., δέρμα(τ-), skin, + οδέτη, pain.] Same as dermalgia.

dermatograph (der'ma-tō-graf), n. [Gr. δέρ- $\mu a(\tau)$ -, skin, + $\gamma \rho \acute{a} \phi \epsilon i v$, write.] A device for marking upon the skin.

dermatographia (der "ma-tō-graf'i-ä), n. [NL. $\langle Gr, \delta i \rho \mu a, skin, + \gamma \rho a \phi \epsilon v \rangle$, write.] An irritable condition of the skin in which a raised line follows the drawing of a hard-pointed instrument across it.

dermatographism (dèr-ma-tog'ra-fizm), n. Same as *dermatographia.

dermatol (der'ma-tol), n. [Gr. $\delta \epsilon \rho \mu a(\tau-)$, skin, +-ol.] A trade-name for *bismnthum anbgallicum (which see).

Dermatolepis (der-ma-tol'e-pis), n. [NL., \langle Gr. $\delta\ell\rho\mu\alpha(\tau^{-})$, skin, + $\lambda\epsilon\pii\epsilon$, scale.] A genus of large bass-like fishes found on both coasts of tropical America, characterized by the smooth embedded scales. The species are D. inermis of the West Indies, and D. punctatus of the west coast of Mexico.

dermatome (der'ma-tōm), n. [Gr. δέρμα, skin, + -τομος, < ταμεῖν, cut.] A knife with a very fine blade, used for removing certain skinblemishes.

dermatomere (der'ma-tō-mēr), n. [Gr. $\delta\ell\rho$ - $\mu a(\tau$ -), skin, + $\mu\acute{e}po\varsigma$, part.] In embryol., one of the cleavage-cells or blastomeres which give rise to the integnment or skin.

dermatomyositis (der"ma-tō-mī-ō-sī'tis), n. [NL., $\langle \operatorname{Gr.} \delta i \rho \mu a(\tau) \rangle$, skin, + (irreg.) $\mu v \delta \varsigma$, gen. of $\mu \bar{v} \varsigma$, muscle, + -itis. The right form would be *dermatomyitis.] Inflammation of the skin and underlying muscular lissue.

dermatoneurosis (der ma-to-nū-rō'sis), n. [NL., ζ Gr. δέρμα, skin, + νεἴνρον, nerve, + -osis.] An affection of the skin due to a morbid state of the nervous system.

dermatopathia (der ma-tō-path'i-ä), n. [NL., $\langle \text{ Gr. } \delta \epsilon \rho \mu a, \text{ skin, } + -\pi a \theta \epsilon \iota a, \langle \pi \delta \theta \delta c, \text{ disease.} \rangle$ Same as dermatosis, 2.

dermatopathic (der ma-to-path'ik), a. Of or pertaining to disease of the skin.

dermatopathology (dér"ma-tō-pā-thol'ō-ji), n. [Gr. $\delta \epsilon \rho \mu a(\tau_{-})$, skin, + E. pathology.] Pathology of the skin.

dermatopathy (der-ma-top'a-thi), n. [NL. dermatopathia.] Same as dermatosis, 2.

dermatoplasm (der ma-tō-plazm), n. [Gr. δερμα(τ-), skin, + πλάσμα, anything formed.] The living protoplasm that is said to form an essential part of the cell-membrane in plants.

dermatoplasty (der'ma-tō-plas"ti), n. [Gr. δέρμα(τ-), skin, + πλαστός, < πλάσσεν, form.] Restoration of lost skin by grafting or sliding the integument from another part.

dermatopteran (der-ma-top'te-ran), a, and n. I. a. Of or belonging to the Dermatoptera.

II. n. A member of the Dermatoptera.

dermatopterous (dér-ma-top'te-rus), a. longing to or resembling the Dermatoptera.

dermatoptic (der-ma-top'tik), α . [Gr. $\delta \epsilon \rho \mu a(\tau -)$, skin, $+\delta\pi\tau\iota\kappa\delta\varsigma$, of sight: see optic.] Relating to or having the faculty of perceiving varia-tions of light by means of the skin alone, in the absence of definite organs of vision: as, dermatoptic perception in certain collenterates, mollusks, and other invertebrates. Also der-

dermatosopic (der ma-tō-skop'ik), a. [Gr. $\delta \dot{\epsilon} \rho \mu a(\tau)$, skin, $+ \sigma \kappa \sigma \pi \dot{\epsilon} \dot{\nu}$, view, + -ic.] Same as $\star dermatoptic$. Geog. Jour. (R. G. S.), XII.

452.

dermatosome (der'ma-tō-sōm), n. [Gr. $\delta\epsilon\rho$ - $\mu a(\tau$ -), skin, + $\sigma\bar{\omega}\mu a$, body.] In bot., one of the granular bodies which occur in rows, united and surrounded by protoplasm, forming the cell-wall. Wiesner.

Dermatostethus (der ma-tő-stē' thus), n. [NL., \langle Gr. $\delta\epsilon\rho\mu\alpha(\tau)$. skin, $+\sigma\tau\bar{\gamma}\partial\alpha_{c}$, breast.] A genus of pipe-fishes of the family Syngna-thide, found in the Gult of California.

dermatosyphilis (dėr/ma-to-sif'i-lis), n. [NL., $\langle \text{Gr. } \delta i \rho \mu a(\tau -), \text{ skin, } + \text{ E. } syphilis.]$ Syphilitic lesions of the skin.

dermatotherapy (der "ma - tō - ther 'a - pi), n. [Gr. $\delta \epsilon \rho \mu a(\tau -)$, skin. + $\theta \epsilon \rho a \pi \epsilon \iota a$, treatment, cure.] Treatment of the skin and its diseases. dermatotyloma (der″ma-tō-ti-lō'mä), n.; pl. dermatotylomata (-ma-tä). [Gr. δέρμα(τ-), skin, + τίλωμα, a callus.] Å callus.

dermatotylosis (der″ma-tō-ti-lō'sis), n. [Nl., ζ Gr. δέρμα(τ-), skiu, + τίλωσις, a making or becoming callous.] Same as *dermatotyloma.

Dermatozoa (der ma-tō-zō'ä), n. pl. [NL., Gr. δέρμα(τ-), skin, + ζφον, animal.] Animals that are parasitic on or in the skin: a general term, of no value in classification.

dermatozoan (der "ma-tō-zō'an), a. and n.
I. a. Relating to or characteristic of the Dermatocoa.

II. n. One of the Dermatozoa, or any animal that is a skin-parasite.

dermatozoönosis (der/ma-tō-zō-ō-nō'sis), [NL., $\langle \text{Gr. } \delta \ell \rho \mu a(\tau), \text{skin}, + \zeta \bar{\varphi} \rho \nu, \text{animal}, + -osis.]$ Any disease of the skin produced by animal parasites living on or in the skin, as psoriasis, acariasis, dracunculosis, ground-

dermatrophia (der-ma-tro'fi-ä), n. Gr. $\delta \epsilon \rho \mu a(\tau)$, skin, + $\tau \rho o \phi \eta$, nourishment.] Atrophy of the skin.

dermatrophy (der-mat'ro-fi), n. Same as

dermepenthesis (der-me-pen'the-sis), n. [NL.,

of the mesoderm which gives rise to the derma, or true skin.

dermochrome (der'mō-krōm), n. [Gr. δέρμα, skir., + χρῶμα, color.] A colored illustration of the skin in health or disease. Lanect, May 9, 1903, p. 1308.

3, 1903, β. 1305.
 dermographism (der-mog'ra-fizm), n. [Gr. δέρμα, skin, + γράφειν, write, + -ism.] Same as *dermatographia.
 dermoid, a. II. n. A dermoid cyst.

dermold, a. 11. a. A dermold cyst.
dermol (der'mōl), n. [Gr. δέρμα, skin. + -ol.]
A trade-name for bismuth chrysophanate.

dermophlebitis (der "mō-flē-bī'tis"), u. [NL., < Gr. δέρ μa , skin, + φλέψ (φ' $\epsilon \beta$ -), vein, + -itis.] Inflammation of the superficial veins.

 \star dermatoplasty

dermosynovitis (der "mō-sin-ō-vī'tis), n. [Gr. $\delta \epsilon \rho \mu a$, skin, + Nl. synovia + -itis.] Inflammation preceding and accompanying perforating ulcer (which see, under perforating). dermosyphilis (der-mō-sif'i-lis), n. Same as

 \star dermatosyphilis.

dermotrich (der'mō-trik), n. [Gr. δέρμα, skin, Hθρίξ (τριχ-), hair.] A mesoblastic dermal fin-ray of fishes. E. S. Goodrich, Quart. Jour. Micros. Sci., March, 1904, p. 512.
 dermotrichium (der-mō-trik'i-um), n.; pl. dermotrichio (-a). Same as *dermotrich. Nature, March. 12.

May 5, 1904, p. 13.

dernier, a. II. In roulette, a bet that one of the numbers from 25 to 36, inclusive, will win.

derodidymus (der-φ-did'i-mus), n.; pl. derodidymi (-mi). [Gr. δέρη, neek, + δίδνμος, twin.] A doùble-headed monster.

derotremate (der-ō-trē'māt), a. Same as dero-

treme and devotrematous.

derrick, n. 2. The overhead framework used in drilling the holes for oil-wells, and which remains in place after the boring is completed **descensionist** (de-sen'shon-ist), n. [descenand the drilling machinery is removed.—Gin-sion + -ist.] One who holds some theory inmains in place after the boring is completed and the drilling machinery is removed.— Ginderrick. Same as gin4, 2 (c).— Guy-derrick, a derrick in which the upright post is stayed by three or more guyropes which extend to the ground on opposite sides and are there anchored to hold the derrick in position. Where, as in a quarry, several derricks are placed in reach of one another, horizontal guy-ropes may be used to join the tops of all the posts together and furnish a support against side strains, reducing the number of guy-ropes and giving more freedom to the booms of the detricks. Large floating derricks on tow-hoats or scows sometimes use two booms on opposite sides of one large post having gny-ropes or staying-shrouds at the sides between the hooms. In such derricks the post is fixed and the booms have only a limited swing to the right or left of the point of support.—Hauling derrick, a simple crab or windlass on a frame, which can be anchored where desired.—Stiffleg derrick, a derrick in which two stiff rods of wood or iron take the place of guy-ropes. The legs are placed as close together as possible to give free room for the sluing of the boom, the usual position being one quarter of the whole circle in which the boom might turn if it were a guy-derrick. In large derricks the post and hoom are supported upon a *slaing-gear (which see).

derrick-crab (der'ik-krab), n. The hoistinggear and its frame at the foot of any hoistingapparatus such as a crane or derrick, consisting of a drum on which the hoisting-rope may be wound, and the necessary reducinggears and pinions.

derrick-elevator (der'ik-el"-e-va-tor), n. See

derricking (der'ik-ing), a. Of or pertaining or proper to the jib or boom of a crane or deror proper to the jib or boom of a crane of derrick or its inclination with regard to the post.

—Derricking motion (of a crane), the radial motion of the jib when its inclination with regard to the post is altered in order to place a suspended weight nearer to or farther from the post, as distinguished from the lifting motion itself, or from a sluing or circular motion round the axis of the post.

derrid (der'id) = [NII. Derric (Derrid)] = A

derrid (der'id), n. [NL. Derris (Derrid-).] tarry substance obtained from the bark of the root of Derris (Pongamia) elliptica, the active principle of a decoction used in Java for killing fish. One part of this substance in 5,000,000 parts of water is said to act instantly on large fish. Jour. Soc. Chem. Industry, X. 268. derth, n. and r. A simplified spelling of dearth.

deruinate (dē-rö'i-nāt), a. [de- + ruinate.]

Ruined; in a state of ruin. dermepenthesis (der-me-pen'the-sis), n. [NL, ⟨ Gr. δέρμα, skin, + ἐπένθεσις, insertion: see epenthesis.] Skin-grafting.

dermitis (der-mī'tis), n. [NL, ⟨ Gr. δέρμα, skin, + ἐλαστός, germ.] In embryol., that portion

f the most derm which gives rice to the leaves

of the most derm which gives rice to the leaves

stin.

| Numed; in a state of ruin.

| Derwenter (der'wen-tèr), n. In Australia, a released convict, especially one from Hobart

Town, Tasmania, where there was a convict settlement on the banks of the river Derwent: hence the name.

| Desarguesian (dā-sār-gē'si-an), α. See ★Argue-sin. settlement on the banks of the river Derwent: deserv, v. A simplified spelling of deserve.

desaxonize (dē-sak'sn-īz), v. t.; pret. and pp. desaxonized, ppr. desaxonizing. [de- + Saxon + -ize.] To divest of distinctively Saxon qualities and teudencies.

That sometimes almost gives me to believe I might have been a poet, gives at least A brain desaxonized i

Lowell, Cathedral.

descamisado (des-kä-mē-sä'dō), n. [Sp., lit. 'shirtless,' < des- (< L. dis-) priv. + eanisado, < camisa, shirt.] In Sp. hist., an extreme liberal and revolutionist in the turbulent period after 1820.

Descartes's formula. See *formula.

dermatophone (dêr'ma-tộ-tôn), n. [Gr. $\delta \epsilon \rho$ - dermophyte (dêr'mộ-fīt), n. Same as dermato- descend, v. i. 7. In phys., to pass from higher to lower readings or values upon any scale: lindrical stethoscope devised for dermatoph- dermoplasty (dêr'mộ-plas-ti), n. Same as said specifically of the musical scale and of the thermometric scale.

dermatophony (der ma-tof δ-ni), n. [Gr. dermostosis (der-mos-tō sis), n. [NL., prop. descendancy, descendency (de-sen dan-si, δερμα(τ-), skin, + φωνή, sound, + -y³.] Auscultation of the sounds of the blood-stream in the vessels of the skin.

The presence of a bone-like structure in the skin.

The presence of a bone-like structure in the skin.

The presence of a bone-like structure in the skin.

The presence of a bone-like structure in the skin.

The presence of a bone-like structure in the skin.

The presence of a bone-like structure in the skin.

The presence of a bone-like structure in the skin.

descendant, n. 3. In geol., a topographic feature carved from the mass beneath an older tepographic form which has been removed.

descendental (de-sen-den'tal), a. [descendent + -all.] Relating to inherited nature and ordinary conditions: humorously distinguished from transcendental.

Square, lover of Plato and Molly Seagrim, with his brain full of transcendental morality, and his heart full of descendental appetites. Whipple, Essays and Rev., 11. 342.

descensional, a. [descension + -all.] 2. Specifically, in geol., noting the disaggregation of the antecedent rock, the separation of unlike particles, and their final aggregation in beds; noting the breaking down of complex silicates, the solution of certain original components and a gathering of the modified and assorted product into stratified deposits.

Running hand in hand with this descensional process, there has always been a reascensional process by which the coherence, the crystallization, and in some measure the complex composition of the rocks are restored. Chambertin and Salisbury, Geol., I. 412.

volving descending movement or action. the extract.

Three theories are maintained as to the course of the [subterranean] waters which deposit ores. Some hold that the waters doing the work are descending; others that they are laterally-moving; others that they are ascending. . . But if we are descensionists . . . we may say that the waters which are doing the work are descending.

Science, Nov. 15, 1901, p. 756.

description, n.- The world of description. See

the world of *appreciation.

descriptive, a. 2. In geom.: (a) Pertaining to the projective methods of Monge. (b) Not containing the idea of quantity or measure-

Projective Geometry on the other hand dealing with projective properties (i.e. such as are not altered by projection), is chiefly concerned with descriptive properties

of figures.

C. Leudesdorf, tr. of Cremona, Projective Geom., p. 50. desectionalize (de-sek'shon-al-īz), v. t.; pret. and pp. desectionalized, ppr. desectionalizing. [de- + sectional + -ize.] To free from sectionalism in any sense or in any connection; widen in scope or spirit by the removal of whatever limits or divides; convert into one broad whole.

This tendency to merging unification and desection-alizing is steadily pervading every human interest. Elect. World and Engin., Jan. 2, 1904, p. 7.

desert¹, n. Specifically—(b) In phytogeog., one of the three principal types of Schimper's climatic formations, the result of excessive drought or cold. In desert all surviving vegetation is stunded and the difference because of the state of the stat tween woodland and grass-land (the other two tween woodland and grass-land (the other two grand types) is obliterated.—Desertact. Same as Carey *act.—Desert devil. Same as *devil, 15.—Desert polish, a smooth and shining surface imparted to rocks or other hard substances by the wind-blown sand and dust of desert regions. Geikie, Text-book of Geol., p. 436.—Desert sandstone, in geol., the later Cretaceous formations of Australia.—Desert varnish, in petrog., a hardened film of iron oxid or quartz on rocks and stones polished by wind-blown sand, found in deserts. Gilbert. See *case-hardening, 2, and *desert polish. desertion, n. 5. In bot. Same as lipoxeny. desert-rod (dez'ért-rod), n. Anvone of several

desert-rod (dez'ert-rod), n. Any one of several species of herbs belonging to the genus Eremostachys of the mint family, natives of western and central Asia.

desexualize (de-sek'sū-al-īz), v. t.; pret. and pp. desexualized, ppr. desexualizing. [de- + sexual +-ize.] To deprive of sex or sexual characters; eastrate.

desiccate, v. t.—Desiceating tube, a glass apparatus which permits air or gas to pass to and from an inclosed space through sulphuric acid or other desiceating material.

desiderant (de-sid'e-rant), n. and a.

[L. desiderans (-anl-), ppr. of desiderare, desire: see desire.]

I. n. One who desires the increase of the sides of the sires a thing.

II. a. Desiring; of the nature of

When we ask what we know the soul to be, we can only answer: A sentient desire, or desiderant feeling, which, through its own effort after satisfaction, gradually differentiates itself into a world.

Thomas Davidson, Rousseau, p. 243.

All Conservatives . . . regard the memory of Lord Beaconsfield with a desiderium which has not been exhibited towards that of any English political leader. Sat. Rev., April 21, 1883, p. 485.

desight (dē-sīt'), n. [de- + sight.] A disfigurement; an eyesore. N. E. D.

She had a box, . . . composed of three diamonds, three emeralds, three pearls, and one largerough pebble, which was such a *desight* to the others, that she carried the box was such a designe to the smith.

Miss Yonge, Cameos Eng. Hist., ser. 2, vi. 68.

design, n. 9. Specifically, in music, either the melodie pattern, the harmonie process, or the rhythmie and metrie form adopted in composition, by which a particular work or a class of works is made coherent and characteristic. the evolution of artistic music the principles of design have been but slowly perceived and

design have been but slowly perceived and established.—Arts of design. See *kart2.

Designate individual, in lopic, an individual object, known to exist (distinctions of time not being regarded) and so denoted as to exclude every other individual, that is, called by its well-known proper name (or a description, which amounts to a proper name in logic, since it is assumed to be applicable to notbing else): opposed to an indesignate or vague individual. Thus, Othello is a designate individual existing in the world of Shakspere's tragedy; so is 'earth's satellite' if the phrase is spoken by a person who knows, and to a person who knows, that there is but one; and so is 'quality' in a list of categories.

*Assigningly (de-zi'- or de-si'ning-li), adv. In-

designingly (dē-zī'- or dē-sī'ning-li), adv. Intentionally; with erafty or evil design; for selfish ends.

design-paper (dē-zīn'pā-pèr), n. A drawing-paper printed in cross-lines and used in designing patterns for textile fabrics, and particularly in laying out the patterns to be

particularly in laying out the patterns to be transferred to the cards of a Jacquard loom. desilicate (de-sil'i-kāt), v. t.; pret. and pp. desilicated, ppr. desilicating. (de- + silica + -ate².) In chem., to remove silica from a sub-

stance which contains it, as, a rock. desilication (dē-sil-i-kā'shon), n. T The act of

desilicating or the state of being desilicated. desinential (des-i-nen'shal), a. [NL., *desinentia, desinence, + -al^T.] Of or pertaining to a desinence; terminational; terminal; desinent: as, the desinential -it for -ed in dialectal English. English.

desipiency (dē-sip'i-en-si), n. Same as desipi-

desk-book (desk'bûk), n. A book of reference for desk use; a hand-book for ready reference, as in matters of spelling or the like.

desma, n. 2. A ligament; formerly, a bandage. desmactinic (des-mak-tin'ik), n. [Gr. δέσμα, band, + ακτίς (ἀκτιν-), ray.] Of sea-urehins, having the podia continued upward to the apical plates; opposed to *lysactinic (which see).

Desmarestia (dez-ma-res'ti-ä), n. [NL. (Lamouroux, 1813), named for A. G. Desmarest, a French naturalist.] A common genus of the *Phæophyceæ*, or brown algæ, occurring having given up smoking. Life of Longfellow, 1. 336. along the New England coast and in southern désœuvrement (dā-zev-re-moń'), n. [F.] A

waters. desmergate (des mer-gat), n. [Gr. δεσμός, band, + εργάτης, a worker.] A worker ant which is intermediate in structure between the soldier or worker major, and the true worker or worker minor of the same species.

desmic (dez'mik), a. Resembling or pertain-

ing to a desma.

desmodynia (des-mō-din'i-ä), n. [NL., ζ Gr. Exper. Phoneties, p. 203. δεσμός, a band, + δδίνη, pain.] Pain in the desophistication (dē-sō-fis-ti-kā'shon), n. The ligaments.

desmogen (des'mō-jen), n. [Gr. δεσμός, band, + -γενης, -producing.] In bot., the embryonia tissue of plants.—Primary desmogen. Same as procambium.—Secondary desmogen, tissue formed from the cambium and subsequently transformed into permanent vascular strands.

desmogen (des'mō-jen), n. [Gr. δεσμός, band, population.

De Soto group. See *group1.

desoxyalizarin (des-ok*si-a-liz'a-rin), n. Same as *anthrarobin.

desoxycholalic (des-ok*si-ko-lal'ik), a. [des-ok*si-correctly (des-ok*si-ko-lal'ik)]. Noting an

desmogenous (des-moj'e-nus), a. [Gr. δεσμός, a band, + -γενής, -produced.] Of ligamentous

origin or eausation.

desmohemoblast (des-mō-hē'mō-blast), n. [Gr. δεσμός, band, + αίμα, blood, + βλαστός, germ.]
Same as mesenchyme. Also desmohæmoblast.

Des Moines beds. See * $\frac{bed1}{n}$. (-ma-tä). [Nl., \langle Gr. $\frac{\delta\varepsilon\sigma\mu\omega\mu_0}{n}$, a fetter, \langle $\frac{\delta\varepsilon\sigma\mu\omega\nu_0}{n}$, bind, fetter, \langle $\frac{\delta\varepsilon\sigma\mu\omega\nu_0}{n}$, a band, fetter.] Same as desma, 1.

desmon (des'mon), n. [NL., ζ Gr. δεσμός, a band, bond, chain.] Same as *amboceptor.

desmorrhexis (des-mō-rek'sis), n. [NL., Gr. δεσμός, a band, + ρ̄τ̄ξ'ις, a breaking, ρηγνίναι, break.] Rupture of a ligament. desmosis (des-mō'sis), n. [Nh., (Gr. δεσμός. a band, + -osis.] A disease of the connective

desmosite (des'mō-sīt), n. [Irreg. < Gr. δεσμός, a band, + -ite2.] In petrog., a banded compact rock developed from shales and slates by contaet-metamorphism induced by intrusions of diabase. Zincken, 1841.

Desmothoraca (des mō-thō-rā'kā), n. μl. [NL., ⟨ Gr. δεσμός, a band, + θώραξ (θώρακ-), breast-plate.] An order of Heliozoa having a stalked or unstalked shell perforated by numerous pores. It includes Clathrulina and Orbuli-

desmotropic (des-mō-trop'ik), α. [Gr. δεσμός,

as bond, + τρόπος, a turning, + -ie.] Pertaining to or characterized by desmotropism.

Nature, June 26, 1902, p. 214.

desmotropism (des-mot'rō-pizm), n. [Gr. δεσμός, a bond, + τρόπος, turning, + -ism.]

Iu chem., a term proposed by Victor Meyer and Lacobson as a substitute for tautomeriem. and Jacobsen, as a substitute for tautomerism, to signify an easily experienced shifting of tho atoms in a molecule from one order of attachment to another, so that each of two isomeric substances readily changes into the other.

desmotroposantonin (des "mō-trop-ō-san'tōnin), n. [desmotrop-ie + santonin.] less dextrorotatory alkaloid, HC: C(CH₃)CCH₂CH. O.CO A color-

isomeric HOC: C(CH₃)CCH₂C II CH(CH₃)

with santonin, from which it is prepared by the action of concentrated hydrochloric acid. It crystallizes in small needles, melting at

desmotroposantonous (des/mo-trop-o-san'tonus), a. Derived from desmotroposantonin.

—Desmotroposantonous acid, a colorless, levorotatory, crystalline compound, Hot₁₀H₂(CH₂₀)2CH(CH₂₀) COOH, (31:44), prepared by the reduction of desmotroposantonin. It is isomeric with santonous acid and melts at

desmotropy (des-mot'rō-pi), n. Same as *desmotropism.

désobligeant (dā-zō-blē-zhoń'), u. [F., lit. 'disobliging': eompare sulky, u.] A small chaise with accommodations for only one person: hence the name.

An old Desobligeant, in the farthest corner of the court, hit my fancy at first sight; so I instantly got into it.

Sterne, Sentimental Jour., p. 10.

desocialize (dē-sō'shal-īz), r. t.; pret. and pp. desocialized, ppr. desocializing. [de- + social + -ize.] To break down social instincts, habits, and relations; render non-social. Gid-

dings, Inductive Sociel., p. 262.

désœuvré (dā-zè-vrā'), a. [F., \langle dés-priv. +

æurre, work, \langle L. opera, work.] Unemployed;
unoceupied; idle.

Drowsy, dull, désœueré, not having a book in press, and aving given up smoking.

Life of Longfellow, 1. 336.

being unemployed; lack of occupation or work.

I have nothing to write you, and therefore, write for the pleasure of it, and from mere désœuvrement. Life of Longfellow, 11. 143.

desonation (dē-sō-nā'shōn), n. [de- + sona- Engin, 1899-1900, p. 466.

"the desonation of final vowels," Scripture, a substance used to combine with the substance used to combine with the desonation of the substance used to combine with the substance used to co desonation (dē-sō-nā'shön), n. [de- + sona-

desoxycholalic (des-ok"si-ko-lal'ik), a. [des-det, n. 2. A recent simplified spelling of debt. for dis- + ary(gen) + cholalic.] Noting an det. An abbreviation of the Latin detur, 'let acid, a reduction-product of cholalic acid, C24H40O4

desoxycholic (des-ok-si-kol'ik), a. [des- for dis-+axy(gen) + cholic.] Derived from eholic acid by loss of oxygen.—**Desoxycholic acid**, a crystalline acid, $C_{24}II_{40}O_4 + 1\frac{1}{2}II_{2}O$, formed in the putrefaction of ox-gall. It is hitter and melts at 185–190° C.

desoxydation (des-ok-si-dā'shon), n. Same as

desoyt (de-soi'), n. A shortened form of serge-dusoy. A. M. Earle, Costume of Colonial Times, p. 98.

desiderium (dē-si-dē'ri-um), n.; pl. de- desmopathy (des-mop'a-thi), n. [Gr. δεσμός, a despatcher, n. 2. A die with double numbers, sideria (-ā). [L.: see desire.] A longing band, +-παθεια, ζπάθος, disease.] Disease of such as two fives on opposite sides, instead of a deuce opposite the five: so called because it throws higher than the average and despatches

detainer

the game quickly. despecialization (de-spesh gl-i-zā/shon). The act of advancing from a stage of specialization to one of greater generality. Heredity and Social Progress, p. 117.

despecialize (de-spesh'al-īz), v. i.; pret. and pp. despecialized, ppr. despecializing. [de-+specialize] To pass from a specialized to a more generalized condition or stage. Patten, Heredity and Social Progress, p. 61.

despiritualize (de-spir'i-ţū-al-īz), r. t.; pret. and pp. despiritualized, ppr. despiritualizing. [de- + spiritualize.] To deprive of spiritual character, power, or influence; affect with worldliness or materialism: as, to despiritualize Christianity.

despumation, n. 2. The mechanical removal of seum or foam from a liquid by skimming. dessert-spoonful (de-zert'spön"fül), n. f

much as a dessert-spoon will contain; about two drams.

destoor, n. See *dastur.

destrictinic (de-strik-tin'ik), a. [NL. destricta (see def.) + -in + -ic.] Noting an acid, an indigo-blue crystalline compound, extracted from the lichen Cladina destricta.

destroyer, n. 2. Specifically, a torpedo-boat destroyer. See torpedo-boat.

destructional (de-struk'shon-al), a. [destruc-tion + -al¹.] Pertaining to or formed by de-structive agencies or processes; specifically, relating to or resulting from denudation.

The steep cliff is clearly in both cases a destructional surface from which material has fallen away.

Amer. Jour. Sci., Jan., 1904, p. 38.

destructionalist (dē-struk'shon-al-ist), n. [destructional + -ist.] One whose aim is destruction or who is engaged in the devising or use of engines of destruction.

The torpedo (that ever verdant topic of the universal estructionalist). Sci. Amer., lxxix. 322.

Destructive leaf-hopper. See $\star leaf$ -hopper. destructivity (de-struk-tiv'i-ti), n. [destructive + -ity.] The ability to destroy; destructive hess: as, "seismic destructivity ean be accurately expressed in mechanical units," Encyc. Brit., XXVII. 609.

destructor-cell (de-struk'tor-sel), n. A unit or retort in a refuse- or garbage-ineinerating plant. These furnaces are usually in pairs, straddling a common flue, and are maintained at a high temperature to diminish nuisance from odor.

destructuralize (dē-struk'tū-ral-īz), v. t.; pret. and pp. destructuralized, ppr. destructuralizing. [de- + structural + -ize.] To undo or take apart; disorganize. N. E. D.

desubstantiate (de-sub-stan'shi-at), r. t.; pret.

desubstantiate (de-sub-stan'shi-at), r. t.; pret. and pp. desubstantiated, ppr. desubstantiating, [de-+ substantiatiat.] To deprive of substance. Mrs. Humphry Ward. N. E. D. desulphate (de-sul'fāt), v. t.; pret. and pp. desulphated, ppr. desulphating. [de-+ sub-phate.] In ehem., to remove a sulphate or the radical of sulphuric acid from (a substance). Jaur. Brit. Inst. of Elect. Engin., 1899–1900, p. 474

desulphation (de-sul-fa'shon), n. The process

remove sulphur from something else, as scrap-iron used in the reduction of metallic antimony from its sulphid.

desultor (dō-sul'tôr), n.; pl. desultores (-tō'rēz).
[L.: see desultory.] A barebaek rider in the
Roman eirens who rode two or more horses at once, leaping from one to another.

it be given.

detaching-roller (de-tach'ing-ro"ler), n.
On a cotton-combing machine, a steel roller
with an intermittent motion, for detaching a tuft of eotton after it is combed.

Detachment of the retina. See *retina. detail, n. 5. The service on which one is de-

tailed.—Detail paper. See *paper. detainer2, n. (c) In law, the fact of being detained or held in custody: as, a writ of habeas corpus may issue to inquire into the

detainer of a prisoner.

detassel (de-tas'l), v. t. [de- + tassel.] To remove the tassel of growing Indian corn.

See *detasseling.

detasseling (de-tas'l-ing), n. The act or pracuetasseling (ue-tas t-ing), n.—I ne act or practice of removing the tassel (male inflorescence) from growing Indian corn. In breeding for improved stock, weak plants are detasseled to eliminate their pollen, and where cross-fertilization is sought the plants destined to bear the ears are thus treated. Detasseling has been performed experimentally on part of the rows in fields to observe the effect on the yield of grain and forage, with ambiguous results.

rows in fields to observe the effect on the yield of grain and forage, with ambiguous results.

detector, n.—Electrolytic detector, a form of receiving apparatus used in wireless telegraphy. It consists of a small electrolytic cell the space between the terminals of which is bridged by a chain of deposited metallic particles. Electric oscillations break down this bridge and momentarily increase the resistance of the circuit.—Electrothermal detector, in wireless telegraphy, same as thermal *detector.—Magnetic detector, a receiving apparatus used in wireless telegraphy. Its operation depends upon the fact that the sudden changes in the magnetization of the iron core of the receiver, caused by the electric oscillations, are capable of producing sounds in a telephone placed in circuit with a coil about the core.—Mechanical detector, in elect., a device for the detection of electric waves based upon the tendency of a ring of wire, suspended near a resonator carrying electric oscillations, to turn into the position of minimum action. Such detectors were employed by Hertz in his study of the propagation of electric waves in conductors.—Thermal detector, a receiving apparatus, used in wireless telegraphy, the action of which depends upon the heating of a minute wire by the electric oscillations.

detector-bar (dē-tek ter-bār), n. A secondary rail or bar placed beside the rails of a switch

rail or bar placed beside the rails of a switch and intended to prevent its movement while at rain is passing over it. The bar is pivoted to the switch in such a manner that when the switch is to be moved it rises above the level of the top of the switch-rail and then returns to its normal position. In rising it strikes the car-wheels, detects their presence, warns the switchman, and also prevents the movement of the switch until the last wheel of the train has passed. See switch.

detent-lock (de-tent'lok), n. A lock, usually a spring-lock, in which the belt has notches, into which may be slid a detent or catch operated by a knob or pin. One of these notches is so located that when the holt is drawn back and the detent thrown in, the bolt is held back in the lock and does not project or operate to fasten the door. The other notch is opposite the detent when the bolt is thrust out, and then the bolt cannot be withdrawn by the turning of the key ontside, and the door is secure even against pass-keys or the keys belonging to the lock.

1 A and which the detent of catch operation of the detailing (dē-tin'ing), n. The operation of removing the tin from articles plated with tin, as tinware or tin scrap.

1 Setup of goods in frank marriage, in old Eng. thus, a writ which lay in favor of a wife who had obtained a divorce, to recover the property given with her in marriage.

1 A and which

detent-rod (de-tent'rod), n. 1. A rod which carries a catch or detent.—2. A rod which controls the motion of a detent.

détenu (dā-te-nii'), n. [F., prop. pp. of détenir, detain.] One who is detained in custody; prisoner: used especially in reference to English and French priseners of war held by either country during the wars of 1793-1815.

Detrusor uring, the muscular coat of the bladder, especially the longitudinal fibers.

deteriorationist (dē-tē"ri-ō-rā'shon-ist), n. detter, n. A simplified spelling of debtor.

One who holds that deterioration is the predenteragonist (dū-tēr-ag'ō-nist), n. [Gr. vailing tendency or rule of things; a deteriorist.

δεντεραγωνιστής, (δείτερος, second, + ἀγωνιστής, actor: see agonist.] In the Gr. drama, an

deteriorator (de-te'ri-o-ra-tor), n. or that which deteriorates or causes deterioration

deteriorism (de-te'ri-o-rizm), n. [L. deterior, worse, + ism.] The doctrine that the general tendency of all things is to grow worse: opposed to meliorism.

Meliorism and the opposite theory, which we suppose must be called deteriorism. Goldwin Smith. N. E. D.

determinant, n. 4. In biol., in Weismann's doctrine of germ-plasm, the material bearer of all the hereditary qualities of a cell, regarded as composed of as many biephores, or bearers of single hereditary qualities, as are to be possessed by the cell and its descendants.

I shall designate . . . the particles of the germ-plasm determining them [the cells] as the 'determining parts' or 'determinants.' Weismann (trans.), Germ-plasm, p. 57. determining them [the cells] as the 'determining parts' or 'determinants. Weismann (trans.), Germ-plasm, p. 57.

Accessory determinant, according to Weismann, a determinant of the accessory germ-plasm. See *germ-plasm. Doctrine of determinants, in biol., that part of Weismann's doctrine of germ-plasm which regards each cell as represented in the germ-plasm which regards each often used as synonymous with the doctrine of germ-plasm.— Heterodynamous determinant, in Weismann.— Germ-plasm, one of the determinants which are the bearers of the hereditary qualities of cells that are different in the two parents.—Heterologous determinant, in Weismann's doctrine of germ-plasm, one of the determinants which are the bearers of the hereditary qualities of cells that are not homologous in the parents, so that the cells which they control in the developing organism cannot exhibit the qualities of both parents in combination.—Homodynamous determinant, in Weismann's doctrine of germ-plasm, one of the determinants which are the bearers of the hereditary qualities of cells that are alike in the two parents.—Homologous determinant, in Weismann's doctrine of germ-plasm, one of the determinants which are the bearers of the hereditary qualities of homologous cells in both parents, so that the cells which they control in the developing organism may exhibit the qualities of both parents, so that the cells which they control in the developing organism may exhibit the qualities of both parents, in combination—Leading term of a determinant, in math., the product of the elements (constituents) in the principal diagonal.—Supplementary determinant, according to Weismann, one of the determinants to which the identity between the constituent cells of a lost part of the body of an organism and the part that is regenerated in its place is due.—Term of cens of a lost part of the body of an organism and the part that is regenerated in its place is due.—**Term of a determinant**. From the array choose n different elements (constituents) such that there is one and only one element from each row and column, multiply these elements together, the product will be a term of the determinant.

determinate, a.—Determinate growth, in bot. See *growth.—Determinate number.—See *number.—Determinate variation. See *cariation.

II. u. In Weismann's doctrine of determinate variation.

nants, any cell which has distinctive hereditary qualities.

I shall designate the cells or groups of cells which are independently variable from the germ onwards as the 'hereditary parts' or 'determinates.'

Weismann (trans.), Germ-plasm, p. 57.

determination, n. 14. In bot. and zoöl., the identification, classification, and naming of specimens of plants or animals.

determine, v. i. 4. In Oxford and other universities, to take part in a solemn disputation preparatory to graduation as master of arts.

Same as deutoptasm.

Same as deutoptasm.

Same as deutoptasm.

deterrent, n. 2. A substance used in the deuteroplasma (dū"te-rō-plaz'ma), n. [NL., mannfacture of smokeless powder to mederate the violence of the explosion and to diminish formed.] Same as paramitom.

sensitiveness to shock. Vaseline, camphor, deuteroproteose (dū"te-rō-prō'tē-ōs), n. Same etc., are so employed.

deterrently (de-ter'ent-li), adv. In a manner te deter; as a deterrent: as, the possibility of being called to account has acted deterrently.

deth, n. A simplified spelling of death. dethyroidized (de-thi'roi-dīzd), p. a. [de-+thyroid + -ize + -ed².] Deprived of the thyroid gland. Buck, Med. Handbook, VI. 410. detin (de-tin'), v. t.; pret. and pp. detinned, ppr. detinning. [de-+tin.] To remove the tin from (articles related with tin).

Detonating fuse, oil, etc. See *fusc2, *oil, etc. detortion, n. 2. In biol., the symmetry of a straight organism whose ancestors were twisted. [Rare.] Energy. Brit., XXX. 796. detritus, n. 3. In pathol., caseous or other disorganized material formed by the destruction of living tissue.

actor who played the second part, after that of the protagonist.

deuteranope (dū'tėr-an-op), n. [See *deuteranopia.] In psychophys., one who is afflicted by the form of red-green blindness known as deuteranopia. Baldwin, Diet. of Philos. and Psychol., I. 274, II. 787.

deuteranopia (dū-ter-an-ô'pi-a), n. Gr. δεύτερος. second, + NL. anopia, blindness.]
In psychophys., a form of red-green colorblindness; the so-called green-blindness.
deuterencephalon (dū-tėr-en-sef'a-lon)

Same as *deutocerebrum. Eneye. Brit., XXIX. 499.

deutero-albumose (dū"te-rō-al'bū-mōs), n.
One of a group of albumoses, also known as
secondary albumoses, which are formed during the process of proteolytic digestion. During gastric digestion their formation is preceded by that of the primary albumoses. They can all be precipitated by saturation with ammonium sulphate, partly in neutral and partly in acid solution. The digestion of fibrin leads to the formation of at least four deutero-albumoses. See *albumose and digestion-products, under *digestion.

deutero-caseose (dū"te-rō-kā'sē-ōs), n. Adeutero-albumose derived from casein.

deuterocladus (dū-te-rek'la-dus). n. [NL., ζ Gr. δεύτερος, second, + κλάδος, branch.] In sponge-spicules, an actine bearing branches of the second order.

deuterocone (dū'te-rō-kōn), n. [Gr. δείτερος,

second, $+ \kappa \bar{\nu} \nu \sigma_{c}$, cone.] The inner and anterior cusp of an upper premolar. deuteroconid $(d\bar{u}^{\beta} t_{e} - r\bar{\rho} - k \sigma_{c}')$, n. [Gr. $\delta \epsilon i_{e} - \epsilon \bar{\nu} \rho \sigma_{c}$, second, $+ \kappa \bar{\nu} \nu \sigma_{c}$, cone. $+ -i d^{2}$.] The inner and anterior cusp of a lower premolar. deutero-elastose (dū"te-rō-ē-las'tōs), n. deutero-albumose derived from elastin.

deuterofraction ($d\bar{\mathbf{a}}^{\#}$ te-rō-frak'shon), n. of the groups into which the deutero-alba-deutoplasm, n. 2. Same as *deuteroplasma.

moses, which result from the albumins on preteolytic digestion, can be separated: spoken of as deuterofraction A, B, C, etc.

deuterogamy, n. 2, in bot, a form of nuclear fusion in certain cryptogams which is subsequent to the sexual act and superposed upon it. P. Groom.

deutero-Isaiah (dū"te-rō-ĩ-zā'yā, or-ĩ-zī'yā), n. The name applied by some modern crities to the author of chapters xl.-lxvi. of the book of Isaiah; also, this part of the book, which was probably written at the end of the Babylonian evile

deutero-Nicene (dū#te-rō-nī'sēn), a. Pertaining to the second Nicene council. See Nicene. deutero-Pauline (du te-rō-pâ'lin), a. The designation of certain writings similar in character to the epistles of Paul, but considered to be from another hand. Some critics so name the Epistle to the Hebrews and the Pastoral Epistles.

deuteroplasm (dū'te-rō-plazm"), n. [Gr. δεύ-τερος, second, + πλάσμα, anything formed.]

as *deutero-albumose.

deuterosaurian (du te-ro-sa ri-an), a. and n. Pertaining to or having the characters of Deuterosaurus.

II. n. A member of the genus Deuterosaurus. Deuterosaurus (dū"te-rō-sā'rus), n. [Gr. δεύτερος, second, + σαίρος, a lizard.] A genus of extinct theromorphous reptiles of the family Deuterosauridæ, having deuble-headed ribs. large canine teeth serrated on the edges, no palatal teeth, and large lacrymal bones. It occurs in the Permian formation. tin from (articles plated with tin).

detiuning (dē-tin'ing), n. The operation of removing the tin from articles plated with tin, deuteroscopia (dū'te-rō-skō'pi-ä), n. [NL.]

Same as deuteroscopy.

deuteroscopic (da te-ro-skop'ik), a. Of or pertaining te deuteroscopy or second sight: as, the deuteroscopic faculty.

deuterostrophy (dū-te-ros'trō-fi), n. [Gr. δείτερος, second, + στροφή, turning.] In phyltotaxy, a spiral of the third degree.

deuterosystematic (dū"te-rō-sis-te-mat'ik), a. Of or pertaining to a second or secondary system.

deuterotokous (dū-te-rot'ō-kus), α. [Gr. δεύτερος, second, + -τόκος, < τεκεῖν, bring forth.] Of or pertaining to deuterotoky or the parthenogenic generation of both male and female offspring.

deuterotoky (dů-te-rot'ō-ki), n. second, +-τοκία, < -τόκος, < τεκείν, bring forth.] A form of parthenogenesis in which the virgin female gives birth to offspring of both sexes, as the so-called sexual generations in the Aphi-didæ and Cynipidæ. Cambridge Nat. Hist., V.

deuterotoxin (dū"te-rō-tok'sin), n. tive of a toxin which has a less marked affinity for the corresponding antitoxin than prototoxin.

deuterozoic (dū"te-rō-zō'ik), a. [Gr. δεύτερος, second. + ζωή, life, + -ic.] In geol., a term proposed to designate the later Paleozoic formations (Devonian, Old Red Sandstone, and Carboniferous system) of Great Britain, in distinction from the earlier ones: not now in use.

deuthyalosome (dūt-hī-al'ō-sōm"), n. [Gr. $d\epsilon i\tau(\epsilon\rho o\varsigma)$, second, $+ia\lambda o\varsigma$, glass, $+\sigma\bar{\omega}\mu a$, body.] In cytol., the nucleus remaining in the egg after the formation of the first polar body. Van Beneden, 1883.

deutobrochal (dū-tō-brō'kal), a. [Gr. đeir- $(\epsilon\rho\sigma\varsigma)$, second, $+\beta\rho\delta_{N}\sigma\varsigma$, a noose, a mesh.] Noting one of the stages in the intra-ovarian development of the occyte, the chromatin being coarsely reticular and the nucleus showing one or two nucleoli. Buck, Med. Handbook, VI. 450.

deutocerebrum (dū-tō-ser'ē-brum), n.; pl. deutocerebra (-brā). [Gr. δείτ(ερος), second, + L. cerebrum, brain.] That portion of the brain of an insect which comprises the antennal or elfactory lobes; the second lobe of an insect's brain. Also called deuterencepha-lon. A. S. Packard, Text-book of Entom., pp. 231, 237.

deutonephron (dū-tō-nef'ron) n.; pl. deuto-nephra (-rā). [Gr. δεύτ(ερος), second, + νεφρός, kidney.] The mesonephron or Wolffian body.

+ -γενής, -producing.] In embryol., that portion of the egg-eytoplasm which forms or is

converted into dentoplasm. deutosomite (dŭ-tō-sō'mīt), n. The posterior of the two somites into which the segment in the Hexapoda and Chilopoda is more or less theoretically supposed to be divided. Science,

March 27, 1903, p. 485. devastative (dev'as-tā-tiv), a. Destructive; that wastes or ravages: as, devastative floods. that wastes or ravages: as, devastative floods.

devastavit, n.—Devastavit by direct abuse or direct devastavit, in law, actual embezzlement of the property of an estate by an administrator, executor, or other trinstee, or the conversion of the same to his own use; also the wilful release of a claim due the estate, or the surrender of a lease below its value; and generally any enlpable act by which the property is actually wasted or lost.—Devastavit by maladministration, in law, payment, by an executor, administrator, or other trustee, of claims against an estate that are not actually due or owing, or payment out of the order in which claims ought. of claims against an estate that are not actually due or owing, or payment on tof the order in which claims ought to be paid, or payment of legacies prior to debts; and generally any disposition of the funds that may cause a loss to a preferred class, aithough not benefiting the trustee.—Devastavit by neglect, in law, a negligent act or omission, upon the part of an executor, administrator, or other trustee, which results in loss to the estate: for example, failure to sell goods at a fair price within a reasonable time, neglect to collect a doubtful debt that might with diligence be collected, etc.—Writ of devastavit, in law, a writ that lies against an executor, administrator, or other trustee to recover damages for a devastavit.

develop, v. t.—To develop one's game, in chess, to proceed in the line of one's intended tactics.—To develop out, to subject to a photographic process which requires the use of chemicals, usually in a dark place, for the production of the image: contrasted with to *print out. See *print.

developable, a. 3, If, in the series given for a function by a development formula, the general expression for the error decreases indefinitely as we increase the number of terms, the sum will approach as its limit the value of the function, which is then said to be developable.

developing-machine (de-vel'up-ing-ma-shēn'), n. A machine for developing photo-graphic plates or rolls of films.

development, n. 3. (b) The generation of a new living being considered inductively as a fact, without reference to the question whether it is to be regarded as evolution or unfolding, or as epigenesis or new formation; the subject-matter of the science of descriptive enibryology or embryogeny.-6. (c) Specifically, in music, the second section of a movement in sonata form or the central portion of a fugue, in which the thematic material in the subject or subjects is unfolded and variously treated. Also called the working-out or the development section .- 7. In ehess, the movements by which a player in the early part of the game places his pieces in position for future action.—Dislocation of development, the development of embryonic organs out of their proper order or position.—Induced development, the generation of a new living being from a new considered as engineering or new living being from tion of development, the development of embryonic organs out of their proper order or position.—Induced development, the generation of a new living being from an egg, considered as epigenesis or new formation and as the result of the reciprocal interaction between it and its environment. Embryologists and writers upon speculative biology commonly hold that the conception of inherent development or evolution or unfolding and the conception of induced development or epigenesis or new formation are contradictory and mutually exclusive; but there are many facts and theoretical considerations which show that the organism is neither inherent in the germ nor induced by the conditions of its existence and development, because it is in the reciprocal interaction between the two. The organism would not be what it is if either the constitution of the germ or the conditions under which its development takes place had been different. From this point of view it is as great an error to locate development, either individual or ancestral, in the conditions of existence as it is to locate it in germ-cells. It exists in neither, because it is in the relation between the two, and the prominence of the one or of the other in the mind of the investigator is dependent upon the purpose that he has in view in making the comparison. The contradiction between the notion of induced development and that of inherent development is not in germ-cells nor in living beings, but in the mental concepts of the biologrist, who names, and tries to separate in his nind, what is not separable in fact. See inherent *development* and *in-nate*, 3.—Inherent* development*, the generation of a new living being through the unfolding or evolution or manifestation to sense of the organization which is held to have been invisible or latent or potential in the germ-cell. See *innate*, 3.— Law of development toward opposite*, in psychol., one of Wundt's three laws of psycholical development*, be development, the ferlings, and are them-selves for a longer or shor

developmental, a.—Developmental mechanics, experimental embryology. See ★embryology.

deutoplasmogen (dū-tō-plaz'mō-jen), n. [Gr. developmentalist (dē-vel-up-men'tal-ist), n. $\delta \epsilon i \tau (\epsilon \rho o c)$, second, $+ \pi \lambda a \sigma \mu a$, anything formed. A believer in the theory of progressive devel An exorcism against the devildom which piantly held me.

A believer in the theory of progressive developments an evolutionist. X. E. D.

An exorcism against the devildom which piantly held me.

Mrs. Browning, Aurora Leigh, it.

developmentarian (de-vel-up-men-ta'ri-an), deviler (dev'l-er), n. 1. One who operates a

opment theory in philosophy, biology, anthropology, ete

developoid (de-vel'up-oid), n. [= lt. svilup-poide; irreg. \(\langle\) develop + -oid.] Of a given Of a given primitive curve, a curve such that each of its tangents is cut by the primitive at an angle w which is any function whatsoever of the coordinates of the point of intersection. When this angle is constant, the developoid is called ordinary. Beltrami.

to the erown by escheat by reason of the death

magnet.

deviation, n.—Angle of deviation. See *angle3.— devil's-bite (dev'lz-bit), n. The American Standard deviation. (a) In biol., the index of variability.—(b) If the law of error be stated devil's-bones (dev'lz-bonz), n. The wild yam,

deviative (de'vi-a-tiv), a. [deviate + -ive.]

flection, or divergence. Lockyer. deviator, n. 2. An appliance for altering the course of a balloon by resistance against water. The appliance is suspended from the balloon by a cord and floats in the water. See the extract.

A strap at each end carries a rope passing to the bal-loon. When the ropes are of unequal length the deviator takes an oblique position and gives a steering effect; when the ropes are equal the biades become parallel to the di-rection of movement and there is no deviation and but little resistance. This instrument is, in fact, a multiple rudder of the simplest form. Both these deviators have been designed to keep at a certain depth below the sur-face of the water.

Sci. Amer., Oct. 26, 1901, p. 266.

devil, n., 9. (f) A machine for unloading grain from the hold of a vessel. N. E. D.—(g) A small, portable charcoal-furnace used in foundries for drying molds. It is constructed of a light iron latticed frame and is usually suspended in the mold.

11. A junior counsel who assists his superior, In math., a curve whose equation is $y^4 - x^4 + ay^2 + bx^2 = o.-13$. A 'literary' or professional 'hack'; one who does professional work for another who gets all the credit.—14. Gunpowder moistened with water or alcohol so as to destroy the granulation and form a paste: used as a sort of firework by boys, and as a priming or fuse.- 15. A moving whirlwind earrying up columns of sand, such as are common in India, Persia, and countries having dry seasons: sometimes called dancing-devil or desert devil, and known in upper India by the local name bagoola (Hind. bagūla).—16. A highly seasoned dish of crabs, chicken, eggs, or the like, cooked together.—Devil's bedposts. See *bedpost.—Devil's coach-horse. (b) Ocypus olens, a large European rove-beetle, of the family Staphylinidæ, of savage appearance and habits and foul odor. (c) The wheel-bug. Also called the devil's ridiny-horse.—Devil's corkscrews. See *Daimonelix.—Devil's darning-needle. (c) A name commonly applied to any common species of dragon-fly. (d) The American or Virginia virgin's-bower, Clematis Virginiana, so named from the goesamer-like truit.—Devil's hop-vine, the green-brier or cat-hrier, Smilax rotundifolia.—Devils on horseback, a savory dish made of oysters fried or broiled with a small piece of crisply tried bacon astride of each.—Devil's riding-horse. Same as *devil's coach-horse.—Hickory horned devil, the larva of an American ceratocampid moth. Citheronia regalis. See cut under royal horned caterpillar. highly seasoned dish of crabs, chicken, eggs,

devil, v. II, intrans. To do professional work (literary or legal) for another who receives all the credit, and sometimes also the remuneration or fee; act as a literary or legal devil.

devil-dancer (dev'l-dan'ser), n. In India, a person who believes himself inspired and who performs dances like the whirling dervishes. See dervish.

devil-dancing (dev'l-dan'sing), n. The performances of the devil-dancers of India. devildom (dev'l-dum), n. [devil + -dom.] The

realm, domain, or sway of the devil; diabolic power or its exercise. Tennyson, The Revenge. She meant a commination, or, at best, An exoreism against the devildom Which plainly held me.

Mrs. Browning, Aurora Leigh, ii.

machine known in England as devit and in the United States as rag-picker or shoddy-picker. 2. One who attends a hard-waste breaker in a cotton-factory.—3. A rag-shaking machine. -4. One given to patient and laborious research. [Slang.]

devil-fish, n. (a) Any large cuttlefish, as an octopus or an architeuthis. (e) Lacepedia cataphracta, a fish found in Australian waters.

deviling² (dev'l-ing), n. Acting as a 'devil'

or office hack; literary or legal hack-work: as, ordinary. Beltrami.

devenerunt (dev-e-nē'runt), n. [L. devene-runt, '(they) have come.'] In old Eng. law, a writ which lay in favor of the king, to determine what lands and tenements 'have come' to the lowest division of the Cambrian system in the Ardennes mountains of Belgium.

deviability (dē-vi-a-bil'i-ti), n. In phys., the devil's-apple (dev'lz-ap'l), n. 1. See apple, property of being capable of deflection from 3.—2. The thorn-apple. Datura Stramonium. a path, as cathode rays, by the action of a devil's-bean (dev'lz-ben), n. [West Indian.] Same as bottle-cod.

bility. See variability.—(b) If the law of error be stated by the equation $z = \frac{1}{\sqrt{\pi c}} e^{-\frac{(x-d)^2}{c^2}}$, more conveniently written $(1/\sqrt{\pi c}) \exp - (x-d)^2/c^2$, then $c/\sqrt{2} = \sigma$ is called by Pearson the standard deviation. The square root of the average of the squared departures from the mean in both directions is a measure of variability called the standard deviation. deviative (de'vi-a-tiv), a. [deviate + -ive.] Of, pertaining to, or producing deviation, deflection or divergence. Lockney



Devil's-claw (Acacia Greggii). (From Sargent's "Manual of the Trees of North America.")

devil's-claws (dev'lz-klâz), n. The corn-crowfoot. Ranunculus arvensis: so called from its bur-like fruit.

devil's-fingers (dev'lz-fing'gerz), n. bird's-foot trefoil, Lotus corniculatus. Compare erow-toe.

devil's-flax (dev'lz-flaks), n. The toad-flax, Linaria Linaria.

devil's-flower (dev'lz-flou"er), n. The red eampion, Lyelinis dioica. Also called adder'sflower.

devil's-grandmother (dev'lz-grand'muth-er), n. The woolly elephant's-foot or tobacco-

devil's-grass (dev'lz-gras), n. 1. The joint-grass, Paspalum distichum. 2. The couchgrass, Agropyron repens.—3. The gum sueeory, Chondrilla juncea. - 4. Same as Bermuda grass. See under grass and Cynodon, 1.-5. Same as bur-grass, 1. devil's-greens (dev'lz-grēnz), n. Same as

*devil's-grass, 3.

devil's-grip (dev'lz-grip), n. The carpet-weed,

Mollugo verticillata.

Mollugo verticillata.

devil's-guts, n. 2. The corn spurrey, Spergula arrensis.—3. In Australia, the dodderlaurel, Cassytha filiformis. See *dodder-laurel. devil's-hair (dev'lz-hār), n. The American virgin's-bower, Clematis Virginiana.

(dev | lz -hed -in -adevil's-head-in-a-bush bush'), n. The bladder-ketmia or flower-of-an-hour, Hibiscus Trionum.

devil's-herb (dev'lz-èrb), n. A trailing or elimbing plant, Plumbago scandens: so called from the use of its root and leaves as a blistering agent. See Plumbago, 2.

devil's-horn (dev'lz-hôrn), n. Same as stinkhorn.

devil-shrimp (dev'l-shrimp), n. A slender ernstacean with long-stulked eyes, of the genus

devil's-ironweed (dev/lz-i'ern-wed), n. The arrow-leaved lettuce, Lactuca sagittifolia, of eastern North America; also, less commonly, the wild lettuce, L. Canadensis.

marsh mosquito of the Atlantic coast of the United States, Culex solicitans. [New Jersey.]

devil's - paintbrush (dev'lzpāut brush), n. The orange hawkweed or golden mouseear, Hieracium aurantiacum. from the pencil-like pap-pus. The name s also applied to the king-devil,

H. præultum,
which somewhat
resembles the
first-named plant: both have be-come pests in the United States.



devil's-pitch-forks (dev'lz-pich"fôrks), n. Devil's-paint-brush (Hieractium aurantia-tium). One fourth natural size. beggar's-ticks or sticktight, Bidens frondosa.

The bienspidate fruit resembles the tines of a pitchfork. devil's-plague (dev'lz-plag), n. The wild

dial.] dial.] earrot, Daucus Carota, which is a plague to dew-bow ($d\bar{u}'b\bar{o}$), n. A halo or rainbow seen farmers, especially in America. See carrot and Daneus (cut).

devil's-rattlebox (dev'lz-rat#l-boks), n. bladder-campion, Silene vulyaris, the seeds of which when ripe rattle in the inflated pod.

devil's-root (dev'lz-röt), n. The lesser broom-rape, Orobanche minor, which is injurious to clover upon the roots of which they are para-sitic. The name is also applied to the devil'sbit, Seabiosa Succisa.

devil's-tether (dev'lz-teth"er). n. The black biudweed, Polygonum Convolvulus.

devil's-tongue (dev'lz-tung), n. 1. 1nd prickly-pear, Opuntia, especially O. Opuntia to twice its diameter. dewdrop, n. 2. In bot., an American rosaceous tongue-shaped branches or joints.—2. See plant, Dalibarda repens, related to the strawberry, with long-petioled, ovate-orbicular, cordate and erenate leaves, and white flowers and the strawberry with long-petioled. devil's-tongue (dev'lz-tung), n.

devil's-trumpet (dev'lz-trum "pet), n. The jimson-weed, Datura Stramonium: so called

from the trumpet-shaped flowers. **devil's-vine** (dev'lz-vin), n. The The hedge-bindweed. Convolvulus sepium.

devil's-walking-stick (dev''lz-wâ'king-stik), u. The ailantus tree, Ailanthus glandulosa.

devil's-weed (dev'lz-wēd), n. Same as *devil'sironweed.

devirilize (dē-vir'il-īz), v. t.; pret. and pp. devirilized, ppr. devirilizing. [de-+virile+-ize.] To rob or deprive of virility or vigor; emas-enlate; deprive of vitality or force; weaken.

It would be difficult to find a better illustration of the Amer. Jour. Psychol., XII. 277.

devize, v. Same as devise.

devolutive (dev-ō-lū'tiv), a. [devolut(ion) +

-ive.] That is of the nature of, or involves, devolution. N. E. D.

devolv, v. A simplified spelling of devolve.

Devon (dev'on), n. The name of a shire (Devonshire) in England, applied specifically to a breed of dairy eattle noted for their docility and the quality of their milk. The color is red, varying from dark to pale chestnut, but there must be no mixture of black or white. The skin is yellow, the hair soft, and the general appearance symmetrical.

Devonia (dē-vō'ni-ä), n. [NL. Devonia, Devon, Devonshire.] In gool, the region of Devonian in the particular of the production of the production

rocks, without regard to geographical limita-

tion: the Devonian rocks.

tion; the Devonian rocks.

Devonian, I. a. This term was first applied in geology by Sedgwick and Murchison to a series of rocks in North and South Devon and Cornwall in which fossils had been found which were recognized by Jonsdale as intermediate in character between Silurian and Carboniferous. The lower and upper limits of the formation were not defined in Britain, but were more precisely determined by the same geologists in the Rhineland. So uncertain, however, were the bounds assigned to the base of the formation that more recent study in various countries has added to the lower part of this system considerable beds that had before been assigned to the Silurian system. Strictly applied, the term Devonian implies the rocks bearing the marine faunas of that time and is contrasted with the Old Red Sandstone, which is a formation sometimes different lithologically and which represents the lake, lagoon, or detta deposits of the same age.

II. n. 1. A native or inhabitant of Devonshire.—2. In geol., the Devonian series.

Devonshire cream. See *eream1.

Devonshire cream. See *eream1.

devil's-needle (dev'lz-në "dl), u. The sait-devotionalism (dë-vō'shen-al-izm), u. [devo-dew-rake (dū'rāk), u. A rake for the surface marsh mosquito of the Atlantic coast of the tional +-ism.] Devotional character.

tional +-ism.] Devotional character. devotioner (de-vo'shon-er), u. One who belongs to a religious society of a devotional character. N. E. D. De Vriesian. devulcanize (de-vul'kan-iz), r. t.; pret, and pp.

devulcanized, ppv. devulcanizing. [de-+vulcanize.] To remove sulphur from, as vulcanized india-rubber, and restore to the condition of

india-rubber, and restore to the condition of the original material. There have been numerous attempts to do this, but none of them has been effective, only partial restoration of plasticity having been attained.

dewberry, u... 2. The dewberry has now been improved to such an extent that it has become an important cultivated fruit. The improved forms are derived from native North American species. The most prominent garden kind is the Lucretia, derived from the wild Rubus roribaccus. The Bartel, another cultivated form, is derived from Rubus incival; others, in the southern United States, from Rubus trivialis; others, in the western States, from Rubus trivialis; others, in the western States, from Rubus trivialis. There are hybrids between the common wild dewberry of the northern United States, Rubus procumbens, and the high-bush blackberry (R. nigrobaccus). In cultivation, the dewberries are usually trained to stakes or trellises.—California dewberry, Rubus viitfolius, a somewhat trailing species with 3-5-foliate leaves, ovate to oblong coarsely toothed leaflets, and oblong, sweet berries: common in the coast ranges of california from San Diego county to the Fraser river, and also in Idaho. also in Idaho.

dew-bit (dū'bit), n. A light breakfast taken very early, before the regular breakfast. [Eng.

on a surface covered with drops of dew. An analogous bow has occasionally been seen by reflection from drops of water, resting upon a layer of dust, which have been formed by the gentle fall of particles of fog. Both lunar dew-bows and solar dew-bows have been observed; and both principal and supernunerary dew-bows, analogous to the ordinary double rainbow, have been recorded.

dew-cap ($d\tilde{u}'$ kap), n. A prolongation of a telescope-tube beyond the object-glass, intended to prevent deposition of dew, and also to exclude stray light. A small telescope should be provided with a dew-cap, bright without, but

date and crenate leaves, and white flowers on long peduncles. The fruit consists of several dry achenia inclosed in the enlarged calyx. It also bears cleistogamons flowers.

dew-flower (du'flon/er), n. Same as dayflower.

dew-grass, n. 2. The whitetop proper, Agrostio alba. Also called white bent, English bent, ete. When this grass has a purple or brown eolor, the redtop proper, it is called summer dew-grass.

dewlap, n. 5. A brand or ownership-mark on the dewlap of an animal. [Western U. S.] dew-leaves(dū'lēvs), n. pl. Upwardly inclined leaves adapted for the collection of dew.

dew-moth (dū'môth), n. An English collectors' name for a European moth, Setina irrorata: from its habit of flying in the early morning.

from its habit of flying in the early morning.

dew-point, n.—Complement of the dew-point, the number of degrees by which the temperature of the dew-point is below the temperature of the air.—Depression of the dew-point. Same as complement of the *dev-point.*—Dew-point apparatus, apparatus for determining the dew-point. That devised by Regnault consisted of a polished silver cup containing ether in the center of which was immersed the bulb of a delicate thermometer. A current of air blown through the ether hastened its evaporation, cooling it down until the outside of the silver cup showed a deposit of dew; the temperature corresponding was the desired dew-point. Modifications of this apparatus have been made by Alluard, Crova, Abbe, and others, in order to seemer greater delicacy or freedom from disturbing currents of wind. The deposition of dew depends to a considerable extent upon the nature of the surface and the perfection of its polish. The deposition begins upon the points or spots where a slight roughness exists, but is detected soonest where the surface is polished.—Tronton's electrical dew-point hygrometer. -Tronton's electrical dew-point hygrometer.

dew-pond ($d\bar{u}$ pond), n. A small and shallow pond, usually artificial, located on ridges or hills where no adequate supply of water is possible from surface-drainage or from springs. The water is collected by condensation from the air dew, which is prevented from rapid evaporation by the means employed. The practice of making dew-ponds is common in Berkshire, England. A wide, shallow hollow is made, dry straw is spread over it, and upon this is laid a layer of finely puddled clay, which is in turn closely strewn with stones. The pond then gradually fills with water.

We have no waters to delight Our broad and brookless vale Only the dew-pand on the height
Unted, that never fails.

R. Kipling, The Five Nations (Sussex).

dew-snail (dū'snāl), n. A garden or other slug: so named because it is usually found while the dew is on the herbage.

dexiocardia (dek″si-ō-kär′di-ä), n. [NL., ζ Gr. δεξίδς, right, + καρδία, heart.] Same as dextrocardia.

dexiotrope (dek'si-ō-trōp), a. Same as dexio-

dexiotropic, a. 2. Turning to the right hand or in a clockwise direction: said of the direction of cleavage in the eggs of certain invertebrates.

dexiotropically (dek/si-o-trop'i-kal-i), adv. In a dexiotropic manuer.

dexiotropism (dek-si-ot'ro-pizm), n. The state of being dexistropic.

Dexter aspect. See *aspect.
dextraural (deks-traral), a. [L. dexter, right, + auris, ear, +-all.] Hearing more distinctly with the right ear than with the left.

dextrinase (deks'tri-nās), n. [dextrine + -ase.] In chem., a supposed distinct enzym, forming part of the diastase of malt, believed to convert starch into maltodextrine.

dextrinate (deks'tri-nāt), n. [dextrine + -atel.] A compound of dextrine: applied specifically to a compound of iron and dextrine used in medicine.

dextrinize (deks'tri-nīz), v. t.; pret. and pp. dextrinized, ppr. dextrinizing. [dextrine + -ize.]
To convert partially or wholly into dextrine.
Various farinaceous foods for infants are thus transformed, usually by simple heating, and the product sometimes gains in digestibility bv tĥis treatment.

dextrinized (deks'tri-nizd), p. a. Having the contained starch converted into dextrine: as, dextrinized bread.

dextrinous (deks'tri-nus), a. [dextrine + -ous.] Of or pertaining to dextrine.

dextrocamphene (deks"trō-kam-fēn'), n. See

*camphene dextrocardial (deks-trō-kär'di-al), a. [L. dex-ter, right, + Gr. καρδία, heart, + -all.] Having the heart on the right side.

dextrocerebral (deks*trō-ser'ē-bral), a. [L. dexter, right, + E. cerebral.] Having the right ecrebral hemisphere functionally more active than the left.

dextrocular (deks-trok'ū-lār), a. [L. dexter, right, + oeulus, eye, + -ar³.] Possessing more aente vision in the right eye than in the left. G. M. Gould, in Pop. Sei. Mo., Aug., 1904, p. 361.

dextroduction (deks-trō-duk'shon), n. dexter, right, + ductio(n-), leading.] I ment to the right. Move-

dextroform (deks'trō-fôrm), n. form(uldehyde).] A compound of formaldehyde and dextrine used in surgery as a substitute for iodoform.

dextrogyral (deks-trō-jī'ral), a. Of or pertaining to right-handed rotation; having rotatory power in the direction of a right-handed serew: said of crystals or other optically active substances capable of turning the plane of polarization of light toward the right: opposed to *levogyral.

dextromanual (deks"tro-man'ū-al), a. [L. dexter, right, + manualis, of the hand: see manual.] Same as right-handed.

dextropedal (deks-trop'ē-dal), a. [L. dexter, right, + pes (ped-), foot, + -al.] Using the right foot and leg by preference in kicking,

hopping, etc. dextro-rō-tā'shon), n. oplies, rotation (specifically of the plane of polarization of light) in a clockwise direction: opposed to *levorotation.

dextrorotatory, a. 2. In bot., turning or twining to the right. See right-handed, 3.
dextrosinistral (deks-trō-sin'is-tral), a. [L. dexter, right, + sinister, left + al.] Passing, moving, etc., from right to left.

dextrosuria (deks-trō-sū'ri-ā), n. [dextrose + Gr. oὐρον, urine.] Exerction of dextrose in the urine.

dextroversion (deks-trō-ver'shon), n. [L. dexter, right, + versio(n-), turning.] The act of turning to the right side: said of the uterus. dezinc (dē-zingk'), v. t. [de- + zine.] To remove zinc from, as old galvanized iron. dezincation (dē-zing-kā'shon), n. Same as dezincification

dezincification.

dezincify (de-zingk'i-fy), v. t.; pret. and pp. dezincified, ppr. dezincifying. [de- + zine + -i-fy.] To eliminate zine from as from an alloy or mixture: usually from lead, as in the Parkes process.

D. F. An abbreviation (b) of Dean of the Faculty. D. F. M. S. An abbreviation of Domestic and Foreign Missionary Society.

An abbreviation of decigram.

D. H. An abbreviation of deadhead or dead-headed. D. H.

dhan² (däu), n. [Hind. Hindi dhān, rice, = Pali dhānnam, < Skt. dhānyā, adj., cereal, n.. grain, eorn.] In India, a general term for rice in the husk.

dharma (där'mä), n. [Skt. dharma.] Established order, usage, custom, rule, duty, virtue, right, law, etc. In Buddhism, the law; the

eanon. Also dhurma.

dharna, dhurna (där'nä, dur'nä), n. [Hind. dharna, put down, set down; dharna dena (as in def.).] A coercive measure resorted to in the East Indies by a creditor, complainant, or elaimant, who sits at the door of the debtor, without tasting food, until the debt is paid or the demand is complied with: as, to sit dharna (or in dharna).

dhotee, n. 2. A striped cotton fabric woven in suitable lengths for winding about the loins. It is manufactured extensively in Great Britain for the East Indian trade; is woven in all widths from 22 to 50 inches, and in lengths of

40 vards.

dhurrin, n. See *durrin.

D. Hy. An abbreviation of Doctor of Hygiene, a degree conferred by Durham College, England

diabase, n.—Ash-bed diabase, a local term used on Keweenaw Point, Lake Superior, for an igneous rock resembling a conglomerate, but regarded by Wadsworth as a scoriaceous, amygdaloidal sheet into which much sand was washed during its early history.

was washed during its early history.

diabetes, n.—Bronzed diabetes, a form of diabetes in which there is a discoloration of the skin, due to a deposit of blood-pigment, and usually also cirrhosis of the liver.—Cerebral diabetes, excretion of cerebrose in the nrine.—Diabetes alternans, diabetes which alternates with gonty attacks.—Pancreatic diabetes, diabetes due to disease of the pancreas.—Phlorizin diabetes, excretion of sngar in the nrine following the ingestion of phlorizin.—Phosphatte diabetes, a morbid condition in which there is a profuse exerction of urine containing phosphates, but not always sngar.—Puncture diabetes, excretion of sngar in the nrine, experimentally produced in animals by puncture of the medulia oblongata.

Diabetic cataract, center, etc. See *cataract, *center1*, etc.

*center1, etc.

diabetogenic (dī"a-bē-tō-jen'ik), a.

+ -genic, -producing.] Producing diabetes.
diablo (dē-ā'blō), n. [Cuban use of Sp. diablo, devil.] The Cuban name of the bat-fish, Og, devil.] The Cuban name of the bat-usn, vy, cocephalus respertilio. See ent under bat-fish. diablotin (dē-ā-blō-tan'), n. [F., dim. of diable, devil.] 1. An imp; a little devil. Scott.—2. (a) In the French West Indies, one of the Gestrelata hæsitata. (b) In Trinidad, the guacharo, Steatornis caripensis.

diabolatry (di-a-bol'a-tri), u. [For *diabolatry, ϵ Gr. διάβολος, the devil, ϵ + λατρεία, worship.] Worship of the devil.

His Infinite and Illimitable charity of Imagination could transfigure even the most monstrous historic representa-tive of Christian or Catholic diabolatry into the likeness of a terribly benevolent and a tragically magnificent monomaniae. Encyc. Brit., XXIX. 350.

diabolo (di-ä'bō-lō), n. [It. diabolo, diavolo, ⟨ L. diabolus, devil.] The game of the devil on two sticks. See devil.

diabolology (dī-ab-ō-lol'ō-ji), n. [Gr. διάβολος, the devil, + -λογια, ⟨ λέγειν, speak.] The sum of statements and beliefs concerning devils or the devil.

diabolonian (dî-ab-ō-lō'ni-an), n. [Diabolus (see def.) + -on- + -ian.] In Bunyan's 'Holy War,' one of the warriors of Diabolus (the Devil) in his attack on Mansoul (man's soul).

diabrosis (dī-a-brō'sis), n. [NL., < Gr. διά-βρωσις, < διαβιβρώσκειν, eat through, < διά, through, + βιβρώσκειν, eat.] Erosion; ulceration; corrosion.

Diabrotica, n.—Corn-root Diabrotica. Same as

diacalorimeter (dī-a-kal-ō-rim'e-ter), n. [Gr. διά, through, + E. calorimeter.] A device for measuring the insulating power of liquids for

tained by the interposition of a perforated metallic screen or gauze, negatively electrified, in the path of cathode rays.

diacetic (dī-a-sē'tik), a. [di-2 + acetic.] diacetic (di-a-sē'tik), a. [di-2' + acete.] Acetoacetic.—Diacetic actd, an acid (CH₃COCH₂CO₂H) sometimes found in the urine under abnormal conditions, notably in diabetes. It is derived by oxidation from oxybutyric acid, and by loss of carbon dioxid gives rise to acetone. Also called acetoacetic acid. diacetonuria ($d\bar{u}''$ as- \bar{e} -tō- $n\bar{u}'$ ri- \bar{a}), n. [NL., \langle diacet(iv') + $\langle au'$ + $\langle Gr, or' \rangle por$, urine.] The exerction of diacetic acid in the urine. It may occur

cur in the course of infections fevers or of diabetes, in the latter case often preceding the appearance of coma. Also diaceturia.

diaceturia (dī″as-ē-tū'ri-ā). n. [NL., ⟨ diacetie) + Gr. οὐρον, urine.] Same as ★diacetonuria.

diacetyl (di-as'e-til), n. [di-2 + acetyl.]yellow compound, CH₃COCOCH₃, the simplest member of the class of aliphatic 1, 2-diketones, prepared from isonitroso methyl-ethyl ketone. It boils at 88° C., has a pungent, sweet odor, and its vapor has the color of chlorin.

diaclase (dī'a-klās), n. [Gr. διάκλασις, a breaking in two (used in fig. sense of 'feebleness'), ing in two (used in fig. sense of reconstruction), γ plates. ⟨ διακλάν, break in two, ⟨ διά, apart, + κλάν, plates. break.] In geol., a joint: a name suggested **Diademina** (dī″a-de-mī'nii), n. pl. [NL. for break.] The geol., a joint: a name suggested *Diadematina, ⟨ Gr. διάδημα, diadem, + ·ina².] *Diadematina, ⟨ Gr. διάδημα, diadem, + ·ina².]

Daubrée showed that the valley system of northern France follows a line of rectangular fractures, which he called diaclases.

J. W. Gregory, in Smithsonian Rep., 1898, p. 374.

diaclasite (dī-ak'la-sīt), n. [Gr. διάκλασις, a breaking apart, + - ite^2 .] A partially altered enstatite.

diaclast (dī'a-klast), n. [Gr. *διάκλαστος, < διακλᾶν, break in two, < διά, apart, + κλᾶν, break.] An instrument used in perforation

of the fetal skull in cranicetomy.

diaclastic (dī-a-klas'tik), a. [As diaclast +
-ic.] Pertaining to or produced by diaclases. The direction of the Greenland flords is determined by a similar series of intersecting diaclastic fractures.

Geog. Jour. (R. G. S.), X111. 236.

diaclinal (dī-a-klī'nal), a. [Gr. διά, through, + κλίνειν, bend.] In geol., transverse to the axis of a fold.—Diactinal valley, a valley which cuts across an anticline or syncline. diacodion (dī-a-kō'di-on), n. Same as diaco-

dium.

diacœlosis (dī"a-sē-lō'sis), n. [NL., < Gr. διά, through. + κοίνωσις, a hollow, lit. a hollowing, \(κοίλων, make hollow. \)
 \[
 \]
 The division of the ecoloma or body-eavity into sinuses and chan \] nels, as in leeches.

The colome is much restricted by a growth of connective tissue, which splits it up into sinuses and channels, a process termed diacoclasis.

Rolleston and Jackson, Forms of Animal Life, p. 579.

diaconics (di-a-kon'iks), n. [Gr. διακονικός, of deacons, ζ διάκονος, deacon.] That branch of practical theology which treats of the science of the 'inner mission,' that is, the mission to the community already Christianized, as distinguished from the 'outer mission,' which reaches out to the unconverted world. It is the study of pastoral duly to the sick, the unfortunate, and the fallen.

diacranterian, a. 2. Having a tooth in the hinder portion of the jaw longer than the other snakes, the common hog-nosed viper, Heterodon, being a good example: opposed to iso-

part of the jaw longer than the other teeth.

diacrinous (di-ak'ri-nus), a. [Irreg. ζ Gr. δίακρινειν, separate, +-οικ.] A term applied to gland-cells which permit their secretion or exgama-cens when permit their secretion or ex-eretion to pass out directly as from a filter: opposed to *ptyocrinous. The kidneys are good examples of diacrinous glands. diacrisis (dī-ak'ri-sis), n. [NL., ⟨Gr. διάκρισις, separation, ⟨ διακρίνειν, separate: see dia-critic.] 1. A disease characterized by a mor-bid state of the secretions — 2. A critical di-

bid atate of the secretions .- 2. A critical discharge or exerction, as sweating in pneumonia.

diacritical, a.—Diacritical current, in elect., a mag-netic current which will produce in an iron coil diacritical magnetization, or a magnetization equal to one half satu-

diacromyodous (dī/a-krō-mī-ô'dus), a. $\delta\iota$, two, + aspov, extremity, + $\mu\nu\omega\delta\eta\gamma$, mussellike, \langle $\mu\bar{\nu}_{c}$ ($\mu\nu$ -), musele.] In ornith., having the syringeal muscles attached to both the updiacanthons (dī-a-kan'thus), a. [Gr. δι-, two-, like, (μν-), musele.] In ornith., having the syringeal museles attached to both the upper and the lower ends of the bronchial half-cathodic (dī-a-ka-thod'ik), a. [dia-+ rings.]

cathode + -ic.] Öf or pertaining to rays ob- diactin (dī-ak'tin), n. [Gr. δί-, double, + per and the lower ends of the bronchial half-

άκτις (ἀκτιν-), a ray.] In the nomenclature of the spicular elements of sponges, a straight or curved spicule with two arms. diactinism (dī-uk'tiu-izm), n.

[diactin-ic + -ism.] The property, possessed by certain substances, of transmitting chemically active rays.

Diadectidæ (dī-a-dek'ti-dē), n. pl. [NL., < Diadectes + -idæ.] A family of anomodont Reptilia, founded on genera from the Permian formation and including Diadectes, Empedias, and some others. The teeth are transversely clongated and divided by a median ridge. Cope has regarded this peculiar type of tooth as indicative of herbivorous

diadem, n. 6. In embryol., a term applied to certain eggs in the blastula stage.

Diadematoidea (dī-a-dēm "a-tō-id'ē-ā), n. [NL., ζ Gr. διάδημα(τ-), diadem, + είδος, form.] An order of Eucchinoidea or sea-urchins, having an actinal central peristome and an abactinal periproct situated within the dorsoeentral system, internal and external branchiæ, jaws and teeth and a continuous perignathie girdle, and ambulaeral plates continued beyond the peristome or as separate bueeal

A group or suborder of regular ectobranchiate Echinoidea, of the order Diademoida, having the ambulaeral plates of varying degrees of complexity. It includes the Orthopsidæ, Diadematidæ, Pedinidæ, and other families.

Diademoida (dī-a-de-moi'dā), n. pl. [NL. for Diadematoida, < Gr. διάδημα, diadem, + -oida.] An order of regular ectobranchiate Echinoidea. An order of regular ectobrahemate Ecuatoriaea. They have the mouth and anus both central and opposite, the latter opening in the center of the apical system; the external branchie passing out through the buccal clefts; a dental apparatus present; no interambulacial plates on the peristonial membrane; and the ambulacial plates generally compound. It includes the Arbaciilae, Diadematidie, Strongylocentrolidæ, and other families.

diaderm (dī'a-dērm), n. [Appar. < Gr. διά, through, + δέρμα, skin.] In embryol., a collective term for both ectoderm and entoderm. diadochokinesia (dī-ad / ō-kō-ki-nē'si-ä), n. [NL., ζ Gr. διαδοχή, succession, + κίνησις, motion.] The power of executing, in alternation, antagonistic movements, as those of flexion and extension of a limb.

diadromous (dī-ad'rō-mus), α. [Gr. διάδρομος, running through, < διά, through, + -δρομος, < δραμεῖν, run.] In bot, having all the nearly equal nerves proceeding in a fan-like manner from the summit of the petiole to the margin of the leaf, as in the maidenhair-tree.

diadumenos (dī-a-dū'men-os), n. [Gr. διαδοί-μενος, middle, ppr. of διαδείν, bind around: see diadem.] In Gr. antiq., a fillet-binder: a name applied to a class of antique marble and bronze statues representing an athlete binding a fillet about his head. They are supposed to be based upon a famous bronze original by the sculptor Polycletus.

diæne (di'ēn), n. [Gr. δt -, two, +-awa, the termination of $\tau piawa$, a trident]. In the nomenelature of the spicular elements of sponges, a triane in which one of the cladisks bas been atrophied.

diafanous, a. A simplified spelling of diapha-

nous. This type of dentition is found in some diaforetic, a. and n. A simplified spelling of diaphoretic.

diafragm, n. A simplified spelling of diaphraam.

A snake having a tooth in the hinder diagenesis (dī-a-jen'e-sis), n. [NL., \langle Gr. ie jaw longer than the other teeth. is (dī-ak'ri-nus), a. [Irreg. \langle Gr. action of heated waters upon elastic sediments at the time of their deposition, assumed to explain the origin of crystalline schists: proposed by Gümbel (1888); employed by Walther to embrace those physical and chemical modifications which take place in a sediment from the time of its deposition to the time when it is modified by orogenic or volcanic forces, when it undergoes metamorphism.

diagenetic (di²a-jē-net'ik), a. Caused by or characteristic of diagenesis.

diagenic (dī-a-jen'ik), a. [diagen(esis) + -ie.] Pertaining to or resulting from the processes of diagenism.

To sum np, metamorphism may be considered as presenting itself under these phases, I. Static metamorphism or diagenism, the product being diagenic rocks.

A. W. Grabau, in Amer. Geol., April, 1904, p. 236.

diagenism (dī-aj'e-nizm), n. [diagen(esis) + -ism.] A term used by Johannes Walther to include all the physical and chemical changes

which a rock mass undergoes after deposition, aside from those caused by pressure during orogenic disturbances or by igneous activity.

Amer. Geol., April, 1904, p. 236. diagnosable (dī-ag-nō'sa-bl), a. [di-able.] Capable of being diagnosed. - [diagnose +

diagnosable (di-ag-no sa-bi), a. [auagnose + -able.] Capable of being diagnosed.

diagnosis, n.—Clinical diagnosis, diagnosis made from the symptoms alone.—Diagnosis by exclusion, diagnosis based upon a comparison of all the aftections which have various symptoms in common, and the rejection of one after another as certain essential signs are found to be lacking, until only one disease, which answers all the tests, remains.—Pathological diagnosis, diagnosis ande by an examination of the morbid changes present.—Physical diagnosis, diagnosis based upon information obtained by auscultation, percussion, and palpation.—Serum diagnosis, diagnosis by means of serums. Among the various antibodies (see *immunity) which have been discovered, the agglutinins and precipitins are of special interest: the first, because their formation facilitates not only the diagnosis of certain bacterial infections, but also the recognition of the corresponding organisms; the second, on account of their special biological and medicolegal significance, the modern bloodtest being based upon their formation. (a) As regards the agglutinins, Gruber and his pupil Durham first showed that cholera bacilli and typhoid bacilli when suspended in an inert fluid lose their motility and collect in little clumps (see *agglutination, 4) upon the addition of homologous blood-serum, that is, of blood-serum derived from an individual infected with the corresponding organism.

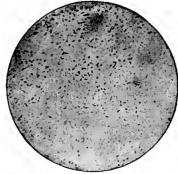


Figure showing uniform Distribution of Bacilli, before the Action of the corresponding Agglutinius. (From Cabot's "Guide to the Clinical Examination of the Blood.")

Further research then led to the recognition of the fact that within certain limitations the action of the agglutinins is specific, that is, that the blood-serum from a typhoid patient, for example, does not agglutinate the common colon bacillus, the cholera bacillus, streptococci, staphylococci, etc., and vice versa. But it was also

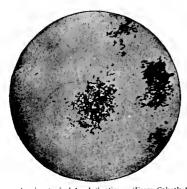


Figure showing typical Agglutination. (From Cabot's "Guide to the Clinical Examination of the Blood.")

shown that the blood-serum from a given case may eause a positive reaction with closely related organisms, as in the case of cholera serum, which will agglutinate vibrio Ivanoff, vibrio Berolinensis, and vibrio Scine-Versatiles. Then it was demonstrated that normal blood-serum may have a more or less well-marked agglutinative effect on certain organisms, so that it would appear that the value of this method for the purpose of recognizing hacteria must of necessity be limited. While this is true, in a certain sense, it has been ascertained that marked quantitative differences exist in the behavior of immume blood-serums to micro-organisms in general, and that it is possible to obtain a positive and exclusive reaction between a given organism and its corresponding serum if the latter is strongly diluted. Normal human blood-serum, for example, will not agglutinate the typhoid bacillus in dilutions exceeding 1:10, while with typhoid serum a positive reaction can still be obtained with dilutions of 1:50, 1:200, and more. The clinical significance of the principle of bacterial agglutination was first pointed out by Widal, who showed that the reaction can be obtained with typhoid blood-serum quite early in the course of the disease, namely, at a time when the other clinical symptoms often leave the diagnosis in doubt. For this reason Widal's name has been coupled with the reaction, or, still better, the Gruber-Grundaum-Widal reaction, or, still better, the Gruber-Grundaum-Widal reaction, or, still better, the present time the method is fully recognized as one of the most

important in the diagnosis of typhoid fever especially, and is extensively utilized in clinical work. In other diseases, such as dysentery, Malta fever, bubonic plague, cholera, pneumococcus infections, etc., the method is at times also applicable for diagnostic purposes, but the clinical value of the reaction is here diminished to a certain extent, owing to the comparatively late date of its appearance. For the recognition of the corresponding organisms, however, it is invaluable. The clinical examination may be conducted as follows: A large drop of blood is received on a glass slide and allowed to dry. In this form the material is conveniently brought to the laboratory. Here the blood is soaked off with sterile bouillon, or distilled with water, using 15–25 drops for the one drop of blood. This gives a dilution of 1:15:25, as the case may be. One drop of this fluid is placed on a cover-glass and mixed with a drop of a bouillon culture of the typhoid organism not more than 24 hours old. In this manner a final dilution of 1:30:50 is secured. The cover-glass is mounted on a cupped slide and set aside for 30 minutes. If a the expiration of this time the bacilli have lost their motility and have gathered in clumps, as shown in the accompanying illustration, the reaction is positive. Numerous modifications of this method have been described, which are all allke in principle. A new departure, however, has been made of late in the use of dead cultures, which are agglutinated in the same manner. This is an important discovery, since it makes the test more readily applicable for the general practitioner, doing away with the necessity of keeping an actively motile culture on hand. The reaction is obtained in fully 96 per cent. of all cases of typhoid fever at some stage in the course of the disease. (b) As regards the precipitine, these bodies are formed as the result of immunization of animals with albuminous substances derived from individuals of a different species. When the resultant sutiserms are then brought toget *agglutination test.

diagnosticum (di-ag-nos'ti-kum), n.; pl. diagnostica (-kä). [NL.] A means of diagnosis. — Ficker's diagnosticum, a dead culture of the typhoid bacillus which, in suspected cases of typhoid fever, can be used in the agglutination test, in the place of the living organisms. See ★agglutination test.

living organisms. See *agglutination test.

Diagonal line, the line through the middle points of the three diagonals of a complete quadrilateral; specifically, in naval arch., a curved line formed by the intersection of a diagonal plane with the surface of a vessel. The diagonal plane intersects the central longitudinal plane in a horizontal line and is thence inclined downward and outward. A rabatted diagonal is a diagonal shown in its true form, by turning the diagonal plane up to the horizontal about its intersection with the central longitudinal plane as a hinge. See rabattement. Diagonal lines aromuch used in obtaining smooth, fair forms for a vessel's lines, and the harpings usually follow the diagonals. See cut under harping, 2 (b). Also diagonal.—Diagonal symmetry. See *symmetry.—Diagonal trigram. See *trigram. metry. ★trigram.

diagram, n.—Argand diagram, a plane figure representing imaginary quantities of the form x + yi, by points having for orthogonal coordinates x and y. In such a diagram it is necessary to consider the parts of the plane at infinity to be one point.—Entropy diagram, the diagram of a thermodynamic cycle involving changes of entropy.—Enler's diagram, a graphic representation of logical relations first given by the mathematician Leonard Euler, in his "Letters to a German Princess." Circles, or ovals, are used to represent each by its contained surface the aggregate of possible individuals to which a certain predicate applies.—Hertz's diagram, a graphic presentation of the temperature, pressure, and moisture of a unit mass of moist air when undergoing adiabatic changes of volume.—Metacentric diagram, See *metacentric.—Neuhoff's diagram, a diagram, analogous to that of Hertz, used for the purpose of determining more accurately the condition of the moisture in air ascending to a given altitude or pressure.—Pulseux diagram, a of Hertz, used for the purpose of determining more accurately the condition of the moisture in air ascending to a given altitude or pressure.—Pulseux diagram, a diagram of unit points, like the intersections of the horizontal and vertical lines of squared paper, introduced by the French geometer Pulseux, for the treatment of functions.—Strain-diagram, a figure or diagram drawn (as a rule automatically) by the mechanism of a testing-machine, in which the abscisse are the pounds of stress applied to the test-piece and the ordinates are the strains or the amount of deformation, in pounds or tons, of the specimen under that load. The paper on which the diagram is drawn is moved in abscissa by the weighing apparatus, while the specimen in changing its form under stress describes the ordinate by means of a multiplying mechanism attached to it for the purpose.—Variation-diagram, an indicator-diagram which records the diagrams for enough successive strokes of the engine to determine whether the governor is acting properly, or whether it is unable properly to control the steam admission.—Volume-entropy diagram, a thermodynamic diagram expressing the relation between the volume of a

substance, such as a gas or vapor, and its entropy.— Volume-pressure diagram, a thermodynamic diagram expressing the relations between the volume and pressure of a gas or vapor.

diagram-factor (dī'a-gram-fak"tor), n. ratio of the actual mean effective pressure, measured from an indicator-diagram, to the mean effective pressure of a diagram in which the various operations of admission, expansion, release, and compression are carried on under assumed ideal conditions. Trans. Amer. Soc. Mech. Engin., XXIV. 751.

diagramic (dī'a-gram-ik), a. Same as diaarammatic.

Diagramma (dī'a-gram-ä), n. [NL.: see dia-The name of a genus of grunt-fishes, of the family Hæmulidæ, found in the East Indics.

diahydric (dī-a-hī'drik), a. [Gr. διά, through, + νδορ (νδρ-), water.] Passing through or conveyed by water: as, a diahydric sound. diakathodic, a. See *diaeathodic. diakinesis (dī"a-ki-nē'sis), n. [NL., ζ Gr. διά, through, + κίνησις, movement.] In cytol., the segmented spipement again the primerro scarte segmented spireme stage in the primary occyte or spermatocyte. This stage follows synapsis and is

characterized by the persistence of the chromosomes for some time in the form of double rods. dial¹, n.—Lunar dial. Same as night or nocturnal dial. dial² (dī'al), n. [Origin not ascertained.] The commercial name for the best grade of kauri-

An abbreviation (a) of dialect; (b) of dialectal, dialectic, or dialectical.

dialdane (dī-al'dān), n. [di-2 + ald(ehyde) + ane.] A colorless crystalline compound, OCHCH₂CH(OH)CH:CHCH₂CH(OH)CHO, prepared by the action of hydrochloric acid on a mixture of aldehyde and water. It melts at 130° C. and may be distilled under reduced

dialdanic (di-al-dan'ik), a. [dialdane + -ic.] Derived from dialdane.— Dialdanic acid, a color-less compound, $C_8H_{14}O_4$, prepared by the action of potas-sium permanganate on dialdane. It forms monoclinic crystals, melting at 80° C. and boiling at 193° C. under 20 millimeters pressure.

dial-feed (di'al-fed), n. In sheet-metal work, a read-motion adapted to multiple-die presses which perform one or more operations upon a single blank or shell. It consists essentially of a circular plate, called the dial, which revolves horizontally under the upper dies of the press. Two types are in use. In one the dial is a flat plate on which the shells are placed by hand. As it revolves the shells are carried under the single upper die, each being brought to the right position by stationary guides sbove the dial. The dial can also be used to carry the shells to a second feedmotion which earries each in turn under a gang of dies that perform a series of operations upon each shell. See *multiple-press* (with cut). In the other type the dial carries a number of femsle dies placed in a ring upon the plate. The blanks or shells are fed to these as they pass the front and are carried by the rotation of the dial under one or more upper dies in turn. The press may have three upper dies and perform an equal number of similar operations, or it may have two or three different dies and perform a series of consecutive operations upon each blank in turn. Presses having a dial feed-motion are called dial-presses.

diallagic (di-al'a-jik), a. [diallage++-ic.] Of, feed-motion adapted to multiple-die presses

diallagic (di-al'a-jik), a. [diallage + -ic.] Of, or of the nature of, the mineral disllage. dialog, n. and v. A simplified spelling of dia-

Dialommus (di-a-lom'us), n. [NL., < ML. dialis, dial, + Gr. όμμα, eye.] A genus of blennies from the Galápagos Islands, characterized by having the eyes divided each by a horizontal partition. D. fuscus is the only known species.

dial-press (di'al-press), n. A press having a dial-feed motion. See *dial-feed.—Horizontal dial-press, a dial-press employing a vertical dial fitted with a number of female dies, placed in a horizontal position, the single opposing die moving in horizontal guides. The shells are fed to the revolving dies by hand.

dial-recorder (dī'al-rē-kôr"der), n. A clock combined with a dial recording mechanism for registering the time of arrival and departure of employees.

dialurate (dī-a-lū'rāt), n. [dialur-ic + -atcl.]
A salt of dialuric acid.

dialuric (di-a-lū'rik), a. [dial(ysis) + uric.]
Noting an acid, a colorless compound,
CO < NHCO > CHOH, prepared by the reduc-

tion of alloxan. It crystallizes in short, tetrag-

onal prisms. Also called tartronyl-urea. dial-writer (di'al-rī"ter), n. A form of writing-or printing-machine of the type-writer class. in which the letters are arranged on a dial like the figures on a clock-face and a pointer or arm is moved to the desired letter, or the whole dial is turned on its center to bring the desired letter to the point where the impression is to be made.

sion is to be made.

dialycarpel (dī'a-li-kār'pel). n. [Irreg. < Gr.
banheu, part asunder. + NL. carpellum, carpel.]

A fruit with separate earpels. Syd. Soc. Lex.
dialycarpic (dī'ā-li-kār'pik), a. Same as dia-

dialydesmy (diⁿa-li-des'mi), n. [Irreg. \langle Gr. δ nahier, part asunder, $+\delta$ eou δ c, band, +- y^3 .] In bot., the breaking up of the axial cylinder into separate bundles each with its own sheath.

dialyneurous (dī/a-li-nū'rus), a. [Irreg. Gr. διαλύειν, part asunder, + νείφον, nerve, + Characterized by dialyneury: as, the dialy-

neurous nervous system of certain gasteropods.

Proc. Zool. Soc. London, 1901, II. 466.

dialyneury (dī*g-li-nū'ri), n. [dialyneur-ous + -y³.] The condition of the nervous system + -y³.] The condition of the nervous system among rhipidoglossal *Mollusca*, characterized by the anastomosis of each pleural ganglion with the opposite half of the visceral commissure by means of the pallial nerve.

dialysator (di'al-i-zā-tor), n. [dialyse+-ator.] In phys. chem., a dialyzer. [Rare.] dialysis, n. 7. In hot., the separation of parts

normally united, especially the parts of a whorl.—8. In petrog., transformation of rocks by weathering and processes of disintegration : in contrast to processes of metamorphism.

dialystaminous (dī-al-i-stam'i-nus), a. [Irreg. (Gr. dialiew, part asunder. + NL. stamen, stamen.] In bot., having the stamens separate. N. E. D.

dialystely (di a-li-ste li), n. [Irreg. (Gr. διαλίειν, part asunder, + στήλη, a pillar.] In bot., the condition in which the axial cylinder consists of several plerome strands or steles which remain for the most part separate throughout their conrse.

dialytic, a. 4. In biol., noting an evolutionary stage or condition in which the divergent characters of inbred varieties do not combine or average in the hybrids but follow one or the other of the parental lines, as discovered by Mendel. Compare *catalytic, 2, *hemilytic, and *prostholytic. O. F. Cook.

dialytically (di-a-lit'i-kal-i), adv. By dialysis; specifically, in math., by dialytic elimination (which see, under dialytic).

dialyzation (di-al-i-zā'shon), n. Same as

dialysis.
diam. An abbreviation of diameter.

diamagnetic, a. 2. Of lower permeability than air. See magnetic *circuit.

diamantine, a. II. n. A trade-name for boron in the crystallized state and in fine powder, used as an extremely hard abrasive and polishing material.

diamba (dē-am'bä), n. [Native name.] Same as deiamba.

diameter, **. 3. The diameter (see def. 2) of the object observed, taken as a convenient measure of linear magnification used in microscopy and in telescopic work.

A magnification of 15 diameters or more is easy.

D. P. Todd, Stars and Telescopes, p. 320.

D. P. Todd, Stars and Telescopes, p. 320.

Coccygeopublic diameter. See *coccygeopublic.—Conjugate diameter of the pelvis, a diameter of the brim of the pelvia measured from the promontory of the sacrum to the aymphysis publs.—Diameter limit, the diameter, usually breast high, which defines the size to which trees are to be measured or used for any given purpose. Also cutting limit.—Intertuberal diameter, in anthrop, the inner diameter of the pelvis measured between the sciatic notches.

diameter-tape (di-am'e-ter-tap), n. A tape for ascertaining the diameter of trees, so graduated that the diameter corresponding to the girth of a tree is read directly from the tape

Diametral curve. See *curve. - Diametral plane.

diamide (di-am'id), n. [di-2 + amide.] 1. ice-plant. Same as hydrazine.—2. The name of a class of organic compounds containing two univalent amido groups, -CONH; they are derived from dibasic acids.

Diamine azo-blue, black, etc. See *azo-blue, *black, etc.—Diamine colors, the direct cotton coal-tar colors: named because many of them are diamines. For specified diaminogen (di-a-min'ō-jen), n. [diamine + diamine - diamine

disazo type, prepared by combining diazotized acetyl-naphthylamine-diamine with a-naphthylamine, diazotizing the product and combining again with β -naphthol-sulphonic acid, and finally saponifying with sodium hydroxid. It dyes unmordanted cutton a dark blue in a saft bath. By

diaminuria (dī-am-i-nū'ri-ä), n. Gr. o'pov, urine.] The elimination of diamines in the urine. This is notably observed in association with cystinuria, where putrescine and cadaverine have been repeatedly met with.

met with.

diamond. I. n. 2. The diamond has been artificially reproduced by Moissan, though as yet only in extremely small crystals, by dissolving amorphous carbon in molten iron at the very high temperature of an electric furnace and suddenly cooling the metal by dropping it into water or mercury, which causes erystallization to take place under the pressure due to the contraction of the exterior of the mass upon the interior portion. By dissolving away the iron with an acid the minute diamond crystals are isolated. The recent discovery of minute diamonds in the meteoric iron of Cahon Diablo, Arizona, gives a peculiar interest to these experiments of Moissan. The diamondmines in South Africa, which were comparatively unproductive during the Boer War, with its close rapidly returned to normal activity. This region has been enormously productive, the mines near Kimberley having yielded, according to one estimate, rough diamonds to a value of approximately \$250,000,000, during the period from 1889 to June 30, 1903. It has also produced some very large diamonds: the Jubilee diamond, found at Jagersfontein, in 1893, weighed 972 carats, and the Cullinan diamond, found at the Premier mine January 25, 1906, weighed 3,025 carats, or one and one third pounds. The latter stone measured 1224 zi inches, and was bounded in part by natural octahedral faces and in part by cleavage planes. The original stone before fracture had probably The latter stone measured ix2\frac{1}{2}\frac{1}{2}\text{ inches, and was bounded in part by natural octahedral faces and in part by cleavage planes. The original stone before fracture had probably nearly double the weight given.—Brazilian diamond, a name given to small spherical or rounded crystals of diamonds, in contradistinction to the Indian type—the octahedral form.—Cape May diamonds, Lake George diamonds, clear, well-formed quartz crystals fancifully supposed to resemble diamonds.—Infian diamond, the octahedral form of diamond.—Irish diamond, a name originally applied to rock-crystal cut in diamond form, but more recently applied to a paste initiation of a diamond when sold by Irish dealers.—Rose diamond. See rose-cut.—Writing diamonds, minute pointed elevavges of diamonds, secured in steel or copper holders, used for making minute marks, letters, or inscriptions on glass or similar substances.

II. a. Diamond brown, cement, flavin, etc. See *brown, etc.—Diamond cotton. (b) A cotton diaper into which a small diamond figure is woren.—Diamond draw-plates, photograph. See *draw-plate, *photo-

diamond-black (di'a-mond-blak"), n. 1. The trade-name of a very fine lampblack, almost absolutely pure carbon, made in Ohio by the smothered combustion of natural gas: used in the preparation of printers'ink.—2. Amordant acid coal-tar color of the disazo type, derived from salicylic acid. It dyes wood in an acid bath a black which becomes exceedingly fast when after-treated with potassium bichromate. It may also be applied upon chromium-mordanted wood.

diamond-field (di'a-mond-fēld), n. An area which yields diamonds from its superficial deposits: as, the diamond-fields of South

diamond-fig (dī'a-mond-fig"), n. Same as *diamond-plant.

diamond-fish (di'a-mond-fish"), n. Any of the garpikes (Lepidosteidæ): so named on account of its diamond-shaped scales.

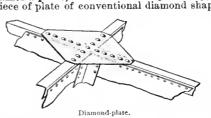
diamond-flounder (dī'a-mond-floun'der), n. A large flounder, Hysopsetta guttulata, found on the Pacific coast of the United States.

diamond-frame (di'a-mond-fram), n. bicycle, the truss made of hollow steel tubing, hrazed at the joints, by which the weight of the rider is transferred to the axles of the wheels. Its shape is approximately that of the lozenge on a playing-card called the diamond. See bicycle.

diamond-grain (dī'a-mond-grān"), n. See carat, 4.

diamondiferous (di'a-mon-dif'e-rus), a. [diamond + L.-fer, \ ferre, bear, + -ous.] 'Diamond-producing: as, diamondiferous earth; a diamondiferous country; diamantiferous.

diamond-plant (dī'a-mond-plant), n. The iceplant, Mesembryanthemum crystallinum. ice-plant.



uniting and strengthening parts which cross each other at the same level.

subsequently diazotizing and combining with β -naphthol, indigo-blue shades are obtained; when combined with metadiamines, fast blacks are produced.

1. In railroading, a crossing where two tracks cross obliquely instead of at a right angle. [Eng.]—Diagond-noint. of at a right augle. [Eng.]—Diamond-point tool. (a) A pointed tool which takes a light chip, used by pattern-makers for turning internal surfaces. (b) A tool which has a V-shaped point, used for turning and grooving metal.

diamond-sparrow (dī'a-mond-spar"ō), n. of the honey-suckers, Dicwide, Pardalotus affinis, which is spangled with red, yellow, white, and black. Also called diamond-bird. [Australia.]

diamond-spot (di'a-mond-spot), n. A British collectors' name for a European pyralid moth, Botys trigonalis.

diamond-truer (dī'a-mond-trö"er), n. A handtool consisting of a short rod of steel with a wooden handle, and having a black diamond inserted in the point of the bar: used in dressing and truing emery-wheels.

diamond-willow (di'a-mond-wil"o), n. See $willow^{I}$.

diamorphosis, n. 2. In physiol., growth into normal shape

diamylene (dī-am'i-lēn), n. [di-2 + amyl + ene.] A colorless compound, (CH₃)₂C: + ene. A colorless compound, (CH₃)₂C: C(CH₃)C(CH₃)₂CH₂CH₃, prepared by the action of sulphuric acid on trimethylethylene. It boils at 154-156° C.

Diana fritillary. See *fritillary.—Tree of Diana. See *tree.

diancister (di-an-sis'ter), n. [NL. diancistron, $\langle Gr. \delta\iota$ -, double, $+ a\gamma\kappa\iota\sigma\tau\rho\sigma\nu$, a fish-hook.] ln the nomenclature of the spicular elements of sponges, a monaxial C- or S-shaped rhabd with the ends sharply bent and with a central excision.

diandrous, a. 2. In ornith., having two mate mates.

dianil (di-an'il), n. [di-2 + anil.] - Dianil black, blue. See *black, *blue.

dianine (di-an'in), n. [dian(il) + -ine2.] The trade-name of a photographic developer consisting of diaminoresorcinol.

dianisidine (di-a-nis'i-din), n. [di-2 + anisidine.] An organic compound formed by the condensation of two molecules of anisidine with the elimination of two atoms of hydrogen.
-Dianisidine blue. See ★blue.

dianium (dī-ā'ni-um), n. [NL., < L. Diana, Diana.] A name proposed by Von Kobell for a supposed new element obtained from the mineral columbite as found in Bavaria. It has been shown to be the same as niobium. Dianol red. See $\star rcd^1$.

dianthine (di-an'thin), n. [Appar. (NL. Dian-thus, pink, + -ine².] A direct cotton coal-tar color of the disazo type, derived from diamidoazoxy-toluene, which dyes unmordanted cotton red in an alkaline salt bath. Also called roso-phenine, rock searlet, St. Denis red, and Trona red.—Dianthine B and G, two coal-tar colors of the xan-thene type, similar in properties and composition to crythrosin.

diap. An abbreviation of diapason. diapalma (di-a-pal'mā), n. [Gr. diá, through (ef. diachylon, diacodium, etc.), + l., palma, palm.] A drying and cleansing plaster formerly composed of palm-oil, litharge, and sulphate of zine, but now generally made of white wax, diachylon plaster, and sulphate of zinc. diapason, n.—Bell diapason, in organ-building, an open diapason stop of which the pipes are flared or belled at the top, which produces a slight therease in the reedy quality of the tone.—Diapason clock. See ★clock².

diapause (di'a-paz), n. [Gr. διά, through, + πανσις, stopping: see pause.] In embryol., the stage of quiescence which separates two blastokinetic movements in the insect embryo. Wheeler, 1893.

diapensiaceous (dī/a-pen-si-ā/shius), a. Belonging to the plant family Diapensiaceæ. diaphanie (dē-ā-fa-nē'), n. [F., < diaphane, diaphanous.] A process for the imitation of

painted or stained glass. N. E. D.

diaphanoscope, n. 2. An illuminating apparatus employed in diaphanoscopy.

diaphanoscopy (di "a-fa-nos'kō-pi), n. [diaphanoscope + -y3.] "Examination of a eavity, such as the antrum of Highmore, or of a hollow organ, such as the stomach, by means of transillumination, an electric light being placed behind or within the part.

diapherin (di-af'e-rin), n. [Gr. διαφέρειν, diffor, +-in².] An amber-colored compound of asepterol, 110C₆H₄SO₂NHC₉H₆O₂ (1:2), used in surgery as a powerful antiseptic. 1t forms hexagonal crystals which melt at 85° C.

diaphoric (di-a-for'ik), a.

diaphotoscope (dī-a-fo'tō-skōp), n. [Gv. διά, through, + οως (οωτ-), light, + σκοπεῖν, view.] Same as *diaphanoscope.

diaphragm, n., 2. (c) A thin ring or plate, pierced with a hole which is usually, but not always, circular. A series of these is attached to the inside of the tube of a telescope or other optical instruent for the nurpose of preventing reflections of light from the inner walls of the tube. (d) A sheet or disk of flexible material, confined at the edges, but free to yield to pressure on one side or the other: used in regulating-devices where pressure is one element, and to operate valves by a pressure from a distance. (e) In tunnelwork, a partition separating the working-face from the first chamber. - 6. In statistical mech., a portion of space, separating two ensembles of systems of molecules, such that there is no interchange of particles between the two.

This independence of the systems determined physically by forces which prevent particles from passing from one system to the other, or coming within range of each other's action, is represented mathematically by infinite values of the energy for particles in a space dividing the systems. Such a space may be called a diaphraym.

J. W. Gibbs, Statistical Mech., p. 196.

7. In pathol., a membranous structure which partly or completely closes the lumen of a tube or cavity: as, inherited diaphragm of the larynx. Med. Record. Jan. 17, 1903, p. 111.—Aubert dtaphragm, in psychophys., an instrument for controlling and varying the amount of light admitted to a dark room. It consists essen.

> 6 0

Three Aubert diaphragms, mounted side by side in a wooden trame, for insertion in the wall of a dark room. The grooves carry scales, and the upper metal strips carry corresponding marks, so that the size of the square openings can be read off. The grooves also carry clips to holding strips of ground or colored glass. A glass strip is shown in position over the two smaller openings.

amount of light admitted to a dark room. It consists essentially of two strips of blackened metal which slide upon each other in grooves; the inner end of each strip is cut out in the form of a right-angled triangle, so that the opening of the diaphragns is always a square.—Diaphragm process, a process for the electrolytic production of caustic soda and chlorin room a solution of common salt. from a solution of common salt, in which the products, separated at the two opposite electrodes, are prevented from mixing by the interposition of a mixing by the interposition of a porous diaphragm. Electro-chem. Industry, Sept., 1903, p. 453.—Pericardial dia-phragm. Same as pericardial septum (which see, under peri-cardial).—Secondary diacardial). — Secondary dia-phragm, the transverse meso-

diaphragm (dī'a-fram), To interpose in the path of a beam of light, or in the field of an optical instrument, a screen containing an aperture; specifically, in photog., to

reduce the aperture of an objective by the use of a diaphragm.

Generally speaking it would be an advantage to dia-phraym the objective during the day.

Smithsonian Rep., 1890, p. 137.

Diaphragmatic hernia, tic. See *hernia,

diaphragmatically (di "a-frag-mat'i-kal-i), adv. By means of the diaphragm: as, to breathe diaphragmatically.

diaphragm-furnace (di'a-fram-fer"nās), n. A furnace for roasting or oxidizing ores. It has successive levels or shelves on which theore is placed, the ore becoming gradually botter as it drops from level to level toward the fire at the bottom.

diaphragm-valve (di'a-fram-valv"), n. 1. A

valve whose opening and closing are controlled by the motion of a diaphragm.—2. A valve to which a plate or diaphragm is attached which will move when the pressure of a liquid in contact with one side of it reaches a certain

diaphtherin (dī-af'the-rin), n. [Appar. ⟨ Gr. διαφθείρειν, destroy (?) + -in².] Same as *σxyquinaseptol.

diaphthol (di-af'thōl), n. [diapht (crin) + -ol.]
The same as *quinascptol.

Diaphus (di'a-fus), n. [NL., erroneously for *Diaphōs, \langle Gr. $\delta i\dot{a}$, across, + $\phi \bar{\omega} c$ ($\phi \omega \tau$ -), light.] A genus of lantern-fishes of the family Myctophidæ, characterized by having luminous spots each divided by a cross-line (as in the Greek letter theta, θ). D. theta is found on the coast of California.

diaphyllous (di-af'i-lus), a. Same as dia-

nce, + -ic.] Of or pertaining to differences. Diaporthe (di-a-pôr'thē), n. [NL. (Nitschke, -Diaphoric function. see *tunction. 1870), irreg. ⟨ Gr. διαπορθεῖν, destroy, ⟨ διά, 1870), irreg. (Gr. διαπορθείν, destroy, (διά, through, + πορθείν, destroy.] A genus of pyrenomycetous fungi having the membranaceous perithecia buried in a more or less distinct stroma which may be either valsoid or effuse, and consists of the slightly blackened substance of the host. The spores are uniseptate and hyaline and sometimes appendiculate. Over 400 species have been described, occurring on a great variety of plants throughout the temperate regions. D. parasitica causes chestnut-blight or canker, a destructive disease in the eastern United States. Sec oak *canker.

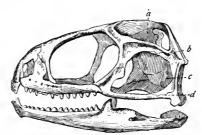
diapositive (dī-a-poz'i-tiv), n. [dia-+ positive.] In photog., a transparent positive picture (such as a lantern-slide), made from a nega-

If one of these views he printed as a diapositive, and superposed on the other negative, a composite picture will be produced.

Sci. Amer., June 25, 1904, p. 494.

diapsid (dī-ap'sid), a. [Gr. $\delta \iota$ -, two-, + $\dot{a}\psi\dot{c}$ ($\dot{a}\psi\dot{c}$ -), arch: see apse.] Having two temporal arches like the members of the reptilian subclass Diapsida.

Diapsida (di-ap'si-dä), n. pl. [NL., ζ Gr. δι-,



Skull of Hatteria (Sphenodon punctatum), a typical diapsidan reptile.

a, supratemporal fossa; b, superior temporal arch or arcade; c, infra or laterotemporal fossa; d, inferior temporal arch or arcade. The specimen figured is young, the teeth of an old hatteria being fused in one mass.

two-, $+ \dot{a}\psi i\varsigma$, arch.] A subclass of Reptilia which contains those forms with (primarily) two temporal arches, a relatively small squamosal, large quadrate, and coracoid and procoracoid early coalescing, or the procoracoid degenerate: contrasted with *Synapsida. Osborn, 1903.

diapsidan (di-ap'si-dan), a. Relating to or having the characters of the reptilian subclass Diapsida: as, diapsidan types of shouldergirdle.

Diaptosauria (dī-ap-tō-sâ'ri-ij), n. pl. Diaptosauria (di-ap-to-sa ri-a), n. pi. [NL., in allusion to the double temporal arch, ζ Gr. δι., two-, + άψις, arch (ζ ἄπτειν, fasten), + σαίρος, lizard.] A superorder of primitive reptiles established by Osborn to include those having a skull with two temporal arches and naving a skill with two temporal arches and vertebrae typically amphicæltous. Hypocentra may be present throughout the vertebral column or lacking in the dorsal region; abdominal ribs or plastron always present. There are several orders included in the group. The hatteria, Sphenodon, is a typical and the only living member of the group.

diarch (di'ärk), a. [Gr. $\delta\iota$ -, two-, $+\dot{a}\rho\chi\eta$, heginning.] In bot., having two protoxylem groups as the states of roots

groups, as the steles of roots.

The diarch roots of a Sphenophyllum have been described by Renault, who has also investigated the leaves-Encyc. Brit., XXXI. 412.

diaremia, diaræmia (dī-a-rē'mi-ā), n. [NL. diaræmia and diarrhæmia (f), appar. irreg. formed from διαρρείν, flow through: see diarrhea.] A watery condition of the blood, with an excessive transudation of serum through the walls of the blood-vessels, frequently seen in sheep which are severely infested with parasites.

asites.

diarrhea, n.—Camp diarrhea, a bowel disturbance, often dysenteric in character, which affects bodies of troops in camp.—Cochin China diarrhea, a form of chronic diarrhea which occurs endemically in Cochin China. Jour. Exper. Med., VI. 87.—Diarrhea alba. Same as white diarrhea.—Summer diarrhea, a diarrhea occurring in hot weather, believed to be caused by ptomaines in food which is undergoing the first stages of decomposition.—Vicarlous diarrhea, watery intestinal discharges occurring as a result of nature's efforts to remove excrementitious matter which is accumulating in consequence of impaired action of the kidneys or the skin.

diarrhea, n.—Camp diarrhea, a bowel disturbance, of diatoms; infusorial earth. Geikie, Text-book of Geol., p. 179.

diatom-ooze (di'a-tom-ōz"/), n. An extremely fine deep-sea deposit consisting of the abandoned frustules of diatoms. Geikie, Text-book of Geol., p. 179.

Diatomic interval. See interval, 5.

diatropic (di-a-trop' ik), a. [Gr. διά, across, γ-ρέπειν, turn, +-ic.] In bot., transverse to the direction of the stimulus or operating force: said of organs so placing themselves.

Diatrypaceæ (di'a-tri-pā'sē-ē), n. pl. [NL.,

by differentiation from a common magma

prior to their eruption.

diaphery (di-af'e-ri). n. The calveine synthesis of two flowers. Morren. + -tits.] Inflammation of the shaft of a long diaphysis (di-as' pid), u. [Gr. $\delta u = \frac{\partial u}{\partial v} = \frac{\partial u}{$ rhabd with expanded flattened ends.

diasporometer (dī^πa-spō-rom'e-ter), n. διασπορά, dispersion, + μέτρον, measure.] device for producing and measuring the dispersion of light.

diastase. n.— Taka diastase, a diastase, derived from the fungus Aspergillus oryze, discovered by the Japanese chemist Takamine. It does not give the reaction for peroxydases, but shows to a high degree the power of decomposing hydrogen dioxid. It is a medicinal preparation.

diastasic (dī-as-tā'sik), a. [diastase + -ic. Cf. diastatie.] Of or pertaining to diastase. U. S. Dept. Agr., Rep. 68, p. 16.

diastasimetry (dī " a - stā - sim ' e - tri), n. [Gr. διάστασις, difference (see diastase), + -μετρία, ζ μέτρου, a measure.] The determination of the diastatic power of a substance, that is, of its capability of converting starch into dextrose. diastema, n. 3. In cytol., the pale region in the cytoplasm or area of sparser protoplasmic fibrillæ which foreshadows the division-plane

in karyokinesis, or indirect cell-division. diastematic (dī-as-tē-mat'ik), a. [Gr. δι-άστημα(τ-), interval, + -ic.] Pertaining to or

of the nature of a diastema.

diastematomyelia (di-a-ste"ma-tō-mi-e'li-ā), n. [NL., < Gr. διάστημα(τ-), interval, + μυελός, marrow.] A congenital condition in which the spinal cord is in two separate lateral halves.

diastoloscope (dī-a-stol'ō-skōp), n. Gr. δια-στολή, separation, distinction, + σκοπεῖν, view.] An eyepiece for the microscope which, in place of lenses, has two cones on a common axis.

Diastoma (dī-as'tō-mā), n. [NL., < Gr. διά, through (†), + στόμα, mouth.] A genns of platypodous gastropods of the family Pyramidellidæ. They have turreted shells with flat whoris transversely ridged and spirally lined, and the aperture separate from the body whorl. The species occur in Cretaceous and Tertiary rocks.

diastral (di-as'tral), a. [NL. *diastrum, diaster, + -all.] Relating or pertaining to a diaster: as, the diastral stage in the division

of a single cell-nucleus into two.

diastrome (dī-as'trom), n. [Gr. διά, through, + στρωμα, layer.] In geol., the splitting of sedimentary rocks along their bedding-planes. diastrophic (dī-as-trof'ik), a. [Gr. διαστροφή, distortion, + -ic.] Pertaining to upheavals or displacements in the earth's crust; of the nature of diastrophism.

It is desirable that a boring be made, as deep as possible, in a plutonic rock. A mass should be selected which is of great age and which has not for many geologic periods been subjected to diastrophic changes.

Rep. Carnegie Inst., 1902, p. 285.

Diastrophic geology, that branch of geology which treats of upheavals and dislocations in the earth's crust. diastrophism (dī-as'trō-fizm), n. [Gr. διαστροφή, distortion, + -ism.] In gcol., a general term suggested by J. W. Powell for all the varieties of deformation of the earth's crust. As elaborated by G. K. Gilbert, it is of two varieties: orogeny, or the upheaval of mountains, and epeirogeny, or the production of centinents. U. S. Geol. Surv., Monograph pp. 3, 340.

diathermanosity (dī "a-ther-ma-nos'i-ti), n. Same as diathermance.

The diathermanosity of water and certain solutions. Nature, LXVII. 425.

diathesis, n.—Uric-acid diathesis, a theoretical condition in which uric acid is formed in abnormal amount within the body and tends to be deposited in the tissues. diatomaceous, a. 2. Containing or made up of diatoms: as, diatomaceous earth. See infusorial earth, under infusorial.

diatome (dī'a-tōm), n. Same as diatom.
diatomean (dī'a-tō'mē-an), n. Same as diatom.
diatom-earth (dī'a-tom-erth"), n. A sedimentary deposit composed of the abandoned frusty tules of diatoms; infusorial earth. Geikie.

⟨ Diatrype + ·accæ.] A family of pyrenomy-cetous fungi, named from the genus Diatrype.

Diatrype (dî-a-trī'pē), n. [NL. (Fries, 1849), irreg. ζ Gr. διατρυπάν, bore through, ζ διά, through, + τρυπαν, bore.] A genus of pyrenomycetous fungi having the perithecia sunken dark-colored flattened effuse stroma which is at first covered by the outer bark of the host. The ostiola perforate the surface of the stroma at maturity, a fact to which the name refers. The spores are simple, allantoid, and hyaline or yellowish. About 70 species have been described; they occur chiefly on the branches of various trees. D. Stigma is a common species on the oak.

diaulic (dī-â'lik), a. [Gr. δίανλος, a double pipe or course, ζ δι-, two-, + αὐλός, a pipe.]
1. Of or pertaining to the diaulos, or double course in ancient Greek racing.—2. In zoöl., divided into two duets, as the hermaphrodite duct from the ovotestis of gastropodous mollusks. Sedgwick, Text-book of Zoöl., I. 378.

diaxial (di-ak'si-al), a. [Gr. di-, two-, + L. axis, axis, + -all.] Same as biaxial.

diaxon (dī-ak'son), n. [NL., \langle Gr. $\delta\iota$ -, two-, + $\delta\xi\omega\nu$, axis.] A neuron, or nerve-cell, having

ring. See *azin.—Diazin black, blue, etc. See *black, *blue, etc.

Diazo black, blue, etc. See *black, *blue, etc. diazoacetic (di-az[#]ō-a-set'ik), a. [diazo-+acetic.] Noting an ether, a lemon-yellow oil,

N >CHCOOC2H5, prepared by the action of

nitrous acid on ethyl aminoacetate. ilizes at low temperatures, melts at -22° C., boils at 84° C. under 61 millimeters pressure, has a characteristic penetrating unpleasant smell, and explodes in contact with concentrated sulphuric acid or after prolonged boiling. It is more correctly termed ethyl diazoacetate, and is used in organic syntheses.

diazoamino (di-az"ō-am'in-ō), n. [Detached use of diazamino-, < diazo- + amine.] The name of a class of organic compounds containing the group RN: NNHR'. These substances tives; they are readily converted into aminoazo compounds, many of which are dyes.

diazobenzene (di-az"ō-beu 'zēn), n. [diazo-

benzene imide, a pale-yellow oily compound, $C_6H_5N \leqslant \underset{\sim}{\mathbb{N}}$

prepared by the action of hydrazin on benzene diazonium sulphate. It has an aromatic ammoniacal odor, and bolls at 73.5° C. under 22-24 millimeters pressure. The vapor causes a flow of tears. Also called triazobenzene and phenyleyelotriazin.

diazoic (di-a-zō'ik), a. [diazo- + -ic.] Noting a class of organic aromatic acids containing the radical RNHNO₂ or the tautomeric form RN: NO. OH.

diazonium (dī-a-zō'ni-um), n. + -ium.] A basic organic radical, RN. Some

of the diazonium compounds are regarded as

diazotate (di-az'ō-tāt), n. [di-2 + azote (see diazo-) + -ate¹.] A salt of an acid, RN: NOH. It may be regarded as a tautomeric form of a diazonium hydroxid RNOH, and must not

be confused with salts of diazoic acid.

diazotization (dî-az"ō-ti-zā'shon), n. [diazo-tize + -ation.] The operation of treating an branchise.

Dibranchise.

Oir diazotization (dî-brang'kus), n. amido compound with sodium nitrite and hydrochloric acid for the production of a diazo compound.

diazotize (dî-az'ō-tīz), v. t.; pret. and pp. di-azotized, ppr. diazotizing. [di-2 + azote + -ize.] In chem., to treat an aromatic amido compound with nitrous acid so as to introduce the diazogroup of two united atoms of nitrogen which reaction various brilliant dyestuffs are obtained. Sadtler, Handbook of Indust. Chem., a toms of bromine united to a dyad element or tained. Sadtler, Handbook of Indust. Chem.,

carbons serve for the production of a positive image eapable of development in color. Paper, calico, silk, or wool is impregnated with a solution of one of a group of dyestuffs of which primulin, the sodium sulphonate of a complex amido base, is typical, and washed in cold water, and the dyestuff is diazotized by the action of a cold solution of sodium nitrite sharply acidified by hydrochloric, sulphuric, or other acid. After washing in cold water, the tissue is exposed behind a photographic positive, a drawing, or some natural object. The image is then developed by the use of a weak solution of a suitable phenol or amine, as an alkaline solution of β-naphthol for red, of phenol for yellow, or of eikonogen for blue. The picture is then washed. Also known as the primulin process.

diazurine diazurine (di-az/ū-rin) a fditarco. image capable of development in color. Paper,

diazurin, diazurine (dī-az'ū-rin), n. [di(azo-) $+azur + -in^2$. A direct coal-tar color of the disazo type, derived from dianisidine. It dyes unmordanted cotton a dull violet in a salt bath, but for the best results subsequent diazotzing and development with β -naphthol are necessary. Upon development it gives a navy blue.

dibasicity (dī-bā-sis'i-ti), n. [diobasic + -ity.] In chem., the character of being dibasic; the character of an acid as containing two atoms of

two axis-cylinder processes.

diazeuxis, n. 2. A disjunctive proposition:
so called, it would appear, by the immediate
successors of Aristotle in his school.
diazin, diazine (di-az'in), n. [di-2 + azine.]
The name of a class of cyclic organic comthe name of a class of eyelic organic eomthe name of a class of eyelic organic atoms in the

The most striking feature of the report of the Field Columbian Museum for 1902-3 is formed by two plates representing groups—the one of the dibatag, or Clarke's gazelle, and the other of the spotted hyena—mounted in the museum.

Nature, Sept. 8, 1904, p. 458.

dibble¹, n. 2. A planting implement which carries the seed in the handle and drops it from the point by means of a slide, when inserted in the earth. [Great Britain.]— 3. A pair of wheels drawn by a horse, and furnished with eogs which make holes for seed:

used in cotton-planting. [Southern U. S.] **libbling**² (dib'ling), n. The aet of planting dibbling² (dib'ling), n. The aet with a dibble. See dibble¹, r. t.

Dibbling is not a method suited for sowing large areas, but is useful in filling up blanks.

R. H. Wallace, Agriculture, p. 181.

ing the group KN:NHK'. These substances are often incorrectly termed diazoamido derivatives; they are readily converted into aminoazo eompounds, many of which are dyes.

1. Same as benzil. - 2. A combining form used in organic chemistry to indicate the presence of two benzoyl radicals (C_6ll_5CO -) in the molecule of a compound.

liazobenzene (dī-az"ō-beu'zēn), n. [diazo-henzene.] A univalent organic radical, the benzene.] A univalent organic radical, dibenzyl (dī-ben'zīl), n. [di-2 + benzyl.] A colorless compound, C₆H₅CH₂CH₂C₆H₅, prepared by the action of sodium on benzyl chlorid. It forms monoclinic crystals melting at 51.5-52.5° C., and boils at 284° C. Also colorless compound. ealled symmetrical diphenylethane.

diblastic (dī-blas'tik), a. [Gr. $\delta\iota$ -, two-, + $\beta\lambda a\sigma\tau \delta\varsigma$, germ.] Composed of two germ-layers; having the character of or being in the condition of a diblastula. See diblastula.

Dibothridiata (dī-bō-thrid-i-ā'tā), n. pl. [NL., ⟨ Gr. δι-, two-, + NL. bothridium + -ata².] A group of Cestoidea. The scolex is provided with only two suckers, or bothria, these being situated respectively on the dorsal and the ventral aspect, and the uterus communicates with the exterior. It includes the order Pseudophyllidea. The majority of the members of this group are parasitic in fresh-water fishes, though certain ones are found in birds and in man.

Dibothriocephalus (dī-both/ri-ō-sef'a-lus), n. [Gr. $\delta \iota$ -, two-, + $\beta \circ \theta \rho i \circ \nu$, dim. of $\beta \circ \theta \rho \circ \rho$, a pit, + $\kappa \epsilon \phi a 2 \eta$, head.] The older name of the genus Bothrioeephalus (which see).

dibotryoid (di-bot'ri-oid), a. [di-2 + botryoid.] Compoundly botryoid; having the secondary branches botryoid, as in a compound umbel, a paniele, etc.

dibranchious (dī-brangk'i-us), a. [Gr. δι-, two-, + βραγχια, gills, + -ous.] Having two branchiæ.

two-. + βράγχος. for βράγχιον, gill.] A genus of deep-sea frogfishes of the family Ogcocephalidæ. D. atlantier the Gulf Stream. D. atlanticus abounds in the abysses of

dibrom-, dibromo-. [di-2 + brom(ine).] A combining form used in organic chemistry to indicate the presence of two bromine atoms in the male rather than the control of the dibrom-, dibromo-. the molecule of the compound.

radical: as, ethylene dibromide.

diazotype (di-az'ō-tip), n. In photog., a dibutyl (di-bū'til), n. [di-+ butyl.] Same as method of photographic dyeing and printing, *octane.

in which derivatives of the aromatic hydro-dicacodyl (dī-kak'ō-dil), n. [di-2 + caeodyl]A colorless highly poisonous compound, (CH3)2 AsAs(CH₃)₂, prepared by the action of zine on eacodyl chlorid. It melts at -6°C, boils at 170°C, has an offensive smell, and inflames spontaneously in the presence of air or chlorin. Also called tetramethyldi-

dicalcie (di-kal'sik), a. [di-2 + calc(ium) + -ic.] In chem., containing, as a salt, two atoms of ealeium. Dicalcic phosphate (Ca₂H₂(PO₄)) forms the chief part of the so-called 'reverted phosphate' in fertilizers which by keeping bave lost the soluble character of the original monocalcic phosphate or superphosphate of lime (CaH₄(PO₄)2).

dicarbonic (dī-kār-bon'ik), a. [di-2 + carbonic.] Containing two earbonic-acid radicals, —O.CO.OH, in the molecule. Sometimes incorrectly used for dicarboxylic.

dicarboxylic (dī-kār*bok-sil'ik), a. [di-2 + curboxyl + -ic.] Containing two earboxyl groups,—CO.OH, in the molecule, as an organie compound.

dicastic (di-kast'ik), a. [dicast + -ie.] Of, pertaining to, or characteristic of a dicast or the dieasts: as, the dicustic assembly; the dicustic badge.

dicefalous, a. A simplified spelling of dicepha-

Dicellocephalus (dī-sel-ō-sef'a-lus), n. [Also Dikellocephalus. NL., ζ Gr. δικελλα, a two-pronged hoe, a mattock, + κιφολή, head.] A widely distributed genus of Cambrian trilobites having a large crescentic cephalon with conate, transversely grooved glabellum, 9 thoracie segments, and a fan-like pygidinm bearing spiniform extensions at the sides.

dicephalus (dī-sef'a-lus), n.; pl. dicephali (-lī). [NL., ζ Gr. δικέφαλος, two-headed, ζ δι-, two-, + κεφαλή, head.] A double-headed monster.

Diceratidæ (dis-e-rat'i-dē), n. pl. [NL., < Dicerus (-cerut) + -idæ.] A family of extinct teleodesmaceous pelecypods of which Dicerus is the typical genus.

dice-top (dīs'top), n. A top with numbers on its sides, one of which will be uppermost when the top comes to rest after being spun; a tee-

dicetyl (di-set'il), n. Same as *dotricontane. dichamphitriæne (di-kam"fi-trī'ēn), n. [Gr. $\delta i \chi a$, in two, $+ \delta \mu \phi i$, on both sides, $+ \tau \rho i a \nu a$, trident.] In the nomenclature of the spieular elements of sponges, an amphitrizene in which the cladisks are bifurcated.

Dichapetalaceæ (dik"a-pet-a-lā'sē-ē), n. pl. [NL. (Engler, 1896), < Dichapetalum + -aceæ.] A family of dicotyledonous choripetalous or sometimes sympetalous plants of the order Geruniules, typified by the genus Dichapetalum, and characterized by regular 5-merous flowers borne from a scaly involuere or cup-shaped disk. There are 3 genera and about 89 species, natives of tropical Africa and America and Madagascar. They are trees, shruls, or woody vines with alternate entire coria-ceons leaves and small flowers in compound cymes in the axils or apparently on the petioles of the leaves. See ★Dichavefulum.

Dichapetalum (dik-a-pet'a-lum), n. of the petals, $\langle Gr. \delta i_{\alpha} a \rangle$ for the two lobes of the petals, $\langle Gr. \delta i_{\alpha} a \rangle$, in two, $+ \pi \epsilon \tau a \lambda \sigma v$, leaf (petal).] A genus of plants, type of the family *Dichapetalaccæ*. There are about 70 species, chiefly natives of Africa and Madagascar. One of these is known as $\tau a t$ -poison.

dichlorbenzene (dī-klôr-ben'zēn), n. chtor(ine) + benzene.] One of three compounds with the formula $C_6H_4Cl_2$, distinguished by the prefixes ortho, meta, para-, all are colorless; the first two are liquids, and the last is a crystalline solid melting at 53° C. and beiling at 172° C. The others boil at 179° C. and 172° C. respectively.

dichoblastic (di-kō-blas'tik), a. [Gr. $\delta(\chi a)$, in two, $+\beta \lambda a \sigma \tau \delta c$, germ, +-ic.] In bot., sympodially dichotomous. Celakovsky.

dichocaltrop (di-kō-kal'trop), n. [Gr. $\delta\iota\gamma\bar{\omega}\varsigma$ ($\delta\iota\chi a$), in two, + E. caltrop.] In the nomenclature of the spieular elements of sponges, a caltrop with bifurcate arms. See *coltrop, 4. [Gr. διγώς

dichogamism (dī-kog'a-mizm), n. [Gr. δίχα, in two, + γάμος, marriage.] Complete hermaphroditism, or the presence of the accessory reproductive organs as well as of the gonads of both sexes. G. H. Leeves.

dichogamy, n. 2. In zoöl., the maturation in hermaphroditic animals of the ova and

sperm at different times so as to preclude selffertilization.

dichogeny (dī-koj'e-ni), n. [Gr. δίχα, in two, + -γενής, -producing.] The normal develop-+ -γενής, -producing.] The normal development of cells and tissues in an organism in different ways, in accordance with normal changes in the conditions to which they are exposed.

Dichograptus (dī-kō-grap'tus). n. [NL., < Gr $\delta \iota_{\lambda} a$, in two, + $\gamma \rho a \pi \tau \delta c$, written, engraved (see graptolite).] A genus of Silurian graptolites in which the hydrosome consists of 8 simple monoprionidian arms originating from

the funicle, the latter enveloped in a circular disk. dichophyllotriæne (dī-kō-fil-ō-trī'ēn), u.

diχa, in two, + φιλλον, leaf, + τρίαινα, trident.] In the nomenclature of the spicular elements

of sponges, a phyllotriane in which the flat-tened cladisks are forked. dichopterous (dī-kop'ter-us), a. [Gr. δίχα, in

unenopuerous (αI-κορ ter-us), a. [Gr. δίχα, in two, + περόν, wing.] In entom., having out or emarginate wings. Syd. Soc. Lex. dichoptic (dī-kop'tik), a. [Gr. δίχα, in two, + E. optic.] Having the eyes distinctly separated, not joined together above, as with many insects. Opposed to *holoptic. Cambridge Nat. Hist., VI. 440.

Hist., VI. 440. Dichorisandra (dī kō-rī-san drā), n. [NL. (Mikan, 1820), irreg. \langle Gr. $\delta \epsilon$, two, $+ \chi \omega \rho i \xi \epsilon v$, separate, $+ \dot{\alpha} v \dot{\gamma} \rho$ ($\dot{\alpha} v \dot{\delta} \rho$ -), a male (anther).] A genus of plants of the family Commelinaceæ. There are about 30 species, natives of tropical America, some of which are grown in choice glass-houses for their striking habit and foliage. The flowers, usually not very showy individually, are blue, and grow in large panicle-like clusters. The best-known species in cultivation is D. thyrsifora from Brazil. It has large lancolate green leaves. Another horticultural favorite is D. mosaica; it has variegated foliage.

dichost (di'kost), n. [Gr. δίχα, in two, + δστέοι, bone.] In ichth., a bone anterior to the bones above the myodome; the basisphenoid. It is very improbable that the bone named basisphenoid in fishea is the homologue of the basisphenoid of the higher vertebrates. T. Gill.

dichotic (di-kot'ik). a. [Gr. $\delta(\chi a)$, in two, + $\delta(\chi a)$ or $\delta(\omega \tau)$, ear, + $\delta(x)$.] Involving the use of both ears for the simultaneous hearing of tones of different pitch: opposed to diotic: as, dichotic audition; a diehotic experiment.

dichotomistic (dī-kot-ō-mis'tik), a. Of or pertaining to dichotomy or dichotomists: as, the

dichotriænic (dī "ko-trī-ē'nik), a. Resembling a dichotrizene, or characterized by a possession of dichotrigues.

dichotrider (dī-kō-trī'der), n. IGr. $\delta i \gamma a$, in two, $+\tau \rho i \partial x \rho \sigma c$, three-necked (see *trider).] In the nomenclature of the spicular elements of sponges, a trider having three arms dichotomous. See *trider.

dichotypy (di'kō-ti-pi), n. [Gr. $\delta i \chi a$, in two, $+ \tau \nu \pi a$; type, $+ -y^3$.] The occurrence of two different forms of the same organ on the same

plant or stock.

dichoxytriæne (di-kok-si-tri'en), n.in two, $+ i\xi i c$, sharp, $+ \tau \rho i a v a$, trident.] In the nomenclature of the spicular elements of sponges, a dichotriene in which the divided branches are acute.

dichroiscope (dī-krō'i-skop), n. Same as di-

dichroitic (dī-krō-it'ik), a. Same as dichroic, 1. dichromat, dichromate (dī-krō'mat), n. [Gr. δι., two., + χρῶμα(τ-), color.] One who possesses only two of the three normal primary color-sensations; a red-blind or green-blind Dicranaceæ (dī-krā-nā'sē-ē), n. pl. [NL., person. The term presupposes the correctness $\langle Dicranum + -accæ.]$ A large family of acroperson. The term presupposes the correctness of the Young-Helmholtz theory of color-vision.

dichromated (dī-krō'mā-ted), a. In photog., acted on with a bichromate.

dichromic, a. 2. In opties, having the property of dichroism; dichroie.— Dichromic acid. Same as *pyrochromic acid or *anhydrochromic acid (ll2Cr2O7).

dichromism (dī'krō-mism). n. [Gr. δίχρωμος, two-colored. $\langle \delta \iota$, two-, $+ \chi \rho \tilde{\omega} \mu a$, color, + -ism.] Color-blindness as regards one of the three so called primary colors of the Young-Helmholtz theory.

by transmission through stained glass and the proportion of their admixture is regulated by a polarizing arrange-

dick-a-Tuesday (dik-a-tūz'dā), n. The ignis fatuus; will-o'-the-wisp; jack-o'-lantern. dickcissel (dik-sis'el), n. [Said to be imitative.] The black-throated bunting, Spiza american. icana, a small member of the sparrow family. It is abundant in many parts of the eastern United States, ranging west to Nebraska and south to Arizona. The male has a black patch on the throat and some yellow markings, but the general color above is grayish brown. See Spiza, with cut

Dickensesque (dik"enz-esk'), a. Resembling or peculiar to the style of Charles Dickens, the novelist.

Dickensian (di-ken'zi-an), a. Of or pertaining to Charles Dickens, the novelist (1812-70), or to his writings or style: as, *Dickensian* char-

Dickensiana (dik "enz-i-ā'nā), n. pl. [Dickens +-i-+-ana.] Coltections of sayings, anecdotes, relies, manuscripts, books, editions, works, etc., relating to or connected in any way with Charles Dickens, the novelist.

An inportant Dickena Exhibition will he held at the Memorial Ilall, Farringdon Street, on March 25th, 26th, and 27th, under the auspices of the Dickens Fellowship. This is the first exhibition of Dickensiana ever held in London.

Athenæum, Feb. 21, 1903, p. 243.

dickpfennig (dik'pfen"ig), n. [G., 'thick penny.'] A billon coin of Strassburg in Alsace in the seventeenth and eighteenth centuries, equal to 6 batzen.

Dicksonieæ (dik-sō-nī'ē-ē), n. pl. [NL., < Dicksonia + -eæ.] One of the three tribes com-Dicksonia + -eæ.] One of the three tribes comprising the family of ferns Cyathcaceæ. It is distinguished from the other two by having the indusium extrorse and formed at least in part by the more or less modified opposed leaf-segment, and further by having the ring of the sporangium provided with a stomium of thinner cells. It includes among others the important genera Cibotium and Dicksonia. See ★Cyathcaceæ.

dickthaler (dik'tā''ler), m. [G., 'thick dollar.']

A small and thick Austrian silver coin of the year 1484, bearing a portrait of the Archduke Sigismund.

dicky¹, n.—Dicky Sam, a nickname for a native of Liverpool, England.
dicky³ (dik'i), a. [Attrib. use of Dicky, dim.]

taining to dichotomy of the dichotomistic principle of classification.

dichotomistic principle of classification.

dichotomized (dī-kot/ō-mīzd), p. a. Divided in half: said of the moon or of one of the inferior planets at the moment when exactly half of the disk is illuminated.

The term v. n.—Bostrychoid dichotomy. Same as moder helicoid).—Law of cope as having elongated skulls with extended cope as having elongated skulls with e subrectangular orbits. The teeth are closely arranged in an alveolar groove opening inward, the successional teeth forming several teethform series. It occurs in the Cretaceous rocks and is generally regarded as aynonymous with Hadrosaurus and Trachodon.

dicelious (dī-sē'li-us), a. Same as dicelous. dicondylic (dī-kon-dil'ik), a. [Gr. δι-, two + κόνδυλος, a knob, condyle.] Same as dicondylian. [Rare.]

diconic (di-kon'ik), a. Noting an acid, a colorless compound, $C_9H_{10}O_6$, prepared by the action of concentrated hydrochloric acid on citric acid at 200° C. It forms small crystals, probably of the monoclinic system, and melts at 199-200° C.

dicot(di'kot), n. A colloquial reduction, among

botanists, of dicotyledon. dicotyl (di-kot'il), n. [Gr. $\delta \iota$ -, two-, $+ \kappa \sigma \tau i \lambda \eta$, socket (see cotyledon).] Same as dicotyledon.

The main development of the early Dicotyls and other plants constituting the best horizon markers took place in the late Jurassic. Amer. Jour. Sci., Dec., 1903, p. 416.

[Ġr. dicotyledonary (dī-kot-i-lē'don-ā-ri), a. [di-o pos- cotyledon + -aryl.] Pertaining or relating to imary dicotyledons. N. E. D.

earpous mosses of the order Bryales. It is typifed by the genus Dicranum (which see), and characterized by erect stems, awl-shaped or bristle-shaped leaves, a simple peristome of 16 teeth, and 1-celled spores. There are 48 genera, chiefly of the temperate zones (only 2 occurring in the tropies), growing in low, moist ground and forming sod or turf.

dicranobranchiate (dī-krā-nō-brang'ki-āt), a. and u. I. a. Relating to or characteristic of the Dieranobranchia, or possessing plumose

dorsal gills.

II. n. One of the Dicranobranchia. theory, dichronous, a. 2. In bot., having two periods of growth in one year. Syd. Soc. Lex. dichroscope (di-krō'ō-skōp), n. [Gr. $\delta\iota$ -, two, $+ \chi\rho\sigma$ a, color, $+ a\kappa\sigma\tau\epsilon\bar{\iota}\nu$, view.] An instrument for the blending of colors, devised by Heinrich Dove. Beams of colored light are produced light are pr

rachides. The genus is one of the most abundant of tropical ferns, often forming impassable thickets in open or half-cleared ground. The species are imperfectly known. See Gleichenia.

Dicromita (dī-krom'i-tä), n. [NL., < Gr. δίκροος,



Dicromita agassizi. (From Bull, 47 U. S. Nat. Museum.)

forked, + μίτος, thread.] A genus of deep-sea fishes of the family Brotulidæ

Dict. An abbreviation of dictionary.

Dict. An abbreviation of dictionary.

Dictæan (dik-tě'an), a. [L. Dictæus, ⟨ Gr. Δικτοίος, ⟨ Δίκτη, L. Dicte, a mountain in Crete. Cf. dictamnus and dittany.] Of or pertaining to Mt. Dicte (or Dikte) in eastern Crete, where Zeus is said to have been reared.

dictational (dik-tā'shon-al), a. [dictation + all 1]. Of or relating to dictation as dictally distance of the distance of

-all.] Of or relating to dictation: as, dictational experiences.

The popular mind . . . has retreated from its uncomfortable dictational attitude and thrown the whole matter over to the States of the South.

G. W. Cable, in The Century, Jan., 1885, p. 409.

dictative (dik-tā'tiv), a. [dietate + -ive.] Of the nature of dictation; characteristic of one who is in the habit of speaking with authority.

He uttered . . . such other dictative mandates as were necessary.

J. F. Cooper, Pioneers, xxiii.

dictatorialism (dik-tā-tō'ri-al-izm), n. [dictatorial + -ism.] The methods or manner of a dictator or dictatorial person.

Dictionary catalogue. See *catalogue. Dictyoceratina (dik"ti-ō-se-rat'i-nā), n. pl. [NL., ζ Gr. δίκτυον, a net, + κέρας (κερατ-), horn, + -ina².] One of the two orders of ceratose sponges (the other being Dendroceratina) having the spongin skeleton in the form of a network of anastomosing fibers. It includes the families Spongidæ, Spongeliidæ, and Aplysinidse.

dictyodrome (dik'ti-ō-drōm), a. [Gr. δίκτυοι, a net, + -δρομος, ζ δραμείν, run.] Netted-veined, the nerves soon disappearing in the parenehyma of the leaf. See nerration, (a) (5). dictyodromous (dik-ti-od'rō-mus), a. Same as

 \star dictuodrome

dictyoid (dik'ti-oid), a. [Gr. δικτυοειδής, net-like, δίκτυον, net, + είδος, form.] Having the form of a net; reticulate; specifically, having both longitudinal and transverse septa: applied to the spores of certain funci. Same as muriform and *fenestrate. See *Fenestella. dictyonale (dik-ti-ō-nā'lē), n.; pl. dietyonalia

(-liä). [NL., neut. of *dictyonalis, adj., irreg. ⟨Gr. δίκτυαν, a net.] In sponges, one of the parenchymal spicules which become fused to form the continuous skeletal framework of the Dictuonina.

Dictyonema, n. Thia hydrozoan genus is commonly regarded as closely allied to the Graptoloidea, but the fronds are funnel or fan-shaped and the branches connected by transverse bars or dissepiments, the theœe or cells being usually quite obscure. It is wholly fossil and rangea from the uppermost beda of the Cambrian into the Devonian.

dictyopteran (dik-ti-op'te-ran), a. and n. I. Of or belonging to the Dictyoptera. II. n. A member of the Dictyoptera.

Dictyopteris, n. 2. A genus of the Phæophyccæ, or brown algæ, separated from the other members of the family Dictyotaceæ by the presence of a midrib.

Dictyosiphon (dik'ti-ō-sī'fon), n. [NL. (Greville, 1830), from the tubular, reticulately branching thallus; < Gr. δίκτυον, a net, + σίφων, a tube.] A genus of the Phæophyceæ, or brown algæ, occurring in both the North

Atlantic and southern oceans. Seven species and varieties are found on the New England coast. Reproduction, as far as known, is only by unifocular sporangia. Dictyospongia (dik*ti-ō-spon*ji-ā), n. [NL., ζ Gr. δίκτνον, net, + σπαγγιά, sponge.] A genus of extinct hexactinellid silicious sponges, typical of the family Dictyospongidæ and characterized by its obconical form and the smooth exterior

of its reticulum. It is of Devonian age.

Dictyospongidæ (dik*ti-ō-spon'ji-dō), n. pl.
[NL., < Dictyospongia + -idæ.] A family of silicious hexactinellid sponges, comprising genera of obconical form and growing as simple individuals, in which the reticulum is principally composed of vertical and horizontal strands and the exterior is variously ornamented with nodes, tufts, and fringes. The didigonal (di-dig'ō-nal), a. family is closely allied to the living Euplectella, E. digonal. 1 in mineral., but is regarded as wholly of Paleozoic age.

Dictyosporæ (dik-ti-os'pō-rē), n. pl. [NL., Gr. δικτυον, net, + σπορά, seed (spore).] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrcnomycetes and Fungi Imperfecti, to include the genera which have spores both transversely and longitudinally septate.

Dictyotales (dik-ti-ō-tā'lêz), n. pl. [Dictyota + -ales.] An order of the Phæophyccæ or brown algae, containing the single family Dictyotaccæ (which see).

dictyotic (dik-ti-ot'ik), a. [Gr. δικτυωτός, made in net fashion, < δίκτυον, net.] Pertaining to or characteristic of a network.—Dictyotic moment, in certain Radiolaria, the period during which the skeleton is formed. Also called lorication moment. Hackel.

dicyanide (dī-sī'a-nid), n. [di-2 + cyanide.] The name of a class of compounds containing two cyanogen radicals, -CN, in the molecule. dicycle (di'si-kl), n. [Gr. δίκυκλος, two-wheeled, ζ δι-, two-, + κύκλος, circle.] A form of two-wheeled vehicle constructed on the plan of the bicycle, but with the two wheels

parallel instead of in line.

dicyclic (dī-sik'lik), a. [Gr. δίκυκλος, two-wheeled: see *dicycle.] 1. In two cycles: said of the calyx-base of the Crinoidea when there are two rings of plates between the topmost joint of the column and the first cycle of plates situated in the projection of the ambulacra or arms: contrasted with monocyclic .-Noting organic compounds the atoms of which form two closed chains, each having one or more atoms in common. Also bicyclic.

—3. In bot.: (a) Forming or disposed in two whorls, as a perianth or other series of organs. Jackson, Glossary. (b) Biennial: said of hapaxanthous herbs which require two sea-

sons to mature. Pound and Clements.

dicyclist (dī'si-klist), n. [dicycle + -ist.] One
who rides a dicycle. See *dicycle. N. E. D.
dicyemid (dis-i-em'id), n. One of the Dicy-

dicymose (di-si'mēs), a. Doubly cymose.

Apostles, an apocryphal writing discovered in a manuscript of the year 1056 at Constantinople in 1873. The date of its composition was about the end of the first century A. D. It consists of two parts, the first of general ethical teaching, the second relating to church polity and liturgy.

The metropolitan Ph. Bryennios, who discovered and edited the Didache.

Encyc. Brit., XXXI. 384.

Didachist (did'a-kist), n. The unknown author or editor of the Didache. Also called Didachographer.

Didachographer (did-a-kog'ra-fer), n. [Gr. διδαχή, teaching, + -γραφος, < γράφειν, write.] Same as *Didachist.

didascalics (did-as-kal'iks), n. Matters to be taught: subjects of teaching.

Did not the Athenians, the wisest of nations, . . . give to melopæia, choregraphy, and the sundry forms of didascalies, the precedence of all other matters, civil and military?

Peacock, Crotchet Castle, vi.

didascaly (dī -das 'ka - li), n.; pl. didascalics (-liz). [Gr. διδασκαλία, earlier περὶ διδασκαλίων, (treatise) concerning (dramatic) productions,' the word meaning teaching, and hence the rehearsing or production of a play, ζ διδάσκειν, teach.] 1. A catalogue of the ancient Greek dramas: such catalogues were prepared by Aristotle, Callimachus, Aristophanes of Byzantium, etc.. but are now lost. They contained the names of the dramas and their writers, with dates and other details .- 2. A bill or poster, hung in an ancient theater, containing a short notice of the play and per-

diddle-dee (did-1-de'), n. In the Falkland Islands, a shrub of the antarette regions, Empetrum rubrum. It is used for fuel. See Em-

didelphine (di-del'fin), a. Resembling or having the characters of the Didelphia; didelphian

Didelphis, n. Same as Didelphys and the pre-ferred (though erroneous) form, under the rule of priority.

didelphous (di-del'fus), a. Resembling or having the characters of the Didelphia or Marsupialia.

[Gr. di-, two-. + E. digonal. 1 In mineral., noting a type of symmetry characterized by a dyad axis (that is, one of two-fold symmetry) in which two planes of symmetry intersect. See *symmetry. di-diurnal (di-di-èr'nal), a. [di-2 + diurnal.] Twice a day: as a di-diurnal visit, N. E. D. didle (di'di), n. [Also didal, didall, dydle, dydel.] 1. A triangular spade used for ditching.

A sickle to cut with, a didall and erome for draining of ditches, that noies thee at home,

Tusser, Good Husbandrie, p. 38.

A scoop or dredge on the end of a long pole, used for clearing watercourses or channels [Prov. Eng. in both uses.]

didodecahedron (dī-dō/dek-a-hē/dron), n. [di-2+ dodecahedron.] A diploid.
didonia (dī-dō/ni-ij), n. [NL., < l. Dida (Di-don-), Dido. The allusion is to her trick with the hide: see dido.] Of the isoperimetric curves on a given surface, that one which contains the maximum area.

didromic (dī-drō'mik), a. [didrom-y + -ic.]
Doubly twisted, as the awns of some grasses. didromy (did 'rō-mi), n. [Gr. δι-, two-, + -δρομος ⟨ δραμεῖν, run, + -y³.] In bot., double torsion.

diductor (di-duk'tor), n. [NL., \langle L. diducere, draw apart, \langle di-, apart, + ducere, draw.] In the articulate orders of the Brachiopoda, one of a pair of muscles which by contraction open the pair of muscles which by contraction open the valves. These muscles originate in a broad base on the anterior part of the muscular area of the ventral valve and are inserted on the cardinal process of the dorsal valve. There is also a pair of small accessory diductors inserted on the cardinal process and originating on the posterior part of the ventral muscular area.

Didymæa (did-i-mē'ā), n. pl. [NL., < Gr. Διδυμαια, neut. pl. of Διδυμαῖας, a name of Zeus, < Δίδυμα, Didyma, near Miletus.] In Gr. antiq., a festival in honor of Zeus and Apollo held at Didyma near Miletus in Asia Minor: known

mæa.] A temple or shrine sacred to Zeus and A pello at Didyma, near Miletus. There was a sacred way leading to it which was built for an earlier temple on the site, and which was bordered by a series of archaic seated figures now in the British Muscum. The later building, of which remains still exist, probably dates from about 334 B. C. It was dipteral, with the cella open to the site. to the sky

didymalgia (did-i-mal'ji-ä), n. [NL., ζ Gr. δίθυμοι, the testicles, + ἀλγος, pain.] Pain iu

the testicle.

Didymaspis (did-i-mas'pis), n. [NL., ζ Gr. διάνμος, double, + ἀσπίς, a shield.] A genus of fossil fishes from the Old Red Sandstone, having a cephalic shield in two pieces and no cornua at the sides

didymate, didymated (did'i-māt, -mā-ted), a. Same as didymons. [Rare.] didymia (dī-dim'i-ā), n. [NL., < didymium.] In chem., didymium oxid.

Didymitidæ (did-i-mit'i-dē), n. pl. [NL., < Didymites + -idæ.] A family of Triassic ammonites with globose conchs having broad bifid sutural saddles.

nd sutural saddles, didymitis (did-i-mī'tis), n. [NL., \langle Gr. $\delta i \delta v$ - $\mu \alpha$, testicles, + -i t i s.] Same as orchitis. didymoclone (dī-dim'ō-klōn), n. [Gr. $\delta i \delta v \mu \alpha$, twin, + $\kappa \lambda \omega v$, a twig.] In the nomenclature of the spicular elements of sponges, a short straight spicule with thickened ends bearing forked branches.

didymoid (did'i-moid), a. [Gr. δίδυμος, twin, + είδος, form.] Having two (twin) cells: applied to the spores of certain fungi.

Others [spores] by a cross-partition become twin or 2-celled (didynoid); others by further parallel cross-partitions become a row of cells (phragmoid).

Underwood, Moulds, Mildews and Mushrooms, lil.

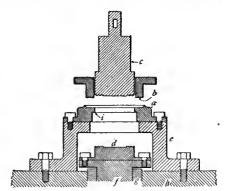
Didymozoön (did"i-mō-zō'on), n. [NL., \langle Gr. $\delta i\delta v_{\mu \nu \rho c}$, twin, + [$\chi \bar{\phi} ov$, animal.] The typical genus of the family Didymozoönidx. Taschenberg, 1879.

Didymozoönidæ (did "i-mō-zō-on'i-dē), n. pl. [NL., \ Didymozoon + -idæ.] A family of trematoid Platyhelminthes, of the order Malacocotylea (or Dignera). They have an anterior sucker only, mouth within the sucker, and the genital pore terminal, in front of the oral sucker. The worms are hermaphroditic and live in pairs in cysts. They are found on the integument or in the month and branchial cavity of marine fishes. The family includes the genera Didymozona and Nematobothrium.

die3, n. 9. A hard-metal former or workingface for shaping, cutting, or impressing: usually used in pairs. See defs. 5 and 6. Specifically -(a) One of a pair of formers, each with an intaglio

die-back

design, between which is introduced the blank of a coin or medal, and by which, under pressure, a relief is stamped on both sides of the blank. (b) One of a pair of formers on one of which is an intaglio and on the other the complementary cameo. When a sheet of metal is placed hetween them, the common design is pressed when the dies come together. (c) One of a pair of formers in each of which one half the desired design is incised as an intaglio. The stock to be shaped is introduced between them, and when the dies are brought together, the shape and design are impressed upon the stock. This process of dieforging of stock is in very wide use for the parts of guns, sewing-machines, wrenches, bicycles, and manufactured articles generally. The pressure is secured by the droppress and the fall of a tap or hammer carrying the upper die on its face. (d) One of a pair of formers for stamping spoons, tinware, or brass from the sheet, cutting the blank from the stock, and modling it in one or more operations. Such dies are often quite complex, and involve drawing the metal and stripping it from the female die after forming. (c) A surface or anvil to support the stock against the blow and shearing action of a ponch, and to allow the punch to pass into a hole or recess in it after the shear is completed. Such dies must have the hole citting-edge and the complementary recess for cutting soles, uppers, or cards of irregular shape. (g) A hardened steel roller, engraved with a design in intaglio, used to raise the pattern on the blank by rolling it under pressure. (h) The acting face of a power-hammer, even if smooth. Die-forging for articles to be made in large quantities has practically replaced hand-forging in the United States.—Blanking and perforating diea. Same a double-action *diea. Combination and double-action main adopted *diea.—Combination and double-action m



a, the lower die; b, the upper cutting and holding die; r, the inner drawing die; a, the embossing die rising on plunger, through sleeve p, and meeting die e; e, supporting bolster; r, stripping-edge; r, bed of press.

ing the upper die in two parts moving independently and, in addition, a third die moving upward through the fixed lower die.

die³, v. t.—Dieing-out machine, in shoe-manuf. a power-machine for stamping out, by means of dies, leather to form the soles or other parts of boots and shoes. It is essentially a stamping-press with a cutting or shaping die and a wooden block on which the leather stock is placed to be cut.

die-back (di'bak), n. A disease of the orangetree and other citrous fruits, limited to Florida.

The exact cause is unknown, but it is probably due to malnutrition or the excessive use of nitrogenous ferti-

Dieh alt. An abbreviation of the Latin dichus alternis, every other day.

die-block (di'blok), n. A heavy block of castiron which supports the die in a press or punch. The heavier such a block is made, the better it takes up the shock when the punch strikes

Dieb. tert. An abbreviation of the Latin die-

bus tertils, every third day.
die-chuck (di'chuk), n. A chuck for holding work that is to be turned or bored in a lathe. work that is to be turned or bored in a ratio, it consists of a disk having two or more radial slots, in which steel jaws slide, the sliding motion being imparted by screws which can either be worked independently or together, so that the work can be chucked centrally or eccentrically.

diectasis (dī-ek'tā-sis), n. [NL., < Gr. διέκτασις, a stretching, $\langle \delta_{\ell\bar{\nu}\kappa\tau\bar{\nu}i\nu\bar{\nu}\nu}$, stretch, $\langle \delta_{\ell\bar{a}}$, through, + έκτεινειν, stretch: see ectasis.] In pros., lengthening by the insertion of a syllable. See cctasis.

From the scientific point of view there is, of course, not a word to be said in favour of such grammatical monsters as έης aud ἐραασθε. But it is perfectly easy to see how they arose from a misunderstanding of the 'Epic diectasis.'

Athenæum, Dec. 29, 1894, p. 884.

die-forging (di'for"jing), n. The process of forging metal parts in dies; drop-forging. rorging metal parts in dies; drop-forging. It is done by means of a die, made usually in two pieces, which is fastened in a hammer or press. In one part of the die a piece of hot metal is placed, which is squeezed into the shape of the die when the latter is closed. Forgings which are to be duplicated many times are usually made by this process. See ★div3.

die-hole (di'hōl), u. The hole in a punching or downing die to the part of the part of the punching or downing die.

or drawing die. In ponching the die-hole must be large enough to admit the punch and leave a little clearance; in drawing, it must admit the punch and the material which is being worked.

dieidism (dī-īd'izm), n. [Gr. $\delta\iota$ -, two-, $+ \varepsilon i\delta o \varsigma$, form, + -ism.] The assumption of two different forms during successive stages in the life-history of an organism. Sir J. Lubbock, 1874.

Dielasma (dī-ē-las'mā), n. [Gr. δι-, double, + ελασμα, a metal plate.] A genus of Paleozoie terebratuloid Brachiopoda having a short brachial loop and a long free hinge-plate which carries the muscles of the dorsal valve.

Dielectric constant, hysteresis, strength. See *constant, *hysteresis, disruptive *strength, dielectrically (di-ê-lek'tri-kal-i), adv. By dielectric action: as, dielectrically polarized bodies.

die-nut (di'nut), n. A square nut of hardened steel, in which grooves are cut as in a die, which is used for cleaning the threads of bolts or studs which have been damaged.

die-plate (di'plat), n. In steam- or gas-fitting,

a screw-plate; a screw-entting die.

dieresilia (di"er-ē-sil'i-ā), n. [Irreg. ⟨ Gr. διαίρειν, to separate, divide, + L. sili(qua), pod.] Same as carcerule (b). Mirbel. dieresilian (di-er-ë-sil'i-an), a. [dieresilia

+-an.] Of or pertaining to a diereselia. dieresis, n. 5. In crustaceans, the division in the onter branch of the last pleopods.

Dies Iræ (di'ez i're). Day of Wrath: the opening words, and hence the name, of a celebrated Latin hymn of the middle ages. It was probably written by Thomas of Celano in the thirteenth century. The Roman Catholic Church still uses it in the funeral service.

Diestian group. See *group1.

iet1, n.—Tufnell diet, a diet containing very little liquid or succulent food.

diethene (dī-eth'ēn), a. $\int di^{-2} + eth(yl) +$ ene.] Containing two ethylene groups: as, dicthene diamine, NH < CH₂CH₂ > NH.

diethenic (di-e-then'ik), a. Same as *diethene.

— Diethenic alcohol. Same as diethene **glycol, Cll₂
Oll.Cll₂.O.Cll₂Cll₂Oll.

dietheroscope (dî-ē-ther'ō-skōp), n. [Gr. $\delta \iota$ -, two-, $+ ai \dot{m} \rho$, ether, $+ \sigma \kappa o \pi \epsilon \dot{\iota} \nu$, view.] An apparatus adapted to the accurate measurement of the refractions that occur in mirage. ment of the retractions that occur in mirage. It consists of a telescope within which inirors, or total reflecting prisms, or additional lenses, are so arranged as to cause two images of any object to appear in the field of view. When used without the telescope the dictheroscope can be arranged as a dipleidoscope or sun-dial; the two images of the sun overlap each other and coincide when the sun centers on the meridian.

diethyl (dī-eth'il), n. $\lceil di^{-2} + ethyl. \rceil$ 1, Same as butane. -2. A combining form used to indicate the presence of two ethyl radicals in the molecule of an organic compound.

diethylamine (di-eth-il-am'in), n. [di-2 + ethyl + amine.] A colorless inflammable

liquid, (C₂II₅)₂NII, prepared by the action of ammonia on ethyl iodide and formed during the putrefaction of fish. It melts at -40° C., boils at 55.5° C., and forms salts with acids similar to those of ammonia.

dietzeite (dēt'sē-īt), n. [Named for A. Dietze, who first described it.] A mineral consisting of the iodate and chromate of calcium, occurring in yellow prismatic crystals and fibrous masses: found in the soda-nitrate deposits of Atacama.

An abbreviation of difference, different, diff. or differs.

or differes.
difference, n.—Contact difference of potential.
See *potential.—Difference hypothesis, in psychophys., the hypothesis that equal stimulus ratios correspond to equal sensation differences. As an interpretation of the facts of Weber's law, the difference hypothesis is opposed to the ratio hypothesis, which makes equal stimulus ratios correspond to equal sensation ratios.—Difference limen, differential limen; in psychophys., the just noticeable stimulus difference; the increment of stimulus which, if all errors of observation were ruled out, would be sufficient to make the resulting sensation just different, with maximal attention, from the original sensation; or the increment of stimulus which, under ordinary conditions of observation after elimination of constant errors, enables the two sensations to be distinguished in 50 per cent. of a large number of comparisons.

With an area of contact of 1 min. diameter, the appearance timen on the index flager of the right hand was $\frac{1}{15}$ to $\frac{3}{20}$. O. Knelpe (trans.), Outlines of Psychol., p. 160. Difference of potential. (b) In a social population, more or less capacity for progress, "manifested chiefly in With an area of contact of 1 mm. diameter, the difnore or less capacity for progress, "manifested chiefly in the crossing of cultures."—Frequency difference, in phys., the numerical quantity obtained by subtracting one frequency of vibration, such as that belonging to a given wave-length in a line spectrum, from another.— Method of just noticeable differences, method of least differences, method of minimal differences, in psychophys., one of the four classical methods of sensation measurement. In its later and more perfect forms the method is usually known as the method of minimal changes or as the method of limits. The essential feature of the procedure is that one stimulus is kept constant, while another, taken at first as sensibly like or sensibly different from the standard, is varied by minimal steps until a judgment of difference or of lapse of difference is attained. O. Kwelpe (trans.), Outlines of Psychol., p. 57.—Phase difference, in elect., the difference in time or in angle, when representing a cycle by 360 degrees, between two electric waves, as an alternating current and electromotive force.—Resting difference, an electromotive wave-length in a line spectrum, from another two electric waves, as an alternating current and electromotive force.—Resting difference, an electromotive
current which is found to exist on comparing the crosssection of a nerve with its longitudinal section. Also
called nerve current and demarcation current.—Second
differences, in math., the differences between successive
terms of a series of first differences. In the same way the
differences between the second differences give third differences, and so on.

Thus we may say that unity which appears in the first column is the first difference of the numbers in the second column; the second difference of those in the third column; the third difference of those in the fourth, and so on. Jevons, Prin. of Science, I. ii. 9.

To split the difference, to come to agreement by compromise, the difference between the two parties being divided equally; give and take equally in coming to an agreement

difference-tone (dif'e-rens-tōn), n. A third tone set up by the sounding of two simple tones, whose pitch-number is the difference between the pitch-numbers of the two primary tones, or between some multiples of these pitch-numbers; one of the two forms of combinational tene.-First difference-tone, in acousbinational tene.—First difference-tone, in accoustics, a combinational tone produced by the simultaneous sounding of two musical tones which differ in pitch. It has a frequency, f, expressed by the formula: f = u - l, where u is the frequency of the higher and l of the lower of the two tones.—Second difference-tone, in accustics, a difference-tone having a frequency f = 2l - u, where l and u are the frequencies of the lower and upper tones producing the combination.

differentiability (dif-e-ren shi-a-bil'i-ti), n. The property of being differentiable.

differentiable, a. 2. In math., having a determinate finite or determinate infinite deriva-

differential. I. a. 4. In mech.: (a) So constructed that the resulting motion is the algebraic sum of two unequal motions in opposite directions. The resistance moves through a path which is the difference of two velocities impressed by the applied force. Hence a slow motion of the resistance is the consequence of the moving force acting through a considerable space, and a small moving force overcomes great resistance. Used in hoisting-pulleys, double screws, and similar devices.

(b) Having differing velocities, as automobile driving-shafts when rounding corners and curves, and rollers for grinding grain. - 5. Selective; having different effects upon different kinds of material: as, differential weathering.

The facts collected pointed to the conclusion that this type of valley was due to differential preglacial decay.

Geog. Jour. (R. G. S.), XV. 652.

Differential brake, count, counter-shaft, etc. See *brake*, *count1, *counter-shaft, etc. — Differential winding. (b) A winding consisting of two sections, which are excited by two different currents, as a shunt

and a series current, in such a manner that their magnetic effects are in directions opposite to each other. → Exact differential equation. See ★equation.

Exact differential equation. See *equation.

II. n.—Differential of a function the increment of a function so changed or 'doctored' that its ratio to the increment of the independent variable equals the limit of the ratio of the unchanged increments.—Exact differential. If $\delta M/\delta x = \delta N/\delta y$, then Mdy + Ndz is an exact differential.—Second differential. Since the differential of a function is, from its definition, usually a new function of the independent variable, its differential may be taken, and is called the *econd differential.* The second differential of y is written d^2y . In the same way we get the third differential, d^3y ; etc.

differentiant, n. II. a. Of or pertaining to a discontinuous variation, sport, mutation, or inherited change in the type of a race or species.

Of course Mr. Bateson may say that there is really differentiation there; it is he, however, who identifies "differentiant" diversity and "discontinuous variation."

Biometrika, April, 1903, p. 332.

Differentiant variation. See *variation. differentiate, v. t. 5. In hist, and cytol., to reveal or resolve structures in (a cell, tissue, or organ) by treating with some stain or reagent.

differentiation, n. 5. In geol., the general process by which a parent mass of molten rock of intermediate composition, standing in a reservoir for long periods of time, breaks up or differentiates into several fractional derivaor differentiates into several fractional deriva-tives both more acidic and more basic. While the process is obscure and inadequately understood, it accounts for the contrasted lavas which often come from the same eruptive center at different times. Geikie, Text-book of Geol., p. 710.—Induced differentiation, in biol., the opinion that the process of cell-multiplication and divergent specialization which takes place during the development of the organism, and to which its char-acteristics of form and structure are due, is the effect of the conditions under which the development takes place: as contrasted with the opinion that it is innate or inherent in the constitution, organization, or architecture of the as contrasted with the opinion that it is innate or inherent in the constitution, organization, or architecture of the egg. See inherent *development and *innate, 3.—Inherent differentiation, in biol., the process of cell-multiplication and divergent specialization which takes place during the development of the organism, and to which its characteristics of form and structure are due, regarded as the effect of the constitution, organization, or architecture of the egg. See induced *differentiation, induced *development, inherent *development.—Law of differentiation, the law, formulated by Herbert Spencer, that society in its evolution, like the cosmos and the living organism, passes from the homogeneous to the heterogeneous.—Logarithmic differentiation, the method of passing to logarithms before differentiating.—Magmatic differentiation, the differentiation of molten masses of rock, which are technically called magmas. See *differentiation, the presence, in an egg or embryo, of latent or imperceptible masses of rock, which are technically called magmas. See *differentiation, 5.— Precoclous differentiation, the presence, in an egg or embryo, of latent or imperceptible organization before it exhibits visible organization.

[ML. diffidadiffidation (dif-i-dā'shon), n. liffidation (dif-i-dā'shon), n. [ML. diffidatio(n-), \langle diffidare, reneunce, defy: see defy.] Formal relinquishment or renunciation of faith, allegiance, or amity: solemn defiance of an enemy; declaration of hostilities: as, to send a letter of diffidation.

The primeval legislation of the Teutons permitted to be vassal . . . the right of diffidation—he might undo

Sir F. Palgrave, Hist. of Normandy and Eng., II. i.

Sir F. Palgrave, Hist. of Normandy and Eng., II. i.

Diffraction band. See diffraction.—Diffraction corona, glory, halo, meteorological phenomena caused by diffraction of light, as distinguished from similar phenomena which may be caused by reflection, refraction, or dispersion. The diffraction circles that occur in coronas, glories, and halos have small diameters and are much closer together than those due to reflection and dispersion; moreover, in the former the red circles are within the hine, while in the latter they are outside of the blue.

Diffuse reflection. See *reflection.

diffuser, n. 2. In elect., a reflector placed above an arc-lamp

above an arc-lamp

for the purpose of more uniformly distributing its light.

—Concentric dfffuser, a diffuser containing a number of concentric rings or waves,
shaped so as to distribute the light uniformly over the lower
hemisphere, and enameled with a color tinged
slightly yellow, so as to
compensate for the bluish light of the arc.
diffuser - chamber tributing its light.

-Concentric dif-



diffuser - chamber (di-fū'zer-ehām"ber), n. A box or chamber in which a spray of water, oil, or other liquid

is spread out into very fine particles.

diffusibility, n. 2. Capability of spreading widely: as, the diffusibility of scarlet fever.

widely: as, the adjustantly of scariet lever. diffusion, n.— Anodal diffusion, dialysis effected by means of galvanism.— Coefficient of diffusion. See *coefficient.— Diffusion constant. See *constant.— Diffusion process, an important method of extracting sugar in aqueous solution from beet-roots cut into slices: sometimes applied also to sugar-cane.— Fractional diffusion. Same as atmobysis.— Law of diffusion. (a) In phys., the law, formulated by Fick, that in a mixture

of salt and water, so distributed that the layers of equal density are horizontal, the number of grams of salt which will pass in unit time through unit area of a horizontal plane is $R\frac{dn}{dx}$; where n is the number of grams of salt per

cubic centimeter in the layer in which the plane is located, x is the height (above a fixed plane) of the layer, and R is a constant called the diffusicity. (b) In psychol., the law, formulated by A. Bain, that "according as an impression is accompanied with feeling, the aroused currents diffuse themselves freely over the brain, leading to a general agitation of the moving organs, as well as affecting the viscera." Emotions and Will, p. 4.—Thermal diffusion. See diffusion of heat, under diffusion.

diffusionist (di-fū'zhon-1st), n. One who believes or adheres to some theory of diffusion, as the diffusion of taxes (which see, under diffusion).

diffusivity, n. 2. Specifically, in phys., a phys**diffusivity**, n. 2. Specifically, in pugs., a prevalual constant expressing the rate of diffusion of a dissolved substance in the solvent. The diffusivity (R) is defined by the equation: $a = R \frac{dn}{dx}$, in

which a is the number of grams of the dissolved substance which will pass in unit time through unit area of a horizontal plane, a the number of grams of the substance per cubic centimeter of the layer in which the plane lies, and x is the height of the layer shove a fixed plane. Horizontal layers in the solution are everywhere of equal density of the layer shows a fixed plane.

sity.—Thermal diffusivity, the quantity $\frac{k}{cp}$, in which kis the conductivity for heat of the substance, c its specific heat, and p the density. Also called thermometric conductivity.

dig-dig (dig'dig), n. Same as *dik-dik. digeny (dij'e-ni), n. Digenous reproduction. Syd. Soc. Lex.

digestant (di-jes'tant), a. and n. [digest + -anti] I. a. Aiding or improving digestion.
II. n. An agent used to promote digestion.
digesting-flask (di-jes'ting-flask), n. In chem.

and baeteriol., a flask used to contain liquids which are to be maintained at a desired temperature for a longer or shorter time.

perature for a longer or shorter time.

Digestion products, (a) The products of albuminous adjection. The first step in the process of proteolytic digestion depends upon the reaction of the digestive medium. If this is ackl, ackl albumin results; If it is alkaline, alkaline albuminate results. Coincidently the denaturization of the albuminous molecule is effected, whereby the Individual physical characteristics of the different members of the group are destroyed. This is followed by the formation of albumoses, of which two classes are recognized, namely, primary and secondary forms. Conjointly the albumosea may be viewed as cleavage-products of the original albumins, and some of their characteristics no doubt are referable to the smaller size of the molecule. As a class they are much more soluble than the albumins, and some members of the group are not altogether indiffusible. moses may be viewed as cleavage-products of the original albumins, and some of their characteristics no doubt are referable to the smaller size of the molecule. As a class they are much more soluble than the albumins, and some members of the group are not altogether indiffusible. Three primary products are recognized, namely, a heteroalbumose, a proto-albumose, and a gluco-albumose. The first mentioned is an antibody (in the sense of Kühne), the second a hemibody; the third is an exclusive carrier of the carbohydrate group. The secondary products, or deuteroalbumoses, result from the primary forms on further digestion, and are divided into three groups, according to their behavior toward animonium sulphate. These are termed the deuterofroction A, B, and C. Of these A and B arc composed of at least two albumoses each. One member of the A fraction is known as thic-albumose, from the large amount of sulphur which it contains. As regards the subsequent fate of the albumoses, it was formerly thought that peptic digestion led to an end-product, a peptone, in which the hemi- and anti-groups of the albuminous molecule were still united (Kühne's amphoperbone), while on tryptic digestion this complex was broken down, with the formation of hemipeptone and antipeptone. The hemipeptone was further decomposed by trypsin into leuch, tyrosin, and other crystalline product; but as a matter of fact the substance itself has thus far had only a hypothetical existence. Kühne's anti-peptone, on the other hand, could be isolated apparently as a chemical unity. It can be obtained from a mixture of digestive products, after removal of the soluble slbmmins and slbuminates and after salting out the albumoses with ammonium sulphate in neutral, acid, and ammonical solution, by precipitation with sboulte alcohol. The investigation of this anti-peptone within recent years has shown that the substance is not a unity, however, but a mixture of different products, some of which still give the birret reaction (peptones), while others are further

such as Siegfried's kyrin, obtained from glutin, which apparently consists of one molecule of arginin, one of lysin, one of glutaminic acid, and two of glycocoll. Whileformerly only two proteolytic fernments were known to be concerned in the digestion of albumins, Cohnheim has recently shown that a third fernment of this order is found in the mucous membrane of the intestinal tract. This is known as erepsin. In its general behavior and the rapidity of its cleavage-action this fernment resembles trypsin, but it differs from this in its inability to attack the native albumins, while acid albumins and albumoses are readily broken down to end-products which no longer give the binret reaction. All these data suggest that the older concept of the restitution of the albumins from relatively complex bodies in the intestinal uncous membrane must be abandoned and that the reconstruction of the molecule takes place from much simpler badies. Where this occurs is as yet a matter of speculation, but there are reasons to believe that it may take place beyond the intestinal barrier, and possibly in the tissues of the body at large. (b) The products of carbohydrate digestron. Carbohydrate digestron is effected by the inverting ferments of the saliva, the panereatic pince, and the enteric juice. The effect is quite analogous to what occurs in the case of the albumins, that is, there is a cleavage of the more complex bodies to relatively simple substances. The number of these end-products, owing to the smaller size of the molecule of the original material, is, however, much smaller, and all belong to one group, the monosaccharides, of which dextrose (plucose) and levulose are familiar examples. These are derived from corresponding disaccharides, which can be compared to the dispetides, and in which two monosaccharides, which be intermediary formation of bodies which are comparable to the sibumoses. Starch, which is the most important foodstuff belonging to this order, is thus first transformed into erythrodextrine, this into achr

369

Digestive pocket, digestive sac, in bot., an investment of the secondary rootlets which pass through the primary root to the exterior.—Digestive fever. See *fever1.

digger, n. 4. One who digs for gold; a gold-miner. [Australia.]

diggerdom (dig'er-dum), n. Gold-diggers col-

digging, n.—Bar diggings, gold-washing claims on a bar or shallow bank in a river.

digital. I. a .- Digital variation. See *variation. II. n. 4. One of those primaries, or quillfeathers, most commonly four in number, which are attached to the phalanges of the second and third digits of a bird's wing.

digitaleın (dig-i-ta'/e-in), n. [digitales + -e-in².] A colorless glucoside, C₂₂II₃₈O₉, contained in the leaves of Digitalis purpuren and D. lutea. It forms rounded microscopic granules and is nareotic in its physiological action.

digitalinic (dij"i-ta-lin'ik), a. [digitalin + -ic.] Derived from digitalin.— Digitalinic acid, a color-less crystalline compound, said to be formed by boiling digitalin with sodium hydroxid.

digitally (dij'i-tal-i), adv. With, or by means

of, the fingers; with respect to the fingers. digitate-pinnate (dij'i-tāt-pin'āt), a. Digitate with pinnate leaflets, as the sensitive plant.

digitation, n. 3. Finger-action; use of the fingers; fingering; manipulation with the fingers

digitato-pinnate (dij"i-tā-tō-pin'āt), a. Same as digitately pinnate (which see, under digitately).

digitigrady (dij'i-ti-grā-di), n. [As digitigrade + -y³.] The state or condition of being digi-+ -y3.] The state or condition of being digitigrade or of walking on the toes, as do cats and dogs; digitigradism: contrasted *plantigrady.
digitin (dij'i-tin), n. [digit(alis) + -in².] An

inert crystalline constituent of the leaves of the foxglove, Digitalis purpurea.

digitinervate (dij"i-ti-ner vāt), a. [L. digitus, finger, + nervum, nerve, + -ate1.] Same as digitinerved.

digitinervous (dij"i-ti-nėr'vus), a. Same as digitinerred.

digitipartite (dij"i-ti-pär'tīt), a. [L. digitus, finger, + partitus, parted.] In bot., digitately parted. See digitate, 1, and parted. 3. digitipinnate (dij"i-ti-pin'āt), a. [L. digitus,

finger, + pinnatus, pinnate.] Same as digitately pinnate (which see, under digitately). digitogenin (dij-i-toj'e-nin), n. [digit(alis) + -gen + -in².] A colorless compound, $C_{15}H_{24}O_{3}$, formed by the action of dilute hydrochloric acid on commercial digitalin. It erystallizes in needles which soften at about 250° C.

digitonin (dij-i-tō'nin), n. [digit(alis) + -one

+ -in².] A colorless levorotatory glucoside, C₂₇H₄₆O₁₄5H₂O, found in commercial digi-It crystallizes in slender needles which

soften and turn vellow at 235° C.

digitophyllin (dij*i-tō-fil'in), n. [digit(alis) + Gr. φικλον, lent, + -in².] A crystalline glucoside, C₂₂H₅₂O₁₀, a powerful heart-poisou contained in foxglove, Digitalis purpurea.

digitoplantar (dij'i-tō-plan'tār), a. [L. digitus, finger, toe, + planta, sole.] Relating to the sole of the foot and to the toes.

digitoxigenin (dij-i-tok'si-je-nin), n. itox(in) + -gen + -in².] A colorless crystalline compound, $C_{22}H_{52}O_4$, formed by the action of alcoholic hydrochlorie acid on digitoxin. melts at 230° C.

digitoxose (dij-i-tok'sōs), n. [diyitox(in) + -ose.] A colorless dextrorotatory sugar, $C_6H_{12}O_6$, formed, together with digitoxigenin, by the action of alcoholic hydrochloric acid on digitoxin. It crystallizes in prisms or plates and melts at 102° C.

diglossia (di-glos'i-ä), n. [NL., \langle Gr. δίγλωσσος, two-tongued, \langle δι-, two-, + γλῶσσα, tongue.] A condition of having a double tongue.

diglottism (dī-glot'izm), n. [diglot + -ism.] The use of two languages among a people, or of words derived from two languages.

Words run much in couples, the one being English and the other French. . . . In the following . . . from [Chaucer's] Prologue, there are two of these diglottisms in a single line: theother French.

'Trouthe and honour, fredom and curteisye.
'Trouthe 'is 'honour,' and 'fredom 'is 'curteisye.'

J. Earle, Philol. Eng. Tongue, ¶ 78.

diglottist (dī-glot'ist), n. One who speaks two languages.

diglyoxaline (dī-glī-ok'sa-lin), u. Same as

diglyphic (dī-glif'ik), a. [Gr. $\delta\iota$ -, two-, + $\gamma \lambda \nu \phi \eta$, a carving, + -ic.] Having two siphono-

glyphs, as certain polyps: contrasted with *monoglyphie. dignathus (dig'na-thus), n.; pl. dignathi (-thi).

[NL, \langle Gr. \(\delta \), two-, + \(\gamma \) ra\(\delta \) conster having a double lower jaw.

dignitarial (dig-ni-t\(\delta' \) ri-al), \(a. \) [dignitary + -al^1.] Of, belonging or peculiar to, a dignitary:

as, the perversity of the dignitarial mind.

digonal (dig \(\bar{0}\)-nal), a. [Gr. \(\bar{0}\)-, two-, \(\bar{1}\)\ \(\omega) wia,
angle, \(\begin{array}{c} -all. \] Noting an axis of binary or
twofold symmetry; specifically, one of the six
axes of an isometric crystal normal to the

dodeeahedral faces. See *symmetry.

Digonopora, n. pl. 2. A section of hermaphrodite mollusks in which there are separate orifices for the male and female organs; opposed to Monogonopora. It contains the Limnæ-idæ, Vaginulidæ, Onchidiidæ, and many opisthobranchs, including all the Pteropodu.

digraphic, a. 2. Written in two distinct alphabets or characters, such as longhand and shorthand: as, a digraphic copy-book.

This was a hilingual (or digraphic, as both inscriptions are in the same language), published by De Vogué.

Scribner's Monthly, June, 1880, p. 205.

digrediency (di-grē'di-en-si), n. In math., the relation of digredient sets of variables.

digredient (di-gre'di-ent), a. [L. digrediens, ppr. of digredi, digress: see digress.] In math., said of two sets of variables if on replacing the variables of the first set by linear func-tions of themselves, those of the second set become also replaced by different linear functions of themselves.

digressionary (di-gresh'on-ā-ri), a. [digression + -ary.] Of the nature of a digression; digressive.

digynious (dī-jin'i-us), a. In bot., belonging to the Digynia, in the Linnæan classification. See Digynia.

dihalogen (di-hal'ō-jen), a. [di-2 + halogen.] In elem., containing two atoms of a halogen element, replacing two atoms of hydrogen, as in diehlorbenzene, C6H4Cl2, or chlorbrom-

benzene, C₆H₄Cl Br.

dihedral, a. H. n. In geom., a pair of consecutive faces of an angloid.

dihexagonal, a. 2. In erystal., noting a type of symmetry characterized by a hexad axis

(that is, one of six-fold symmetry) in which six planes of symmetry intersect. See *sym-

dihydrate (di-hi'drāt), n. [Gr. δι-, two-, + εδωρ, water, + -atcl.] In chem., a compound containing two molecules of water, commonly

of water of crystallization. dihydrated (di-hi'dra-ted), a. In chem., con-

taining two molecules of water, commonly of water of crystallization. Thus, alabaster is dihydrated calcium sulphate, CaSO.2H2O. G.

Lunge, Sulphuric Acid, H. 21.

dihydric (di-hī'drik), a. [Gr. δι-, two-, + iδωρ dil. (iδρ-), water, + -ic.] In chem., containing two dil.

dihydrobromide (dī-hī-drō-brō'mid or-mīd), n. [di- 2 + hydro(gen) + brom(ine) + $-ide^2$.] In chem., a compound formed by union with the elements of two molecules of hydrobromic

dihydrochlorid (dī-hī-drō-klō'rid), n. [di-+hydro(gen) + chlor(inc) + -id 1.] In chem., a compound formed by union with the elements of two molecules of hydrochloric acid.

dihydrolutidin (dī-hī-drō-lū'ti-din), n. A plomaine (C₇H₁₁N) found in cod-liver oil. dihydroxy-acid (dī-hī-drok"si-as'id), n. In chem., an acid containing two combining units of the radical hydroxyl (IIO), as tartaric acid. T. E. Thorpe, Diet. Applied Chem., I. 666. dihydroxyl ($d\bar{i}$ - $h\bar{i}$ -drok 'sil), a. $[di^{-2} + hy]$

droxyl.] In chem., containing two combining units of the radical hydroxyl (HO): as, tartaric acid is a dihydroxyl acid.

dihydroxytartaric (dī-hī-drok"si-tür-tar'ik), a. [di-2 + hydr(ogen) + oxy(gen) + tartaric.] Noting an acid, a colorless crystalline compound, HOOCC(OH)₂C(OH)₂C(OH, formed by the oxidation of dihydroxymalic acid. melts at 98° C. Also dioxytartaric. diiodide (dī-ī'o-did), n. [di-2 + iodide.]

chem., a compound containing two atoms of

diiodocarbazol (di-i//o-do-kar'ba-zol), n. [di-2 + iod(ine) + carbazol.] A yellow odorless crystalline compound, $C_{12}H_6I_2.NH$, obtained by adding iodine to boiling carbazol. It is antiseptic, insoluble in water, but easily soluble

in ether, chloroform, and hot alcohol.

diiodoform (di-i'ō-dō-form), n. [di-2 + iodoform.] A bright-yellow crystalline compound,
C₂H₂I₂, obtained by the action of iodine on
acetyiene diiodide. It is an antiseptic.

diodosalol (di-1"ō-dō-sal'ol), n. [di-2 + io-d(ine) + salol.] An odorless, tasteless crystalline compound, $C_6H_2I_2(OH)CO_2C_6H_5$, obtained by condensation of diiodosalicylic acid with phenol. It is an antiseptic. Also called phenyl ester of diodosalicylic acid. diionic (dī-ī-on'ik), a. [di-2 + ion + -ic.] In

phys. chem., producing two ions by electrolytic dissociation. Physical Rev., Dec., 1904, p. 370.

disatogen (dī-is'a-tō-jen), u. [di-2 + isat(in) + -gen.] A red compound, C₁₆H₈O₄N₂, prepared by the action of sulphuric acid on dinitro-diphenyl-diacetylene. It crystallizes in needles, and is readily converted into indigo

by reducing agents. **Diisoteria** ($d\vec{v}$ i-s \vec{o} -te'ri- \ddot{a}), n. pl. [Gr. $\Delta u \sigma \omega - \tau \dot{\eta} \rho u a$, neut. pt., $\langle Z e \dot{v} \varsigma (g, \Delta \iota \dot{o} \varsigma), Z e u s, + \sigma \omega \tau \dot{\eta} \rho$, savior.] In Gr. antiq., an Attic festival held at vior.] In Gr. antiq., an Attic festival held at about the fourteenth day of the month Scirophorion (June) in honor of Zeus Soter and Athena Soteira

Dika almonds, butter. See *almond, *butter1.

dik-dik (dik'dik), n. [Also dig-dig; African.] A small African antelope, Madaqua phillipsi.

No game here at this season, except the little dik dik; all is silent and desolate. Geog. Jour. (R. G. S.), XI, 28.

dike, n.—Blue dike, a bluish-gray clay soil. [New Brunswick and Nova Scotia.] See the extract.

When and Nova rectant the upland, it [the soil] passes into a gray or bluish-gray clay called 'blue dike.'

Dawson, Acadian Geol., iii. 25.

Composite dike, in petrog., a dike formed by intrusions of two different rocks at different times into one fissure.

—Corky dike. See *corky.—Intersecting dikes, in geol., dikes which cross each other, the later one being always continuous as compared with the older one which is cut by it. See dike, 5.—Multiple dike, in geol., several parallel dikes which essentially form one whole yet are separated by intervening masses of other rock. See dike, 5.—Sand-dike, a name given by the miners in the Scottish coal-fields to a former stream-course filled with

sand.—Sandstone dike, sandstone filling a fissure and resembling an intrusive dike. The fissure is generally believed to have been formed during an earthquake and to have been filled with an uprising emulsion of sand and mud which has afterward hardened.

diketone (dī-kē'tōn), n. [di-2 + ketone.] One of a class of organic compounds the molecular distributions of the compounds the compounds the molecular distributions of the compounds the compound the compounds the compound the compounds the compound the compounds the compound the

cules of which contain two carbonyl radicals, neither of which is linked to hydrogen or hydroxyl. The diketones are subdivided, according to the degree of proximity of the earbonyl groups, into 1, 2 or a-diketones, having the complex RCOCOR; 1, 3 or \$\beta\$-diketones, RCOCH_2COR; 1, 4 or \$\gamma\$-diketones, RCOCH_2COR; etc.

An abbreviation of the Latin dilutus, dilute.

atoms of basic or easily replaceable hydrogen:
as, sulphuric acid is a dihydric acid (H₂SO₄).
althydriodide (cī-hī'dri-ō-did or -did), n. [di-2
+ hydr(ogen) + iod(inc) + ·ide!.] In chem., a
compound formed by union with the elements
of two molecules of hydriodic acid.
althydrophymide (di hid hid hid hid or mid) n.

dilute.
dilute (di-lak'tik), a. [di-2 + lactic.] 1. Of
or pertaining to dilactic acid. -2. Noting a
compound which contains two univalent lactyl
lactic acid, a hypothetical acid, in Ocochi(CH₃)Ocochi
(dill)Cll₃, known only in the form of its esters and other
dilute. or pertaining to dilactic acid.—2. Noting a compound which contains two univalent lactyl radicals, CH₃CHOHCO, in the molecule.—Dilactic acid, a hypothetical acid, HOCOCH(CH₃)OCOCH (OH)CH₃, known only in the form of its esters and other derivatives, which are obtained from ethyl chlorpropionate and ethyl sodium lactate.

dilapidation, n. 3. In eccles. law, the amount is the content of the

charged against an incumbent for damages incurred during his incumbency .- 4. In geol., the process by which exposed ledges become diminished or destroyed through the falling away of fragments of rock; also, the material broken off.

dilatant, n. 3. In phys., the liquid or gas, within a dilatometer, the expansion of which is to be measured.

ume under stress.
dilatational (dil-ā-tā'shon-al), a. Of or per-

taining to dilatation.

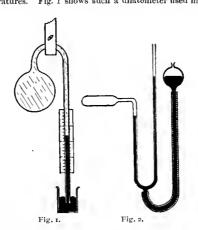
dilatometer (dil-ā-tom'e-ter), n. [Irreg. (L. dilatory, a. II. n. In law, a plea or other dilature, expand (see dilate), + Gr. μέτρον, a measure.] An instrument for the determination of the changes of volume of a substance dilation of the changes of volume of a substance demonstration. See *demonstration*. or for the measurement of its linear expantion. The form used for the determination of the relative expansion of liquids is essentially a thermometer with a greatly enlarged bulb. The bulb, including a portion of the neck, is filled with the liquid the expansion of which is to be measured, and the position of the end of the liquid column in the neck is noted at different temperatures. Fig. 1 shows such a dilatometer used in the To play the dilatometer.

To play the dilatometer.

To play the dilatometer.

To play the dilatometer.

To play the dilatometer.



determination of the coefficient of expansion of liquids containing gases in solution. The neck is bent vertically downward and the open end is submerged in a vessel of mercury. Upon cooling the liquid within the bulb the mercury column rises in the neck, and its position is noted upon a scale attached to the neck for that purpose. For the measurement of the expansion of gases an instrument similar to the air-thermometer is employed. The dilatometer in this case consists of a glass bulb (fig. 2) the neck of which is connected with a mercury manometer. The gas may thus be maintained at constant pressure and its change of volume observed, or the pressures may be varied in such a way as to keep the gas at constant volume. For the measurement of the cubic expansion of solids a modification of the dilatometer for liquids has been employed by Dulong and Petit, Regnault, Kopp, and others. In such determinations the solid is inclosed in a glass bulb or tube (fig. 3) the opening of which is then drawn out to form a capillary neck. The space within the bulb not occupied by the solid is completely filled with mercury. When the dilatometer is heated a certain amount of mercury is driven out by the combined expansion of the material is computed. The linear expansion of solids is measured in some cases by the direct observation, through microscopes, of parallel lines drawn upon the surface of the test-piece. This method, known as that of Roy and Ramsden, can be employed only when expansion to be measured is that of a long bar, and even for such purposes it has been superseded by more delicate methods. In one form of dilatometer for more refined measurements of the linear coefficient of expansion the bar is fixed at one end, while to the other

dilution

end, which is free to move with the change of length of the bar, is attached a device for tipping a small mirror. By observing the movement of the image of a scale seen in this mirror, very minute changes in the length of the bar may be detected. The most refined form of dilatometer for the measurement of the linear expansion of solids, and that which is usually employed for this purpose (especially in cases where the size of the test-piece is small, as in crystals), depends upon the interference of light. This extremely sensitive method, in which expansion is measured in the terms of wave-length of light, was first employed by Jamin, whose device, further perfected and developed by Michelson, has become one of the most important of optical instruments, the *interferenceferometer</code> (which see). A special form of interferometer adapted for the rapid and accurate measurement of the linear expansion of solids is the *Abbe dilatometer*, the principle of which is indicated in fig. 4. In this instrument a glass plate, 199, is mounted above the specimen, S. Both aurfaces are plane, but not parallel, so that a thin wedge of air lies between them. A ray of monochromatic light from above is in part reflected from the lower face of 99, and in part from the surface of the specimen. These two reflected from the lower face of 99, and in part from the surface of the specimen. These two reflected from the lower face of 99, and in part from the surface of the specimen. These two reflected from the lower face of 99, and in part from the surface of the specimen. These two reflected from the lower face of 99, and in part from the surface of the specimen. These two reflected from the lower face of 99, and 199, and



dilatation, n. 5. In elasticity, change of vol-dilatometric (dil-ā-tō-met'rik), a. Of or pertaining to the measurement of expansion; relating to or determined by means of the dila-

tometer. Nature, July 2, 1903, p. 216.
dilatory, a. II. n. In law, a plea or other
proceeding in a suit which is intended to de-

dilettante (dil-e-tan'te), v. i.; pret. and pp. dilettanted, ppr. dilettanting. [dillettante, n.]
To play the dilettante.
dilettantist (dil-e-tan'tist), a. [dilettante+

ist.] Affected with or characterized by dilet-

tantism: as, dilettantist philanthropy.
dilettantize (dil-e-tan'tiz), v. i.; pret. and pp.
dilettantized, ppr. dilettantizing. [dilettante + dilettantized, ppr. dilettantizing.
-ize.] Same as *dilettante.

-ize.] Same as *dilettante.

Diligence against the heritage, in Scots law, an execution in favor of a creditor against the real property of his debtor.—Diligence against the person, in Scots law, an execution by which a creditor proceeds against the person of his debtor.—Diligence against witnesses, in Scots law, a process by which the attendance of witnesses is compelled.—Diligence incident, in Scots law, a process to cite witnesses and examine havers, similar to the English subpens for witnesses and order for taking testimony and for interrogatories.—Diligence to examine havers. Same as *diligence incident.—Second diligence, in Scots law, a second execution or process issued when the first has been disregarded or disobeyed, similar to the English attachment for contempt.—Summary diligence, in Scots law, an execution or process issued in a summary manner.

dilituric (di-i-ti'rik). a. Noting an acid, a

dilituric (dī-li-tu'rik), a. Noting an acid, a compound. CO(N₂H₂)C₃H(NO₂)O₂.3H₂O, formed by the action of fuming mtric acid on barbituric acid. It crystallizes in quadratic plates or prisms which dissolve in water or dilute alkali with an intensely yellow color. Many of the salts explode when heated. Also nitrobarbituric.

dilli, n. See *ditly4. dill-water (dil'wa"ter), n. An aromatic car-

minative water prepared from the volatile oil of dill or by distilling dill fruit with water. dilly (dil'i), n. [Also dilli; said to be native Australian.] A bag woven of grasses or of fur twisted into cord; a small bag of any matricial distribution. terial. [Australia.]

dilly-bag (dil'i-bag), n. Same as *dilly4.
diloph (di'lof), a. [Gr. δίλοφος, of two crests,
⟨δι-, two-, +λόφος, a crest.] Having two arms
dichotomous, as in the spicules of sponges.
A diloph tetraclone is a four-armed spicule with two of the arms thus bifurcated.

dilophous (dil'ō-fus), a. [Gr. δίλοφος, of two

dilophous (dil'ō-fus), a. [Gr. δίλοφος, of two erests, + -ous.] In sponge-spicules, having two of the rays forked or branched.
dilution, n. 3. In homeopathy, the diffusion of a given quantity of a drug in ten or one hundred times the same quantity of water. A given quantity of this solution is again diffused in ten or one hundred times the quantity of water. Each of these processes is called a dilution, and the resulting preparation is said to be of the tenth, fifteenth, etc., decimal or centesimal dilution according to the number of times the operation was repeated and as the quantity of water in each operation was ten or one hundred

times that of the dissolved drug.— Heat of dilution, the heat developed by adding to a solution, containing a grammolecule of the dissolved substance, an amount of the solvent sufficient to double the volume.— Oatwald's dilution law, in phys. chem., the law that if v is the number of liters of a solution which contains a gram-molecule of the dissolved electrolyte, and m that fraction of the gram-molecule. eule of the electrolyte which is electrolytically dissociated

into ions, the equation $\frac{m^2}{(1-r)m} = \text{constant}$ is true for eertain classes of electrolytes. Good electrolytes do not ohey the law, the reason for this being nuknown. For good electrolytes empirical relations have been suggested; one is $\frac{m^2}{m^2}$

Rudolphi's dilution law or formula, $\frac{m^2}{(1-r)\sqrt{v}} = \text{eonstant};$

another is Van t'Hoff's dilution law, $\frac{m^{\frac{3}{2}}}{(1-v)\sqrt{v}} = \text{constant}.$

Diluvian epoch, a ambdivision of geologic time following the enlimination of the glacial epoch and embracing the retreat and melting of the great ice-sheet with the attendant floods

from an alpine glacier rearranged by water.

dim. An abbreviation (b) of diminutive; (c) of the Latin dimidius, one half.

dimagnesic (dī-mag-nē'sik), a. [di-2 + magnes(ium) + -ic.] In chem., containing two atoms of magnesium.

dimanganous (di-mang'ga-nus), a. [di-2 + pyrone.

mangan(ese) + -ous.] In chem., containing dimethylxanthin (di-meth-il-zan'thin), n.

mangan(ese) + -ous.] In chem., containing two atoms of manganese.

Dime museum. See *museum.

Dimension lines, shingle, stone. See *line2, *shingle, *stone.—Equation of dimensions. See *equation—Four dimensions, length, breadth, thickness, and a fourth analogous in character. For exhibiting the relations between any three magnitudes, x, y, z, it is convenient to regard them as the coordinates of a point in space; similarly any four magnitudes may be regarded as the coordinates of a point in space of four dimensions. Lagrange said mechanics may be conceived as a geometry of four dimensions, in which time serves as fourth coordinate.—Fourth dimension, a dimension of like character added to length, breadth, and thickness; in math., an (assumed) nnknown direction extending in two senses, 'apo' and 'elso', from every particle of a cube, and aneth that the slightest infinitesimal motion of the enbe in this direction would take it completely out of itself. In four-dimensional space a right hand can become a left hand by simple movement. simple movement.

Prophetic and well-timed were the parting words to the speaker of the illustrions Tchebicheff: "Take to Kinematics, it will repay yon; it is more fecund than geometry; it adds a fourth dimension to space." So also said

Sulpester, Discoveries Mech. Conver. of Motion, p. 17. If it became necessary to assume the existence of five atoms at equal distances from one another in a molecule, there would be evidence of a fourth dimension.

C. H. Hinton, in Harper's Mag., July, 1904, p. 232.

Rough dimensions, dimensions which are not exact, but which are larger than the finished measurement will be.

Dimensional equation, formula. See *equa-

tion, *formula.

dimere (dī'mēr), n. [Gr. διμερής, of two parts, $\langle \delta i$ -, two-, $+ \mu i \rho \rho c$, a part.] In the skeletons of the reticulate hexactinellid sponges, a mesh of the second order, made by the intersection of the secondary spicular bands of a primary

dimeric (di-mer'ik), a. [dimer(ous) + -ie.] 1. Bilateral, or having a right and a left side, as in most animals: contrasted with *polymeric. Comparison of bilateral or dimeric animals with rotate

or polymeric animals.

L. H. Bailey, Smithsonian Rep., 1897, p. 455.

2. In bot., same as dimerous.

Dimerosporium ($\mathrm{d} i'$ mer- \hat{o} -sp \hat{o}' ri-um), n. [NL., \langle Gr. $\delta \mu \nu \rho \hat{n} \rangle$, of two parts, $+ \sigma \pi o \rho \hat{a}$, seed (spore).] A genus of epiphytic fungi of the family *Perisporiaceæ*, having membranous or subcarbonaeous peritheeia seated upon a snbearbonaeeous peritheeia seated upon a subieulum of brown mycelium. The spores are hyaline or brown, and have two cells, as the name indicates. About 60 species have been described, occurring mostly on living leaves in tropical or anthropical regions. D. manniferum causes the black blight at the mango. See black *blight (a).

dimery (dim'e-ri), n. [NL. *dimeria, < Gr. of two parts.] In bot., the condition of being dimerous.

of being dimerous.

In the pentamery and dinery of Dicotyledones there is naually a posterior sepal with a pair of lateral prophylls.

Encyc. Brit., XXV, 433.

dimetaphosphate (dī"met-a-fos'fāt), n. [di-2 ametaphosphate.] In chem., a salt which contains the radical P_2O_6 , resulting from the coalescence of two combining units of the radical PO_3 of a metaphosphate: as, potassium dimetaphosphate, $K_2P_2O_6$.

dimethyl (di-meth'il), n. [di-2 + methyl.]

1. Same as *cthane.—2. A combining form used in organic chemistry to indicate the presence of two methyl-groups in the molecule of the molecule of the metaphosphate as the molecule of the m

ence of two methyl-groups in the molecule of a compound.

dimethylacetal (dī - meth - il - as 'e-tal), n. colorless ethereal liquid compound, CH3.CH

(OCH₃)₂, obtained by the oxidation of a mixture of ethyl and methyl alcohol. It is anesthetic. dimethylamine (di-meth-il-am'in), n. A colorless gas, (CH₃)₂NH, present in herring-brine, and formed by the putrefaction of fish, Dimylidæ (di-mil'i-dē), n. pl. [NL., < Dimylor lastin and proteid material in general. It is the type genus, + -idæ.] A family of complete the character of the Dimyaria, the second two muscle-layers: as, dimyaria nemertines. gelatin, and proteid material in general. It is prepared by the action of sodium hydroxid on nitrosodimethylaniline, boils at 7.2-7.3° C., and resemblea ammonia in its odor and in the constitution of its salts.

Dimethylaniline orange. See *orange¹.
dimethylarsine (di-meth-il-är'sin), n. A
colorless mobile liquid, (CH₃)₂AsH, prepared
by the action of zinc and hydrochloric acid on cacodyl chlorid. It boils at 36° C., has the odor and poisonous properties characteristic of cacodyl derivatives, and burns spontaneously in air. Also called cacodyl budyld. hudrid

dimethylpyrazin (dī-meth "il-pī-raz'in), n.

diluvium, n.-Alpine diluvium, the loose material dimethylpyrone (dī-meth-il-pī'rōn), n. [di-2

See *glycolne. limethylpyrone (dī-meth-il-pī'rōn), n. [di^{-2} + methyl + pyrone.] A colorless compound, earbonifère. CO $\langle \text{CH}:\text{C}(\text{CH}_3) \rangle$ O, prepared by the action of hydriodic acid on dehydracetic acid. It forms crystals which melt at 132° C. and boil $n = \frac{n^2 - 2}{2}$ and $n = \frac{n^2 - 2}{2}$ and boil are prepared by passing naphthalene and stannic-chlorid vapor through a red-hot tube.

[di-2 + methyl + xanthin.] Same as the obro-

mine: found in tea.

Dimetian (di-mē'shian), a. In gcol., noting erystalline rocks in Pembrokeshire which have been regarded by some English geologists as of Precambrian age, but by others, and espeeially by Geikie, as eruptives intruded into Cambrian strata.

dimetient (di-mē'shi-ent), a. [L. dimeliens (-ent-), ppr. of dimetiri, measure: see dimension.] In math., characterizing the dimensionality. De Morgan. [Rare.]
dimetria (di-mē'tri-ā), n. [NL., ζ Gr. δι-, two-, + μ/τρα, womb: see matrix.] Congenital

double uterus.

diminish, v. i. 2. To taper, as a column.

—Law of diminishing returns. See ★lnw1.

Diminished column, stile. See *column, *stile1. diminishing-rod (di-min'ish-ing-rod), n. Cotton Spinning, p. 207.

diminution, n.— Figure of diminution, in musical notation, a numeral, usually with a curve inclosing the notes affected, signifying that the latter are to be performed as a group with less than their normal time-value. Such groups are the duole, triplet, quartole, quintole, sextole, etc., the signs for which are (2, (3, (4, (6), (6)))), etc.,

tole, etc., the signs for which are $\widehat{2}, \widehat{3}, \widehat{4}, \widehat{5}, \widehat{6}$, etc., respectively.

dimity, n. 2. A thin cotton fabric, either white or colored, resembling muslin, distinguished by raised threads or cords which run lengthwise of the cloth.—Dimity ruffling, dimity cloth platted longitudinally in weaving.

dimmer (dim'er), n. In elect., an adjustable reactive coil used for reducing the amount of

light of incandescent lamps.

dimolecular (dî-mō-lek'ū-lär), a. molecular.] Same as *bimolecular.

Since that time Piloty has practically completed the proof of the dependence of the green or blue color upon the monomolecular condition and of the white or colorless form upon the dinolecular condition.

Amer. Chem. Jour., Aug., 1903, p. 111.

dimorphism.

dimorphism, n. 6. In petrog., modifications in the seventeenth century. produced within the magma of an igneous rock by mineralizing or crystallizing agents before its solidification. Delesse, 1888.

dimorphobiotic (dī-môr*fō-bī-ot'ik), a. [Gr. bridge Nat. Hist., VI. 70.

δι., two., + μορφή, form, + βίωσις (βίωτ-), way ding-dong (ding'dông), v. I. intrans. To sound with the regularity of the ding-dong of a bell produced within the magma of an igneous rock by mineralizing or crystallizing agents before its solidification. Delesse, 1858. **dimorphobiotic** (di-mor*fo-bi-ot'ik), α . [Gr. $\delta \iota$ -, two-, + $\mu \circ \rho \phi \dot{\eta}$, form, + $\beta \iota \omega \circ \iota$ ($\beta \iota \omega \tau$ -), way of life, + -ic.] Exhibiting alternation of generations and having a parasitic and a non-parasitic attack in the course of t parasitic stage in the course of the complete life-history. Jour. Exper. Med., VI. 79. Dimorphoceratidæ (dī-môr "tō-se-rat'i-dō),

n. pl. [NL., \langle Dimorphoceras (-cerat-) + -idæ.]
A family of Carboniferous ammonoid cephalopods or goniatites with discoidal shells and digitate lobes.

barely visible.

Dimyaria, n. pl. 2. A group or branch of dingle1, n., 2. (b) The roofed-over space beNemertini in which the dermal musculature tween the kitchen and the sleeping-quarters and an internal coat of longitudinal muscles. It includes the anoplous forms belonging to Dingle beds. See $\star bcd^1$. the orders *Protonemertini*, Mesonemertini, and dingle-bird (ding'gl-berd), n. Same as bell-Metanemertini. Contrasted with *Trimyaria.

tiuet species from the Tertiary of Europe.

Schlosser, 1887. din² (dēn), n.; pl. dinim (dē'nēm). [Heb.] 1. (a) A judgment. (b) A law suit; a plea or eause. (e) A law or precept. There are four rabbinical codes containing all the dinim (precepts), ecclesiastical and seenlar, by which every dayan, or judge, is

gnided.
2. See *pahad.

Dinantian (di-nan'shian), n. [Dinant, a city and district in Belgium, + -ian.] In geol., the lower division of the Carboniferous system

are prepared by passing naphthatene and stan-nic-chlorid vapor through a red-hot tube. They are distinguished as α,α, α,β, and β,β-dinaphthyl or binaphthyl. The first crystallizes in rhombohedral plates melting at 154°C and boilting at 360°C; the second crystallizes in hexagonal plates melting at 79-80°C; the third forms fluorescent plates melting at 187°C. dinar, n. 2. A money of account in Persia,

equal to one ten thousandth of the tuman.—
3. A current silver coin of Servia, equal to 100 paras or about 20 United States cents.

Dinarian (di-nā'ri-an), n. [Dinara, a mountain in Dalmatia, + -ian.] In gcol., a division of the Triassic rocks in the Mediterranean province, as recognized by Austrian geologists. It lies above the Scythiau series, which is the lowest member of this formation, and below the Tirolian.

dimetria (di-mē'tri-ā), n. [Nl., \ Gr. \(\phi \)r, two-, \ \(\phi \)rippa, womb: see matrix.] Congenital abnormality consisting in the presence of a double uterus.

diminish, v. i. 2. To taper, as a column. \(\text{-Law of diminishing returns.} \) See \(\phi \)liminished column, stile. See \(\phi \)column, \(\phi \)stile! \(\text{diminishing-rod} \) (di-min'ish-ing-rod), n. \(\text{A} \) device on a cotton-roving machine for giving the bobbin of roving its conical ends. \(\text{Nasmith}, \) \(\text{Cotton Spinning, p. 207.} \)

allied to Ceratites, but having fewer and sim-

dinder (din'dèr), n. [A dial form of *dinner, AS. dinor (OF. denier), \langle L. denarius: see denier², dinar, denarius.] A local name in some parts of England, particularly in Shropshire, for one of the small coins, called denarii by the Romans, frequently found on the sites of old Roman settlements. [Prov. Eng.] Dinematichthys (di-nem-a-tik'this), n. [NL., $\langle Gr. \delta\iota$ -, two-, $+ \nu\bar{\eta}\mu a(\tau$ -), thread, $+ i\chi\theta i\varphi$, fish.] A genus of small fishes of the family Brotu-

lidæ, inhabiting the coral reefs.

dinergate (dī-ner'gāt), n. [Gr. δεινός, terrible (large) + iργάτης, a worker.] A general term for a worker major, or 'soldier,' among species of ants with polymorphic workers.

dinerillo (dē-nä-rēl'yō), n. [Sp., dim. of dinero, penny.] A small copper coin of Philip III. and Philip IV. of Spain, and of Leuis XIII. and Louis XIV. of France, struck for Valencia in the seventeenth contrary.

II. trans. To assail or pester with a con-

tinual succession of complaints, requests, taunts, gibes, or the like. See ding?, v. t. dinge (dinj), v. t. [Also dindge (obs.): a var. of ding, v. Cf. sing and singe.] To deut, or make a depression or hollow on the surface of, as by a knock or blow; dint; bash: as, a dinged

silk hat. [Prov. Eng.]
dinge (dinj'), n. [Also dindge (obs.), < dinge,
v.] A dent or depression made by a blow; a bruise or bash: as, a dinge on a copper kettle;

in a logging-camp, commonly used as a storeroom.

II. n. A medicinal remedy for gradiness.

Dinichthys (dī-nik'this), n. [Gr. $\delta \epsilon r \phi c$, terrible, $+i \chi \theta r$, a fish.] A genus of gigantic arthrodition fishes recarded as pertaining to $\delta \epsilon r \phi c$ terrible (large) $+\pi \epsilon \rho \kappa n$, perch.] A genus of the coasts of Baluthe family Coccosteidæ, in which the head-shield is comprised of one large median occipital plate, and three pairs of lateral and two pairs of anterior plates, the trunk also being plated. of anterior plates, the trunk also being plated. The dental plates are movable, without teeth, but both the mandibles and the maxilla are sharpened to a cutting edge which may be cuspidate. The species are characteristic of the beyonian black shales in Ohio and New York, and European species are also known. Head-shields have been found in Ohio which measure nearly 4 feet in length.

Diniferida (din-i-fer'i-dä), n. pl. [NL.. ← Gr. δiroç, a whirl, + L. ferre, bear, + -ida.] An order of Dinoflagellidia having two transverse furrows. It includes the families Peridividae and Dinonhusidae.

dining-car (dī'ning-kär), u. A railway-ear fitted up as a diving-room or restaurant, and supplied with a kitchen, pantry, refrigerator,

dining-coach (dī'ning-kōeh), n, Same as *diniua-ear

dining-hall (di'ning-hâl), n. A large diningroom, as in a hotel or college.

The table in dining-table (di'ning-ta"bl), n. a dining-room, dining-hall, or saloon on ship-board, round which people gather to dine; a dinner-table.

dinitrobenzene (di-nī"trō-ben'zēn), n. [di-2 + nitro(gen) + benzene.] A compound, C_6H_4 $(NO_2)_2$, derived from benzene by the substitution of two nitro-groups for two hydrogen atoms. Orthodinitrobenzene is formed in small quantity atoms. Orthodinitrobenzene is formed in small quantity when a mixture of sulphuric and nitric acids acts on henzene. Its crystals melt at 117.9° C. Metadinitrobenzene is the chief product obtained from the action of a mixture of sulphuric and nitric acids on benzene. Its yellow crystals melt at 91° C. At the same time a little paradinitrobenzene is formed. Its crystals melt at 171-172° C.

dinkel (ding'kel), n. [G.] The one-grained wheat, Triticum monococcum. See wheat. Also ealled einkorn.

dinky (ding'ki), a. and n. [Also dinkey; a prov. word of imitative nature, in effect a var. of dicky, as applied to small things.] I. a. 1. Small and neat; trim; tidy; niee. [Prov.]— Small and neat; trim; tidy; niee. 2. Small but pretentious; small and insignifi-

eant. [Prov.]

II. n.; pl. dinkies (-kiz). 1. Something small or insignificant. [Colloq.]—2. An apparatus of smaller size than the usual standard, as a pony- or donkey-engine for doing work which requires small horse-power.—3. A pair of wheels on an axle used to carry the weight of a beam or pole in ereeting structures or wire lines. The axle is usually eurved upward in the middle, with a lever affixed, so that the weight can first be raised off the ground, in a sling, and then wheeled to the desired point.

dinner-pad (din 'er-pad), n. A pad placed over the region of the stomach during the application of a plaster-of-Paris or other jacket. After the jacket has hardened the Beleted to or beging the characters of the pad is removed, thus allowing room for distention of the stomach when it receives food.

dinner-pail (din'er-pal), n. A tin pail, with a eover, in which working-men earry, or are sup-posed to carry, their 'dinner' or midday meal to their work. "A full dinner-pail" for the working-man figures in party rhetorie. [U. S.]

dinner-pair (din'er-par), n. In parliamentary usage, a pair formed by two members of op-posite parties during the dinner-hour, the vote of the one balancing the vote of the other in ease of a division while both are absent, that

is, from 7 to 10 P. M. [Eng.] dinner-party (din'er-par'ti), n. A party of guests invited to dinner and for social intereourse or entertainment.

dinner-ring (din'er-ring) n. Same as *banquet-ring.

dinner-set (din'er-set), n. A set of dishes of the same pattern for use on the dinner-table: as, a dinner-set of Limoges ware.

Dinobolus (dī-nob'ō-lns), n. [Gr. δεινός, terrible, + δβολός, an obol.] A genus of atrematous Brachiopoda, of the family Trimerellidæ, having thick-shelled subcircular valves with interior muscular platforms slightly excavated for the viseera. They are of Silurian age.

dinoceratous (dī-nō-ser'a-tus), a. Belonging or related to the Dinocerata, a group of fossil perissodaetyl mammals.

dinic (din'ik), a, and n. I. a. Same as dinical. dinomania (din'ō-mā'ni-ā), n. [NL., ζ Gr. diœciodimorphous (dī-ē-shiō-di-môr'fus), a. II. n. A medicinal remedy for giddiness. δίνος, whirling, + μανία, madness.] Same as Same as *diæciodimorphic.

chistan and Sind. Only one species, D. petersii,

Dinophilea (dī-nof-i-lē'ā), n. pl. [NL., Dinophilus + -ca.] A class of Trochelminthes, represented by a minute worm-like organism, Dinophilus, inhabiting salt or brackish water. The body is composed of from 5 to 8 segments, and bears a head or prostomium and a short ventral tail. The surface of the body bears cilia distributed uniformly or in rings. The genus Dinophilus is sometimes regarded as belonging to the Archimaelida.

Dinophis (din' \hat{o} -fis), n. [Gr. $\delta \epsilon \iota v \delta \varsigma$, terrible, + $\delta \phi \iota \varsigma$, a serpent.] A fossil marine serpent, from the North American Eocene, which attained a length of 30 feet: probably synonymous with Palæophis.

dinopid (din'ō-pid), n. and a. I. n. A member of the family Dinopidæ.

II. a. Having the characteristics of or be-

longing to the family Dinopidx. dinornithid (di-nôr'ni-thid), n. One of the

dinornithine (dī-nôr'ni-thin), a. [NL. dinornis (-ornith-) + -ine².] Pertaining to or having the characters of the extinct genus Dinornis and its allies.

dinornithoid (di-nôr'ni-thoid), a. Allied to or resembling Dinornis or the Dinornithidæ. dinos (di'nos), n.; pl. deinoi (-noi). [Gr. δίνος, δείνος, a name of various round vessels.] In

Gr. antiq., a large bowl without a foot. dinosaur, n.—Chambered dinosaur, the extinet reptile Camarosaurus: so named from the cavities in its vertebra.—Duck-billed dinosaur, the dinosaurian reptile Trachodon or Hadrosaurus, characterized by the broad, beak-like snout on the skull.



Duck-billed Dinosaur (Hadrosaurus mirabilis). After a restoration by Knight.

Related to or having the characters of the extinct ungulate Dinotherium.

II. n. An ungulate mammal related to Dinotherium.

Dinotherium sand. See *sand1.

diobely (di-ob' e-li), n. [Gr. διωβελία, < δι-, two-, + δβολός, obol.] In Gr. antiq., an allowance of two obols a day to each citizen present during the Athenian festivals, to pay for seats in the theater.

diodangium (dī-ō-dan'ji-um), n.; pl. diodan-gia(-ij). [NL., ζ Gr. δίοδος, a passage, + ἀγγεῖον, a vessel.] A sporangium in the Archegoniatæ. Van Tieghem.

diode¹ (dī'ōd), a. [Gr. $\delta\iota$ -, two-, + $\delta\delta\delta\varsigma$, way.] diode¹ (dī'ōd), a. [Gr. δι-, two-, + διδος, way.]
Of two ways; in elect. teleg., same as duplex.
diode² (dī'ōd), n. [Gr. δίοδος, a way through, a passage, ζ διά, through, + διδος, way.] In bot., the rudimentary or transition body in vascular plants which develops into the prothallium. Van Tieghem.

diodogone (di-od'ō-gōn), n. [Gr. δίοδος, a pasage, + γόνος, generation.] In bot., a sporangium in the Spermatophyta which generates diodes; the embryo-sae and pollen-sae. Tieahem.

diodophyte (dī-od'ō-fīt), n. [Gr. δίοδος, a passage, + φυτόν, plant.] A plant which produces diodes; any vascular plant. Van Tieghem. [Gr. δίοδος, a diœciodimorphic (dī-ē-shiō-di-môr'fik), a. In bol., same as heterogonous, which see.

Same as *diaciodimorphic.
diaciopolygamous (di-e*shiō-pō-lig'a-mus), a.
In bot., diaciously polygamous, that is, having some individuals unisexual and others hermaphrodite.

diæstrous (di-ēs'trus), a. [Gr. δι-, two-, + ωστρος, stimulus.] 1. Relating to the first of two successive periods of sexual desire.—2. Relating to the brief interval between two successive periods of sexual desire.—2. cessive periods of sexual desire.—Diestrous cycle, the first of two successive periods of sexual desire, plus a brief interval of rest (diestrum). diestrum (diestrum) (diestrum) (diestrum) (drest furum), n.; pl. diestra. [NL: see *diestrous.] A brief interval (from 6 to 14 days) between two periods of sexual desire in crimela.

in animals.

Diogenodonta (dī-oj "e-nō-don 'tā), n. pl. [NL., < Gr. διογενής, sprung from Zeus, + όδοις, (δόοντ-), a tooth.] A group of advanced and modern peleeypod mollusks in which the hinge has lateral and eardinal teeth on a true hingeplate, the former not exceeding two and the

fatter three in number.

dionine (di'ō-nin), n. A trade-name of ethyl
morphine hydrochlorid. It is employed as an

ocular an esthetic in place of cocaine.

Dionysian, a. 4. Of or pertaining to (a)
Dionysius the Arcopagite, mentioned in Acts
xvii. 34, who is said to have been made bishop
of Athens in the year 50 by the Apostle Paul; or (b) a pseudo-Dionysius who, about 360-450 A. D., wrote several ecclesiastical works attributed by some to the Areopagite.

nted by some to the Areopagite.

Dionysic (dī-ō-nis'ik), a. Same as Dionysiac.

Diopsidæ (dī-op'si-dē), n. pl. [NL., < Diopsis + -idæ.] A family of aealyptrate Diptera of which Diopsis is the type. They are small black flies, rather stout, with stout front thighs and the head much wideued. They are found in shady wooded places.

dioptometry (dī-op-tom'e-tri), n. [Gr. δά, through, + ὑπτ(ικός), of seeing, + -μετρία, < μέτρον, measure.] Measurement of the power of aeeommodation and of the refraction of the eye.

dioptric. I. a.—Dioptric curve. Same as Gartesian on al.—Dioptric globe. See *holophane.—Dioptric migrometer. See *micrometer.

II. n.—Prism dioptric, a unit of the deflecting power of prisms; a deflecting power equivalent to that of a prism which displaces the transmitted ray through an angle subtended by one centimeter at a distance of one meter: nsed chiefly hy oculists.

dioscorine (di - os'kō-rin), n. [Dioscorea +

nioscorine (di-os ko-rin), w. [Dioscorea + -iue².] A greenish-yellow, erystalline, very poisonous bitter alkaloid, C₁₃H₁₉O₂N, eontained in Java gadung, Dioscorea hirsuta. It melts at 43.5° C., and acts on the central nervous system like pierotoxin, but is less energetie.

diose (dī'os), n. [di-2 + -ose.] Same as *biose.

The first volume deals with the monosaecharides, the chief subheads being: dioses, trioses, tetroses and methyl derivatives.

Jour. Phys. Chem., Oct., 1904, p. 509.

diosmin (dī-os'min), n. [Gr. $\delta\iota$ -, two-, $+ \delta\sigma\mu\dot{\eta}$, odor, $+ -in^2$.] Same as *barosmin. diosphenol (dī-ō-sfē'nōl), n. [dios(min) + phe-

atosphenol (di-o-ste'not), n. [dios(min) + phenol.] A crystalline phenol-like body, C₁₀H₁₈ O₂, found in buchu-oil from Parapetalifrate betulina (Barosma betulina of Bartling and Wendland). It melts at 82° C. Also called Barosma camphor, and Buchu camphor.
Diospyraceæ (di-os-pi-rā'sē-ē), n. pl. [NL. (Drude, 1879), < Diospyros + -aceæ.] A family of dioxyladovans armost leves plants of the

of dieotyledonous sympetalous plants of the order Diospyrales, the ebony family: long known by the name Ebenaceæ (which see). It is typified by the genus Diospyros, and includes 7 genera and about 318 species, by far the larger number of which belong to Diospyros. See Diospyros, Maba, and Rovena.

Diospyrales (dī-os-pi-rā'lēz), n. pl. [NL., Diospyros + -ales.] An order of dieotyledo-nous sympetalous plants embraeing the families Sapotaceæ, Diospyraceæ, Styracaeeæ, and Symplocaeeæ. They are trees or shrubs with simple leaves and often valuable wood.

diota (dī-ō'tā), n.; pl. diotæ (-tē). [L. diota, ⟨ Gr. δίωτος, two-eared, ⟨ δι-, two-, + οἰς (ὑτ-), ear.] A Greek vase with two ears or handles, similar to the amphora.

similar to the amphora.

diotic (di-ot'ik), a. [Gr. $\delta i\omega roc$, two-eared, $\langle \delta t_{-}, \text{two-}, + oic$ (ωr_{-}), ear, + -ic.] Involving the use of both ears in the perception of a single tone or elang: opposed to *dichotic.

Single tole of elang. Opposed to Amount.

Diotocardia (di^κō-tō-kār'di-ā), n. pl. [NL., ζ Gr. δίωτος, two-eared, + καρδία, heart.] A division of the gastropod Mollusca based on the presence of two aurieles in the heart: contrasted with *Monotocardia.

dioxine (di-ok'sin), n. $[di-2 + ox(ygen) + -ine^2]$

Same as $\star gambine B$.

dioxogen (dī-ok'sō-jen), n. A trade-name for a 3-per-cent, solution of hydrogen peroxid in

dioxybenzol (dī-ok-si-ben'zōl), n. [di-2 + oxy(gen) + benzol.] A diatomic phenol which results from benzene on the substitution of two hydroxyl groups for two hydrogen atoms, for example, pyrocatechin, resorcin, and hydroquinone.

dioxytartaric (dī-ok"si-tär-tar'ik), a. oxy(gen) + tartaric.] Same as *dihydroxytartaric .- Dioxytartaric acid. Same as *dihydroxy-

tartaric acid.
dip, r. I. trans. 8. To submerge (an animal, as sheep, except the head) in a warm decoction of sulphur, tobacco, or the like, for the destruction of injurious parasites and germs of skin-diseases.

II. intrans. 4. In the manufacture of turpentine, to gather resin from boxes or eups.

U.S.]

dip, n., 5. (c) In ceram., a preparation of colored slip for decorating pottery. See *dip-ware.
7. A small dumpling made of batter dropped

into boiling water a spoonful at a time and into boiling water a spoonful at a time and boiled for about five minutes. Usually in the plural. [Australia.]—8. Vertical distance below a given level.—9. A depression or sink on the surface of the earth.—10. Crude turpentine. [U.S.]—11. Among stock-breeders, 'tinge' or 'touch,' that is, a slight strain, of another breed or variety.—12. The depth to which anything is submerged, as a floating veswhich anything is subheleged, as abouting visual times, as a both seed, as a paddle-wheel, etc.

— Unconformability of dlp, in geol., the lack of correspondence in the dlp of strata produced when a later series of sediments is deposited upon the upturned edges of an older and tilted series.

dipa (dē-pä'), n. [Tagalog dipá = Bisaya dopá.] In the Philippine Islands, a measure of length;

a fathom.

dipartite (dī-pār'tīt), a. [L. di-, apart, + parlitus, parted.] Divided into various parts: as, dipartite writings. Ruskin.

dipartition (di-par-tish'on), n. [dipartite + ion.] Sundering; division: as, the dipartition of the sheep from the goats on the judgment- Diphtheritic croup, paralysis. See *croup1, day.

dipentene (di-pen'ten), n. $[di^{-2} + Gr. πέντε, five, + -ene.]$ A terpene, $C_{10}\Pi_{16}$, found in a great variety of volatile oils: it boils at 181° C. and is optically inactive. According to its origin, it has been called by a great variety of names.

dipeptide (di-pep'tid), n. [di-2 + pcpt(ie) + -ide¹.] A condensation-product of the anhydrids of two amido-acids which are derived from the albuminous molecule. See *digestion

dip-fault (dip'fâlt), n. strata which runs in the direction of their dip

and across their strike.

Small dip-faults were seen in the sea-cliff. Greater dip-faults of considerable but unknown throw cut off the entire series along the axis of the "tickle" and again at a point about 370 meters to the southeast of the headland at the sea-chasm.

Amer. Geol., Aug., 1903, p. 68.

dip-glaze (dip'glaz), n. In ceram., a liquid glaze preparation into which the biscuit ware is dipped. Compare *vapor-glaze.

glaze preparation into which the discuit ware is dipped. Compare *vapor-glaze.

diphase (di'fāz), a. [Gr. δι-, two-, + φάσις, phase.] In elect., same as *quarterphase.

diphasic (dī-fā'zik), a. [Gr. δι-, two-, + φάσις, phase, + -ic.] Having two phases. Buck, Med. Handbook, 111. 105.

diphenol (di-fe'nol), n. [di-2 + phenol.] One of several isomeric compounds. The most important is the diorthoderivative IIOC₆II₃C₆II₄OII(2:2), prepared by heating fluorin with potasslum hydroxid at 400° C. It forms crystals melting at 98° C.

diphenyl (di-fê'nil), n. [di-2 + phenyl.] A color-less compound, C₆H₅C₆H₅, found in coal-tar, and prepared by passing benzene vapor through a real bot table. red-hot tube. It is volatile with steam, crystallize a in large lustrons monoclinic plates, melts at 70.5° C., and boils at 254° C. Also called biphenyl.— Diphenyl blue, brown, etc. See *blue, *brown, etc.

Diphenylamine-orange. See arange1. diphenylethanolone (di-fe"nil-eth-an'o-lon),

Same as *benzoin, 3. diphenylimide (di-fe-nil-i'mid), n. [diphenyl + imide.] A colorless crystalline substance, (C₆H₅)₂-NH, formed when diphenylamine vapors are conducted through a tube heated redness. It also occurs in erude anthracene.

diphenylketone (dî-fê-nil-kê'tôn), n. [di-2+ phenyt + ketone.] Same as *benzophenone. dlphosphate (di-fos'fāt), n. [di-2 + phosph(o-

 $rus) + -ate^{1}$.] In chem., a compound containing two combining units of the radical of phosphoric acid. The name has been incorrectly applied to a phosphate containing two atoms or combining units of a metal united to this radical, as diphosphate of soda instead of disodic phosphate. **Diphragmida** (dī-frag'mi-dii), n. pl.

 $\langle \text{Gr. } \delta \ell_{\text{-}}, \text{ donble, } + \delta \rho \dot{a} \gamma \mu \dot{a}, \text{ a partition.} \rangle$ In Hyatt's classification of the Cephalopoda, a group of primitive Lower Silurian nautiloids in which the siphunele is divided by transverse tabulæ alternating with the septa of the

Diphragmoceras (dī-frag-mos'e-ras), n. [Gr. $\delta \epsilon$, double, + $\phi \rho \dot{\alpha} \rangle \mu a$, a partition, + $\kappa \dot{\epsilon} \rho a \dot{c}$, a horn.] The typical and only genus of the

stool-carrier: especially applied to two figures in the center of the frieze on the eastern side

chaelis.

diphtheria, n. Diphtheria is caused by a specific bacillus, called Racillus diphtherie, or the Klebs-Loeffer bacillus, which usually can readily be detected in the exudate by microscopical methods. The search for this organism has become a routine measure in doubtful cases of inflammation of the upper air-passages, and often a positive diagnosis of such conditions can be made only in this way. The disease begins with swelling and redness of the throat, fever, and loss of strength. The false membrane appears early and may be confined to the tonsils or may spread to the mucous membrane of the nose, pharynx, or larynx. When the larynx is involved, the breathing becomes difficult, and suffication may ensue. Formerly the only means of saving life in this complication was tracheotomy, but this has been almost entirely superseded by intubation. The disease may be followed by paralysis, by weakness of the heart, or by disease of the kidneys. Treatment, both curative and preventive, consists in the subcutaneous injection of diphtheria autitus — one of the earliest instances, and still the most effective instance, of serum therapy. See cut under Klebs-Loeffler *lacillus.—Diphtheria bacillus, see *bacillus, with cut.

diphtherial (dif- or dip-the ri-al), a. [diph-

diphtherial (dif- or dip-thē'ri-al), a. [diphtheria+ -al1.] Same as diphtheritic. Med. Record, Feb. 28, 1903. p. 350.

diphtheric (dif- or dip-ther'ik), a. [diphtheria Same as diphtheritic.

varalusis.

diphtheroidal (dif - or dip-the-roi'dal), a. same as diphtheroid.

diphtherotoxin (dif-the ro-tok'sin), n. Toxin elaborated by the bacillus of diphtheria. diphthong (dit'- or dip'thông), v. t. To sound

as a diphthong; diphthongize.

Isolative diphthonging or 'vowel-clearing' mainly attects long vowels, evidently because of the difficulty of prolonging the same position without change.

H. Sweet, Eng. Sounds, § 63.

A fault in inclined **diphthongia** (dif-thong'gi-ŭ), n. [NL., ζ Gr. direction of their dip δίφθογγος, having two sounds: see diphthong.] A condition in which, owing to partial paraly sis of the larynx, two sounds of different pitch are produced simultaneously.

diphthongous (dif'thông-gus), a. Same as diphthonaal.

Diphya limestone. See *limestone.

diphygenic (dif-i-jen'ik), α. [Gr. διφυής, of double form, + -γενης, -producing.] In embryol.,

producing two different embryos: said of the Diegemidæ: opposed to *monogenic. diphyletic (dī-fī-let'ik), a. [Gr. &-, two-, + \$\phi^2 cov\$, tribe.] In zool., having two sets of ancestors; derived from two distinct groups of animals.

The diphyletic origin of the birds as represented by the Rafftæ and Carinate is regarded as an untenable assumption by Fürbringer, who argues for the racial unity of the whole group.

Amer. Nat., Jan., 1903, p. 74.

Diphyletic arrangement, a system of classification in which the divisions are arranged in accordance with the view that a given group of animals has been derived from

diphyletically (dī-fī-let'i-kal-i), adv. In a diphyletic manner.

Diphyllidea, n. pl. 2. An order of tetrabothridiate Uestoidea. They have a scolex with a long head-stalk armed with several longitudinal rows of hooklets, the head-consisting of a retractile armed rostellum and 4 (apparently only 2) phyllidia, with projecting slightly mobile margins. The order contains but one family, the Eckinobathrides, and one genus, Eckinobath-rium, parasitic in sclachings.

diphyodontism (dif-i-o-don'tizm). n. [diphyodont + -sm.] The state or condition of being diphyodont or having two sets of teeth, as is the case with the majority of mammals.

Diphyphyllum (dif-i-fil'um), n. [NL., irreg. ⟨Gr. διφνής, double, + φίγλον, a leaf.] A genus of Paleozoie tetraeorals of the family Cya-

thophyllidæ. They grew in compound stocks, the individual corallites having no columella and not being connected with each other except by the epithecal wall.

dip-joint (dip'joint), n. A joint in inclined strata which runs in the direction of the dip. Geikie, Text-book of Geol., p. 660.

dipl. An abbreviation (a) of diplomat; (b) of diplomatist.

diplacanthid (dip-la-kan'thid), n. One of the Diplacanthidæ.

diplacusis (dip-la-kū'sis), n. [NL., < Gr. δίπλόος, double, + ἀκουσις, hearing, ζ ἀκούειν, hear.] In psychol. acoustics. double hearing: applied usually to the hearing of the same tone in a different pitch by the two ears (diplacusis binauralis), but also to the arousing of two tonal sensations in the same ear by a single stimulus.

The abnormality (diplacusis) may be restricted to a single ear, may be transitory or chronic, and may be continued to definite parts of the tonal scale or coextensive with it.

O. Külpe (trans.), Outlines of Psychol., p. 299.

of the Parthenon at Athens, 31 and 32 Mi-ehaelis.

Dipladenia (dip-la-dē'ni-ä), n. [NL. (Alphonse de Candolle, 1844), ζ Gr. διπλόος, double, + liphtheria, n. Diphtheria is caused by a specific αδήν, gland. The name alludes to the pair of άδήν, gland. neetar-glands which alternate with the two ovaries.] 1. A genus of plants of the family Apocynaceæ. They are shrubs, chiefly twining, all South American, and mostly from Brazil. Several of the South American, and inostly from Brazil. Several of the 20 species are in cultivation in glass houses, where they are prized for their showy, mostly rose-colored or purple funnel-form flowers. Dipladenia atropurpurea, D. Boliviensis, D. urophylla, and D. splendens are the prominent species. Other species are in cultivation, and all the kinds are prized for their very brilliant floral display, and for their attractive habit.

diplanar (dī-plā'nār), a. [Gr. di-, two-, + L. planus, plane, + -ar.] Pertaining to or of two planes.

diplarthry (dip-lär'thri), n. [Gr. διπλόος, double, + ἄρφρον, joint.] Having the bones of the tarsus and carpus arranged in a more or less alternating manner: contrasted with taxeovody.

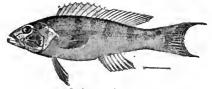
diplasmatic (di-plaz-mat'ik), a. [Gr. δι-, two-, $+ \pi \lambda \acute{a} \sigma \mu a$, anything formed.] In cytol., containing substances besides protoplasm, such as

pigment, fat, etc.: said of the cell-cyteplasm.

Diplazium (dī-plā'zi-um), n. [NL. (Swartz, 1801), < Gr. διπλάζειν, to double or be doubled, in allusion to double sori.] A genus of free-veined polypodiaceous ferns. They are nearly allied to Asplenium, but are distinguished in ex-



Diplectrum (dī-plek'trum), n. [NL., < Gr. δι-, two-, + πλῆκτρον, a spur: see plectrum.] A



Diplectrum formosum. (From Bulletin 47, U. S. Nat. Museum.)

genus of small sca-bass, distinguished by the armature of the preopercle. D. formosum is the commonest of the species, all of which are



of the Mississippi valley, living in clear brooks. D. blennioides, the green-sided darter, is the

common species.

dipleurogenesis (di-plū-rō-jen'ē-sis), n. δι-, two-, + πλευρά, side, + γενεσις, genesis.]

1. Historical progress or evolution through the acquisition and elaboration of bilateral symmetry. [Rare.]—2. The two-sided, bilateral, or dimerie type of form assumed by the higher members of the animal creation: dis-

dipleurula (di-plū' rū-lā), n.; pl. dipleurulæ (-lē). [NL., c Gr. δι-, two-, + πλευρά, side, + L. dim.-ula.] A hypothetical ciliate, swimming, bilateral ancestor of the echinoderms, which is supposed to be recapitulated in the swimming larvæ of modern echinoderms. See *pelmatozoie theory.

diplohacillus (dip 'lō-ba-sil'us), n.; pl. diplo-bacilli (-i), [NL., ζ Gr. διπλόος, double, + NL. bacillus.] Any bacillus in which the cells

occur in pairs.

The occurrence of acid-resisting diplococci or diplo-bacilli and of dramstick forms has been already referred to D. M. Cowie, in Jour. Exper. Med., Oct. 25, 1900, p. 213.

Diploblastica (dip-lō-blas'ti-kä), n. pl. [NL. C Gr. διπλόος, double, + βιαστός, germ.] In zoöl., those animals which develop from only two germ-layers (ectoderm and entoderm), such as the Cælenterata: distinguished from the Triploblastica.

diplocaulescent (dip/lō-kâ-les'ent), a. [Gr. διπλόοι, double, + E. caulescent.] In bot., having stems or axes of the second order.

diplocephalous (dip-lo-sef'a-lus), a. In tera-tol., double-headed: a term applied to monstrous embryos.

strous embryos.

diplocephalus (dip-lō-sef'a-lus), n.; pl. diplocephalus (-lū)., < Gr. διπλόος, double, + κεφαλή, head.] A two-headed monster.

diplocephaly (dip-lō-sef'a-li), n. [NL. *diplocephalua, < diplocephalus.] Monstrosity in which two heads are attached to the same body.

diplochlamydeous (dip*lō-kla-mid'ē-us), a.
[Gr. διπλόος, double, + χλαμύς (χλαμνδ-), mantle.] In bot., having two floral envelops, ealyx and corolla, or a double perianth, as many monocotyledons.

diplochoanitic (dip*lō-kō-a-nit'ik), a. [Gr.

many monocotyledons.

diplochoanitic (dip*lō-kō-a-nit'ik), a. [Gr.

διπλόος, double, + χόανος, a funnel, +-it-ic.]

In the siphuncles of the ammonoid Cephalopoda, having both funnels and forwardly directed collars where the siphunele penetrates the septum: contrasted with *monochomitie*

diplococcal (dip-lo-kok'al), a. Produced by

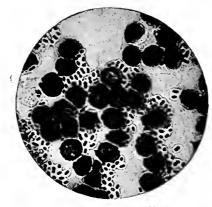
or pertaining to diploeccei. Med. Record, June 27, 1903, p. 1047. diplococcic (dip-lō-kok'sik), a. Same as *diplococcal. Buck, Med. Handbook, IV. 398. diplococcus, n. 2. [cap.] A generic name erroneously applied by some writers to certain species of micrococcus in which the cells occur in pairs.—Diplococcus intracellularis meningiti-dis, the pathogenic micro-organism of epidemic cere-



Diplococcus intracellularis meningitidis (Meningococcus). The large bodies are disintegrating puscells. Magnified 1,000 times (From Buck's " Reference Handbook of the Medical Sciences,")

brospinal meningitis. Also called Weichselbaum's microscocus and meningococcus.—Diplococcus pneumonise, the pathogenic micro-organism of acute croupous pneumonia. Also called micrococcus tanceodatus, pneumococcus, and Fraenkel's pneumococcus. See cut in middle column. column.

diploconical (dip-lō-kon'i-kal), a. [Gr. διπλόος, double, + κωνικός, conic. + -all.] Doubly conical; in the form of a double cone.



Diplococcus pneumonia in blood.

The large bodies are red blood corpuscles. Magnified 1,000 times. (From Buck's "Reference Handbook of the Medical Sciences,")

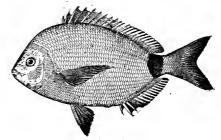
diplocoria (dip-lō-kō'ri-ä), n. [NL., \langle Gr. $\delta i\pi\lambda\delta o g$, double, + κόρη, pupil of the eye.] The presence of two more or less complete

pupils in one eye.

Diplodia (dī-plō'di-ā), n. [NL. (Fries, 1834), ⟨Gr. διπλόος, double, + είδος, form. Cf. dip-loid.] A genus of sphæropsidaeeous fungi having separate black carbonaceous pycnidia formed beneath the epidermis of the host and breaking through at maturity. The name refers to the spores, which are two-celled and dark-colored. About 450 species have been described, many of which are imper-fectly known. They are mostly saprophytic on woody

Diplodontidæ (dip-lō-don'ti-dē), n. pl. [NL., ⟨ Diplodus (-odont-) + -idæ.] A family of teleodesmaceous Pelecupoda including thinshelled orbicular and convex genera with small but well-defined hinge-teeth.

Diplodus (dip'lō-dus). n. [NL., $\langle \operatorname{Gr}, \delta u \pi \lambda \delta o \varepsilon, \operatorname{double}, + \delta \delta o \delta \varepsilon (\delta \delta o \nu \tau_-), \operatorname{tooth}.$] Agenus of sparoid fishes found in the Atlantic. They are silvery in



Diplodus holbrookii. (From Bulletin 47, U. S. Nat. Museum.)

color, with black spots on the tail. Several species occur in the Mediterranean. D. holbrookii occurs on the Atlantic na one meanternanean. D. nouvrooms occurs on the Atlantic coast of the United States: known in Spanish and Portu-guese as Sargo.

diplogenesis, n. 2. In biol., the process by which a change in the environment which produces a change in an organism produces a similar change in the germ-cells that are contained in its body, so that descendants in later generations are born with an inherited adaptation for meeting and responding to this specific change in the environment. Cope.

[To] suppose that a modification of either the male or the female parent affects potential variation in the spermatozoōin or the ovum, is merely to re-state, in other words, that a change of environment which affects the parent likewise affects the generative products; and such a statement is nothing more or less than Cope's theory of Diplogenesis.

Natural Science, Nov., 1896, p. 288.

diplogenetic (dip"lō-jē-net'ik), a. 1. Relating to diplogenesis.—2. Same as diplogenic.

Diploglossa (dip-lō-glos'ä), n. pl. [Gr. διπλόος, double, + γλōσσα, tongue. The tongue is not forked, but the anterior portion can be withdrawn into the posterior, like the parts of a telescope.] A superfamily of Lacertilia, containing the glass-snakes, Anguidæ, and related forms: correlated with Pachyglossa and Leptoalossa. Cone. 1864. Cope, 1864.

diploglossate (dip-lo-glos'at), a. Having the anterior portion of the tongue retractile within the posterior part, like a two-jointed tele-

diplographic (dip-lo-graf'ik), a. [diplograph-y + -ic.] Of or pertaining to 'double-writing,' or to the diplograph, the machine by which it is produced.

diplographical (dip-lō-graf'i-kal), a. Same as

*diplographic.
diplography (di-plog'ra-fi), n. [Gr. διπλόος, deuble, + -γραφία, (γμάφειν, write.] The art of writing double, or the use of the diplograph, the machine by which this is accomplished. See diplograph.

diplohedral (dip-lo-he'dral), a. [diplohedr-on + ali.] Of or pertaining to a diplohedron, or

diploid.

diplohedron (dip-lō-hē'dron), n. [NL., ⟨ Gr. διπλόος, double, + ἐδρα, seat, base.] A diploid.

diploidal (dip'loi-dal), a. [diploid + -all.] 1.

Of or pertaining to a diploid.—2. Noting a class of symmetry, belonging to the isometric system, of which the diploid is the characteristic form. See *symmetry.

Diploma in public health, a certificate or diploma given to one who has passed an examination in public health. London University grants certificates in this department. Abbreviated D. P. H.

diplomate (dip'lō-māt), n. [diplomate, v.] One who holds a diploma.

Diplomatic bureau. See *bureau.

diplomyelia (dip*1ō-mī-ē'li-ā), n. [NL., < Gr. διπλόος, double, + μυελός, marrow (medulla).] A condition in which the spinal cord is double, or is made to appear so by a deep fissure which separates it into two distinct halves.

diplonephridium (dip'1ō-nē-frid'i-um), n.; pl. diplonephridia (-ā). [NL., 〈Gr. δαπλόος, double, + NL. nephridium.] A nephridium in the formation of which both ectoderm and mesoderm have taken part, the peritoneal funnel becoming connected with an ingrowth of the ectoderm, as in Polychæta generally.

diploneural (dip-lō-nū'ral), a. [Gr. διπλόος, double, + νεύρον, sinew, nerve.] Having a double nerve-snpply, each from a separate source: as, a diploneural muscle. Encyc. source: as, a Brit., XXV. 395.

diploperistomic (dip/lo-per-i-stom'ik), a. [Gr.

diploperistomic (dip*1ō-per-i-stom'ik), a. [Gr. διπλόος, double, + E. peristome + -ic.] In mosses, having a double peristome.
diplophonia (dip-1ō-fō'ni-ā), n. [Gr. διπλόος, double, + φωνή, sound.] Same as *diphthangia.
diplopia, n.—Crossed diplopia. In this form the image on the left side belongs to the right eye, and conversely: called also heteronymous diplopia.—Diplopia monophthalmica, double vision affecting one eye.—Direct diplopia, the form of double vision in which the image belongs to the eye of the same side. This occurs in convergent squint. Also called homonymous diplopia.
Heteronymous diplopia. Same as crossed *diplopia. diplopodic (dip-1ō-pod'ik), a. [diplopod + -ic.] In entom., like a diplopod.
diplopore (dip'1ō-pōr), n. [Gr. διπλόος, double,

diplopore (dip'1ō-pōr), n. [Gr. $\delta\iota\pi\lambda\delta\sigma$, double, $+\pi\delta\rho\sigma$, passage.] A term denoting the pairs of more or less vertical canals that piece the thecal plates in the order Diploporita of the Pelmatôzoa.

diploporite (di-plop'ō-rīt), a. and n. I. a. Pertaining to, or having the characters of the

order Diploporita.

II. n. A member of the *Diploporita*. diplopterygous (dip-lop-ter'i-gns), a. Belonging to or resembling the *Diplopteryga*.

Diplosoma, n. 2. [l. c.] Same as *diplosome, diplosome (dip'1ō-sōm), n. [NL. diplosoma, (Gr. διπλόος, double, + σῶμα, body.] In cytol., a double centrosome, or one that has divided into two daughter-centrosomes which have not yet moved apart to form the poles of a karyokinetic spiudle.

diplospire (dip'lō-spīr), n. [Gr. $\delta\iota\pi\lambda\delta o\varsigma$, double, $+\sigma\pi\epsilon\iota\rho\alpha$, a spire.] A double spiral, as the spiral brachial supports of some extinct Brachiopoda, in which the secondary spirals are formed by the production of the branches of the jugum between the lamellæ of the primary spiral cones. Diplospires occur in the genera Kayseria, Diplospirella, Thecospira, and some others.

Diplospondyli (dip-lō-spon'di-lī), n. pl. [NL., Gr. διπλόος, double, + σπόνδολος, vertebra.] A suborder of sharks including those forms in which the vertebral column is imperfeetly segmented so that two vertebral bodies and two neural arches arise from each segment. It includes the group known as Notidanida, most of the species being now extinct. The best-known of the living species is the common shark Hexanchus griseus.



Hexanchus griseus. (From Bulletin 47, U. S. Nat. Museum.)

diplospondylons (dip-lo-spon'di-lus), a. or pertaining to the suborder Diplospondyli. diplospondyly (dip-lo-spon'di-li), n. Same as

diplospondytism

diplostichous (di-plos'ti-kus), a. [Gr. διπλόος, double, $+ \sigma \tau i \chi o c$, row.] Having a double layer of cells, separated by a membrane, beneath the lens of the central eyes, as in the king crab, Limulus. Contrasted with monostichous.

diplostreptococcus (dip* $l\bar{o}$ -strep-t \bar{o} -kok'us), n.; pl. diplostreptococci (-si). [NL., \langle Gr. $\delta\iota\pi\lambda\delta\sigma\varsigma$, double, + NL. streptococcus.] A form of streptococcus in which the chains of cells occur

in pairs.

The Portuguese describe a diplo-streptococcus, which they state they have found constantly in the cerebro-spinal fluid at the post-mortem examination of their cases.

Jour. Trop. Med., June 1, 1903, p. 167.

Diplostylus (dip-lǫ-stī'lus), n. [Gr. διπλόος, double, + στέλος, a pillar.] A genus of amphipods of the Carboniferous period. diplotegis (dip-lot'ē-jis), n. Same as diplotegia. diplotegium (dip-lō-tē'ji-um), n. Same as

diplumbic (dī-plum'bik), a. [Gr. å.-, two-, + L. plumbum, lead.] Having two atoms of lead in the molecule.—Diplumbic arseniate, lead arseniate containing two atoms of lead in the molecule. It has been used as an insecticide.

Diporidium (di-pō-rid'i-um), n. [NL. (Wendland, 1825), ⟨Gr. δι-, two-, + πόρος, pore, + dim. -ιδιον. The name alludes to the two apical pores by which the anthers of some species debisce.] A genus of dicotyledonous plants of the family Ochnaceæ. See Ochna, 2.

dipped (dipt), p. a. In ceram., immersed in a color-preparation so as to tint only the surface: applied to the superficially colored white jasper body of pottery manufactured by Josiah Sam Wedgwood, in distinction from the solid jasper Dir. which was uniformly colored throughout its substance.

Dippel's animal oil, See *oil.

dipper, n. 11. In ceram., a workman who dips vare in the glazing or coloring preparation: See *dipped. -12. Any of the gastropod mollusks of the genus Bulla.

dipping-machine (dip'ing-ma-shēn"), n. In eandy-making, a machine for coating with chocolate the prepared candies cast from the depositing-machine by dipping wire-work trays filled with them in hot chocolate, removing

the surplus, and hardening and drying. It makes finished chocolates that exactly resemble those dipped by hand. See *depositing-machine and *starch-buck.

dip-pump (dip'pump), n. A device for elevating water or other liquid by dipping it in any manner. Some dip-pumps consist of a pair of barrels for raising the water, one barrel being lowered as the other is hoisted.

Diprion (di-pri'on), n. [NL., \langle Gr. $\delta\iota$ -, two-, $\pi \rho i \omega v$, a saw.] A name given by Barrande to graptolites with two rows of thecæ on the

rhabdosome.

Diprionidæ (dip"ri-on'i-dē), n. pl. [NL., < Diprion + -idæ.] A suborder of the graptolites comprising forms which have two to four vertical rows of thece placed back to back, as in the grappe Diplomater of the little of the li in the genera Diplograptus and Phyllograptus. dipropargyl (di-pro-pär'gil), n. A colorless, volatile, pungent liquid, CHlCCH₂CH₂CiCH, prepared by the action of potassium hydroxid

on diallyltetrabromide. It readily polymerizes and is a homologue of acetylene, which it resembles in general properties. It melts at -6° C., boils at 86-87° C., and is also called 1, 5-hexadiene.

dipropylketone (dī/prō-pil-kē'tōn), n. See

*heptanone.

dips, n. pl. See *dip, n., 7.

dip-section (dip'sek-shon), n. In geol., a section across inclined strata in the direction of

dipsesis (dip'sē-sis), n. [NL., \langle Gr. $\delta i\psi \eta \sigma \iota \varsigma$, thirsting, \langle $\delta \iota \psi \tilde{a} \nu$, feel thirst, \langle $\delta i \psi a$, thirst.] Pathological thirst.

dipsetic, a. II. n. A substance that produces thirst. Syd. Soc. Lex.
dip-side (dip'sid), n. The side in the direction of dip, the low side: used with reference to the attitude of rock formations in underground workings.

dip-slope (dip'slop), n. A natural slope of the surface of the ground which is parallel to the dip of the underlying strata.

Its [the Arun's] course was determined by the original dip-slope of the Weslden dome.

Geog. Jour. (R. G. S.), XV. 220.

dipteraceous (dip-te-ra'shius), a. Same as *dipterocarpaceous.
dipterid (dip'te-rid), n. One of the Dipteridæ.

Of dipterocarp (dip'te-rō-kārp), n. A plant of the family Dipterocarpaceæ. Nature, Jan. 1, 1903, p. 198.

dipterocarpaceous (dip "te-ro-kar-pa'shius), Belonging to the plant family Dipterocarnaces.

dipterocarpous (dip#te-ro-kar'pus), a. In bot., belonging to the genus Dipterocarpus or to the direction-word (di-rek'shon-werd"), n. Same family Dipterocarpaceæ.

dipterygian (dip-te-rij'i-an), a. Two-finned, as certain fishes.

dip-turner (dip'ter"uer), n. A workman in a pottery who decorates ware with a dip-com-

pound, or colored slip. See *dip-ware.
dip-ware (dip'war), n. Earthenware decorated with a dip-compound, or colored slip.

See the extract.

orm. Handbook Brit. Pottery and Porcelain, Mus. Prac. Geoi.,

dip-well (dip'wel), n. A well or spring from which water is obtained by dipping.

Dipylon vases. See *rase. dipyridine (dī-pir'i-din), n. [di-2 + pyridine.] Same as *nicotyrine.

An abbreviation of director.

diradiation, n. 2. Same as hypnotism. Syd. Soc. Lex.

Dircæan (der-se'an), a. Of or pertaining to the fountain of Dirce, in Bootia, sacred to the Muses: applied by Horace in one of his Odes diremption, n. 3. In veg. teratol., the abnormal to Pindar, the lyric poet, whom he styled the Direæan Swan.

In direct, a. 8. In math., according to the natural order or correlation: in contradistinction to inverse.

In every other mathematical operation the inverse process is lar more difficult than the direct process, subtraction than addition, division than multiplication, evolution than involution; but the difficulty increases vastly as the process becomes more complex.

Jevons, Prin. of Science, I. vii.

directable (di-rek'ta-bl), a. [direct + -able.]

direct-connected (di-rekt'ko-nek"ted), a. Said which the revolving generator or armature is borne on the shaft of the engine without any belt or other transmission device being re-

quired. Also called direct-coupled. direct-coupled (di-rekt'kup"ld), p. a. In mech., mounted upon a common shaft or upon shafts having the same axis and coupled so as to turn as one: said of the driving and driven portions of any mechanical system that are thus

direct-driven (di-rekt'driv"n), p. a. In mech., driven without the use of belts or other deing and driven parts being on a common shaft or direct-coupled: as, a direct-driven dynamo.

direct-geared (di-rekt'gerd"), a. Having no intermediate transmission-train of wheels or transforming mechanism intervening between the power-shaft and that which it drives: used of motor-cycles when a toothed wheel on the motor crank-shaft meshes into the gear fastened to the rear or driving-wheel. See also *directconnected.

connected.

direction, n.— Converse directions, in astrol., directions made in the reverse order of the signs, as when a planet in Pisces is directed to another in Capricorn.—

Direct directions, in astrol., directions made according to the succession of the signs, as when a plane in Capricorn is directed to one in Pisces.— Equation of arcs of direction in astrol., the method of turning directions into time, to ascertain at what period they will operate. The measure most commonly adopted is Ptolemy's, which allows a year for every degree.—Line of direction. (c) In psychol. optics, the straight line connecting a luminous point in space with the nodal point of the reduced eye, and continued thence to the retina. Primary directions, in astrol., calculations of the motions of the heavenly bodies in forming aspects with one another, as in the ascendant and mid-heaven.—Ray of direction, in psydirection, n.

chol. optics, the parts of the line of direction that lie before the cornea and behind the lens.—Secondary directions, in astrol., calculations of the times of events derived from the aspects formed by the sun and moon after birth, allowing each day to represent a year of the native's life.

Directional calculus. Same as *calculus of extension.

as catchword, 1.

directive. I. a.—Directive action force, etc. See
**action, **force, etc.
II. n. 1. In gram., a syntactic case expres-I. a.-Directive action force, etc. See

sing direction toward an object: also called polyp, a mesentery which forms one of the boundaries of the intermesenteric space at one of the poles of the principal axis.

directivity (di-rek-tiv'i-ti), n. The character of being directive. Science, July 31, 1903, p. of being directive. Science, July 31, 1903, p. 140.—Theory of Directivity, an attempt to explain the creation and growth of living things, by means of a vital power which gives origin to them and determines their manner of growth. It is opposed to any mechanical explanation of organic nature.

explanation of organic nature.

director, n., 2. (e) In geom., a fixed guiding line. (d)

The small printed or written letter inserted as a guide
in the space to be afterward filled by the designer or
illuminator of the large initial.—Director of an original line, in persp., the straight line which passes through
the directing point of the original line and the eye or projection-vertex.—Director of the eye, in persp., the
intersection of the directing-plane with a plane through
the eye perpendicular to the original plane and that of
the picture, and hence also perpendicular to the directing
and vanishing planes.

director plane (director plane).

director-plane (di-rek'tor-plan"), n. In math., a plane director, or given plane used in the de-

scription of a surface.

director-tube (di-rek'tor-tūb"), n. A tube with sights, or a telescope, by which a torpedo is

aimed at the object attacked.
directrix, n. 4. The first line traced on the ground in laying out a fortification.

directum (di-rek'tum), n.; pl. directu (-tä). [L., neut. of directus, straight: see direct.] A straight line.-In directum, costraight, that is, in one straight line.

displacement of leaves. See *displacement, 6.

The term diremption has sometimes been applied to cases where leaves are thus apparently dragged out of position.

Masters, Vegetable Terstol., p. 87.

dirhombohedron (dī-rom-bō-hē'dron), n.; pl. dirhombohedra (-drä). [NL., < di- + rhombohedron.] A solid having the geometric bohedron.] form of a double hexagonal pyramid, but consisting in fact of two complementary rhombohedrons; a quartzoid.

Capable of being directed or steered; dirigible: as, a directable balloon.

Dirina (di-ri'nä), n. [NL. (Fries, 1825), ζ Gr. δειρή, a ridge of a hill, lit. neck, + ina¹.] A genus of lichens, the type of the family Dirinaceæ, having simple crustaceous thalli, diseiform or elongate apothecia, and hyaline, spin-dle-shaned. 4-to 8-celled spores. The species occur on tree-trunks and rocks and are widely distributed.

Dirinaceæ (di-ri-nā'sē-ē), n. pl. [NL., < Di-rina + -aceæ.] A small family of gymnocar-pous lichens named from the genus Dirina. dirinoid (dir'i-noid), a. [Dirina + -oid.] Resembling the genus Dirina.

connected so that they revolve as a unit, without the intervention of belts or other devices for the transmission of motion.

direct-driven (di-rekt'driv'n), p. a. In mech., driven without the use of belts or other devices for the transmission of power, the driven direct as to free the cotton from dirt.

Also cald (dirt-grid.)

dirt-grid (dert'grid), n. Same as *dirt-bar. dirt-line (dert'lin), n. A thin stratum of dirt and debris which has collected on the surface of a glacier and been preserved under the seasonal fall of snow. J. Geikie, The Great Ice Age, p. 30. dirt-roller (dert'ro"ler), n. A small cylinder,

covered with card-clothing, on a roller-andclearer cotton-carding machine, situated above the feed-rolls, designed to remove from the main cylinder heavy impurities, such as motes, etc.

dirt-stop (dert'stop), n. A strainer: a form of foot-valve placed at the end of a feed-pipe to prevent solid matter from getting into the

feed-pump or injector. dis² (dēs), n.; pl. disir (-ir). [ON. dis, a sister, a female guardian spirit, etc.] In Norse

mythol., a guardian spirit.

dis. (b) In printing, an abbreviation of distribution, that is, dead type which is to be distributed into the various boxes of the typecase. See distribution, 3, and distribute, v. i., 2.

Disa (dĩ'sä), n. [NL. (Berg, 1767), of unknown derivation.] A large genus of terrestrial orchids, mostly native to tropical and south disburdenment (dis-ber'dn-ment), n. The act



Disa uniflora, one fourth natural size

Africa, characterized by free sepals, the upper sepal galeate and spurred, the petals small and joined to the column. Only one species, Disa uni-flora (D. grandiflora of Linneus), is cultivated to any extent; but this is very handsome and is sometimes called flower-of-the-gods. The flowers are several, large, rose-colored, crimson, and carmine-red in their various parts

disabusal (dis-a-bū'zal), n. [disabusc + -all.]
The act of disabusing. Mrs. Whitney.

disaccharid, disaccharide (dī-sak a-rid or Same as $\star biose$.

disaccord (dis-a-kôrd'), n. [disaccord, v.] Want of accord; disagreement; lack or absence of harmony. Southey.

disacrone (dis-ak'ron), n. [Gr. \delta c, twice, +

disacrolle (disacroll, n. [or. δη, twice, + acr(olein) + -one.] An old name for *disacryl. disacryl (dis-ak ril), n. [Gr. δης, twice, + acr(olein) + -yl.] An amorphous, resinous product formed by the spontaneous polymerization of acrolein.

disappearing (dis-a-pēr'ing), p. a. That disappears; vanishing.—Disappearing gun. See dis. ch. In chess, an abbreviation of discovered

disapprobative (dis-ap'rō-bā-tiv), a. That expresses disapprobation: as, a disapprobative frown,

disarm, v. t. 5. To press (the lips of a horse) outward so that they may not be bruised on the toothless portions, or bars, of the lower jaw.

Give your horse a hit with a cannon coope, or cut, which will disarm his lips.

T. Wallis, Farrier's Dict.

disartete (dis-är'tēt), a. [Appar. \langle L. dis-, apart, + Gr. * $\dot{a}\rho\tau\eta\tau\dot{\phi}c$, \langle $\dot{a}\rho\tau\ddot{a}\nu$, hang, suspend.] Said of fishes in which the palatine cartilage or its derivates are attached to both the preethmoid and the par-ethmoid cornua rather than confined to the former, as is the case in the acrartete type of fishes.

The other Percesoces examined by him, as well as the Cyprinodonts, are disartete (the attachment being at the par-ethmoid and pre-ethmoid cornua); but the character is so indistinctly defined in some adult Cyprinodonts, that I feel some diffidence in making use of this character for systematic purposes in the present state of our knowledge.

Annals and Mag. Nat. Hist., March, 1904, p. 174.

disarticulator (dis-är-tik'n-lä-tor), n. ticulate + -or1.] One who or that which disarticulates or disjoints.

disassemble (dis-a-sem'bl), r. t.; pret. and pp. disassembled, ppr. disassembling. [dis-+ assem-

ble.] To take apart. disassimilate (dis-a-sim'i-lāt), v. t.; pret. and nsassimilate (dis-asim Plat), c. 7., pret. and pp. disassimilated, ppr. disassimilating. [dis-pp. disassimilated, ppr. disassimilating. [dis-+ assimilate.] To cause recrograde metamor-*delinguating* (dis-chärj'pīp"), n. Same as phosis or disassimilation in.

disassimilation (dis-a-sim-i-la'shon), n. The opposite of assimilation; specifically, the same as retrograde metamorphosis (which see, under metamorphosis) or catabolism.

disassimilative (dis-a-sim'i-lā-tiv), a. In

physiol., of the nature of catabolism (which

pagsack, of the hathe of eatarons in (which see); resulting from disassimilation or catabolism: as, disassimilative products.

disattaint (dis-a-tānt'), v. t. [dis-+ attaint.]

To free from attainder. See attaint, v., 4.

disazo- (dis-az'ō). A combining form used in

organic chemistry to indicate the presence of

two azo radicals, RN2R, in the molecule of a compound. Compare diazo-.

of disburdening; relief from the burden of something oppressive. Bentham.

disbursable (dis-bers'g-bl), a. Capable of being disbursed or expended; retailable.

Ancedotes also are portable, unlike the lightning-flash, which will not go into the pocket; they can be carried home, they are disbursable at other tables.

G. Meredith, Diana, xiv.

disbury (dis-ber'i), r. t.; pret. and pp. disburied, ppr. disburying. [dis-+bury3.] To disinter; resurrect: as, disburied secrets. Buluer. discal, a. 3. In bot., located on the surface of a frond; superficial: applied to ferns. J. Smith.

discalenohedron (dī-skā-lē "nō-hē'dron), n.; pl. discalenohedra (-drä). $[di^{-2} + sealenohedron.]$ A double twelve-sided (dihexagonal) pyramid, whose faces belong to two complementary scalenohedrons.

Discalia (dis-kā'li-ä), n. [NL., ζ Gr. δίσκος, disk.] The typical genus of the family Discalidæ. Haeckel, 1888

Lowell, To W. L. Garrison, st. 5.
 Lischromatopsy (dis-kpro'ma-top-si), n. [Gr. de, two-, + χρῶμα(τ-), color, + ὑμις, view.] Color-blindness.
 Lisciferous, a. 2. In zoöl., provided with a disk.
 discigerous (di-sij'e-rus), a. [L. discus, disk, + gerre, bear, + -ous.] Disk-bearing: as, discigerous woody tissue.

discard, n., 1. (c) In poker, the pile of cards made up by the hands which are abandoned without being bet upon, and the cards which have been laid off so as to get others in exchange for them.

discarnate, a. 2. Disembodied; disincarnate. We ought to expect a priori that a discarnate memory should be defective in its communications from a transcendental world.

J. H. Hyslop, in Proc. Soc. Psychical Research, XVI. 216.

discept (di-sept'), v. i. [L. disceptare, decide, judge, dispute, \langle dis-, apart, + eaptare, take.]
To dispute; take exception; differ: as, allow me to discept. Peacock.

discerptor (di-serp'tor), n. One who discerps, dismembers, or disjoins.

The first discerptor [of the genns Cimex] was Fabricius, who, in a perfectly straightforward manner, removed our species Heetularins] from Cimex to form a part of his new genus Acanthia.

Nature, March 17, 1904, p. 464.

 $\star cheek.$

discharge, v. t. 9. In law, to make an end of; annul; eancel: as, to discharge a rule to show

cause.

discharge, n.—Brush discharge, in elect., the brushlike electric discharge issuing from a high potential
conductor, especially from its points or edges. It is accompanied by a bluish or pink glow, is either silent or produces a hissing noise, and frequently precedes disruptive
sparks. See electric spark, under spark1.—Coefficient of
discharge, See *coefficient.—Electrodeless discharge,
the glow excited in the vapor within an exhausted glass
tune or bulb having no electrodes, when the tube is placed
within the oscillatory field of a Tesla coll or other device
for the production of oscillatory electrical discharges of
high frequency. high frequency.

The electrodeless discharge is more simple in appearance and in constitution than the better known discharge

in vacoum tubes between electrodes.

B. Davis, in Physical Rev., xx. 129. B. Davis, in Physical Rev., xx. 129. Law of nervous discharge, in Spencer's psychol, the principle that "every feeling, peripheral or central, sensational or emotional, is the concomitant of a nervous disturbance and resulting nervous discharge, that has on the body both a special effect and a general effect." (H. Spencer, Prin. of Psychol., ii., § 495).—Tesla discharge, in elect., the disruptive electric discharge of high frequency obtained from a Tesla coil. See Tesla *coil.—White discharge an electric discharge through vacuum tubes, obtained when the tubes contain dry air or certain other gases, as carbon dioxid, under certain pressures. It is characterized by a bright glow of white light which fills the tube.

The white discharge may be produced in all the gases with which 1 have experimented.

B. Davis, in Physical Rev., XX. 149.

*delivery-pipe.

*delivery-pipe.

discharger, n. (c) In transportation, a machine or appliance used in discharging freight, coal, grain, or other naterial in bulk, from a carrier, conveyer, or elevator. The most simple form is an opening at the end or bottom, at any point of the trough of a conveyer through which the load is pushed by the screw or the flights of the conveyers, and elevators the discharger may be the end wheel over which the belt or scries of buckets passes, the change in direction (assisted by the momentum) serving to discharge the load upon a table or into a bin, hopper, spout, or another conveyer. Dischargers are divided into stationary machines that trip, upset, or invert the buckets of a horizontal conveyer and cause them to discharge their loads at a fixed point, and machines that travel along the line of the conveyer and automatically discharge

discobolic

the loads at any desired point. Also called automatic dumper. (d) In mining and industrial railroading, a device for unloading skips, ore-cars, etc., upon inclined roads or slopes. One device consists of an open abrupt change in the grade of the track, wherehy the forward end of the car, to which the hauling-cable is attached, is tilted up and the load discharged through a gate at the rear. Another device employs two tracks at the dumping-point, and a skip with four wheels of which the rear pair have a wider tread than the forward pair. The skip is hauled by a cable attached to a link pivoted at the rear end of the skip; and when the discharger is reached the forward wheels follow the inside or narrow tracks, which here run in a horizontal direction, while the rear wheels continue on the inclined rails. This causes the skip to be tilted up, discharging the load at the front and open end. When empty, the skip roms back down the incline in its normal or loaded position.

discharge-water (dis-charj'wâ"(tor), n. The

discharge-water (dis-chärj'wâ"ter), n. The water discharged by a pump: specifically water which is discharged after passing through a

condenser.

discharm (dis-charm'), v. t. [dis- + charm1.]

To deprive of charm or the power of charming; deprive of the protecting influences of charms; disenchant.

Brave Luther answered YES: that thunder's swell Rocked Europe, and discharmed the triple crown.

Lowell, To W. L. Garrison, st. 5.

disk.
discigerous (di-sij'e-rus), a. [L. discus, disk, + gerere, bear, + -ous.] Disk-bearing: as, discigerous woody tissue.
discin (dis'in), n. [Gr. δίσκος, disk, + -in².] The albuminous component of the jelly of Medusæ: possibly an albuminoid.
Discinidæ (di-sin'i-dē), n. pl. [NL., < Discina + -idæ.] A family of neotrematous Brachiopoda having chitinous, subcircular plano-convex shells with an open pedicle-notch in early vex shells with an open pedicle-notch in early life which becomes inclosed as a long narrow slit partially covered behind or near the apex by a listrinm.

Discinisca (dis-i-nis'kä), n. [NL., \langle Discina + dim. -isca, \langle Gr. -i\u00f6nco, \u00e4] A genns of Brachiopoda resembling Discina, but having an internal septum behind which is an elevated area about

the pedicle-opening. See Discina. disciplinability (dis"i-plin-a-bil'i-ti), n. The quality of being disciplinable.

Marro lays chief stress upon disciplinability and socia-ility. G. S. Hall, Adolescence, I. 299. bility.

disciplinatory (dis'i-plin-a-to"ri), a. Promotive of discipline: as, disciplinatory educational methods.

discipline, n.—Jamaica discipline, a former bucaneer or pirate law, to the effect that all prizes should be
divided among the captors and not shared by those who
take no part or risk in the capture.—Prefect of discipline, in the Jesut schools, one who has charge of the
disciplinary regulations for the students.

disciplular (di-sip'ū-lär), a. [L. discipulus,
disciple, + -ar³.] Pertaining to or characteristic of a disciple: as, discipular patience.

N. E. D.

discission, n.— Space of discission, in geol., a crevice or space of dynamic origin; a separation of walls that had been in contact: used in contrast with space of ★dissolu-

Formerly 1 called such spaces (with reference mainly to the accompanying fault-phenomena) "Spaces of Dislocation" but 1 believe the term "Spaces of Discission" . . . would be more suitable. F. Pôsepný, in Trans. Amer. Inst. Min. Engin., XXIII. 208.

disclaimant (dis-kla'mant), n. [disclaim + -ant.] A disclaimer; specifically, one who enters a disclaimer in a patent case. See dis-

elaimer, n., 3 (d). disclassed (dis-klast'), p. a. Same as declassed, a.

disclassify (dis-klas'i-fi), v. t. [dis-+ classify.] To abolish classificatory distinctions in regard to; do away with the classification of.

The process of levelling, disclassifying, making everybody like everybody else.

Grote, Utilit. Philos., xix. N. E. D.

disclosure, n. 3. The hatching of the young

from the egg, as in birds and reptiles, or the escape of insects from the pupa-case.

discloze, disclosure. Simplified spellings of disclose, disclosure. discobolic (dis-kob'ō-lik), a. [discobolis + -ic.] Of or pertaining to a discobolus; quoitthrowing.

He gave loose to the full torrent of his indignation, by seizing . . . a vast dish of beef, more than fifty ancient yeoman could eat, and whirled it like a coit, in terrorem, over the head of the friar, to the extremity of the apart-

Where it on oaken floor did settle, With mighty din of ponderous metal. . . .

But . . . his discobolic exploit proved the elimax of his rage, and was succeeded by an immediate sense that he had passed the bounds of legitimate passion.

T. L. Peacock, Maid Marian, v.

He [an Indian chief] always treated me with a certain disconfidence as is entanger among the Indians even in

Discocampyli (dis-kō-kam'pi-lī), n. pl. (Gr. δίσκος, a disk, + καμπύλος, crooked.] In Hyatt's elassification of the ammonites, a suborder characterized by the rounded outline of the saddles of the septal sutures while the lobes become greatly divided, as exemplified in the genus Ceratites (which see, with cut). In highly advanced forms even the discocampylic saddle disconsider (dis-kon-sid'er), r. t.

discocampylic (dis-kō-kam'pi-lik), a. Of or pertaining to the Discocampyli; having rounded

saddles, as the Discocampyli.

discocellular (dis-kō-sel'ū-lär), a. [L. discus, disk, + Nl. cellula, cell, + -ar3.] Of or pertaining to the diseal cell in the wings of lepidopterous insects.

discoctaster (dis-kok-tas'ter), n. [NL., \langle Gr. διακος, disk, + δκτώ, eight, + αστήρ, star.] A sponge-spieule with eight rays, each terminating in a disk, the position of each of which corresponds to one of the eight corners of a cube.

Discocytis (dis-kos'i-tis), n. [Gr. δίσκος, a disk, + κυτίς, a box.] A genus of Cretaceous Bryozoa forming obconic and eup-shaped zoaria the upper side of which has a decidedly radial structure.

radial structure.

discodactylous (dis-kō-dak'ti-lus), a. [Gr. discontinuous, σ. froup. See *group. S

discodepula (dis-kō-dep'ū-lä), n. [NL., \langle Gr. discoperipheral (dis'kō-pe-rif'e-ral), a. [Gr. discoperipheral (dis'kō

Haeckel.

discoglossoid (dis-kō-glos'oid), a. Resembling the Discoglossidæ, a family of toads.

Discohelix (dis-kō-hō'liks), n. [NL., < Gr. δίσκος, a disk, + ἐλιξ, a spiral.] A genus of rhipidoglossal gastropods of the family Euomphalidæ, having flat discoidal shells and reetangular whorls. The species occur in rocks from the Triassic to the Tertiary.

discohexact (dis-kō-heks'akt), n. [Gr. δίσκος]

discohexact (dis-kō-heks'akt), n. [Gr. δίσκος, disk, + ἐξ, six, + ἀκτίς, ray.] Same as disco-

hexaster.

discohexactine (dis "kō-hek-sak'tin), n. [Gr. $\delta i\sigma\kappa o c$, a disk, + $\dot{\epsilon} \xi$, six, + $\dot{\sigma}\kappa \dot{\tau} \dot{c}$ ($\dot{\sigma}\kappa \tau v$ -), a ray.] In the nomenelature of the spicular elements of the sponges, a hexactine which bears at the end of each arm or ray a rosetto or serrated umbel.

Discoidal stone, See *stone.

Discoidea, n. pl. 3. A family of peripylarian Radiolaria having the shell and central capsulo discoid or lenticular. It includes Cenodiscus, Phacodiscus, Coccodiscus, and other genera

discolichen (dis-kō-li'ken), n. [NL. discolichen, $\langle Gr. \delta i \sigma \kappa \sigma c, disk. + \lambda \epsilon \iota \chi \psi \nu$, liehen.] Any one of the lichens which belong to the division discolichen Discolichenes.

Discolichenes (dis*kō-lī-kē'nēz), n. pl. [NL., pl. of discolichen: see discolichen.] A division of the Ascolichenes in which the fruetification is in the form of open disk-like apothecia. pare Pyrenolichenes.

discolith, n. 2. A disk-shaped coecolith convex on one side and concave on the other.

Discomedusæ, n. pl. 2. Same as Octomeralia. discomfort, n.—Curve of discomfort, See *curve. discomposedly (dis-kom-pôz'ed-li), adr. In the manner of one who is discomposed, perturbed, or disturbed in mind.

Disconanthæ (dis-kō-nan'thē), n. pl. [NL., appar. erroneously for *Discoanthæ or *Discanthæ, < Gr. δίσκος, disk, + ἀνθος, flower.] A suborder of Siphonophara; equivalent to Dis-

Conanthæ.

Disconectæ (dis-kō-nek'(tē), n. pl. [NL., ⟨ Gr. δίσκος, disk, + νήκτης, swimmer.] A suborder or section of Siphonophora. The body, or cœnosome, is formed by the umbrella of the original octoradial medusa and includes an apical chambered pneumatophore, without nectophores or bracts, on the lower surface of which occur the individuals consisting of a central gastrozoid surrounded by concentric rings of blastostyles and dactylozoids. The larva is called a disconnala. The group includes the families Disculate. Equivalent to Disconanthæ. Equivalent to Disconantha.

disconectous (dis-ko-nek'tus), a. Of or pertaining to the Disconectae.

He [an Indian chief] always treated me with a certain disconfidence, as is customary among the Indians, even in contact with their friends.

Geog. Jour. (R. G. S.), XII. 64.

disconform (dis-kon-fôrm'), a. Not conformadisconform (dis-kon-form), a. Not compound ble (to) or in conformity (with): as, the work is disconform to the specifications. [Scotch.] disconnective (dis-ko-nek'tiv), a. Disjuncdisconnective (dis-ko-nek'tiv), u. tive: that disconnects or serves to disconnect. To leave out of consideration; set aside as not worth consideration or respect.

As the man was now disconsidered and as good as deposed, we might reduce his proportion of the plunder.

K. L. Stevenson, Master of Ballantrae, iii.

disconsideration (dis-kon-sid-e-rā'shon), n. The state of being disconsidered; disrepute.

I have now arrived at such a pitch of disconsideration that . . . I do not know a soul that I can face.

R. L. Stevenson, The Dynamiter, p. 190. N. E. D.

discontiguity (dis-kon-ti-gū'i-ti), n. Lack of contiguity or continuity. Dr. H. More.

discontinuity, n.—Polar discontinuity, a discontinuity of a function consisting of its assuming, in the environs of the point x=a, values differing little from $\frac{\mathbf{F}x}{(x-u)}$ where Fx varies regularly in that part. The exponent m is the order of the polar discontinuity.

mouth, as the teeth and sucking-disk of the lamprevs.

discoplacental, a. 2. Relating to, or having the characters of the group of mammals known as Discoplacentalia from the character of the

discoplacentalian (dis-kō-plā-sen-tā'li-an), a. and n. I, a. Relating to or resembling the Discoplacentalia.

II. n. A member of the Discoplacentalia. discoplanula (dis-kō-plan'ū-lā), n.; pl. disco-planulæ (-lē). [NL., ζ Gr. δισκος, disk, + NL. planula.] The discoidal blastoderm of an egg with a large unsegmented food-yolk, at the stage of development which is comparable with the blastula-stage of an egg that undergoes total segmentation.

discoplasm (dis'kō-plazm), n. [NL. discoplasma (Ehrlich), \(\sigma_{\text{c}}\) disk, \(\perp \pi^2 \alpha \alp red blood-eorpuscles in contradistinction to the hemoglobin. Ehrlich.

discopodous (dis-kop'ō-dus), a. [Gr. δίσκος, disk, +ποίος (παδ-), foot.] Having a disk-shaped

foot, as certain gastropods.

Discopyge (dis- $k\bar{\phi}$ -pi' $j\bar{e}$), n. [NL., \langle Gr. $\delta i\sigma\kappa\phi$, disk, $+\pi\nu\gamma\eta$, rump.] A genus of numb-fishes or torpedoes of the family Narcobatidx found in the Panama region. D. tschudii is the common

discord, n. 2. A discord is said to be prepared when the dissonant tone is first introduced in its voice-part as a consonance and then is held over into a dissonant relation by that part, or even when it is reached by its voice-part through a diatonic step: but it is unprepared when introduced by a skip or abruptly. See preparation, 9.

discordance, n. 3. In gcol., a lack of parallelism or complete conformity in associated stretch.

or complete conformity in associated strata. Discordant feeling, in Wundt's psychol., a contrast feeling, exemplified among the sense-feelings by tickling, among the intellectual feelings by doubt, and among the elementary esthetic feelings by dissonance.

The oscillatory and the discordant feelings are, perhaps, the most instructive examples of these complex affective

suborder of Supnonopuora; equivaient to Disconactae. Contrasted with Siphonanthae.

Misconanthous (dis-kō-nan'thus), a. Having the characteristics of, or relating to, the Disconanthae.

INT. Contrasted with Siphonanthae.

Miscordant valley. See **ealley.*

discorhabd (dis'kō-rabd), n. [Gr. δίακος, disk, + ρ̂a/βδος, rod.] In the nomenclature of the spicular elements of the spicular elements of the spicular elements of the spicular elements. straight rhabl with one sharp and one blunt end and girdled with concentric rings.

discouple (dis-knp⁷), v. t.; pret. and pp. discoupled, ppr. discoupling. To separate (couples) into units; uncouple.

We entered through the cleft, one before the other, ascending the steps whose narrowness discouples those who mount.

B. S. Dugdale, Daute's Purgatorio, xxv.

discourse, n. 6. That sort of mental operation, performed by one person or by several, in which a line of thought is followed out. In either case, it is conducted by signs which are in part general, or typical, in their own mode of being, usually ordinary language; in part diagrams or other iconic signs; and in part indices, such as individual signs representing the typical signs. A sign in functioning as such must be interpreted, or be translated into thought signs, and must be addressed to some interpreted; because it is a sign in different attitudes of mind, and addresses the self of a moment later. Discourse, in this sense, is not, like that of 2, restricted to ratiocination. (4, F. Stout, Analyt. Psychol., 1, 87.

discovery, v. t.—To discover check. See *chrek!. discovery, n.—Bill of discovery, see *bills. discreate (dis-krē-āt'), v. t.: pret. and pp. discreated, ppr. discreating. To cause (that which the beautiful to return to its continual policy.) has been created) to return to its original nothingness or to chaos.

discreation (dis-krē-ā'shon), n. The act of dis-

discrepate (dis-krep'at), v. i.; pret. and pp. discrepated, ppr. discrepating. [L. discrepare, differ, discriminate: see discrepant.] To discriminate; distinguish.

discriminability (dis-krim "i-na-bil'i-ti), n.
The property of being discriminable; the character of that which may be discriminated.

Clearness implies a maximal discriminability or separa-Clearness implies a machine bility from other processes.

E. B. Titchener, Exper. Psychol., 1. ii. 189.

discriminant. I, n.—Discriminant of f(x) = 0, the product of the squares of all the differences between any two roots of the equation.

II. u. 2. Discriminating.

discriminate, $v.\ i.-$ Discriminating eircle, cubic. ec circle, *cubic, n.

Discrimination reaction, discriminative reaction, in psychophysics, a reaction in which the movement of response is delayed until an act of discrimination has heeu performed, that is, until the reactor has identified the given stimulus as some one of two or more stimuli previously known and agreed upon.

In the discrimination reaction, he [the subject] moves when he has apperceived some one of two or more familiar stimuli.

E. B. Titchener, Primer of Psychol., p. 260.

stimuli. E. B. Titchener, Primer of Psychol., p. 260.

Law of discrimination. Same as Weber's law (which see, under law!).—Sensible discrimination, in psychophysics, a term introduced by Fechner to cover the experiencing of mental processes, alike or different, and the report of their likeness or difference. It is used more especially of the methodical comparison of sensations, with a view to the determination of the difference-limen. The German term, unterschiedsemphadlichkeit, has been variously translated difference sensibility, differential sensitivity, discriminative sensibility, and sense discrimination. J. M. Baldwin's Dict. of Philos. and Psychol. (ii. 517) recommends sense discrimination; E. B. Titchener (Exper. Psychol., II.) uses differential sensitivity (abbreviated D. S.).

The instrument of this analysis [of sensations] was

The instrument of this analysis [of sensations] was denominated by Fechner sensible discrimination.

O. Kulpe (trans.), Outlines of Psychol., p. 31.

discrimination-time (dis-krim-i-uā'shon-tim), n. In psychophysics, the total duration of the discrimination reaction, or, more commonly, this time minus the duration of the simple reaction.

By subtracting the previously determined simple time on this longer time we get a discrimination time. If, Wundt (trans.), Human and Animal Psychol., p. 279.

Discriminative limen, threshold. See *limen. disct. A contraction of discount.

disculor, v. t. and a. A simplified spelling of

disculus (dis'kū-lus), n.; pl. disculi (-lī). [NL., dim. of discus, a disk: see disk.] In Hepatica, the oceasional adventitious inflated lower lobe.

See auricle, 3, (c). Spruce. discumfort, v. t. and n. A simplified spelling of discomfort.

discurage, v. and n. A simplified spelling of

discurteous, discurtesy. Simplified spellings of discourtcous, discourtesy,

discuver, discuvery. Simplified spellings of

discover, discovery,
discover, discovery,
disdisclasis (dis-di-ak'la sis), n. [Gr. δic, twice,
+ διάκλασις, takeu as 'refraction': see diaclasis.] In optics, double refraction.

disease, n.— Acarine diseases. See *wearine, n.—
Adams-Stokes disease. Same as Nokes-Adams *disease, Adams-Stokes disease. Same as Nokes-Adams *disease, Adams-Adams-Stokes disease, See *adenoid-Almond-disease, See *teat-blight.— American coffee-disease, circular whitish blotches occurring on the leaves, shoots, and berries of the cottee plant in America: said to be due to the fungus Nilhum faridum.— Association disease, See *association.— Baelz's disease of the lip. See *tip.—
Banana-disease, a disease of banana-stems in the West Indies, attributed to the fungus Marasmius semination of the spleen with cirrhosis of the liver, anaemia, abdominal dropsy, and sometimes jamudice.—Barcoo disease, an affection, occurring in the elevated regions of South Australia, characterized by gastrie disturbances, bulinuia, and an eruption followed by extensive desquamation and sometimes slonghing of the subcutaneous tissues. Also called faceous comit and Barcoo rot.—Barlow's disease, infantile scurvy.—Bazin's disease, unberculous ulceration of the leg: pseriasis of the mouth; molluscum contagiosum.—Bechterew's disease, gen-

disease

eral muscular atrophy with extreme stiffness of the spine.

—Bermuda Illy disease, a disease of the cultivated lily characterized by spotting and distortion of the leaves and flowers and usually a stunting of the whole plant. It is believed to be caused by digging and using the bulbs before they have ripened.—Bottom disease, See **crotatism.—Brindle disease. Same as mosaic **disease.—Brown disease, a disease which affects potatoes, causing the inbrovascular bundles to turn brown. It is attributed to the fungus Stysanus stemonites.—Brown-Séquard's disease, paralysis of one side of the body with aneasthesia of the other side.—Bull's disease, a disease of newborn infants, marked by fatty degeneration of the liver, edema. purpura, and other morbid conditions.—Cabbage, caused by the fungus Objetium Brassicze, which attacks the stem near the surface of the soil and kills the plant.—Cacao—disease, disease of cacao-pods, due to the fungus Phytophthora omnivara.—Calico disease, a serious disease of the grupe in California vine-disease, as serious disease of the grupe in California characterized by the imperfect development of the flowers and fruit and finally the death of the plant. Its cause is imknown.—Canna-disease, a disease of canna-leaves, due to Uredo Cannæ, which causes orange spots at first and finally the death of the leaf.—Carnation disease, a disease of canna-leaves, due to Uredo Cannæ, which causes orange spots at first and finally the death of the leaf.—Carnation disease, a disease of canna-leaves, due to Uredo Cannæ, which causes orange spots at first and finally the death of the leaf.—Carnation disease, a disease of cannaterves, due to Uredo Cannæ, which causes orange spots at first and finally the death of the leaf.—Carnation disease, a disease of cannaterves, due to Uredo Cannæ, which causes orange spots at first and finally the death of the leaf.—Carnation disease, a disease of cannations following the attacks of aphides.

More recent researches by Woods go to show the correctness of his conclusion that aphides alone are responsible for the carnation-disease. Encyc. Brit., XXVI. 60. sible for the carnation-disease. Energe. Brit., XXVI. 60.
Carrot-disease, a disease characterized by brownish, sunken spots on the root of the carrot, caused by Phoma sanguinolenta. It also attacks the stem and prevents the formation of seed.—Cattle-and-game disease, a fatal infectious disease of eattle, deer, and other animals, due to a minute polar-stained micro-organism of the swine plague group, which gains access to and multiplies in the blood. Also called hemorrhagic septicemia.—Chestnut disease, an obscure disease of plants in which they die backwards from the top.—Climatter disease, any disease supposed to be caused by a change of climate, as the so-called fever of acclimatization of the tropics.—Coffee-disease, as errous diseases of the an obscure disease of plants in which they die backwards from the top.—Climatte disease, any disease supposed to be caused by a change of climate, as the so-called fever of acclimatization of the tropics.—Coffee-disease, aserious disease of the coffee-plant in India and other portions of the Old World. It is caused by one of the must fungi. Hentileia wastarix, which attacks the leaves causing yellow discoloration and death.—Coffee-leaf disease. Same as coffee-Adisease.

—Colocasta-disease, a disease caused by Peronospora trichotoma, which attacks the roots of Catadium Colocasta in the West Indies.—Confer seedling disease, a disease of confers, especially of spruce and silver fit, enused by the fungus Pestalozzia Hartipii, which attacks the young plant at the surface of the soil and kills it.—Coral-spot disease, canker-like cracks or excresences on the branches of various trees, associated with the bright red fungus, Nectria cinnabarina.—Cretinoid disease. Same as supraema.—Darler's disease. Same as **xeratorsis folliculorum.—Dercum's disease. Same as **xeratorsis folliculorum. Dercum's disease. Same as **xeratorsis folliculorum. Dercum's disease. Same as **xeratorsis folliculorum. Dercum's disease. Same as **Dubris's disease.—Drooping disease, a demartitis herpetiformis.—Echinoococcus See hydatid.—Elevator disease. Dubris's disease, as form of pneumonoconiosis, or dust-disease, which affects those who run elevators in coalmines.—Family disease, and server disease, same as **xeratorsis folliculorum. Dercum's disease, dermant measles, and sease disease of the nervous system.—Fam disease, forman measles, and sease diffection of the elevator disease,

ally as an inflammation of the lower portion of the great sesanoid sheath and causing severe intermittent lameness; seen exclusively in the horse.—Oak-seedling disease, a disease of the roots of seedling oaks due to the pyreno-mycetous fungus Rosellinia quereina.—Paget's disease, Same as matignant papillary *dermatitis.—Pandanus-disease, a disease which attacks the trunk and branches of the screw-pine, Pandanus, attributed to the fungus Melanconium Pandani.—Parrohment disease. Same as parchment-skin.—Parrot's disease, a syphilitic inflammation of the articular ends of the long bones, giving rise to pseudoparalysis.—Pearly disease, a form of tuberculosis in cattle.—Potato-disease. (b) Same as polatolate *blight.—Recklinghansen's disease, an affection marked by the occurrence of fibrous growths on the nerves, of skin tumors resembling molluscum fibrosum, of pigmentation of the skin, and of pains in the joints.—Red disease, a former name in some parts of England of log-cholera and swine-plague, on account of the red patches which appear on the skin of affected animals. See hog-cholera under cholera.—Reichmann's disease, lypersecretion of the gastric juice.—Riga's disease, a form of ulcerative inflammation of the under surface of the tongue and floor of the mouth.—Sacred disease, a name formerly applied to evilence. patches which appear on the skin of affected animals, see hop-cholera under cholera.—Reichmann's disease, hypersecretion of the gastric juice.—Riga's disease, a form of ulcerative inflammation of the nuteous membrane of the under surface of the tongue and floor of the mouth.—Sacred disease, a name formerly applied to epilepsy.—Sacred-liac disease, a nomic tuberculous inflammation of the sacro-iliac joint.—Savil's disease, an epidemic inflammation of the skin accompanied by extoliation of the epidermis.—Screw-pine disease. Same as Pandanus *disease.—Scythian disease, a form of insanity occurring in adult males, preceded by atrophy of the sexual organs and impotence.—Silver-fir leaf-disease, a form of insanity occurring in adult males, preceded by atrophy of the sexual organs and impotence.—Silver-fir leaf-disease, a disease of Abies Picea, caused by the pyrcnomy-cetous fungus, Acauthostigma parasticium, which covers the under surface of the leaves and stems with a yellow-brown mycelium.—Sleeping disease, Same as sleepy *diseases.—Soli-disease, and disease of tomatoes which attacks the roots and causes the plant to wither and die. It is caused by Fusarrium Lycopersici, according to which is derived from the soil.—Sors shin disease, a disease which attacks cotton seedlings near the surface of the soil and causes their death. It is attributed to an undetermined fungus.—Spotitisease, any disease the plants which produces spots on the leaves, particularly the disease of the leaves of the violet caused by Alternaria Violæ. See *leaf-spot.—Steppe disease, the Russian cattle-plaque.—Still's disease, an affection in children in which there is entergement of the spleen and lymphatic glands associated with an inflammatory state of many of the joints.—Stokes-Adams disease, a slowly progressive form of degeneration of the heart muscle, marked by attacks of fainting, dizziness, or convulsions, dropsy, slow pulse, solve produced to the sease of plane and the companient of the splace and foot disease, a disease or pigmentation, mospora vasinfecta. See *wilt for other wilt diseases

— Yellow disease of the hyacinth. Same as *bacte

disease-fungus (di-zēz' fung-gus), n.; pl. disease-fungi (-1). A fungus capable of producing disease in either animals or plants.

disease-proof (di-zēz' pröt), a. In bot., proof against disease. See *resistant, I. 2.

against disease. See *resistant, 1.2. diseme (dī'sēm), n. [L. disēmus, ζ Gr. δίσημος, of doubtful quantity (having two possible quantities), ζ δι-, two-, + σῆμα, a mark, taken in sense of σημεῖον, a mark, sign, unit of time, mera.] In anc. pros., a syllable containing two more or units of time. See disemie.

disenactment (dis-e-nakt'ment), n. [disenact The repeal of an enactment. + -ment.]

disengagement-gear (dis-en-gāj'ment-gēr), n. A releasing-gear; a device for disengaging a catch from the notch or pin with which it is engaged. Such a gear is used in Corliss engines to let the admission-valve close at the right time.

disengagement-governor (dis-en-gāj'mentguv"er-nor), n. A governor which works by disengaging the valve-gear when the speed is high, thus closing the regulating-valve. and by engaging the valve-gear when the speed is too low and so opening the regulating-valve. When the engine runs normally the governor runs free.

disenmesh (dis-en-mesh'), v. t. To free from entanglements or entangling meshes.

> As ye behold this web of circumstance as ye benord this web of circumstance Deepen the more for every thrill and three, Convulsive effort to disperse the films And disenmesh the fame o' the martyr. Browning, Ring and Book, xii. 565.

disentailment (dis-en-tal'ment), n. The act of destroying an entail, or an estate in fee

disentembment (dis-en-töm'ment), n. The

act of disentembing. S. Smiles. disequilibrate (dis-ē-kwi-lī'brāt), and pp. disequilibrated, ppr. disequilibrating. To disturb or destroy the balance or equilibrium of; throw out of balance either physically or mentally.

disequilibration (dis-ē" kwi-lī-brā' shon), n. An unbalanced condition: as, a disequilibration

of the organism.

disequilibrium (dis-ē-kwi-lib'ri-um), n. equilibrium.] An imperfect equilibrium, as of intellectual and moral faculties. Smithsonian Rep., 1890, p. 648. disfaith (dis-fath'), n. Lack of faith; distrust.

Kingsley.

disfever (dis-fe'ver), v. t. To free from or al-G. Meredith.

disforestation (dis-for-es-tā'shon), n. 1. Same as disafforestation.—2. The act of deforesting, or of clearing of woods and forests; the destruction of forests.

disfrock (dis-frok'), v. t. To unfrock or deprive of the clerical office or character. Carlyle. disgorger, n. 2. In the manufacture of efferremoves the cork from a bottle of wine which has undergene secondary fermentation, thus allowing the yeasty sediment to be blown out of the neck of the bottle by the accumu-

lated gas as it escapes. Sadtler, Handbook of Indust. Chem., p. 207. disgregation, n. 2. In thermodynamics, the transformation-value of configuration of a body or system. The disgregation added to the transformation-value of the hest contained in a system equals the entropy of the system. J. W. Gibbs, Statistical Mech., p. 69.

disguize, v. t. and n. A simplified spelling of

lish, n. 3. In mining: (c) A small rough vessel used in diamond and gold washing: sometimes used attributively: as, he obtained good dish prospects after crudely crushing up the quartz.—Petri dish, a shallow glass dish with a cover, used for making separation-cultures of bacteria and other micro-organisms by means of the poured-plate method: named for the inventor R. J. Petri, a German bacteriologist. See poured *plate and poured-plate

*culture.
dish, v. I, trans. 5. To form with a concave center, as a disk, a wheel, a running track, or

a racing-track.

II. intrans. 2. In trotting, to throw the feet outward, moving them forward with a feet outward, in a ctraight line. circular motion instead of in a straight line. Also paddle.

dishallucination (dis-ha-lū-si-nā'shen), n. The act of disillusionizing or the fact of being disillusionized; a freeing from hallucination, R. Buchanan.

disharmonism (dis-här'mē-nizm), n. Same as disharmony. Ripley, Races of Europe, p. 39. disharten, v. t. A simplified spelling of dis-

dished (disht), p. a. Concave, as a dish; hollowed out.—Dished face. The face of an animal that is decidedly concave in profile.

There was a time when swine-breeders had a delusion or "dished faces," and heavy jowls. Rep. Kan. State Board Agr., 1901-02, p. 52.

Dished hoof. See *hoof.

dish-faced, a. 1. (b) Said of a horse in which the profile of the face is concave.

dish-feed (dish'fēd), n. A device for feeding cotton into a carding-machine. It consists of a roller and a flat-plate, the latter curved upward at the delivery end. Also called shell-feed.

dish-keel (dish'kël), n. A keel composed of a broad horizontal plate bent up slightly at the

edges to give a connection with the side plating.

dish-machine (dish'ma-shēn"), n. In woodnish-machine (dish ma-shen), n. in wood-working, a power-machine for cutting thin shallow dishes or platters from wood. The block of wood, previously steamed to soften it, is placed in the machine, firmly clamped to the feeding mechanism, and presented to the cutting-tools which cut off thin veneers of the required shape. It will cut 7,000 veneers $\frac{1}{2}x$ of an inch in thickness, in an hour. The dishes when cold retain their dish-like form.

dishome (dis-hōm'), v. t.; pret. and pp. dishomed, ppr. dishoming. To deprive of a home; render homeless.

dishouse (dis-hous'), r. t.; pret. and pp. dishoused, ppr. dishousing. 1. To expel from a house; evict.—2. To clear of houses, as in widening a street or in making other public improvements.

dishumanize (dis-hū'man-īz), v. t.; pret. and pp. dishumanized, ppr. dishumanizing. To dehumanize; deprive of human powers or attribution of the disjected members.

disjected members. butes.

dish-washer, n. 4. A machine for cleaning and washing plates, dishes, etc. bt consists essentially of a large vessel kept full of boiling water charged with soap-powder. The crockery is placed in a large galvanized wire basket suspended by a chain from a crane and lowered into the water. Power is applied to large revolving paddles or agitators that keep the hot soapy water in violent motion through the basket, completely washing the contents. The soiled water is removed and clean water added as fast as required. The machine has a capacity of many hundreds of dishea an honr. When the dishes are washed the basket is raised out of the water, awung round on the crane and lowered for a moment into clean, hot water. On taking the basket out of the rinsing water the dishes dry quickly from the heat to which they have been subjected.

disilluminate (dis-i-lū'mi-nāt), r. l.: pret. and dish-washer, n. 4. A machine for cleaning

disilluminate (dis-i-lū'mi-nāt), v. t.; pret. and pp. disilluminated, ppr. disilluminating. To deprive of light; obscure; darken.

The gods are heavy on me, and all the fater Shed fire across my eyelids mixed with night, And burn me blind, and disilluminate My sense of seeing.

Swinburne, Atalanta.

disillusive (dis-i-lū'siv), a. Tending to disillusion or to disillusionize.

A long line of disillusive centuries has permanently displaced that [Hellenic idea of life]. $T.\ Hardy,$ Return of the Native, iii. 1.

disimagine (dis-i-maj'in), v. t.; pret. and pp. disimagined, ppr. disimagining. To imagine not to be; cease to imagine; banish from the imagination.

Truth, whose centre is everywhere and its circumference nowhere, whose existence we cannot disimagine.

Emerson, Letters and Social Aims, Progress of Culture.

disimitate (dis-im'i-tāt), r. t.; pret. and pp. disimitated, ppr. disimitating. To cease to imitate and to undo the results of imitation. Tarde (trans.), Laws of Imitation, p. 20.

disimmure (dis-i-mūr'), v. t.; pret. and pp. dis-immured, ppr. disimmuring. To free from immnrement or confinement within prison walls; release: liberate.

disimprisonment (dis-im-priz'on-ment), n. Release from imprisonment; liberation. Browning.

disincarnate (dis-in-kär'nāt), a. Disembodied; freed from the trammels of the flesh, as the souls of the dead. F. T. Palgrare, Death in the Forest.

On the hypothesis already explained, these appearances would be caused by the action of the disincarnate upon the living mind.

A. Lang, in N. Y. Evening Post, Jan. 12, 1901.

disinfector, n. 2. A machine or apparatus for disinfecting and cleaning garments, bedding, etc., by means of hot water, steam, chemicals, or the finnes of burning materials. One type employs a steam-tight drum in which the articles are either boiled or washed by the aid of chemicals, steam, or hot water. Another form is a gas-tight closet in which the things are submitted to disinfecting fumes.

disinfendation (dis-in-fū-dā'shon), n. the act of freeing from the obligations of a fendal tenure.

disinheritation (dis-in-her-i-tā'shon), n. Disinheritance.

disintegrant (dis-in'té-grant), n. Whatever disintegrates or tends to disintegrate. H. Speneer.

Speneer.

disintegration, n.—Boulders of disintegration, rounded masses of rock which are produced by weathering from fragments originally angular. Granites and other massive varieties which are much cut up by joints are often covered by these boulders, which closely simulate water-worn specimeoz.—Disintegration-product, a substance formed by the breaking down or chemical disintegration of another. In radioactivity the idea of disintegration is extended to the elements, helium being regarded as a disintegration-product of radium.—Disintegration theory, in radioactivity, the theory that certain elements, as radium, thorium, actinium, and uranlum, undergo successive spontaneous changes with the production of a series of new substances called disintegration-products. egration-products

disintegrationist (dis-in-tē-grā'shon-ist), n. An advocate of disintegration or of some theory of disintegration.

disintegrator, n. 2. See *sand-mixer. — Carr disintegrator, an impact crushing-machine consisting of a series of concentric cages revolving in opposite directions at high speed.

disintensify (dis-in-ten'si-fi), v. t.; pret. and pp. disintensified, ppr. disintensifying. To render less intense; tone down.

And ail-subduing black,—black's soul of black Beyond whites' power to disintensify, Browning, Ferishtah's Fancies, Bean-Stripe.

disjected (dis-jek'ted), p.a. Torn or wrenched apart: dismembered; sundered; disconnected;

sisting of two or more terms united by the conjunction or or its equivalent.—3. In biol., the separation or alternative inheritance of the parental characters in crosses between inbred varieties or strains of domesticated plants and animals. Called also the law of disjunction, or Mendel's law. See *inheritance.

Disjunctive absorption, term. See *absorp-

disjunctor, n. 2. In bot., the minute spindle-shaped cellulose body formed in the middle lamella between each pair of conidia of certain fungi.

These disjunctors serve as points of application for the lnese abstractors serve as points of approximate the connecting outer lamella of the cell wall suddenly gives way, the sporca are jerked asunder.

Encyc. Brit., XXVIII. 557.

disk, n., 5. (d) In Echinodermata, the central part of the body from which the arms radiate. (e) In crinoids. **11SK**, n., **5**. (d) In Echinodermala, the central part of the body from which the arms radiate. (e) In crinoids, that part of the theca which lies above the origins of the free arms. Also called tegmen and vault. See dorsal *cup. (f) In Rotifera, that portion of the head which bears the ciliary wreath. (g) In mollusks, the lower surface of the foot or part used in locomotion, as in gastropods. (h) In some culenterates, the oral aspect of the hody. body.

8. A small medicated gelatin tablet about 2 of an inch thick, which contains a small amount of glycerin to prevent it from becoming hard and brittle: a simple means of applying accurately adjusted quantities of mydriatic, myotic, and anesthetic alkaloids such as disk-wheel, n. 2. A type of wheel for cars atropin, physostigmine, and cocainctothe eye.

—Aconstic disk. See **accustic.—Anangold disk.

—Aconstic disk. See **accustic.—Anang atropin, physostigmine, and eccaine to the eye.

—Aconstic disk. See *acoustic.—Anangioid disk. See *anangioid. —Central disk, a secondary chitinous extension between the bases of the branches of the rhabdosomes in some graptolites, notably the Dichograptide. It consists of two layers and serves partly as a basal support for the branches and partly as an organ of fixation.—Hensen's disk, a light band in the center of a Bownan's disk.—Interfusion disk, the disk formed by the interfusion and mingling of the mays which pass through the objective of an optical instrument. In a telescope it is the image of the object-glass formed by the eyeplece.—Lagrange disk. Same as interfusion *disk.—Masson's disk, in *exper. psychol., a disk of white cardboard along one of whose radii is drawn an interrupted black lice of even thickness. On rotation of the disk of the disk that it is the masson's disk.

board along one of whose radii is drawn an interrupted black lice of even thickness. On rotation, the disk shows a series of gray rings, dark near the center and lightening to imperceptibility toward the periphery. The disk has been much used for the determination of the difference limen of brightness, and also for the study of fluctuation of the visual attention. Annales de Chimie et de Physique, XIV. 150.— Middle disk of Englimann. Same as Hensen's *disk.—Primary disk, the disk of adhesion or fixation by which the sicula and young rhabdosomes of certain graptolites were attached. It was of tenuous structure and was frequently replaced by a secondary (central) disk. See central *disk.—Retractile disk, a flattened disk-ahaped organ at the aboral pole of certain polyzoan larvæ, such as those of Bugula.—Stroble disk, a disk upon which concentric circles or wheels are drawn: so called because the circles appear to spin when the disk is moved rapidly through a circular path before the eye. See strobic circles, under strobic.—Stroboscopic disk, a disk, with equidistant openings or alternate open and closed sectors, naed for stroboscopic observations of periodic phenomena. See stroboscope.—Sun disk. Same as xinged *disk.—Winged disk, in Egyptian art, the symbol of the sun, a complete circle, is represented with



outspread vulture's wings and the nræns on either side. The symbol was borrowed by the Assyrians to represent Assur

disk (disk), v. t. [disk, n.] In agri., to cultivate with a disk-enltivator. disk-carrier (disk'kar"i-er), n. In photom., the

support of a disk or screen which is movable along or fixed to the photometer-bench, according to the style of the photometer.

disk-cultivator (disk/kul"ti-vâ-tor); n. A cultivator in which the part applied to the soil consists of sharp-edged disks placed vertically and rolling with the progress of the cultivator. Its use is to cut the weeds and pulverize the soil. See *culticator.

disk-cutter (disk'kut"er), n. A tool used by potters for cutting out disks of clay for making pie-plates. It consists of a wooden arm supported on one end by a small foot or block of wood, of circular or rectangular form, in which the arm revolves; at the other end is a metal point, usually a common horse-shoe nail, passing through the arm at a right angle, with the point down. The foot or block is placed on the rolled sheet of clay and held in place while the arm is revolved disparation of dispensatory.

In the direction or to estimate correctly and space. Lancet. June 25, 1904, p. 18 disoxidize (dis-ok'si-diz), r. t.; pret. at disoxidize (ppr. disoxidizing. [dis-+ ox Same as droxidize.]

disk of a composite plant. See disk, 4 (e), disk-jelly (disk'jel-i), n. A sea-blubber; a discomedusan.

disk-plow (disk'plou), n. A plow having revolving disks, resembling those in a

disk-harrow,

in place of plow-shares. filow-shares. The action of this tool is not precisely that of the plow, since the disks break up and tear apart as well as a furn over the turn over the soil.

disk-saw (disk'så), n. A saw in the form of a

Rear View of Sulky Disk-plow. a_i Cutaway plow disk in position for turning at end of furrow; b_i straight disk.

disk, used for eutting rails or beams in the to the contact of the contact of the contact of the contact produces a heat sufficient to fuse the netal in contact with the disk as it revolves, even if the disk is softer in quality than the metal to be sawed. Also called twice their contact produces a least sufficient to fuse the netal contact with the disk as it revolves, even if the disk is softer in quality than the metal to be sawed. Also called twice the contact of the contact of

disk-shell (disk'shel), u. The shell of certain

brachiopods, as Discina.
disk-valve, n. 2. Any valve in which the opening is closed by a disk, as in the ordinary stop-valve.

plate, instead of by spokes with open intervals plate, instead of by spokes with open intervals between. Such wheels appear to be solid disks. In car-wheels of this pattern the plates are of steel, bumped or dished to give lateral stiffness; or the plate is double with compressed card-board between. In motor-vehicles the disk is of thin steel, concaved to give elasticity by slight flexure of the plate under shock. Such wheels at high speed raise less dust than spoked wheels, and do not hum in moving through the air.

dislevelment (dis-lev'el-ment), n. Deviation from the level: as, a correction for dislevelment was made.

dislocation, n. 4. The territorial distribution of an army.—Dislocation of the lens, displacement of the crystalline lens of the eye.

dislocatory (dis - lok 'a - to - ri), a. Involving dislocation or dislocations: as, dislocatory movements of the earth's crust.

disloyalist (dis-loi'al-ist), n. A disloyal or disaffected person.
dismal, n. 6. pl. The blues; the dumps; a

state of gloominess or despondency: as, to be in the dismols.

dismantlement (dis-man'tl-ment), n. The act of dismantling or the state of being dismantled.

dismarket (dis-mär 'ket), v. t. To deprive (a market) of its status and privileges.

dismissible (dis-mis'i-bl), a. Liable to be dismissed or discharged from office; removable. dismountable (dis-moun'ta-bl), a. That may be dismounted .- Dismountable gun. See *gun1. disobeval (dis-ō-bā'al), n. [disobey + -al.] An act of disobedience: as, disobeyal of an order of the court.

disobliger, n. 2. An English vehicle which was developed into the American track-sulky 2. An English vehicle which of the high-wheeled, springless type. **disodic** (dī-sō'dik), a. [di-2 + sod(ium) + -ie.]

In chem., containing two atoms of sodium, as

the common phosphate of soda of commerce, Na₂HPO₄.12H₂O. disomus (dī-sō' mus), n.; pl. disomi (-mī). [NL., \langle Gr. diσωμος, having two bodies, \langle di-two- \rangle + σωμα, body.] A monster with two bodies.

disorder, n. 7. In logic, disagreement with every conceivable general rule whatever. It is impossible for a finite collection of objects to be in disorder in this sense, nor is it possible for a continuum to be in disorder. Whether or not it is possible for an infinite discrete collection to be in disorder is a question that has not been solved.

disorderly, a. II. n. A person accused or guilty of disorderly conduct.

disorientation (dis-ô"ri-en-tā'shon), n. [dis-torientation.] Loss of the ability to determine the conduction of the mine direction or to estimate correctly time and space. Lancet, June 25, 1904, p. 1808. disoxidize (dis-ok/si-diz), r. t.; pret. and pp.

disaxidized, ppr. disaxidizing. [dis- + axidize.]

dispansive (dis-pan'siv), a. [L. dispansus, pp. dispandère, spread out: see dispand.] optics., serving to dispand or spread out: applied to a system of lenses which has a negative focal distance. Opposed to collective. disparate, a. 2. In the psychology of sensa-

tion, belonging to or derived from different senses (said of sensations): appealing to different senses (said of stimuli).

Diversion of the attention by disparate stimuli, when it occurs, is probably the more effective.

O. Külpe (trans.), Ontlines of Psychol., p. 410.

Disparate points. See $\star point^1$. dispendious (dis-pen'di-us), a. [L. dispendious, expensive, \(\) dispendium, expense, loss, (dispendere, expend: see dispend.) Costly; expensive; extravagant; lavish; as, 'a dispendious use of material may in the end be true

dispense, r. t. 5. To put up (a medical pre-

scription).

dispermic (dī-sper'mik), a. [Gr. $\delta \iota$ -, two-, + $\sigma \pi i \rho \mu a$, seed, +-i c.] Affected with or pertaining to dispermy: said of eggs containing two spermatozoa

Spermatozou.

dispermin (di-sper'min), n. [Gr. δι-, two-, + $\sigma\pi\epsilon\rho\mu a$, seed. + -in².] Same as *piperazin.

dispermy (di-sper'mi), n. [Gr. δι-, two-, + $\sigma\pi\epsilon\rho\mu a$, seed. + -y³.] The entrance of two

spermatozoa into a single egg.

disperse, v. t. 6. In optics, to refract by amounts which vary with the wave-length of the refracted ray; separate a composite beam of light, into its components, forming a spec-See dispersion, 3. ion, n. 3. (b) In physiol. optics, the

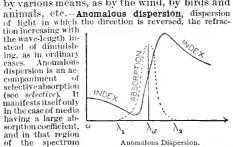
dispersion, n. 3. (b) In physiol. optics, the blarring of the retinal image due to faulty accommodation.

The dispersion images indicate the position of the object as before or behind the object of distinct vision.

O. Külpe (trans.), Outlines of Psychol., p. 353.

6. In bot., the distribution of seeds and of plants by various means, as by the wind, by birds and

onipaniment of selective absorption (see selective). It manifests itself only in the case of media having a large absorption coefficient, and in that region of the spectrum which is occupied



and in that region of the spectrum which is occupied by the absorption-band. In transparent substances the frequency of the light-wave does not coincide with the natural frequency of vibration of the ions or particles of the refracting medium. In such cases the index of refraction in general diminishes as the wave-length of the light increases, and the result is normal dispersion in which the shorter waves are most strongly bent from their path. Whenever, however, the frequency of the light-wave coincides with the vibration-frequency of the particles of the medium, there is a disturbance of this relation. In the case of bodies baying strong selective absorption, such as fuchsin, there is a marked diminution of the index of refraction with an increase of wave-length as the frequency of the light wave approaches the natural frequency of the particles of the substance (that is to say, as the absorption-curve is approached on the side toward the violet), followed by a sudden and very great rise in the value of the index for wave-lengths corresponding to the absorption-band. On the side toward the red the values of the index of refraction are very great, but they diminish again rapidly as the wave-length increases. The variations in the index of refraction which occur in anomalous dispersion are shown graphically in the figure, in which the dotted curve shows the values of the coefficient of absorption of the substance. The region inclosed by this curve is that of the absorption-hand of the substance which has its maximum at the wave-length \(\lambda_{\text{ref}} \) expectance of the substance which has its maximum at the wave-length \(\lambda_{\text{ref}} \) in the figure, in which the vertical line in the diagram. For those portions of the spectrum lying between \(\text{al} \) and also beyond \(\lambda_{\text{g}} \) where the values of the absorption coefficient are small, dispersion follows its normal course, the index of refraction of intext in solids having strong and well-marked absorption-bands, but likew sodium lines .589 µ, exhibits the phenomenon in this region. Atmospheric dispersion, the formation of a spectrum when a my of white light is refracted by the atmosphere or by my part of it. A hright star seen near the horizon appears as a vertical spectrum band by reason of atmospheric dispersion. —Dispersion-apparatus, in optics, any optical system for producing a spectrum, as a spectroscope. — Dispersion circle, lens, photometer. See *\(\)exists, *\(\)exists, *\(\)\(\)photometer. —Law of dispersion. (a) In the theory of errors, the law of the distribution of er-

rors of observation as regards size, but without reference rors of observation as regards size, but without reference to size or direction. (b) The tendency of material particles or bodies, including conscious individuals, to go apart, as from a center; hence, in the phenomena of population, the continual breaking down and dispersing of aggregations, counteracting a tendency toward concentration. See law of *magregation*. L. F. Bard, Dynamic Sociol., See law of **sugregation. L. F. Ward, Dynamic Sociol., 1. 249.—*Sellmeier's theory of dispersion, a theory of dispersion as theory of dispersion based upon the assumption that the particles of the refracting substance partake of the vibratory motion of the ether. This theory, proposed by Sellmeier in 1870 was subsequently further developed by Helmholtz, Lommel, Ketteler, and others.

dispetal (dis-pet'al), r. t.; pret, and pp. dispetal (dis-pet'al), r. t.; pret, and pp. dis-

petated, dispetalled, ppr. dispetaling, dispetal-ling. [dis-priv. + petal.] To strip (a flower) of its petals.

Here all is sunny, and when the truant gull Skims the green level of the lawn, his wing Dispetals roses.

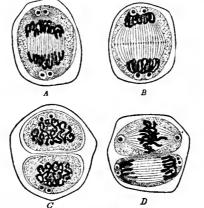
R. L. Stevenson, Underwoods, I., Son. xxxv.

drals, ii.

1. J. Beresford-Hope, Eng. Cathedrals, ii.

lispense, r. t. 5. To put up (a medical prelispense, r. t. t. 5. To put up (a medical prelispense, r. t. t. 5. To put up (a medical prelisp isosceles triangles in symmetrical pairs; a te-

tragonal sealenohedron. See sphenoid, 1. dispireme (dī-spī'rēm), n. [Also dispirem; ζ Gr. δι-, two-, + σπείρημα, σπείραμα, a thing wound or eoiled, a spire.] In cytol., the stage of karyo-kinesis during which the chromosomes unite to form two skeins, one for each of the daughter-



Division of pollen-mother-cells in the lily as described by Guignard.

A, anaphase of the first division, showing the twelve daughter-chromosomes on each side, the interzonal fibers stretching between them, and the centrosomes, already double, at the spindle-poles; B, later stage, showing the cell-plate at the equator of the spindle and the daughter-spiremes (dispireme-stage of Flemming); C, division completed, double centrosomes in the resting-cell; D, ensuing division in progress, the upper cell at the close of the prophases, the chromosomes and centrosomes still undivided, lower cell in the late anaphase, cell-plate not yet formed. (From Wilson's "The Cell.")

dispirous (dī-spi'rus), a. [Gr. $\delta\iota$ -, two-, + $\sigma\pi\epsilon i\rho a$, coil, spiral.] Having double spirals: applied to the elaters of the Hepaticæ. Spruce. applied to the elaters of the Hepaticæ. Sprues. displacement, n. 3. In naval arch., displacement is the total weight of a vessel and of everything on board, which, in accordance with the laws of hydrostatics, is equal to the weight of the volume of water displaced by the vessel when affoat. It is usually given in long tons, and is ascertained by calculation, from the plans, of lines of the vessel for a series of mean drufts, in accordance with certain rules. The results of the calculations are then plotted in enrees of displacement. See *curre. Light displacement is that of the vessel without water, stores, provisions, ammunition, coal, or cargo. Load displacement is that of the ship fully loaded. Normal load displacement, or normal displacement, in a warship, is that fixed by the designer as the average condition and includes the weight of coal, stores, ammunition, etc., considered to be the average amount to be carried. Deep load displacement is that which corresponds to the full amount of coal, stores, ammunition, etc., which can be placed in the bunkers, storerooms, holds, and ammunition-rooms.

6. In veg. teratol., a malformation, in leaves, due to abnormal cohesion or fusion of parts which results in dislocation and other apparent changes in the form. Thus two fused leaves may appear like a single lobed leaf, a whorl may be reduced to two opposite leaves, etc. may be reduced to two opposite leaves, etc. Masters.—Angles of displacement, in physiol. optics, angles employed to determine the position of the foremost line of regard. The angle of vertical displacement measures the divergence of the plane of regard, up or down, from the primary position; the angle of lateral displacement is included between the foremost line of regard and the median line of the plane of regard. Curve of displacement. See *aurves of ship calculations.—Displacement lubricator, pump. See *lubricator, *pump!.—Law of displacement, in phys., the law of the shifting, with temperature, of the wave-length of the maximum of the energy-curve for the emission-spectrum of a black hody. Also called Paschen's law.—Wave of displacement. See *wave!.

displacement-tonnage(dis-plas'ment-tun"aj), In ship-building, the disptacement of a ves-

sel measured in tons weight: distinguished from register-tonnage which is measured in conventional tons of 100 cubic feet.

Displacer piston. See *piston.

display, n. 2. In printing, the art of selecting and arranging types of unequal size, as in a title-page or advertisement, so as to make certain parts emphatic and the whole likely to attract attention.

display-man (dis-pla'man), n. An employee of the United States Weather Burean whose duty is to display the weather flag-signals,

duty is to display the weather flag-signals, storm-signals, or other warnings.

display-pipe (dis-pla pip), n. In organ-building, a pipe set in the front of the case and usually ornamented. Such pipes are sometimes those which sound, and sometimes mere

dummies. Also show-pipe. displezure, n. A simplified spelling of dis-

displuviate (dis-plū'vi-āt), a. [L. displuviatus, dis-, apart, + pluvia, rain.] Protected from rain; provided with channels to carry off rain. - Displuviate atrium. See *atrium.

dispope (dis-pop'), v. t. To deprive of the popedom; depose as pope; unpope. Tenny-

Disporea (dī-spō'rē-ā), $n.\ pl.\ [NL., < Gr.\ \delta\iota$, two-, $+\ \sigma\pi\circ\rho\dot{a}$, seed (spore).] A group of Myxosporidia in which only 2 spores are produced in each trophozoite. They are parasitic forms, living freely as amoeboid organisms in the bile or urine of fishes and frogs. Also called *Disporceystidæ*.

disporous (di-spō'rus), a. [Gr. $\delta\iota$ -, two-, + $\sigma\pi\circ\rho\dot{a}$, seed (spore).] Having 2 spores: said of certain Coccidia; producing only 2 spores, as some Myxsporidia.

disposability (dis-pō-za-bil'i-ti), n. ity of being disposable: as, the disposability of

one's time, one's property, or the like.

disposition, n. 10. Specifically, in organ-building: (a) the plan or specification in accordance with which the whole instrument is built; (b) the arrangement of the visible parts of the instrument, as of the displaypipes, the case, the desk or console, the stops, pipes, the case, the desk or console, the stops, etc.—Bond and disposition in security. See *bond1.—Physiological disposition, a tendency of certain organs or tissues to respond in definite ways to certain actions upon them.—Psychical disposition, a natural tendency of the mind to present certain definite kinds of phenomena under definite kinds of circumstances.—Psychophysical disposition, a tendency to the production of a certain kind of consciousness in response to certain kinds of physical stimulation; also a tendency to the production of certain physical effects in response to certain mental activities.

dispossessory (dis-po-zes'sō-ri), a. [dispossess +-ory.] Relating to or involving dispossession or eviction: as, a dispossessory warrant.

dispriest (dis-prēst'), v. l. To deprive of the status of priest. Same as unfrock. N. E. D. disputably (dis-pū'ta-bli), adv. With some possibility of dispute; with less certainty; questionably.

Linus and Thamyris, and, more disputably, Orphens, are . . . precursors of Homer. Bulwer, Athens, L 279.

disquiparant (dis-kwip'a-rant), a. and n. [dis-+(e)quiparant.] I. a. Belonging to a disquiparance.

II. n. An object so related to a second that the latter is in a different relation to it. Thus, a husband is a disquiparant, a sponse an equip-

disquisitionist (dis-kwi-zish'on-ist), n. The author of a disquisition. Bagehot.

disquisitor (dis-kwiz'i-tor), n. The author of

a disquisition: a disquisitionist. disregardant (dis-rē-gard'ant), a. no heed or attention; disregardful. That pays Ruskin.

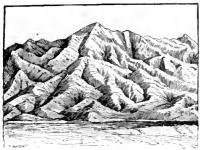
disruptionist (dis-rup'shon-ist), n. [disruption + -ist.] One who disrupts or favors disruption; specifically, one of those who seceded from the Established Church of Scotland in 1843 and founded the Free Church of Scotland. See dis-

ruption of the Scottish Church, under disruption.

Disruptive strength. See *strength.

disruptment (dis-rupt'ment), n. [disrupt + -ment.] The process of breaking off; disruption. disruptor (dis-rup'tor), n. A high explosive: so named because the effect of such explosives is to separate foreibly surrounding matter into small particles rather than to propel it to a distance.

diss. An abbreviation of dissertation. dissect, r. t. 4. In geol., to cut up or erode (a plateau, mountain, etc.) into numerous irregu-



A Dissected Mountain-range, Utah

lar valleys or ravines: as, a dissected plateau; a dissected mountain-range.

An excellent illustration of a well dissected upland is found in the Ozark plateau of southern Missouri.

W. M. Davis, Elem. Phys. Geog., p. 278.

To dissect out, in surg., to remove entire by a process of dissection without injuring or removing any of the surrounding tissues.

dissecting-knife (di-sek'ting-nif), n. A seal-

dissecting-wound (di-sek'ting-wond), n. Same as dissection-wound (which see, under wound.)
dissection, n. 5. In bot., the condition of being dissected. See dissected.—6. In geol., the erosion of a land-surface into numerous irregular valleys. See *disseet, 4.—Dissection tubercle. Same as anatomical tubercle (which see, under

disseizin, n.—Fresh disseizin, in law, a disseizin accomplished within the time in which the disseized might of his own accord and by his own power, without the assistance of the king, or legal process, reenter and defeat the disseizin.

disseminule (di-sem'i-nūl), n. [Irreg. < L. dissemin-are, disseminate, + -ute.] In phytogeog., the body by which a plant is propagated. whether seed, spore, offshoot, etc., or the whole plant.

Disseminules designed to pass through a resting period are often brought into conditions where they germinate at once.

F. E. Ctements, Bot. Surv. Neb., VII. 51.

dissentientism (di-sen'shent-izm), n. The principles or conduct of a dissentient.

Dissentis type. See *type.
dissight (dis'sit), n. [dis-+sight.] An unsightly thing; an eyesore. Southey. [Rare.]
dissimilar, a. 2. In bot.. having different forms in the same individual, as the anthers in the genus Cassia.

dissimilate, v. t .- Dissimilated gemination. See

dissimilatory (di-sim'i-la-tō-ri), a. Produced by dissimilation. Scripture, Exper. Phonetics, p. 203.

dissimulative (di-sim'ū-lā-tiv), a. Relating to or characterized by pretense or dissimula-tion: as, a dissimulative life; dissimulative arts,

Dissipation of energy. See *energy. dissipator (dis'i-pā-tor), u. One who or that which dissipates.—Electric dissipator, an instrument devised by Elster and delted for showing the relative number of electrified particles or electrons in the atmosphere at any place. It consists of a metallic body connected with the gold-leaf electroscope or equivalent electrometer. The metal hody is first charged with a definite charge of electricity from some independent source. The rate at which this charge is neutralized by atmospheric electricity or free electrons is shown by the ludex of the electroscope.

dissociality (di-sō-shi-al'i-ti), n. The quality of being dissocial or nnsocial. Carlyle.

dissociant (di-sō'shi-ant), a. and n. [L. dissociant(t-)s, ppr. of dissociare, dissociare.] I. a. In chem., producing dissociation: as, the dissociant temperature. Trans. Amer. Inst. Elect. Engin., Jan.-July, 1902, p. 284.

II. n. That which dissociates; a dissociating agent.

Dissociants in order of power: water, formic acid, methyl alcohol, ethyl alcohol. There are other dissociants, but the above are among the most common and generally employed. Sci. Amer. Sup., Dec. 31, 1904, p. 24,242.

dissociate, v. II. intrans. To undergo dissociation; of an electrolyte in solution, arate into ions some possessing positive and some negative electric charges, and capable of conveying an electric current by their motion through the solution with these charges.

With the exception of some bare statements to the effect that the yellow oxide, on heating, changes to the red, and that it disacciates at a lower temperature, the foregoing is all that has come to my notice which in any way bears on the subject.

Amer. Chem. Jour., April, 1903, p. 321.

dissociation, n. 3. In psychol.: (a) The dis-

junction of an associative connection, as by lapse of memory or by intercurrent associations, by the selective process of active attention, etc.

What is associated now with one thing and now with another tends to become dissociated from either. . . . One might call this the law of dissociation by varying concomitants. W. James, Prin. of Psychol., 1, 506.

The part played by dissociation is evident. If there were no such breaking up of representations, imagination would be simply memory.

J. M. Bulducin, Handbook of Psychol., I. 218.

(b) A minor degree of the disintegration or disaggregation of consciousness, as it is termed, which culminates in the phenomena of dual or multiple personality.

If we . . . seek for some quality common to all the carious states in which hallucinations occur, we shall find that their most striking characteristic is the dissociation of consciousness

E. Parish, Hallucinations and Illusions, p. 71.

that their most striking characteristic is the dissociation of consciousness.

E. Parish, Hallucinations and Illusions, p. 71.

Arrhenius's theory of electrolytic or tonic dissociation. During the earlier half of the nineteenth century it was supposed that the electropositive and electronegative atoms in a dissolved compound were definitely combined, and that in electrolysis they did not part company until they were forcibly forn apart by the electric current. About the middle of the century it was found that if we eliminate the complication of polarization at the electrodes, a current through an electrolyte can be obtained by using even the smallest electromotive force; it was therefore obvious that the current is not concerned with tearing apart firmly combined ions. Clausius accordingly made the assumption that in a solution of an electrolyte an exchange of atoms between neighboring molecules is constantly going on, in such a way that some free ions constantly exist in solution; that is, that dissociation into ions exists, the amount of which was considered to he very small. The hypothesis of Arrhenius is, that a considerable number of the molecules of an electrolyte in aqueous solution are at all times dissociated into ions, and he supported this hypothesis with considerations derived from facts of two different kinds. One is the fact that, if we make a solution containing a certain number of molecules of an electrolyte (say one hundred molecules of a non-electrolyte (say one hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid horing

In phys. chem., the lowest temperature at which a heated gas or vapor perceptibly disso-

ciates into simpler molecules. dissoconch (dis'ō-kouk), n. [Gr. $\delta\iota\sigma\sigma\delta c$, two-fold, $+\kappa\delta\gamma\chi\eta$, a shell.] The shell of a veliger

or larval mollusk.

dissogeny (dissoj'e-ni), n. [Gr. δισσός, two-fold, + -γενης, producing.] In zoöl., a form of reproduction among the Ctenophora, characterized by the presence of two periods of sexual maturity, one in the larval, the other in the adult form of the same individual.

dissogonous (di-sog'ō-nus), a. [NL.*dissoyo-nus, (Gr. δισσός, twofold, + γόνος, offspring.]

Same as pedogenetic.

dissogony (dis-sogʻō-ni), n. [NL. *dissogonia, <*dissogenus: see dissogonous.] Same as pedogenesis.

dissolution, n.—space of dissolution, in rocks, a cavity or space formed by the solvent action of circulating water or other corroding agent: contrasted with space of *discission.

dissolutionism (dis-ō-lū'shon-izm), n. Anarchism or nihilism.

Coarseness is contrary, vulgarity is contradictory to elegance just as in politics the monarchical principle is contrary, but the principle—if any such principle there be—of disunionism, dissolutionism, or communalism, . . . is contrary to the republican principle.

Swinburne, in The Forum, Oct., 1891, p. 180.

dissolutionist (dis-ō-lū'shon-ist), n. One who advocates or aims at dissolution or dissolu-

dissolutive, a. 2. Pertaining to or characterized by dissolution or disintegration.

distance-rod

Much of the content is certainly rubbish, matter that Myers calls dissolutive, stuff that dreams are made of, fragments of lapsed memory, mechanical effects of habit

and ordinary suggestion.
W. James, in Proc. Soc. Psychical Research, XVII. 20.

dissolv, r. A simplified spelling of dissolve, dissolver, u. 2. In paper-making and other industries, a machine for dissolving, purifying, freeing from acids, and otherwise treating salts, chemicals, clavs, colors, and paper pulp in water or other liquids. It consists of a large metal vessel having a bowl-shaped bottom and fitted with a horizontal turbine supported by an upright spindle passing through the bottom of the vessel. The clay, colors, chemicals, or other materials to be treated are placed in the vessel with the required amount of water to give the desired mixture or solution. By means of a belt to a pulley on the spindle the turbine is revolved at a high speed. This sets up a rapid motion in the liquid, drawing it downward in the center into the turbine and throwing it violently outward from the turbine against the sides of the vessel. The concave sides cause the liquid to move npward in a spiral path till again swept downward through the wheel. The rapid motion and attrition against the sides of the vessel disintegrate and dissolve the material, insoluble matter falling to the bottom and the solution being then drawn off.

dissonance, n.—Pure dissonance, in acoustics, disdisconance, i.—Pure dissonance, in acoustics, dissalts, chemicals, clays, colors, and paper pulp

dissonance, *n*.—Pure dissonance, in *acoustics*, dissonance in which the relation of the frequencies of the dissonant tones is such that the harshness due to rapid tonal beats is absent.

dissonate (dis'ō-nāt), v. i. [L., dissonare: see dissonant.] To be dissonant or harsh: said of sounds.

dissonating (dis'o-nat-ing), p. a. Same as

dissophyte (dis'ō-fit), n. [Gr. δισσός, double, + φυτόν, plant.] In phytogeog., a plant of which the subterranean parts are adapted to mesophytic or even hydrophytic conditions, and the aerial parts to xerophytic conditions.

Such plants grow on alpine gravel-slides, sand-bars, trands, etc. F. E. Clements, Bot. Surv. Neb., VII. 24,

dissophytic (dis-ō-fit'ik), a. [dissophyte+-ic.]
Having the character of or in some way related to dissophytes. F. E. Clements.

dissymmetrically (dis-si-met'ri-kal-i), adv.

dissymmetry a. 2. Symmetry between two objects, with respect to a plane of symmetry. as between the right and left hands, or between right and left crystals of tartaric acid.

distaf, n. A simplified spelling of distaff, distaff, n.—Descent by distaff, maternal descent. See distaff side, under distaff.—Frigg's distaff [Nw. Friggerocken], a former Swedish name for the constellation of Orion.

distalia (dis-tā'li-ā), n. pl. [NL., neut. pl. of *distalis, distal.] A collective term for the bones of the third or distal, row of the carpus and tarsus.

distance, n. 9. In psychol., extension in the third dimension; spatial depth.

An object is before us, and our perception of it as an object is at once associatively supplemented by the idea of its distance.

E. B. Titchener, Ontline of Psychol., p. 204.

10. In painting, remoteness of objects as indicated by increased delicacy and harmony of

If Philip de Koninck is his [Jacob van Rüysdael's] equal in the presentment of immensity of distance, he is left far hehind by Rüysdael's atmospheric achievements. Burlington Mag., 11. 59.

Burlington Mag., 11. 59.

Distance circle, scale, sense. See **circle, **scale3, **xense1.— Interobjective distance, the distance between the centers of the pupils of the two eyes in the primary position: to this distance opera-glasses and other binocular instruments are set.—Interocular distance, the distance between the cycpieces of a binocular instrument, as a ticl-glass.—Out of distance, beyond reach; too far away.—Principal distance. See perspective, n., 3.—Striking distance, the distance through which a distance discharge will pass. See electric spark, under spark.—To know one's distance, to know what distance should be kept in one's relations or intercourse with others. with others.

distance-flag (dis'tans-flag), n. In horse-racing, the flag held by the man stationed at the distance-post. See distance, 3. distance-language (dis'tans-lang'gwāj), n.

A mode of communicating with distant persons or places.

Man (in the evolution of language) . . . from signs went on to sounds—he invented the telephone. By all the traditions of Evolution this marvellous instrument ought to be, and is even now on the verge of becoming, the vehicle of the distance-language of the future.

II. Drummond, Ascent of Man, p. 183.

distance-measurer (dis'tans-mezh # ūr-ėr), n. An instrument for determining distances; an

angulometer or a telemeter.
distance-rod (dis'tans-rod), n. A reach-rod;
a rod which holds two parts of a machine a fixed distance apart.

distance-stand (dis'tans-stand), n. The stand

at the distance-post of a race-course. distannic (di-stan'ik), a. [di-2+1...stannum, tin, +-ie.] In chem., containing two atoms of tin: as, distannic tetraethides ($\operatorname{Sn}_2(\operatorname{C}_2H_5)_4$). distater (di'stā-tèr), n. [Gr. δι-, two-, + στατηρ, stater.] An ancient Greek gold coin of the value of 2 staters.

distearoglycerophosphate (dī-stē"a-rō-glis"e-rō-fos'fāt), n. [di-2" + stear(ic) + glycer(ine) + phosphate.] Glycerin-phosphoric acid in which two of the glycerin-hydroxyl groups are replaced by two stearie-acid radicals. In combination with choline, namely, as distearyl lecithin, distearoglycerine phosphoric acid is found as the predominating glycerophosphate of the animal lecithins.

distearyl (dī-stē'a-ril), a. [di-+ slearyl.]

Noting a substance that contains two stearyl

distegons (dis'tē-gus), a. [Gr. δίστεγος, of two stories, $\langle \delta \iota$ -, two-, + στέγος, cover, roof.] Said of fishes in which a myodome is present, and the crauial cavity is thus double-floored.

distemper¹, n.—Choking distemper, a disease of horses thought to be produced by eating musty hay. See

distensile (dis-ten'sil), a. [L. distensus, pp. of distendere, distend, +-ile.] Same as distensible. Eucyc. Brit., XXXI. 560.
distichal (dis'ti-kal), n. [As distich +-al.]

One of the first duplicating plates of the radial series in the calyx of a crinoid, preceded below by the costals and followed by the palmars.

distigmatic (dī-stig-mat'ik), α. [Gr. δι-, two-, + στιγμα, mark: see stigma.] In bot., having

two stigmas.

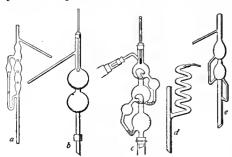
distillation, n.—Vacuum distillation, in phys. chem., the distillation of a substance under diminished pressure, so as to lower the temperature required for chullition: often used to prevent decomposition of the substance by the higher temperature required for ebulli-tion at atmospheric pressure.

Perhaps the two greatest aids to manufacturing pharmacy are vacuum distillation and centrifugal extraction. The former has long been in use, but the latter has only come into general use in this country during the past fifteen years. Sci. Amer. Sup., Jan. 24, 1903, p. 22,631.

distiller. n. 2. An apparatus for distilling water. On shipboard such apparatus for distilling water. On shipboard such apparatus is used to supply fresh water for drinking and washing, and for use in the boilers. A coil of boiler steam is placed in a tank of seawater and the distillate caught and ecoled. The deposited salt is removed at intervals as the solution of seawater grows concentrated. For drinking, the distilled water is subsequently adrated.

distilling-tube (dis-til'ing-tub"), n. An apparatus yeleval to the feating of the distilling tube of the feating of the distilling of the distilling of the feating of the distilling of the distilling of the feating of the distilling of the distill

paratus adapted to the fractional distillation



Distilling-tubes. a, Glinsky's distilling-tube; δ . Wurtz's distilling-tube; ϵ . Volney's distilling-tube; d, Hart's distilling-tube; ϵ , Lebel and Henninger's distilling-tube.

of liquids, permitting only the vapor of that one to pass over whose boiling-point is shown by the thermometer. Such tubes are also froquently used to prevent spray from passing

distinctive, a. II. n. A distinctive mark; specifically, in *Heb. gram.*, a distinctive accout. There are 26 of these—18 disjunctive and 8

conjunctive.

distingué (dis-tan-gā'), a. [F., pp. of distin-guer, distinguish.] Distinguished, especially in appearance or bearing; characterized by an air of distinction.

distinguished, p.a.—Distinguished Service Order.

See *order.

Distoma lanceolatum, a fluke occasionally found in the bile-ducts of herbivorous animals and of man.—Distoma pulmonale or Ringeri, a fluke which infests the bronchial tubes, causing a severe pulmonary disease, in the natives of Northern China, Korea, and Japsn.—Distoma westermanni, a fluke which occasionally infests the lungs of domestic animals, and, very rarely, of man.

Distomatidæ (dis"tō-mat'i-dō), n. pl. [NL., < Distomum (Distoma (distomat-)), + -idæ.] A family of trematoid Platyhelminthes, of the order Malaccophica. They are digretic forms with

order Malacocotylea. They are digenetic forms with

2 suckers, the posterior being on the ventral surface, and the genital opening usually median, ventral, and in the anterior third of the body. The forms included are parasitic in the alimentary canal and its appendages and in the blood-vessels of vertebrates. The family consists of the genera Distoma, Rhopalophorus, Kællikeria, and Bilharria.

distomatosis (dis "tō-ma-tō'sis), n. [NL., Distomu(t-) + -osis.] In med., infection with Trematoid worms. In man this occurs in four chief forms: hepatic distomatosis, with secondary panereatic and intestinal infections in some cases, caused by Fasciola, Dicrocaclium, and Opisthorchis; intestinal distomatosis, caused by Fasciolopsis, Heterophyes, Gastrodiscus, and Balanorchis; pulmonary distomatosis, with secondary cerebral symptoms in some cases, caused by Paragoniums westermani; venal distomatosis, caused by Schistoroma Schistosoma.

distomatous (dī-stom'a-tus), a. [Gr. $\delta \iota$ -, two-+ $\sigma \tau \delta \mu a(\tau$ -), mouth, + -ous.] Provided with two month-like structures, like *Distoma* among the trematode worms.

distome (dis'tōm), n. An individual of the genus Distoma or of the family Distomidæ.—Eye distome, Agamodistomum ophthalmobium (Diesing, 1850), an immature, probably erratie distome, reported as parasitic in the human eye.

Distomea, n. pl. 2. A group or tribe of mastigophorous Protozoa, of the order Polymastigida, having the flagella separated into two symmetrical groups, with a mouth-area at the base of each group (whence the name). It includes the genera Trigonomonus, Hexamitus, Trepomonas, Spironema, and Urophagus.—3. Same as *Malacocotylea.

distomian (dis-tō'mi-an), n. One of the *Distomidæ.

distomiasis (dis"tō-mi-ā'sis), n. [NL. distoma + -iasis.] A morbid state which results from the presence in the body of one of the species of Distoma or flukes. See *distomatosis.

distomid (dis'tō-mid), n. A *distome. distomoid (dis'tō-moid), a. [Gr. $\delta\iota$ -, two-, + $\sigma\tau\delta\mu$ a, mouth, + ε $\delta\sigma$ c, form.] Same as *distomatous.

distortional (dis-tôr'shon-al), a. [distortion + -al1.] Of or pertaining to distortion or change of form under stress.—Distortional wave, a wave in an elastic solid due to the sudden application of a shearing or torsional stress.

distortionist (dis-tôr'shon-ist), n. A contor-

distortionless (dis-tôr'shon-les), a. [distortion + -less.] Free from the phenomena of distortion.

distraction, n. 11. In surg., the act of pulling upon the segments of a limb so as to cause a separation of the opposing joint-surfaces.

distrainee (dis-trā-uē'), n. In law, one whose property has been taken by distress.

distrib. An abbreviation (a) of distributed;

distrib. An abbre (b) of distributive.

distribuend (distribuend'), n. [L. distribuendus, gerundive of distribuere, distribute.] That which is to be distributed. H. Sidgwick. distributary, a. II. n. In phys. geog., an outflowing branch of a river, such as occurs characteristically on a delta.

distribute, v. l.—Distributed vector. See *vector.
—Distributing post-office. See *post-office.
distributee (dis-trib-\bar{u}-t\bar{e}'), n. [distribute + See $\star vector$.

-ec¹.] In law, one legally entitled to a share of the personal estate of an intestate.

distributer, n. 2. In printing, the appliance in a linotype machine which returns to the magazine for re-use the matrices which have just been used in composition and casting .- 3. In elect., a panel, pillar or small switchboard by means of which the various circuits for a building or suite of rooms are connected to the mains.

distributer-bar (dis-trib'ų-ter-bar), n. In printing, a bar in a linotype machine which has a series of tracks and combinations upon disulphuret (di-sul'fu-ret), n. [di-2 + sulphuwhich the used matrices are carried to their proper position for distribution in the maga-Also called distributing-bar.

distributing-bar (dis-trib' n-ting-bar), n. Same as *distributer-bar.

distributing-table (dis-trib'ū-ting-tā"bl), printing, a surface of metal upon which inking-rollers distribute printing-ink. It is usually a part of the printing-machine. For the hand-press it is a separate attachment.

press it is a separate attachment.

distribution, n.—Bipolar distribution, the occurrence in both polar regions of organisms, mostly marine, which are not known to occur in the tropics.—Bipolar theory of distribution of species. See *bipolar.—Canonical distribution. See *canonical.—Combinational distribution, the distribution obtained in the combinations presented by games of chance.—Curve of distribution. Same as Queletet *curve.—Discontinuous distribution, the occurrence in widely separated regions or geological formations of organisms or of the

remains of organisms which are not known to inhabit the intervening area, nor the intervening formations. See *bipolarity.-Geological distribution, the vertical range, through successive rock strata, of extinct fannas and floras, or of the species constituting such assemblages: contrasted with geographical distribution or the contemporaneous distribution of such organisms, living or extinct.—Horizontal distribution, the distribution of organisms considered as ranging over the earth or through the sea horizontally, as distinguished from their distribution in slatitude.—Microcanonical distribution, in statistical mech., the limiting distribution in phase of part of a canonical ensemble when the difference of the limiting energies is indefinitely diminished. remains of organisms which are not known to inhabit the limiting energies is indefinitely diminished.

From a certain point of view the microcanonical dis-tribution may seem more simple than the canonical. J. W. Gibbs, Statistical Mech., p. 116.

Normal distribution, the conformity of statistical events to the mathematical law of error.

The regression curve between pairs of blood relations.. is within the limits of random sampling tinear. This had already been suggested by Galton on the basis of the theory of normal distribution.

Biometrika, Nov., 1903, p. 395.

Vertical distribution, the distribution of organisms in altitude on the one hand from ses-level to the tops of mountains and on the other from the sea-level to the bottom of the sea; bathymetrical as distinguished from hori-

tom of the sea; bathymetrical as distinguished from horizontal distribution.

Distributional area, the entire territory over which a given snimal, or group of animals, is distributed. It need not be a continuous distribution: thus southern Europe is the distributional area of the chamois, although the snimal is confined to a few mountain ranges which form its station.

distribution-valve (dis-tri-bū'shon-valv"), n. The main slide-valve in an engine which has. a double valve or Meyer valve. It is so named to distinguish it from the expansion-valve which rides on the back of the main or distribution-valve.

Distributive fault, justice. See *fault, iustice.

district, n. 3. A subdivision of an English county with jurisdiction in sanitary matters. These districts are classed as 'urban' and 'rural' according as they lie within or without a borough or city.—District formation. Same as climatic *formation.—Forecast district, in meteor., a district for which a westher forecast is made. The United States is divided into forecast districts, with rather arbitrary boundaries, for the convenience of the official forecasters. These are New England, the West Gulf district, the North Central district, and the North Pacific district, the South Pacific district, and the North Pacific district, the South Pacific district, and the North Pacific district, the Governation of the Washington forecast district. The forecasts emanating from the forecast division at Washington are sent to the district forecasters at Boston, New Orleans, Chicago, Denver, San Francisco, and Portland, Oregon, and distributed by telegraph, telephone, and mail, daily, through these respective forecast districts.

disturbance, n. 6. In astron., same as perturbation; the deviation of a body from the elliptical orbit it would otherwise pursue, caused by the attraction of bodies other than the primary.—Disturbance of patronage, in old. with its own elective council charged chiefly

the primary.—Disturbance of patronage, in old Eng. law, the act of a patron by which he sought to prevent the presentation of his clerk to a benefice.

disturbant, a. II. n. In law, same as dis-

disturnpike (dis-térn'pik), v. l.; pret. and pp. disturnpiked, ppr. disturnpiking. [dis-+ turndisturnpiked, ppr. disturnpiking. [dis-+ turn-pike, n.] To convert (a turnpike) into an ordinary highway by the legal removal of toll-

gates; free (a road) from tolls. distylous (dī-stī'lus), a. [Gr. $\delta\iota$ -, two-, + $\sigma\tau\bar{\nu}\lambda\rho\varsigma$, pillar: see $style^2$.] Iu bot., having two

styles.

disubstituted (dī-sub'sti-tū-ted), a. [di-2 + substituted.] Noting compounds in which two hydrogen atoms are replaced by other atoms or radicals. See substitution, 6.

disulphid, n.—Carbon disulphid. See bisulphid of carbon.—Hydrogen disulphid. See $\star hydrogen$. disulphonic(di-sul-fon'ik), a. [di-2+sulph(ur) $+ \cdot n + \cdot ic.$] In chem., containing the sulpho group of atoms, HSO₃ or HO.SO₂, twice in union with carbou: as, anthraquinone disulphonic acid, $C_{14}H_{6}O_{2}(HSO_{3})_{2}$, used in the manufacture of artificial alizarin.

Same as bisutphuret.

disulphuryl (dī-sul'tū-ril), a. [di-2 + sulphur In chem., containing the group of

atoms known as sulphuryl, SO₂, twice: as, disulphuryl chlorid or oxychlorid, (SO₂)OCl₂. disunite, v. II. intrans. Of a horse, in galloping, to move the left hind leg immediately after the right fore leg, or vice versa.

disvulnerability (dis-vul"ne-ra-bil'i-ti), n. [disvulnerable + -ity.] The quality possessed by some persons of a rude physical type of being comparatively difficult to wound serious that the statement of the st ously, that is, of recovering easily from wounds or injuries.

This insensibility shows itself also in disruduerability, or rapid recovery from wounds, first pointed out by Benedikt, which appears to be a frequently observed phenomenon among criminals. II. II. Ellis, The Criminal, p. 113.

difficult to wound severely, that is, of being able to recover easily from wounds; not easily vulnerable (as to consequences of wounds).

Defectives are lacking in sympathy partly, at least, because they are Insensitive, analgesic, and more or less disrulnerable.

Amer. Jour. Relig. Psychol. and Educ., Msy, 1904, p. 34.

dita (de'tä), n. [Tagalog dita.] In the Philippines, a tree, Pala scholaris, belonging to the Apocynacea, which yields a valuable medicinal bark. See devil-tree and dita-bark.

ditaine (dē'ta-in), n. [dita + -ine².] A colorless, hitter alkaloid, C₂₂H₂₈O₄N₂,4H₂O, contained in dita-bark, Echites scholaris L. (Alstoorless, hitter alkaiom, στο tained in dita-bark, Echites scholaris L. (Ausonia scholaris Brown), from the Philippines, which crystallizes in thick, glassy, lustrous prisms. It is used as a febrifuge. Also called echitamine.

Also called the property of the property of

ditamine (dit'a-min), n. [dita + amine.] An amorphous alkaloid, $C_{19}H_{19}NO_2$, contained in dita-bark from the Philippines. It melts at

75° C.

ditch, n.—Behind-the-Ditch, The Devil's Ditch or Dike. See The *Ditch.—The Ditch, a large prehistoric embankment near the race-course of Newmarket, England. It is 4 to 5 miles long, 18 to 20 feet high, and 100 feet broad on top, and has a slope of 50 feet on the southfeet broad on top, and has a slope of 50 feet on the south-west side. It separates the race-course proper from an-other, known as "Behlud-the-Ditch," where certain races are also run. Also known as the Devil's Ditch or Dike.— To put under the ditch, to intersect with ditchea or treuchea for irrigation purposes. [U.S.]

ditcher, n. 2. A ditch-machine. -3. In lawnbowls, a ball which runs off the field of play into

the surrounding gutter or ditch. ditching-plow (dich'ing-plou), n. heavy plow used in loosening the earth at the dinretin (di-u-re'tin), n. [diuret-iv + -in2.] bottom of ditches.

ditch-machine (dich'ma-shēn"), n. A machine for digging ditches or excavating trenches.
ditch-moss (dich'môs), n. The water-weed or

water-thyme, Philotria Canadensis.

ditch-rider (dieh'rī/der), n. A man, who is employed to ride along and inspect all parts of an irrigation-canal or ditch and to give especial attention to the distribution of water and the prevention of waste. F. H. Newell, Irrigation in U.S., p. 107.

diterebene (di-ter'ē-bēn), n. Same as *diter-

diterpene (dī-ter'pen), n. A terpene having

the formula $C_{20}H_{32}$. ditesseral (dī-tes'e-ral), a. [Gr. $\delta\iota$ -, two-, + L. tessera, a small square or cube: see tessera.] Having two small squares or cubes: noting certain symmetry classes belonging to the isometric system. See symmetry.

ditetragonal (di-te-trag'ō-nal), a. [di-2 + tetragonal.] In erystal.: (a) Twice four-augled or twice four-sided: said of the eight-faced prism and eight-faced pyramid (or double pyramid) of the tetragonal system. (b) Noting a type of symmetry characterized by a tetrad axis (that is, one of tetragonal or fourfold symmetry) in which four planes of symmetry intersect. See *symmetry.

dithallious (dī-thal'i-us), a. [di-2 + thalli-um + -ous.] In chem., containing two atoms of the

metal thallium.

dithionate (di-thi'ō-nāt), n. [dithion(ic) + atel.] In chem., a salt of dithionie acid: as, sodium dithionate, Na2S2O6 (formerly called

hyposulphatc).

Dithyrocaris (dith'i-rō-kā'rıs), n. [υπ. ωτ. urvugum.]

double, + θίρα, a door, + καρίς, (prob.) a during the process of lengthening, as in the shrimp.] A genus of crustaceans of the order pods of Asclepias.

Phyllocarida, having a bivalved carapace ridged divergent, a. 4. In bot., gradually separating with growth. See *divergence, 4. (dith"i-rō-kā'ris), n. Dithyrocaris lated to the telson. It occurs in the Devenian and Carboniferous formations.

di-tri-. An elliptic combination of di- + tri-, diversicolored (di-ver-si-kul'ord), a. Of varimeaning either 'di- or tri-' or 'di- and tri-': as, ous or varied colors, di-trichotomous (= 'dichotomous or trichoto- diversiflorate (di-ver-si-flo'rāt), a. [L. divermous'), di-trimerous, etc. ditrichotomously (dī-trī-kot'ō-mus-li), adv.

In a ditrichotomous manner.

ditrichotriæne (di'trik-ō-tri'ēn), n. [Gr. δι-, versus, diverse, + folium, leaf.] Same as αιdouble, + τρίχα, threefold, + τρίανα, a trident.] In the nomenclature of the spicular diversional (di-ver'shon-al), a. [diversion +
-all.] Relating, pertaining to, or used in didiversional contrivances. the subsidiary branches are also forked.

ditriglyphal (dī-tri'gli-fal), a. Same as *ditriglyphic.

disvulnerable (dis-vul'ne-ra-bl), a. [dis- + ditriglyphic (di-tri-glif'ik), a. [ditriglyph + vulnerable.] Possessing the faculty of being difficult to wound severely, that is, of being presence of ditriglyphs: said of an arrangement of the Doric order which, by widening the intercolumniation, necessitates the use of two triglyphs between the columns instead of

one. See ditriglyph. ditrigonal, a. 2. Noting a type of symmetry characterized by a trigonal axis (that is, one of threefold symmetry), in which axis three planes of symmetry intersect. See *symmetry. ditrigonally (dī-trig'ō-nal-i), adv. In a ditrigo-

ditties (dit'ez), n. pl. [Detached from dittybag.] Any fabrics suitable for making ditty-bags for sailors' use: used only in the plural.

copyist. Also dittogram,

dittographic (dit-ō-graf'ik), a. Of the nature of a dittograph.

Dittrich's plugs. See *plug.

Engid 100

diureide (di-ŭ'rē-id), n. [di-2 + ureide.] One
south of a class of organic compounds, such as uric acid, which contain two ureide radicals in the molecule. These substances are of interest in connection with the metabolism of birds and reptiles, which excrete their nitrogenous material largely in the form of dinreides.

diuretic, n.—Cardiac diuretic, a remedy which produces diuresis indirectly by increasing the force and efficiency of the heart-beats.—Saline diuretic, a salt of sodium or potassium which increases the arinary secretion.

The proprietary name of a compound of sodium salicylate and sodium theobromine which possesses marked diuretic properties

Diurnal revolution, sleep, variation. See *revolution, *sleep, *variation. diurnule (di-ern'ūl), n. [L. diurnus, daily, + -ule, as in grunule.] A granule containing a fractional part of the daily dose of a drug, the size of the fraction denoting the number of granules that must be taken at even intervals in the course of twenty-four hours.

Dinturnal revolution of the earth, a phrase used by William Andrews (1809) to describe an imagined spiral revolution of the earth in the course of which "the north terrestrial polar point is taken within 30" of the south sidereal polar point, and returned to within 60" of the point under the North Star from whence it started."

div² (dēv), n. [Pers. dīv, dīw, formerly dēv, ⟨ Zend daēva, an evil spirit, = Skt. dēva, god: see deva. For the descent of meaning compare the history of demon.] In Persian myth., an evil spirit or demon; a devil; an evil genius.

An abbreviation (a) of dividend, much used in exchange quotations with cum or ex: as, cum dir., with the dividend; ex dir., without the dividend; (b) of division.

divagate (dī-vā'gāt), v. i.; pret. and pp. divagated, ppr. divagating. To wander about, as gated, ppr. divagating. To wander about, as from place to place or from subject to subject; strav: digress

divalence (di'va- or div'a-lens), n. The state of being divalent.

divalency (dī'vā- or div'a-len-si), n. Same as *divalence.

Divers' disease, divers' palsy. Same as caisson-disease.—Florentine diver, one of the globes or human figures used in the experiment with Ferdinand's globes. See $\star globe$.

diverginervate (di-ver-ji-ner'vat), a. [Irreg. \(\) diver(gent) + nervate.] In bot., having divergent nerves.

ditokous, a. 2. Producing two kinds of young, diverginervous (di-vêr-ji-nêr'vus), a. Same as *diverginervate.

sus, diverse, + flos (flor-), flower.] Same as dirersiflorous.

diversifoliate (di-ver-si-fō'li-āt), a. [L. di-versus, diverse, + folium, leaf.] Same as di-dividing-motion (di-vī'ding-mō'shon), n. An

version: as, diversional contrivances.

The uses to which the earthenware of the aborigines was applied were numerous and important; they may be

classed roughly as domestic, industrial, sacerdotal, ornamental, and trivial or diversional. Rep. Bur. Amer. Ethnol., 1898-99, p. 24.

Diversion weir. See *weir.

diversisporous (di-ver-i-spō'rus), a. [L. di-versus, different, + Gr. σπορά, seed (spore).]
Having different kinds of spores.

diverter, n.— Electrical diverter, a form of combined lightning guard and fuse for telephonic and other electrical apparatus. It consists essentially of a coil of fine copper wire the inductance of which serves to divert sudden surges of current to a neighboring ground-plate. The terminals of the coil, which are of fusible metal, afford protection from heavy currents.

divertibility (di-ver-ti-bil'i-ti), n. The capability of being diverted into other channels: as, the directibility of trade.

Diverticular hernia. See *hernia.

diverticularization (dī-ver-tik # ū-lär-i-zā'shon), n. In embryol., the act of forming diverticula, evaginations or pockets during development.

diverticulate (dī-vėr-tik'ū-lāt), a. Same as directiculated.

diverticulum, n. 2. Any short side passage of the nature of a cul-de-sac or blind alley.

Four or five feet below the entrance was a diverticulum, or short side passage . . . probably used as a place in which to turn around when the animals come back to take a look at the intruder before finally disappearing in the bottoms of their burrows.

Yearbook U. S. Dept. Agr., 1901, p. 261.

3. In algol., a protrusion of protoplasm communicating with the fused procarp cells and the municating with the fused procarp cells and the placenta.—False diverticulum, a diverticulum of the intestine caused by a protrusion of the mucous membrane through a rent in the muscular wall—Meckel's diverticulum, a diverticulum from the ileum resulting from non-obliteration of the ductus vitellinus in the embryo.—Pulsiondiverticulum, sdiverticulum caused by a protruding force acting from within. Jour. Exper. Med., Jun. 15, 1901, p. 328.—Traction diverticulum, a diverticulum caused by a pulling force from without, as by the contraction of fibrous adhesions.—True diverticulum, a diverticulum of the intestine formed by a protrusion of the entire thickness of the wall: opposed to false **diverticulum* (which see). ticulum (which see).

divertimento (di-ver-ti-mān'tō), (divertire, divert.] In music: (a) A dance interpolated in an opera; an entracte. A piece of chamber music, made up of several movements rather loosely combined; a suite or sonata (in the older sense). (c) A potpourri or fantasia. (d) A free episode in a fugue.

divertisement, n. 3. Same as *divertimento (a): in this sense usually in the French form diver-

tissement.

dives (dī'vēz), n. [L. dives, rich.] man: [cap.] usually regarded as the proper name of the rich man of the parable in Luke-

xvi.—Dives costs, in law. See cost2.

Divesian (di-ve'si-an), a. [Dives in France.]
In geol., noting a division of the Jurassic system in the vicinity of Dives and elsewhere in France, in part equivalent to the Kellaways. rocks or Middle Oolites of Britain.

divestitive (di-ves'ti-tiv), a. Having the power or property of divesting. divide, v. t. 12. In billiards, to divide balls (mentally) into sixteenths, eighths, quarters, halves, and three quarters of their diameters, in order to insure certain deviations. Strokes are divided into quarter-follows, half-draws, half-spread, so on.

divide, n.—Continental divide, a water-parting between river systems that flow into different oceans.—Great Divide, specifically, the Rocky Mountain water-parting

parting.

divided, p. a. (d) In phonol., applied to a consonant, as t, formed with the mouth-passage divided in the middle by the tongue pressed against the gum or palate.—

Divided harmonically, divided internally and externally into asgments having the same ratio.—Divided internally, divided, as a sect AB, by a point P upon it.—

Divided self, divided will. See \star self.

dividend n—Cumulative dividend, a dividend

dividend, n.—Cumulative dividend, a dividend with regard to which it is agreed that if at any time it is not paid in full, the difference shall be added to the following payment. Thus if a cumulative dividend is 5 per cent, and only 4 per cent, is paid, the amount due at the next payment is 6 per cent.—Preferential dividend, a dividend on preferred stock.

A cumulative preferential dividend is sometimes said to be "guaranteed," and preferential dividends payable by all companies registered under the [British] Companies Acts, 1862 to 1900, are cumulative unless stipulated to be otherwise.

Encyc. Brit., XXVII. 471.

apparatus for dividing a straight line or circle into a given number of equal parts. It is commonly used on gear-cutters for spacing the teeth

dividing-plate (di-vi'ding-plat), n. A plate having series of holes spaced at proper inter-

dividual, a. 2. Divided: separate; distinct. Me-and-Thee: some dividual Existence or Personality distinct from the Whole.

Fitzgerald, Notes to Rubaiyat, st. 32.

3. Divisible; capable of being divided into parts: as, "a dividual essence in Truth," parts: as, Lowell,

dividualism (di-vid'ū-al-izm), n. The opposite of individualism or subsistence as a distinct entity. See individualism and individuality,

We see in a general way that a condition of the presentation of visious lies in the over-sensitiveness of certain tracks or domains of brain action and the under-sensitiveness of others, certain stages in a mental process being represented very vividly in consciousness while the other stages are unfelt; also that individualism is changed to dividualism. Francis Galton, Human Faculty, p. 169.

ality (di-vid-ū-al'i-ti), n. [diridual + Dixa (dik'sā), n. [NL. (Meigen, 1818), < Gr. dividuality (di-vid-ū-al'i-ti), n. [dividual + extract.

Dividuality [in dreams] replaces individuality, and one portion of the mind communicates with another portion as with a different person.

Francis Galton, Human Faculty, p. 207.

divinatorial (di-vin-a-tō'ri-al), a. [divinatory + -all.] Based on conjecture; conjectural: as, divinatorial criticism.

diving-lamp (di'ving-lamp), n. An electric *monoxeny. lamp specially arranged for use by submarine dixid (dik'sid), n. and a.

divinify (di-vin'i-fi), v. t.; pret. and pp. divinified, ppr. divinifying. [divine + -i-fy.] To render divine; ascribe divine attributes or nowers to: regard as divine.

Divisible offense. See *offense.

division, n. 5. (e) In railroads, the longest undivided part of a line: distinguished from the smaller subdivisions called *sections.
10. In biol., the breaking up of an organism,

either naturally or artificially, into two or more parts which restore what is lacking and become new organisms of the typical form, as contrasted with reproduction by buds, which begin as small parts of the parent organism and gradually increase in size until they attain the typical form.

For instance, the delevopment of a new individual at the side of the body of hydra is a typical example of hudding, while the breaking np of lumbriculus or of a planarian into vieces that form new individuals is a typical example of division.

T. H. Morgan, Regeneration, p. 149.

T. H. Morgan, Regeneration, p. 149.

Cassini division, in astron., the principal division in Saturn's ring, discovered by Cassini in 1675.—Chesapeake division, in geol., a division of the Miocene Teritary developed along the Atlantic coast.—Heterotype division. See *heterotype.—Homographic division, in math., projective division; the partition of a straight line or of two straight lines by two projective ranges or point-rows.—Postreduction division, a reduction division of the chromosomes in the secondary obeyte or secondary spermatocyte, following an equation division in the primary obeyte or primary spermatocyte.—Prereduction division are duction division, a reduction division in the primary obeyte or primary spermatocyte.—Prereduction division are duction division, are duction division alignment of the chromosomes in the secondary obeyte or primary spermatocyte.—Prereduction division are duction division are duction division, are duction division alignment. the primary obeyte or primary spermatocyte.—Prereduction division, are duction division of the chromosomes in the primary obeyte or primary spermatocyte, preceding an equation division in the secondary obeyte or of the State of New York econdary spermatocyte

divisional, a. 3. Fractional.
II. n. An aliquot part; a snb-multiple.
—Divisional plane. See *plane1.

division-center (di-vizh'on-sen ter), n. Same as $\star centrosome$.

division-engineer (di-vizh'on-en-ji-nēr"), The chief engineer having charge of the maintenance of way for a division of a railroad.

division-peg (di-vizh'on-peg), n. A hardened steel peg which is used with a division-plate. The peg is attached to an arm, the turning of which feeds the work in the machine into position for the next cut. When the arm has been turned the correct distance, the peg is pushed into a hole in the division-plate and holds the work steadily while the cut is being taken.

division-plane (di-vizh'on-plan), n. A joint in a rock which facilitates the separation of blocks of stone.

division-superintendent (di-vizh'en-sū-per-in-ten"dent), n. The chief officer in charge of the traffic of a division of a railroad.

divisor, n.—Essential divisor of the discriminant, a divisor unaffected by birational transformations.—Unessential divisor of a discriminant, a perfect square which, multiplied by an essential divisor, gives the discriminant.

tion of the parts among a number: as, divisory actions in law; divisory contracts.

divorcé (dē-vôr-sa'), n. [F.] A diverced man. divorced (di-vôrst'), p. a. Separated by legal deeree from the bonds of matrimony; repudiated by a formal act of divorce.

vals to be used in dividing circles or distances divorce (di-vôr-sẽ'), n. [divorce + -cc¹, after dob² (dob), n. [Dial. var. of dab¹.] A small into a given number of equal parts: an indexplate.

the F. forms (which are also often used in piece of anything; a lnmp. [Prov. Eng.] Eng.), divorcé, m., divorcée, f.] A person who dobash, n. See doblash.

lividual, a. 2. Divided: separate: distinct. has been divorced. The term is more com-dobber (dob'ér), n. [dob² + -er¹.] 1. A piece; monly applied to a woman.

divorcée (de-vôr-sa'), n. [F.] A divorced woman.

2. In golf, a piece of turf cut out

with a club in playing a stroke.

divvy (div'i), n. [divi(dend).] A dividend;
an amount to be divided or shared by the members of a party or ring. [Slang.]

divvy (div'i), v. i.; pret. and pp. divvied, ppr. divrjing. To go shares.—To divvy up, to pay up the share that ought to come to one. [Slang.]

dix (des), n. [F., ten; OF. dis, \L. decem, ten: see ten.] The lowest trump in games such as penuchie, bezique, sixty-six, etc. It can be exchanged for the turned-up trump at any time, the holder

 $\delta i \xi \delta g$, Ionic for $\delta i \sigma \sigma \delta g$, double.] A genus of midges typical of the family Dixidx. They are minute and inhabit damp places in forests. The larve are aquatic and resemble those of mosquitos. Less than ten species are known to inhabit the United States, and four are found in Great Britain.

different species. De Bary.

the dipterous family Dixidæ.

II. a. Of or belonging to the family Dixidæ. Te Dixidæ (dik'si-dē), n. pl. [NL., \ Dixa + s er idæ.] A family of midges intermediate between the Culicidæ and the Tipulidæ and een-

sisting of the single genus Dixa.

dizoic (dī-zō'ik), a. [Gr. δι-, two- + ζφον, animal.] Producing two young: as, a dizoic spore; specifically, producing two falciform bedies er sperozeites, as the speres ef certain Coccidiidea. Labbé.

Coccididea. Labbe.

dizziness, n.—Purkinje's dizziness, in psychol., an illusion of rotation, due to involuntary movements of the eyes. If one twirls upon one's heels until the surrounding objects seem to be moving in the opposite direction, and then stops, the surrounding objects will appear to continue their movement: this is Purkinje's dizziness. If the eyes are watched during the illusion, it will be seen that they execute slow movements in the direction of the original rotation, alternating with rapid movements in the opposed direction. E. C. Sanford, Exper. Psychol., p. 42. An abbreviation of deciliter.

D. L. An abbreviation (a) of Deputy Lieutenant; (b) of Doctor of Law, a degree equivalent to D. C. L.; (c) of Doctor of Literature, a degree equivalent to D. Lit.

D. An abbreviation of Literature, a degree equivalent to D. Lit.

An abbreviation of Letters

An abbreviation of Letters D. L. An abbreviation (a) of Deputy Licutenant;

Science, a degree conferred by the University of the State of New York.

dm., dm.2, dm.3 Abbreviations of decimeter, square decimeter, cubic decimeter.

D.M. 2. In astron., an abbreviation for *Durchmusterung (which see). It usually refers to Argelander's Bonn Durchmusterung of the northern heavens, more properly referred to as B. D. M. or simply B. D. 3. Same as M. D. (which see).—4. An ab-

breviation of Doctor of Mathematics.

D. M. D. An abbreviation (a) of Doctor of Dental Medicine; (b) of Doctor of Mathematics and Didactics: degrees conferred by certain institutions.

the D. N. P. P. An abbreviation of the Latin Dominus noster Papa Pontifex, 'our lord the Pope and Pontiff.'

do- or dom- (do-, dom-). [dom(inantly).] In petrog., in the quantitative system of classifieation (see *rock1), a prefix used in forming words, denoting that one constituent or group of constituents dominates another within the dock2, v. t. 5. In biscuit- (cracker-) making, to ratios $\langle \frac{7}{4} \rangle \frac{5}{4}$.

divisory (di-vi'zō-ri), a. [NL. *divisorius. < Doassansia (dō-a-san'si-ā), n. [NL. (Cernu, less), named for Emile Doassans, a French with the division of something and the distribution of the restriction botanical chemist.] A genus of smut-fungi of the order *Ustilaginales*, having the spore-masses inclosed in a layer of sterile cells and embedded in the tissue of the host, producing leaf-spots. About 16 species have been described, mostly occurring on aquatic or marsh plants. D. Alismatis is frequently found on the leaves of the waterplantain, Alisma Plantayo-aquatica.

a lump: a big lump. - 2. A large heavy taw or marble. -3. The cerk or float of a fishingline. [U.S.]

He floated on the waves like a merman, or like an angler's dobber, until he landed safely on a rock. Irving, Knickerbocker, ii. 5.

dobbin-cart (dob'in-kärt), n. An Irish fourwheeled carriage used for traveling, and generally drawn by two horses. N. E. D.

dobby, n.—Center-shed dobby, a form of dobby-loom chiefly used in weaving cotton labrics the structure of which (as that of gauze) precludes high speed, or for which elosed shedding is essential.

dobby-loom (dob'i-löm), n. Same as dobby-

dobby-shedding (dob'i-shed"ing), n. A method of operating the barnesses of a loom for patterns beyond the range of tappets and too limited to be economically produced by a Jacquard loom.

doblon (dō-blēn'), n. [Sp.] A gold eein of Spain, the double escudo: same as doubloon. dixeny (dik'se-ni), n. [Gr. $\delta \iota$ -, two-, + $\xi \iota \nu o_{\xi}$, doc (dok), n. A colloquial form of doctor, as a host.] The inhabiting by fungi of hosts of two title of address.

See *polyxeny, doc.; pl. docs. Abbreviations of document, pl. documents.

I. n. A member of docalcic (de-kal'sik), a. [do(minantly) + calcic.] In petrog., dominantly calcie: used in the quantitative classification of igneous rocks (see *rock1) to describe divisions of igneous rock-magmas characterized by a dominance of ealeium oxid over contrasted censtitinents. In Classes I, II, III, docalcle rangs are those in which lime preponderates over potash and soda, in the salic constituents within the ratio $\frac{K_2O' + N_3O'}{C_3O'} < \frac{3}{5} > \frac{1}{7}$.

In Classes IV, V, docalcic sections of range are those in which lime preponderates over magnesia and ferrous iron in the femic constituents within the limits $\frac{\text{MgO} + \text{FeO}}{\text{CaO''}} < \frac{3}{5} > \frac{1}{7}.$

docetically (dő-se'ti-kal-i), adv. According to the doctrines of the Docetæ (which see).

docetize (dō-sē'tiz), v. t.; pret. and pp. docetized, ppr. docetizing. [Docetæ + -ize.] To represent according to the doctrines of the

dochmiasis (dok-mi-ā'sis), n. [NL., < Dochmius + -iasis.] Same as *ancylostomiasis.

dead infant, by which an indication is furnished whether
the child was born alive or dead.

dock! .m.—Bloody dock, Rumez sanguineus. Also
called red-veined dock and bloodwort. See bloodwort (a).
—Blunt-leaved or broad-leaved dock, the bitter dock,
Rumez obtusifolius.—Butterfly-dock. Same as *batterdock, !..—Can-dock. See candock, 2, and water-can.—
Clustered dock, Rumez conglomeratus, an old World
species naturalized in the United States from Virginis
to South Carolina and in California: peculiar in having the
small green flowers in whorls along the stems and branches.
—Cuckold-dock, the burdock, Arctium Lappa.—Dropseed dock, Rumez hastulatus, a native American species
ranging from New York to Florida and west to Kansas and
Texas: it has winged fruit which early drops away. Also
called Engelmann's sorret.—Golden dock (a) See dock!,
1. (b) Rumex persicarioides, an American species long
confounded with the golden dock of the Old World, found
on sandy shores from New Brunswick to Virginia and
westward to Kansas and New Mexico, and also on the
Pacific coast.—Pale dock, the white dock, Rumez salicifolius; also the peach-leaved dock, R. altissimus, and
sometimes the great water-dock, R. Britannica.—
Peach-leaved dock, Rumez altissimus, a tall American
species, sometimes 4 feet high, found along streams
and in swamps from Massachusetts to Maryland and
westward to Nebraska and Texas. The pale-green lancolate leaves suggest the name, and it is also quite as appropriately called lattl dock.—Prairiedock. See *prairiedock.—Red-veined dock.
Sharp dock, Sorre-dock, Sour-dock, any one of
several docks with more or less acid juice, as Rumez
Acctosa, R. Acctoscila, R. crispus, and Oxyria digyna.—
Tall dock. Same as peach-leaved *dock.—Water-dock.
dock?, v. t. 5. In biscuit- (cracker-) making, to
prick holes in (each biscuit) before it is put in

prick holes in (each biscuit) before it is put in the even, to provide for the escape of moisture.

the even, te provide for the escape of moisture. dock³, n. Docks are distinguished broadly as vet docks, or those consisting of an inclosed water-space or basin in which ships lie to take in or discharge cargo, and which cannot be pumped dry; and dry-docks, in which vessels can be taken entirely clear of water. The latter are divided into excavated or graving-dacks, slip-docks, lifting-docks, and floating docks. A basin dock is a wet dock whose entrance is continually open to the tide; a closed dock, one whose entrance is closed by a lock, caisson, or gate so as to maintain the Interior water-level approximately constant. A slip-dock is one in which a vessel is partially hauled out on a marine railway in a slip provided with gates which are closed at low tide, excluding the water from the vessel. A lifting-dock is one in which a suff-merged platform on which the ship is landed on blocks and

GOCK
is then raised vertically clear of the water with the ship by hydraulie power. An off-shore dock is a floating dock with a bottom and one side wall, maintained in an upright position by means of upper and lower parallel booms attached to the side wall and to strong vertical columns built on the foreshore. A box-dock is a floating dock whose ends can be closed by caissons or gates after the entrance of the vessel, the interior space being then pumped out as in a graving-dock. A balance-dock is the ordinary type of floating dock with open ends, in which the side walls are utilized as ballast compartments to maintain the dock in level balance. A self-docking floating dock is one so arranged in detachable sections that all its underwater parts can be successively docked by the remaining parts for examination and repairs.

2. In railroading, a track at a siding or in a

2. In railroading, a track at a siding or in a freight yard, having a raised platform on each side for convenience in loading at the level of the ear door. [U. S.]—Burean of yards and docks. See *bureau.—Portable dock, a dock built on the principle of the caisson, which can be towed to a vessel needing repairs.—Ship-building dock, any dry-dock or eaisson within which the hull of a vessel may be built, and the use of cradiac construction and ways be availed. and the use of cradle-construction and ways be avoided.

dock-cress (dok'kres), n. See cress and Lap

 $docker^2$ (dok'er), n. [$dock^3 + -cr^1$.] inhabitant of Devonport, England (formerly Plymouth Dock).—2. A laborer in the docks: as, a trades-union for dockers was formed .- 3. A case seenred by a lawyer from a prisoner after his arrest or upon arraignment. [Eng.

law-slang.]
docking² (dok'ing), n. locking² (dok'ing), n. [dock³, v., + -ing¹.] The operation of placing a vessel in a drydock for cleansing, inspection, painting, and

docking-keel (dok'ing-kel), n. In ship-building, one of a pair of exterior side keels secured under the bottom of a large armored warship, usually about half-way between the main keel and the turn of the bilge, to support the ship when in dry-doek. The lower surface of each of the dockine-keels is parallel to that of the main keel and of about the same width, to give good bearing surface on the blocks in the bottom of the dock on which the ship is

docmac (dok-mäk'), n. [Ar. doqmāq, duqmāq, a mallet, < daqq, knock, smash.] A eatfish, Bogrus docmac, of considerable size, found in fresh waters in Egypt.

docoglossan (dok-ō-glos'an), a. [Docoglossa + -an.] Relating to the Docoglossa. docosane (dok'ō-sān), n. A colorless compound, CH₃(CH₂)₂₀CH₃, found in paraffin from brown coal and prepared by the reduction of the chlorid C₂₂H₄₄Cl₂. It melts at 44.4° C. and boils at 224.5° C. under 15 millimeters pressure.

hoctor, n. 10. In angling, a name applied to several artificial flies: as, the blue doctor, the doctor, n. silver doctor, etc.—11. A boiler feed-pump such as has been preferred on the western rivers of the United States. It is a vertical steampnmp, with a fly-wheel between the steam-cylinder and water-cylinder, and is said to be especially reliable. In case of need it can be operated by turning the fly-wheel by beard hand.

The cook of a merchant vessel; also, the cook of a lumber-camp. [Slang.]—Doctors of the church, the designation of certain fathers of the early church, eminent for their knowledge and teaching of theology. The title is applied to four of the Greek fathers: Athanasius, Basii, Gregory, and Chrysoston; and to a number in the Latin church including Ambrose, Augustine, and Jerome. Some of the great schoolmen of the middle ages are also so designated. The title is still used in the Greek Church.

doctor-bird (dok'tor-berd), n. A local West Indian name for various humming-birds of the genera Eulampis and Lampornis: probably

given on account of their dark plumage. doctor-knife (dok'tor-nif), n. The stationary blade in a roller cotton-gin. Taggart, Cotton

Spinning, I. 32.

doctor-shears (dok'tor-sherz), n. In catico-printing, two pieces of metal that clamp, by means of pinehing serews, the doctor-blade on

a cylinder printing-machine.
doctrin, n. A simplified spelling of doctrinc.
doctrinairism (dok-tri-nar'izm), n. Same as

doctrinarianism. doctrinism (dok'tri-nizm), n. [doctrine + -ism.]

Adherence to doctrine or doctrinal preaching. document, n.—Document of title, in commercial law, a bill of lading, or other paper which confers upon the holder possession or right of possession of the goods therein described.—Judicial documents, in law, the papers required to be filed which make up the record of an action or special proceeding. They include the writs, pleadings, intermediate orders, and papers npon which they are founded, affecting the proceedings, documentary evidence, inquisitions, verdicts, indgment, and decrees. documentarily (dok-ū-men'tā-ri-li), adv. As

a document. documentary, a. 2. Educational; instruc-

tional. S.—25

We now approach the time when for a century and a half French held a recognized position [in England] as the language of education, of society, of business, and of administration. Long before 1250 we get traces of the documentary use of French, and long after 1350 it was continued. Trevisa says it was a new thing in 1349 for children to construe into English in the grammar schools, where they had been used to do their construing into French.

Earle, Philol. Eng. Tongue, * 52.

Documentary theory, same as documentary hypothesis, documentation, n. 2. The preparation of ree-ords or documents for use or for filing.—3. Formal or authoritative instruction.

Remonstrances arose against their perverse and narrow-minded devotion to "truth," or rather to minute exactitude, their pedantry and affectation of documentation; sometimes derived from some old colourists who had not renonnced their former ideal, sometimes from younger men impelled unconsciously by literature, which had as usual preceded art in the revolt.

Encyc. Brit., XXXII. 443.

**Consider of the most part, it from their principal host or from some leading character, and the specific names are usually translations of vernacular ones or vice versa. See the following phrases.

—American dodder. See glomerate **Adodder**. Beaked dodder*, Cuscuta rostrata, a species of the Alleghany region from Maryland sonthward, growing on various herbs and shrubs.—Button-bush dodder, *C. Cephalanthi,* which grows on the button-bush that also on other plants, and has a very wide range in North America.—Clover-dodder, the thyme-dodder, *C. Epithym.um, injurious to clover. See dodder*, —Dodder-cake plant, the false flax or gold-of-pleasure, yielding dodder-seed, from which the oil is expressed and made into cakes.—Field-dodder, *C. arrensis,* one of the most common species, found in both North and South America.—Flax-dodder, *C. Epithum,* an Old World species introduced in the United States, injurious to flax.—Glomerate dodder, *C. paradoza, chiefly confined to the Mississippi valley, peculiar from its dense clusters of flowers. It grows mainly on composite plants. Sometimes called *American dodder,—Gronovius's dodder, *C. Gronovii,* a large, showy American species, very common in the Atlantic States, and ranging from Nova Scotia to Florida and Texas. It grows on many herbs and shrubs.—Hazel-dodder, *C. Coryli, growing on the hazel and other shrubs, and ran-States, and ranging from Nova Scotia to Florida and Texas. It grows on many herbs and shrubs.— Hazel-dodder, C. Coryli, growing on the hazel and other shrubs, and ranging from Connecticut to Virginia and west to Nebraska and Arkansas.—Lesser dodder, the thyme-dodder, C. Epithymum.—Lucerne-dodder, the thyme-dodder, C. Epithymum.—Lucerne-dodder, the thyme-or clover-dodder, C. Polygonorum, which grows chiefly on species of Polygonum, a large-fruited American species of the Mississippi valley, ranging eastward to Pennsylvania and Delaware. It is very common in the Potoniac valley where it forms large yellow mats on the water-willow and other plants.—Thyme-dodder, C. Epithymum, growing on thyme in Europe, hut most injurious to clover. See clover-*dodder and dodder! (cut).

dodder-laurel (dod'ér-lâ*rel), n. A dodderlike plant, Cassytha filiformis, of the laurel

dodder-laurel (dod'ér-lâ'rel), n. A dodder-like plant, Cassytha filiformis, of the laurel family, found in the warm maritime regions of the world. Compare scrub vinc, under vinc. doddyl, n. 2. Specifically, a local name for the Aberdeen-Augus polled cattle. dodecafid (dō-dek'a-fid), a. [Gr. δώδεκα, twelve, + l. - fidus, ζ findere, divide.] Divided into twelve parts.

twelve parts.

twelve parts.

dodecahedron, n.—Deltoid dodecahedron, a crystalline form of the tetrahedral group of the isometrie system embraced by twelve similar quadrilateral faces; the analogous form of the holosymmetric group is the trigonal trisoctahedron. Also called a tetragonal tristetrahedron.

dodecameral (dō-de-kam'e-ral), a. [Gr. δώ-δεκα, twelve, + μέρος, division, + -all.] Divided into twelve parts or series of twelves, as in the septal divisions of the Hexacoralla.

dodecanaphthene (do"dek-a-naf'then), n. [Gr. δώδεκα, twelve, + E. naphthene.] A colorless liquid, $C_{12}H_{24}$, found in Bakn petroleum. It boils at 197° C.

dodecane (dō-dek'ān), n. [Gr. δώδεκα, twelve, +-anc.] A colorless hydrocarbon, CH₃(CH₂)₁₀ CH₃, prepared by the action of hydriodic acid and phosphorus on laurie acid. It melts at -12° C. and boils at 214.5° C. dodecant (dō'de-kant), n. [Gr. δώδεκα, twelve, It melts at

+ -ant1.] One of the twelve divisions of a hexagonal crystal formed by the lateral axial plane with the three planes which pass through the vertical and each of the lateral axes.

dodecapartite (do"dek-a-pārt'īt), a. [Gr. δώ-deκa, twelve, + L. partitus, parted.] Made up of twelve segments; dodecafid.

dodecapharmacum (do dek - a-far'ma - kum),
n. [NL., < Gr. δόδεκα, twelve, + φαρμακου,
drug.] Same as apostles' ointment (which see,
under apostle).

dodecarch (do'de-kärk), n. [Gr. δωδεκάρχης, ζ δώδεκα, twelve, + ἀρχειν, rule.] One of a ruling body of twelve.

Psammetichus I., one of the dodekarchs, and the legiti-late heir of the crown. Schaff, Relig. Encyc., 1. 707. mate heir of the crown.

dodecatoic (do"dek-a-to'ik), α. [Gr. δωδέκατος, twelfth, +-ic.] Noting the isomeric fatty acids, $C_{12}H_{24}O_2$. The most important ones are the lauric and hordcie acids.

dodecylene (do-des'i-leu), n. twelve, +-yt+-enc.] A general name for isomerie, olefinie hydroearbons. The normal compound is a colorless liquid, $\mathrm{CH_3(CH_2)_9CH1:CH_2}$, prepared by the distillation of palmitte acid under 600 millimeters pressure. It melts at -31.5° C. and boils at 96° C. under 15 millimeters pressure.

dodge, v. t. 3. In change-ringing, to change the place or order of (a bell) in the series used. dodge, n. 2. Of a bell in change-ringing, a change in its place or order in the series used. Doegling oil or train-oil. See *oil.

doeskin, n. 3. An enameled cloth finished on one side to resemble leather in color.

dof, v. A simplified spelling of doff.

dofelic (dō-fel'ik), a. [do(minantly) + felic (< fel(dspar) + -ie).] In petrog., dominantly felic: nsed to describe divisions of igneous rock magmas characterized by a dominance of normative feldspar over normative quartz or lenads (= nephelite, leneite, sodalite) within the limits $\frac{Q \text{ or } L}{F} \langle \frac{3}{5} \rangle \frac{1}{7}$. See *rock.

dofemane (dô-fem'ān), n. [do(minantly) + fe(rro)m(agnesian) + -ane.] In petrog., the name of the fourth class of ignoous rocks in the quantitative elassification (see *rock1); a rock in which the femie (ferromagnesian) normative minerals preponderate over the salie minerals, that is, normative quartz, feldspars, feldspathoids (lenads), and corundum, within

the limits $\frac{Sat}{Fem} \langle \frac{3}{6} \rangle \frac{1}{7}$. The salic and femic minerals

used in determining the class are ealculated from a chemical analysis of a rock. The dofemanes include rocks poor in feldspar or free from it, such as many peridotites, pyroxenites, some gabbros, and chemically similar lavas.

 $\begin{array}{lll} \textbf{dofemic}\,(\text{do-fem'ik}),\,a. & [\textit{do(minantly}) + \textit{femic}\\ (& \textit{fe(rro)m(agnesian)} & + & \text{-ie).}] & \text{In} & \textit{petrog.,} \end{array}$ dominantly femie. Used to describe divisions of igneons rocks, in the quantitative system (see *rock1), characterized by a dominance of ferromagnesian normative minerals over salic minerals, that is, normative quartz, feldspars, feldspathoids (lenads), and corundum, within the limits $\frac{Sal}{Fem} < \frac{3}{8} > \frac{3}{4}$.

doferrous (dō-fer'ns), a. [do(minantly) + fer-rous.] In petrog., in the quantitative system (see *rock1), noting divisions of igneous rocks eharaeterized by a dominance of ferrous oxid over magnesia, within the limits $\frac{\text{MgO}}{\text{FeO}} < \frac{3}{5} > \frac{1}{7}$.

These divisions are subrangs in classes IV, V. doffer-brush (dof'er-brush), n. An auxiliary device, on a cotton-combing machine, for keeping the comb-needles free from dirt.

doffer-comb (dof'er-köm), n. A thin plate of steel, serrated on one of its edges, for combing, by an oscillating movement, the fibrous fleece, as cotton or wool, from the doffer-cylinder of a earding-machine.

doffer-cylinder (dof'er-sil'in-der), n. Same as

doffing-cylinder. doffer-roll (dof'er-rol), n. The small roll in advance of the principal one in a calendering-or ironing-machine, or in a mangle, by which the fabric is stripped off and delivered to the receiving-table, instead of being allowed to fol-low around the pressing-roll.

doffing-motion (dof'ing-mo"shon), n. Any mechanical arrangement for removing a product from a machine, as a hank from a reel in a textile-mill.



from a machine, as a hank from a reel in a textile-mill.

dog, n., 9. (m) A short, heavy piece of steel, bent and pointed at one end and with an eye or ring at the other. It is used for many purposes in logging, and is sometimes so shaped that a blow directly against the line of draft will loosen it. Also called tail.hook. (n) In agri., an implement for dragging brush, roots, and poles out of the ground; a brush-puller. [Eng.]—Big dog, in poker, a hand which is ace high and nine low, with some one card of the sequence missing, as A K Q 10 9. When played, it beats a straight or little dog and loses to a flush.—Borzor dog, the Russian wolfhound, practically a large, long-haired grey-hound, somewhat like the staghound, but with a soft, silky coat.—Cape hunting-dog. See cut and description under Lycaon.—Coondog. See ext and description under Lycaon.—Coondog. See tot and description under Lycaon.—Coondog. See ext and description under Lycaon.—Coondog. See yet condog. See yet condog. See yet and the little dog, one that may be calibited, or may compete for prizes, in a class limited to dogs that have certain required qualifications.—Little dog, in poker, a hand which is dence low and seven high, with some one card of the sequence missing, as 2 4 5 6 7. When played, it beats a straight, but loses to a big dog or a flush.—St. Bernard dog, a variety of the dog, of large size and powerful build, named from the hospice of St. Bernard in the Alps. The breed was formerly used for searching out and siding travelers. A The original race died of distemper about 1814. There

are two varieties, the long and the short-haired, but both have heavy, square heads. The color is tawny, orange and white, or grizzled.—Straight-tailed dog, a form of dog or driver for cylindrical stock to be turned in the metal-working lathe, in which the projection to engage the face-plate is straight, and intended to be acted on by a pin or bolt projecting from the face-plate. The other and more usual form, in small sizes, has the projecting arm L-shaped, the end of the L engaging in a slot or against a shorter stud on the driving face-plate.

So wild dockneys at 2 Biles Chrocketti Soo wild

dogberry, n. 3. Ribes Cynosbati. See wild *gooseberry, 1.

dog-boat (dog'bōt), n. See *rigging-sled. dog-bolt² (dog'bōlt), n. [dog, n., 9 + bolt¹.] The bolt which is used in connection with a dog, for holding a bonnet or a manhole or hand-hole

cover in place.

dog-bur (dog'ber), n. The wild comfrey, Cynoglossum Virginicum; less properly, the hound'stongue or dog's-tongue, C. officinale.

dog-buttons (dog'but-nz), n. pl. The seeds of the nux vomica. Also called quaker buttons.

The nux roma. Also called quaker buttons.

Dog-cart phaëton. See *phaëton.

dog-chuck (dog'chuk), n. A device which is elamped to a piece of work for the purpose of driving it while it is being machined. A tail, which is sometimes straight and sometimes bent at right angles, is provided on this device for catching in a faceplate or against a stop.

dog-crab (dog'krab), n. A swift-running crab, Caneer caninus, said by Rumphius to burrow under houses and to enter them.

under houses and to enter them.

dog-daisy, n. 2. The mayweed or dog's-fennel, Anthemis Cotula.—3. The oxeye daisy.

dog-dance (dog'dans), n. A ceremony of some North American Indian tribes; the ritual of one of the age-fraternities, embracing warriors of approximately the same age, who form a semi-religious society.

dog-dandelion (dog'dan/dē-li-on), n. The fall dandelion or hawk-bit, Leontodon autumnale.

Dog-day locust. See *locust¹, dog-fall (dog'fal), n. In wrestling, a fall in

which both wrestlers strike the ground together. which both weestlers strike the ground together. dogfish, n., 1. (i) In Australasia, the name of various fishes of distinct families, chiefly sharks. In Australia it is used for Scylliorhinus lima, of the family Scylliide. In New South Wales it is Scylliorhinus maculatus. Blainv. The spine dogfish of New Zealand is Squalus maculatus, of the family Squalide; the spotted dogfish of New South Wales, Scylliorhinus anale; the dusky dogfish of New South Wales, Chiloscyllium modestum Guuther; and there are others in Tasmania and Australia. Austral English.—California dogfish, a species of dogfish found on the coast of California and Alaska, Squalus sucklii.—Dogfish shark, any shark of the family Squalide.—Electric dogfish, any fish of the genus Astroscopus, inhabiting both shores of tropical America. These fishes have the power of giving an electric shock from an electric organ situated on top of the head. dog-flea (dog'fle), n. See Pulex.

dog-flea (dog'fle), n. See Pulex. dogger³ (dog'er), n. $[dog + -cr^1]$ In lumbering, one who attaches the dogs or hooks to a log before it is steam-skidded.

dog-grease (dog'gres), n. The fat of the dog, once considerably used as a household remedy, but now replaced by petrolatum and related products: also used in glove-manufacturing throw in a dice-game, such as hazard or craps. to some exteut.

dog-hobble (dog'hob"l), n. [dog + hobble, n., 3.] One of the calfkills, Leucothoë Catesbæi: so called because its dense growth arrests dogs

in the hunt. Also called dog-laurch.

dog-hook, n. 3. In lumbering, a hook on the end of a haul-up chain of a size to permit it to be hooked into a link of the

chain when the latter is looped

around an object.

dog-iron (dog'i"ern), n. A short bar of iron or steel, bent near its ends at right angles into the shape of a square Z or a capital E, and pointed at the ends so that it may be driven into timber or logs: used as a cramp.

dog-laurel (dog'lâ/rel), n. Same as *dog-hobble.

dog-leg, (dog'leg) n. A name given Dog hook, 3. to a number of things which have a bent form resembling that of a dog's hind a cent form resembling that of a dog's find leg. See dog-legyed.—Dog-leg fence, a fence composed of rough timber piled up and stayed by crossed stakes called dog-leys. [Australia.]

dog-lily (dog'lil"), n. The common pond-lily or spatter-dock, Nymphæa advena.

dog-line (dog'lin), n. The trace by which the harness of a sledge-dog is connected with the sledge.

dogmaticism (dog-mat'i-sizm), n. [dogmatic + -ism.] The quality of being dogmatic. dog-mint (dog'mint), n. The basil-weed or

horse-thyme, Clinopodium vulgare.

dog-pole (dog'pol), n. One of the poles of a dog-travail. See travail².

dog-travail. See travail². dogs-and-cats (dogz'and-katz'), n. The fieldclover, Trifolium arvënse.

dog's-bane, n.—Bitter dog's-bane. Same as dog's-bane, 1. Also called bitter-root.—Clasping-leaved dog's-bane, Apocynum hypericifolium, the upper leaves of which are clasping. Its range is well northward from Ontario to British Columbia, but it is found in Ohio, Illinois, and New Mexico.—Climbing dog's-bane. Same as Virginia silk (which see, under silk).—Dog's-bane family, the plant family Apocynaceze.—Spreading dog's-bane. Same as dog's-bane, 1.

dog's-dinner (dogz'din"er), n. Same as pov-

dog's-fennel, n. 2. Eupatorium capillifolium, an anomalous species having the leaves pinnatifid with filiform segments: found in fields from Virginia to Florida and in the West Indies. - False dog's-fennel, the fetid marigold (which see, under marigold). - Yellow dog's-fennel, Helenium tenuifolium of the southern United States. See Helenium and sneezeweed.

dog's-finger (dogz'fing ger), n. The foxglove,

Digitalis purpurea.

dogsfoot-weed (dogz'fut-wēd), n. A burweed,
Urena sinuata, widely distributed in the tropics, having a tough fibrous bark. The leaves are more or less like a dog's foot in shape. Urena.

dog's-head (dogz'hed), n. An American pierid butterfly, Zerene exsonia, occurring abundantly in the southern United States. The wings are lemon-yellow bordered with black. The outlines of the lemon-yellow bordered with black. The outlines of yellow of the fore wings suggests the head of a dog. larval food-plant is clover.

dog-sledge (dog'slej), n. A sledge designed to be drawn by dogs. Such sledges are used by the Eskimos and in northern Asia.

dog's-mouth (dogz'mouth), n. The great snapdragon, Antirrhinum majus.

dog-snapper (dog'snap "er), janus jocu, known from the Florida Keys to Brazil. See snapper. dog's-rib (dogz'rib), n. The rib-grass or Eng-

lish plantain, Plantago lanceolata. dog's-thistle (dogz'this"l), n.

The Canada thistle. See thistle. dog's-tongue, n. 2. Same as decr's-tongue.

ee Trilisa.

dog-stopper (dog'stop"er), n. Naut., a stopper or heavy rope put on to relieve the regular stopper when at anchor in a heavy sea, or to bitt the cable or fleet the messenger.

dog-strop (dog' strop), n. A strop of rope passed around a yard for the purpose of hooking a block into it for lifting a weight.

dog-tie (dog'ti), n. A metal cramp or short

anchor, used in stonework.
dog-toes (dog'toz), n. The plantain-leaved or
mouse-ear everlasting, Antennaria plantagini-

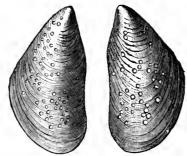
mouse-ear everiasting, Antennaria plantaginifolia. Also called pussy-tocs.

dog-tooth (dog'töth), v. t. To ornament (an
arch or other part of a building) by applying
dog-tooth molding. See dog-tooth, a. and n.

dog-warp (dog'warp), n. In lumbering, a rope
with a strong hook at the end, which is used
in breaking dangerous jams on falls and
prevides and in waving least from other discoult delegation.

undermaple1).—Swamp-dogwood. (a) The silky cornel,
Cornus Anonum. (b) The poison sumac, Rhus Verniz,
(c) The hop-tree, Ptelea trifoliata.—Virginia dogwood,
the flowering dogwood, Cornus florida—western dogwood. Sam as California *dogwood.—Wnite dogwood.
(d) The guelder-rose, Viburum Opulus. (b) Same as
Jamaica *dogwood.

dog-wrench (dog'rench), n. A spanner having
a handle so that it can be turned like a crank. rapids, and in moving logs from other difficult positions.



Two valves of Mytilus edulis I..., representing diagrammatically approximate position of the holes bored by the dog-winkle (Furphra lapillus) in about too specimens of Mytilus, gathered at Newquay, Cornwall. (From "Cambridge Natural History.")

 $\operatorname{dog-wedge}(\operatorname{dog'wej}), n.$ In lumbering, an iron wedge with a ring in the butt. It is driven into

the end of a log, and a chain is hitched in the ring for skidding the log by horse-power. It is also used in gathering up logs on a drive. A rope is rnu through the rings of several logs, and they are drazged through marshes or partly submerged meadows to the channel.

dog-winkle (dog'wing'kl), n. A marine gastropod, Purpura lapillus, noted for its destruction of massels by boring through the shell and deverging the shell and deverging the same street of the s

shell and devouring the mollusk, and for yielding the dye known as Tyrian purple.

shell and devoliting the molitisk, and for yielding the dye known as Tyrian purple.

dogwood, n., 3.— Also, in Australia, the singar-tree, Myoporum platycarpum, a tall shrub or small tree yielding a beantifully mottled and grained wood, suitable for veneering and cabinet-work, and possessing a pleasant veneering and cabinet-work. It also yields a very sweet exudation or manna, of a whitish or pinkish color, eagerly sought after and eaten by the aborigines, and a a reain used by them as a substitute for pitch and wax.—Alder-dogwood, the alder-buckthorn, Rhamnus Frangula.—Alternate-leaved dogwood. Same as blue *dogwood.—American dogwood, dogwood, Cornus florida.—Bastard dogwood. (a) Atelia Cubensis, a small leguninous tree of Cuba. (b) Pomaderris apetala, a small rhamnaceous tree of Tasmania, yielding a beautiful satiny wood suitable for carving and turning. See Pomaderris.—Black dogwood. See dogwood, 3.—Blue dogwood, Cornus alternities 30 feet high and 8 inches in diameter, with cymes of cream-colored flowers and dark blue-black subglobose of cream-colored flowers and dark blue-black subglobose fruit-found from Nova Scotia to Georgia and Alabama, and westward in the northern range to Minnesota. The wood is similar to that of the flowering dogwood.—California of Californian dogwood, Cornus Nutallii, a tree of the l'acific slope, 40-60 (or exceptionally 100) feet high and



California or Californian Dogwood (Cornus Nuttallii), rom Sargent's "Manual of the Trees of North America.")

Cantorma or Cantorman Dogwood (Cornus Mutallin).

(From Sargent's "Manual of the Trees of North America.")

1 to 2 feet in diameter. It is of the type of the flowering dogwood and is often so called. The involucral bracts are sometimes 3 inches long, narrowed at the base, and white or tinged with pink. The wood is very hard, strong, and flue-grained. It ranges from California to Vancouver Island, and east to the Sierra Nevada.—

Dwarf dogwood, the bunch-berry or dwarf cornel. See bunch-berry, 1, cornel, and Cornus.— False dogwood.

Same as striped maple (which see, under maplet).—Florida dogwood, the flowering dogwood, Cornus and California *dogwood.—Green-oaler dogwood. Same as round-leaved *dogwood.—Jamalca dogwood, Ichthymethia Piscipula. See Piscidia and nsh-potson.—Male dogwood, the cornelian cherry. Cornus mas. See cornel and under cherry.—Pacific dogwood.

Same as California *dogwood.—Polson-dogwood, the buttou-bush, Cephalanthus occidentalis, the leaves of which resemble those of the dogwood, and which grows around ponds and swamps.—Purple dogwood. Same as blue *dogwood.—Red-osier hough-pubescent.—Round-leaved dogwood, Cornus circinata, the leaves of which are origh-pubescent.—Round-leaved dogwood, Cornus circinata, the leaves of which are orbicular. Its range is well north from Nova Sectia to Manitoba, not extending farther south than Virginia and Missouri.—Striped dogwood. Same as striped maple (which see, under maplet).—Swamp-dogwood. On the silve ornel, Cornus Amonum. (b) The poison sumac, Rhus Verniz, dogwood. (c) The guelder-rose, Viburnum Opulus. (b) Same as Jamaica *dogwood.

dog-wrench (dog'rench), n. A spanner having a handle so that it can be turned like a crank.

dohemic (dō-hem'ik), a. [do(minantly) + hemic (< he(matite) + m(agnetite) + -ic).] In petrog., dominantly hemic. Used in the quantitative classification (see *rock1) to describe divisions of igneous rocks characterized by having hemic minerals (normative magnetite, hematite) dominant over tilic minerals (normative titanite, ilmenite, perofskite), within the limits $\frac{\Pi}{T} \langle \frac{7}{1} \rangle_3^5$.

dolang (dō'läng), n. [Tagalog dolang, a table, = Bisaya dolang, a tray, pan, trough.] In the Philippine Islands, a low table, used to eat

from. dolcan, n. 2. In organ-building, a very soft stop of the flute class, having pipes wider at the top than at the bottom. Also dulcan.

dolcian (dol'si-an), n. [See dolciano.] organ-building, a reed-stop. Also dulcian. Dolcinist (dol-sē'nist), n. In eccles. hist., an adherent of the party of Dolcino, a leader of the sect called the Apostolic Brethren.

dolcissimo (dōl-chēs'si-mō), n. [It. superl. of dolce, \(\) L. dulcis, sweet.] In organ-building, a very soft stop of the flute or string class.

dole⁶ (dōl), r. t. [F. doler, pare, OF. doler, hew, plane, ⟨ L. dolare, hew, plane.] To pare and thin (leather or skins). X. E. D.

dolenic (dō-len'ik), a. [do(minantly) + lenic (⟨ le(ucite) + n(ephelite) + -ic).] In petrog., dominantly lenic. Used in the quantitative classification (see ★rockt), to describe divisions of igneous rocke having the lenads (normative leucite, nephelite, and the sodalites) dominant over normative feldspar, within the limits $\frac{L}{F} \langle \frac{7}{1} \rangle \frac{5}{3}$.

dolerite, n .- Concretionary dolerite. Same as pilne *basalt.

dolfin, n. A simplified spelling of dolphin dolichellipsoid (dol*ik-e-lip'soid), n. [Gr. δολιχός, long, + Ε. ellipsoid.] In anthrop., an elongated cranium of ellipsoid form. G. Sergi trans.), Var. of the Human Species, p. 49. dolichocephal (dol"i-kō-sef'al), n. A dolicho-

cephalous person. dolichocercic (dol"i-kō-ser'sik), a. χός, long, + κερκίς, radius of the arm.] Having the forearm disproportionately long in relation to the arm. Also written dollehokerkic.

dolichocerous (dol-i-kos'e-rus), a. [Gr. δολι-χός, long, + κέρας, horn.] 1. Having long 'horns' or antennæ.—2. Of or belonging to the Dolichocera, a subtribe of Muscides in Latreille's classification. Syd. Soc. Lex.

dolichocnemic (dol'i-kok-nē'mik), a. [Gr. δολιχός, long. + κνήμη, the leg, tibia.] Having long legs. Philos. Trans. Roy. Soc. (London), 1897, ser. B, p. 173.

dolichofacial (dol'i-kō-fā'shial), a. [Gr. δολι-χός, long, + l. facies, face, + -al¹.] Having a long face: same as leptoprosopic. Jour. An-throp. Inst., XVIII. 23.

dolichohieric (dol"i-kō-hī-er'ik), α. [Gr. δολι-χός, long, + μρόν, sacrum.] Characterized by a disproportionately long sacrum.

a dolichokerkic, a. Same as *dolichocercic.
dolicholekanic (dol"i-kō-le-kan'ik), a. [Gr.
δολιχός, long, + λεκάνη, dish (pelvis), + -ic.]
Same as *dolichopelvic. Turner.

dolichopellic (dol''i-kō-pel'ik), a. [Gr. δολεχός, long, + πέκλα, a basin (taken, like L. pelvis, a basin, in a modern sense 'pelvis').] Same as

*dolichopelvic.

dolichopelvic (dol"i-kō-pel'vik), a. [Gr. δολιχός, long, + L. pelvis, basin (pelvis), + -ie.]

Characterized by a pelvis which has a disproportionately long anteroposterior diameter.

dolichopodous (dol-i-kop'ō-dus), α. [Gr. δολι-χόπους, ζ δολιχός, long, + ποίς (ποδ-), foot.] Having disproportionately long feet.

dolichoprosopous (dol″i-kō-prō-sō'pus), a. [Gr. δολιχός, long + πρόσωπον, face.] Same as *dolichofacial.

Dolichosauria, n. pl. 2. A group of Pythonomorpha, or mosasauroid reptiles, containing those with the rami of the jaw united by sutural symphysis. Variously considered as a superfamily, suborder, or order. Also Dolichosauri.

dolichosaurian (dol'i-kō-sâ'ri-an), a. and n. I. a. Related to or having the characters of the Dolichosauria.

II. n. One of the Dolichosauria.

Dollchosoma (dol "i-kō-sō' mā). n. [NL., ζ Gr. δολιχός, long, + σομα, body.] A genus of stegocephalous Amphibia from the Carboniferous and Permian formations, having a relatively small triangular skull with tapering snont and over 150 vertebræ.

dolichotmema (dol'i-kot-mē'mä), n.; pl. doli-ehotmemata (-ma-tä). [NL., \langle Gr. δολιχός, long, + $\tau \mu \bar{\eta} \mu a$, section.] In bryol., a filiform cell which ruptures and sets free the gemma of a moss. Correns.

dolicho-uranic (dol"i-kō-ū-ran'ik), a. Same as *dolichuranic. F. Russell, in Amer. Anthropologist, Jan.-March, 1901, p. 42.

dolichuranic (dol"i-kū-ran'ik), a. [Gr. δολιχός, long, + οὐρανός, palate.] Having a long palate; that is, in craniom., having a palatomaxillary index less than 110. Turner.

dolina (dō-lē'nā), n. [Rnss. dolina, dim. of dolu, a dale, valley.] A vertical cavity, usually leading into a cave, dissolved out of some

soluble rock, such as limestone, by descending waters. *Geikie*, Text-book of Geol., p. 477. doll2, n. 2. A simple contrivance on a Jacquard loom which indicates to the weaver that something is wrong with the action of the pattern-card cylinder. Also called detector and blockhead-board.

dollar, n.—Bell dollar. See ★bell1.—British dollar, a silver dollar struck at the hranch of the British Mint





Reverse. British Dollar.
Two thirds size of original.

established at Hongkong in 1866. It was current for a few years at the same value as the Mexican dollar which it was intended to supersede,—Cannon dollar, a Mexi-can or other pillar dollar.—Carolus dollar, the old pillar dollar of Spain. This dollar remains the standard





Reverse Carolus Dollar. Two thirds size of original

coin of the Malay states.—Conant dollar, the new silver dollar struck for the Philippine Islands in 1904; so called from Charles A. Conant, financial adviser of the Philippine Commission.—Dog dollar, an English name for the lion dollar of Holland (see dollar), the chief metallic currency of Maryland in 1701.—Dollar of Scotland, a silver coin of Charles II., struck in 1676.—Glohe dollar, the Spanish-American silver piece of eight, with the device of two globes resting on the waves



Globe Dollar. Two thirds size of original.

between the pillars; it first appeared in 1728.—Holey dollar, a Spanish silver dollar from which a small circular piece, called a dump, had been struck. It was circulated by order of the government of New South Wales in 1813, the object being to keep the silver coins in the colony. It was also current in Tasmania. [Australia.]—Independent dollar, a silver dollar or peso of Chile, coined in 1817.—Maximilian dollar, the Mexican dollar or peso





Maximilian Dollar.
Two thirds size of original.

of the emperor Maximilian (1864-67).— Mexican dollar, the silver dollar or peso coined in Mexico, extensively



Mexican Dollar. Two thirds size of original.

used as a circulating medium in the Far East, and having a present weight of about 417.5 grains, or 377.25 grains of fine silver.—Morelos dollar, a silver dollar or peso coined in Mexico in 1812-13 by the republican general Morelos.—Pillar dollar. See pillar.—Republican

dollar, the dollar struck in Mexico without the king's head, after 1810.—Rigsbank dollar, a silver coin issued by the National Bank of Denmark in 1813, with a nominal value of about 48 cents; also, a silver coin issued by the same bank in 1841, weighing 222.936 grains, 875 fine.—Ring dollar, a silver dollar from which a planchet was cut in order to keep the piece in local circulation, as in St. Vincent and the Leeward Islands. See holey ★dol. dar.—Sand dollar, a Mexican dollar modded in sand from a Spanish dollar, a Mexican dollar the Mexican silver dollar with the device of a pair of scales, first struck in 1868-69.—Sicilian dollar, a Scillinn silver coin, the oncia d'argento, which came into Malta subsequent to the time of the British protectorate in 1797, and had a real value of about 4 shillings sterling.—Sun dollar, the Mexican silver dollar or peso coined at Guanajnato, which is preferred by the Chinese of the northern ports of China. Also known as the Shanghai dollar.
dollar-fish, n. 3. A flat, disk-shaped echino-

dollar-fish, n. 3. A flat, disk-shaped echinoderm, Echinarachnius parma, found along the Atlantic coast. Also known as cake-urchin and sand-dollar.—4. The John-dory, Zeus australis: so called from the mark on its side. The fishermen of Roman Catholic countries hold this fish in special respect, as they recognize in a black round spot on its side the mark left by the thumb of St. Peter, when he took the piece of money from its mouth. Günther, Study of Fishes, p. 451.

dollar-leaf (dol'ār-lef), n. The round-leaved

wintergreen, Pyrola rotundifolia:

from the shape and size of the leaf.

dollfish (dol'fish), n. A species of butterflyfishes, Chætodon humeralis. [Panama region.]

dolly², n.—Dolly catch. See *catch1.

dolly3, n. 5. A machine for washing pieces of cloth. The pieces are sewn together into an endless hand, which is then passed through a detergent liquor and afterward wrung between two heavy rollers.

dolly-car (dol'i-kär), n. A small car attached to a cable, which is used for drawing cars up an incline. The dolly-car is placed behind the cars to be drawn up, and, being attached to the cable, pushes the cars up the incline.

dolly-pedal (dol'i-ped"al), n. A foot-treadle to hold down the upper or forming dic of the forming-tool used in welding up links of handmade wrought-iron chain.

dolly-tub (dol'i-tub), n. 2. A tub in which a dolly is used. See dolly³, 4.

Dolly Varden. 3. A large hat with a brim

overloaded with flowers, worn at one time by women.

dolmen-tumulus (dol'men-tū"mū-lus), n. dolmen, or cell composed of large stones, covered by a mound of earth. Probably many dolmens



Dolmen-tumulus of Kercado, Morbihan, France

were originally so covered, but gradually were denuded by tillage of the surface soil and by erosion. **dolomedine** (dol-ō-mĕ'din), a. Of or belong-

ing to the araneid genus Dolomedes.

dolomedine (dol-ō-mē'din), a. Of or belonging to the araneid genus Dolomedes.

dolomite, n.—Bertie dolomite [Bertie township In Ontario], a stage of the New York series of formations represented by magnesian limestones, constituting a final phase in the Silurian of the Appalachian region. The formation is characterized by its remarkable profusion of merostome crustaceans of the genera Eurypterus, Pterygotus, Eusarcus, etc., and has commonly been known as the Eurypterus beds, corresponding in position to similar fossiliferous beds of Great Britain and the Baltic provinces. — Gashed dolomite, one in which there are narrow cavities resembling gashes. Amer. Jour. Sci., April, 1906, p. 291.—Guelph dolomite, in geol., a division of the Upper Silurian rocks highly developed in the Province of Ontario and notable for its profusion of fossils. The fauna extends eastward into New York where it is found in dolomites intercalated among the layers of the Lockport limestone. It is also represented in the Silurian dolomites of Wisconsin, Ohio, Indiana, and Iowa.—Knox dolomite, a mass of dolomite in Tennessee, the lower 2,000 feet of which are referred to the Upper Cambrian, while the upper part contains typical Beekmantown fossils.—Little Falls dolomite. See Beekmantown **Alimestone.*—Mendola dolomite, a division of the Triassic rocks of the Carboniferous limestone in Belgium, lying below the Visé limestone and above the Dinant limestone.—Plate dolomite, any dolomite rock which breaks into thin plates; specifically, the middle member of the upper Zechatein Permian formation of Hesse, Germany, consisting of massive or honeycombed plate dolomites, included between the lower and upper gypsum-bearing clay members.—Portlandian dolomite, a division of the Triassic rocks in the southern Alps.

dolomitize (idol'ō-mī-tīz), v. t.; pret. and pp. dolomitize (idol'ō-mī-tīz), v. t.; pret. and pp. dolomitized, ppr. dolomitizing. [dolomite.]

dolomitize (dol'ō-mī-tīz), v. t.; pret. and pp. dolomitized, ppr. dolomitizing. [dolomite +

-ize.] To convert (limestone) into dolomite. Brit. Ass'n Advancement of Sci., 1900, p. 400.

Doloneia (dō-lō-nē'yā), n. [Gr. Δολώνεια, < Δόλων, Dolon, ζόόλος, deceit: see dole³.] The story of the spy Dolon, which is the main subject of the tenth book of Homer's Hiad. It is supposed by many critics not to be part of the original poem, but a later interpolation.

dolose (do'los), a. [L. dolosus, < dolus, deceit: see dole3. Deceitful; crafty: involving criminal intent.

dolphin, n. 10. In *lumbering*, a cluster of piles to which a boom is secured. [U. S.]-11. Same as dolphin-fly .- Black dolphin. Same as collier *plant-louse.—Green dolphin, Nectarophora pisi.
—Small dolphin, the smaller of the two species of dolphin, Coruphæna equisetis. See Coruphena.

dolus (do'lns), n. [L.: see dole3.] In civil law, malicious or criminal intent; fraud; de-

ceit: same as dole3.

An abbreviation of Dominion. Dom.

D. O. M. An abbreviation (a) of the Latin Datur omnibus mori. 'it is given unto all to die'; (b) of the Latin Deo Optimo Maximo, 'to the best and highest God.

domagnesic (do-mag-nē'sik), a. [do(minantly) + magnesia + -ic.] In petrog., dominantly steam-dome on a beiler.
magnesic; used in the quantitative system domicil, v. t. A simplified spelling of domi(see *rock1), to describe divisions of igneous cile. rocks in which magnesia is dominant over domicile, n. 3. The place at which a bill of rocks in which magnesia is distributed ferrous iron within the limits $\frac{\text{MgO}}{\text{FeO}} < \frac{7}{1} > \frac{5}{3}$.

domain, n. 8. In math.: (a) A set of numbers when the sums, differences, products, and quotients of any numbers in the set (excluding only the quotients of division by 0) always yield as results numbers belonging to the set. (b) The space within which a given function is developable in a series in powers of z-a: termed the domain of the point, z=a.—9. In function-theory, the region of the z-plane within a circle about a as center with any radius less than the distance from a to the nearest critical the distance from a to the nearest critical point: called the domain of its center a. For a power series (that is, a series of ascending positive integral powers, $a_0 + a_1x + a_2x^2 + \dots$) if there is a frontier value R such that when |x| < R there is absolute convergence but when |x| > R there is absolute convergence but when |x| > R there is divergence, the open region (R) [points within a circle whose center is at O and radius R] is called the domain of the series.— Domain of rationality. Same as *domains, S (a).—Galois domain. If f (x)=O is an equation in the domain O and of the nth degree with distinct roots a, a_1 , ..., a_{n-1}), obtained by the adjunction of all its roots to O, is called the Galois domain of the equation f (x)=O. Thus the roots of the cubic $x^3 + 3x^2 - 2x - 6 = 0$ are -3, $\pm \sqrt{2}$; hence its Galois domain is O(O).

domalkalic (O0-mal-kal'ik), O0.

domalkalic (do-mal-kal'ik), a. [do(minantly) the distriction of the district nant over magnesia, ferrous iron, and lime in the femic (normative ferromagnesian) minerals, within the limits $\frac{K_2O' + Na_2O'}{C_2O'} \langle \frac{7}{1} \rangle \frac{5}{3}$ and $\frac{MgO + FeO + CaO'}{K_1O'' + N_2O''} \langle \frac{3}{5} \rangle \frac{1}{7}$

CaO $K_20'' + Na_20''$ respectively. The first are rangs of classes I, II, III; the second rangs of classes IV and V.

domatic (do - mat'ik), α. [Gr. *δωματικός, ζ $\delta \tilde{\omega} \mu a(\tau)$, house: see dome, n.] Of or pertaining to a dome: as, domatic cleavage: the domatic class of crystals: see *clinohedral and *symmetry.

domatium (dō-mā'ti-um), n.; pl. domatia (-ä). [NL., ζ Gr. δωμάτιον, dim. of δωμα, a house.] A shelter formed on certain tropical plants for the protection of beneficial insects, especially mites and ants. See *acarodomatium.

The acarodomatia are found at the angles of the veins on the back of the leaves and are hollowed out in the tissue of the nerves. The ant-shelters occur in the internodes which are hollow at a part only of their length; the internodes are fusiform, and the donatia in the part at the greatest diameter where there are one or two openings which at first are circular, but in the older and woody shoots become elongated and may reach a and woody shoots Seem.
length of 3 cm.

Jour. Roy. Micros. Soc., Aug., 1904, p. 427.

domatophobia (do ma-to-fo bi-a), n. [NL., < Gr. $\delta \omega \mu a(\tau)$, house, $+\phi \circ \beta \iota a$, fear.] A morbid repugnance to, or actual fear of, remaining within the four walls of a room.

dome1, n. 6. In geol., an anticlinal fold whose axis equals or approximates a point; an anti-clinal fold with quaquaversal dip. Domes are most commonly produced by laccoliths, but they may be due to intersecting folds.

It will be too great a digression to discuss here whether the Weald *dome* was breached by a branch of the Rhine running from the area of the channel toward the North

Sea, or by the lower Rhine emptying into the Atlantic through the English Channel. Geog. Jour. (R. G. S.), IX, 537.

Dome volcano. See *volcano.— Whispering-dome, a cupola whose surface is such as to produce a very perfect echo, a person at one point hearing what is said even in a low tone at the opposite point. Compare whispering-gallery, under gallery.

dom. econ. An abbreviation of domestic economy

dome-kiln (dom'kil), n. A form of lime-burning or coke-making retort in which the roof is formed by a spherical arch or dome, as distinguished from the simple shatt-kiln and the ring-kiln.

Domestic piracy, science. See *piracy, *sci-

domesticable (dō-mes'ti-ka-bl), a. [NL. *domesticabilis, (ML domesticare, domesticate.] Capable of being domesticated: as, domesticable animals.

domesticator (do-mes'ti-ka-tor), n. One who domesticates plants and animals.

Taking the gifts of nature: Man is then a quarryman or miner, a gleaner, a fisherman, a hunter, and later a domesticator.

Smithsonian Rep., 1895, p. 643.

dome-top ($d\bar{o}m'top$), n. The topsheet of the

domicile, n. 3. The place at which a bill of exchange is payable. domicile, v. t. 2. To make payable, as a bill of exchange, at a specified place. domiciliaris (dom*i-sil-i-ā'ris), n.; pl. domiciliares (-rēz). [NL., < L. domicilium, domicile.] An animal which uses another merely as a domicile and domiciliaris domiciliaris domicile. cile, and does not prey upon it or share its food. The most common examples are sponges which attach themselves to, and bore into, shell-fish. [Rare.]

They are, more definitely, domiciliares, and excavate their burrows . . . solely for the purpose of a residence or domicile. Smithsonian Rep., 1886, i. 320.

dominance, n. 2. In biol., the visible manifestation by a cross-bred organism and by some of its descendants of one or two mutually antagonistic parental characters to the exclusion of the other.

In each of these cases more or less definite dominance of one character has been found.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc., I. 139.

dominant. I. a. 3. Having the crown free to light on all sides because of greater height. See erown *class.-4. Characterized by or ex-See erown *class.—4. Characterized by or exhibiting dominance. See *dominance, 2.—Dominant character, one of the antagonistic or mutually incompatible characters of the parents of a cross-bred organism, that is exhibited or visibly manifested by the cross-bred organism and transmitted to descendants. See *inheritance.—Dominant estate, Same as dominant tenement (which see, under dominant).—Dominant group. See *subdominant *group.—Dominant harmony, idea. See *harmony, *didea.

II n liel when the cross-bred off-

II. n. 2. In biol., when the cross-bred off-spring of parents with antagonistic or mutually exclusive characters visibly exhibits a character of one parent, while it does not visibly exhibit but is able to transmit to descendants the antagonistic character of the other parent, then the character (a) which is manifested, and the cross-bred organism (b) which exhibits it, and (c) those of its descendants which exhibit it, and (d) the parental character, and (e) the parent that exhibits it, are all called dominants. On the other hand, the parental character which is not visibly manifested by the crossbred organism, but is transmitted to and visibly manifested by some of its descendants and their descendants, is called a recessive, as are also the organisms that exhibit it. Sec *inheritance.

 it. Sec *inheritance.
 The greatest of a set of numbers without regard to sign.—4. In petrog., in the quantitative classification (see *rock1), a factor which dominates over another between the ratios † and §.—Extracted dominant, in biol., a dominant of pure blood; one that does not exhibit nor transmit the corresponding recessive character.—Under dominant, in music, the fifth below the key-note, that is, the same as subdominant. See *undertone, 4, and under *scale.—Upper dominant, in music, same as dominant, when it is to be distinguished from the under dominant; also, over dominant.

domine (dō'mi-nā), n. [Sp., a teacher of Latin, = E. domine, dominic.] A name applied to a fish, the black escolar, Epinnula magistralis, in the West Indies.

doming (dom'ing), n. [dome, v., +-ing¹.] Producing an anticlinal fold whose axis is a point and whose sides dip in all directions: the reverse of *basining (which see).

They sometimes disturb the prevailing dip of the sediments and cause local doming, as on the divides to the southeast and southwest of Bald Mountain. Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 38.

Dominique (dem-i-nēk'), n. Name of a West Indian island: applied to an old American breed of fowls having barred plumage resem-

bling that of the Plymouth Rock. **Domino loo.** See *loo². **domiric** (dō-mir'ik), a. [do(minantly) + mir (< m(agnesium) + ir(on)) + -ic.] In petrog., dominantly miric. Used in the quantitative classification (see $\frac{1}{2}$ rock1), to describe divisions of igneous rocks having magnesia and ferrous iron dominant over lime in the femic (normative ferromagnesian) minerals, within the limits $\frac{\text{MgO} + \text{FeO}}{\text{CaO''}} \langle \frac{7}{4} \rangle$. Sections of rang in classes IV and V.

domirlic (dō-mer'lik), a. [do(minantly) + mirl((m(agnesium) + ir(on) + l(ime)) + -ie.]mirit ($\forall m(a|apesbum) + ir(on) + t(ime) + -ie.$) In petrog, dominantly mirlic. Used in the quantitative classification (see $\neq rock 1$), to describe divisions of igneous rocks in which magnesia, ferrous oxid, and lime are dominant over potash and soda in the femile (normative ferromagnesian) minerals, within the limits $\frac{1}{2}(1+2) \cdot \frac{1}{2}(2+2) \cdot \frac{1}{2}(2+2)$ $\frac{\text{MgO} + \text{FeO} + \text{CaO''}}{\text{CaO''}} < \frac{7}{4} > \frac{5}{8}$. Rangs in classes 1V and V.

domitic² (dō-mit'ik), a. $[do(minantly) + mit (\langle m(agnetite) + i(lmenite) + t(itanite)) + -ic.]$ In petrog., dominantly mitic. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which mitte minerals (normative magnetite, hematite, illnemite, titalite, etc.) are dominant over polic minerals (normative pyroxene, olivin, akermanite),

within the limits $\frac{PO}{M} < \frac{3}{8} > \frac{1}{2}$. Order 4 in classes IV and V.

domoid (dom'oid), a. [dome + -oid.] Somewhat dome-shaped.

 $domolic(d\tilde{o}-mol'ik),a. [dom(inantly) + ol(ivin)]$ the limits $\frac{1}{6} < \frac{1}{8} > \frac{1}{4}$. Sections of orders in classes IV and V.

Dom. Proc. An abbreviation of the Latin Domus procerum, 'house of peers.' or 'house of lords,' the upper branch of the British parliament.

 don^3 (don), n. [A dial. variant of dan^2 .] sea-fishing, a buoy used to mark a fishingground.

When productive ground is discovered a "don," or buoy, is placed in the sea, with a red or black flag by day and a white globe light close to the surface at night.

Sci. Amer. Sup., Sept. 26, 1903, p. 23182.

donaciform (dō-nas'i-fòrm), a. [NL., Donax (Donac-) + L. forma, form.] Having the form

of the pelecypod genus, *Donar*. donarium (dō-nā'ri-um), n. [NL., appar. in allusion to L. donarium, a votive gift: see donary.] A supposed new chemical element, announced by Bergmann in 1851, shown afterward to be therium.

doncella2 (don-sel'ä), n. [Porto Rican Sp.: see damscl.] Either of two trees of the genus Byrsonima of the family Malpighiaceæ, B. spicata and B. lucida, especially the former. They yield hard, useful woods. See *surette*. **Donders' law**. See $*law^1$.

Dondia (don'di-ä), n. [NL. (Adanson, 1763), named in honor of Giacomo di Dondi (1298– 1359), a physician and botanist of Venice.] A genus of dicotyledonous plants of the family Chenopodiaceæ. See Suæda.

donga (dong'gä), n. [S. African.] In South Africa, a channel formed by the action of wa-

ter; a ravine; a gully.

or load.

dongola (don'gō-lā), n. [Appar. named from Dongola in Nubia, N. E. Africa.] A general term for leather made from goatskins or sheepskins with either a bright or a dull finish.

Dongola process, race. See *process, *race. dongon (dông-on'), n. [Also dungon; < Bisayan dongon.] In the Philippine Islands, a tall tree, Tarrietia sylvatica, of the family Sterculiaceæ, with keeled fruit. It yields logs 50 feet long and 20 inches square, which are used in the construction of buildings and bridges and as keels for vessels.

doni² (dō'ni), n. In Guam, a name of several

doni- (do hi), n. In Guam, a name of several species of Capsicum, especially of varieties of Capsicum annuum and C. frutescens.
donium (dō'ni-um), n. [NL., appar. \land L. donum, a gift: see donate.] A supposed new chemical element, announced by Richardson in 1836, but afterward shown to be beryllium. donkey, n. 3. In mech., a subsidiary apparatus for carrying a weight or load, or coming into action to steady and support a primary element. - 4. A driving-frame or truck acting as a tractor on rails, to pull or haul a weight

The turntable is 70 ft. long and is operated by a 10-hp. direct-current motor of the street railway type geared to an independent traction wheel, the driving combination being supported in a pivoted frame, or "donkey," which rests with all its weight upon the turntable track, even when the table is tipped by a locomotive.

When the table is tipped by a locomotive.

Elect. World and Engin., Feb. 21, 1903, p. 333.**

**Goor-handle (dōr'han"dl), n. Same as door-class (doppel-flôte (dop"l-flôt'et), n. [G., 'double door-handle (dōr'han"dl), n. Same as door-class, the pipes of which have two mouths, giving a peculiarly sonorous tone.

**placed on the floor or wall behind a car-door doppio (dop'piō), doppia (dop'piā), a. [It., and designed to catch the door when it is masc. and fem., \(L. duplus, dupla, double : see \)

Bull donkey, in lumbering, a large donkey-engine which, by drum and cable, drags logs from the place where they are yarded.—Road donkey, a donkey-engine, mounted on a heavy sled, which drags logs along a skid-road by winding a cable on a drum. It has a second drum for the haul-back.—Spool donkey, a donkey-engine equipped with a spool or capstan, instead of a drum, for winding cable.—Yarding donkey, a donkey-engine, mounted upon a heavy sled, used in yarding logs by drum and cable.

donkey-boiler (dung'ki-boi / lèr), n. small boiler, usually upright, employed when only a small power is required.—2. Naut., a small boiler which furnishes steam when

there are no fires in the main boilers. donkey-drop (dung'ki-drop), n. In cricket, a ball bowled very slowly, which seems easy to

[Slang.]

tainment in which the chief amusement is a game in which the players attempt to pin, blindfolded, a paper tail, in the right place, npon the pieture of a tailless donkey.

donkey's-eye (dung' kiz-ī), n. Same as horse-eye, a sea-bean. Musemma areas

horse-eye, a sea-bean, Muscuna urens.

donnée (don-nā'), n. [F., a thing given, a condition, datum; pp. fem. of donner, give.]

The motif or fundamental idea of a literary or dramatie composition.

Another story, a very good story, . . . arrests attention for a reason irrelevant to its goodness, and that is the resemblance of its "donnée" to Mr. Kipling's "His Private Honor."

X. 1. Times, Sup., July 30, 1904.

Donop's attack. See *atlack.

donzella (don-zel'ä), n. [It.] A damsel; a young lady: as, a 'beautiful donzella.' Carlyle. doodle-bug (dö'dl-bug), n. 1. The larva of any cicindelid beetle. [Southern U. S.]-2. The larva of certain species of the neuropterous genus Myrmeleon, which build pits in the sand for the eapture of ants and other insects. Called also ant-lion.

doog (dog), n. [E. African (Somali).] The native name of a tabanid fly, Pangonia tricolor, common in Somaliland where it swarms on camels and other domestic animals, constantly drawing blood. Proc. Zool. Soc. Lon-

stantly drawing blood. Froc. 2001. Sec. 2001. don, 1900, 1. 9.

doom, n.—To false a doom i, in Scots law: (b) To bring an action to set aside a decree.

doom-ring (döm'ring), n. A ring of stones, within which the primitive Norse courts of justice were held. N. E. D.

door, n.—Charging door, the door through which the charge is intro-luced into a furnace or cupola. In a reverberatory furnace the charging door is at one side; in a blast-furnace or cupola, it is near the top, on a level with the charging platform, and the fuel, as well as the ore or metal to be melted, is introduced through it.—Dutch door, a door divided in two horizontally, so that one half may be open while the other is closed.—The open door, commercial intercourse and opportunities for all nations on the same terms: a very modern phrase applied particularly to foreign trade with China when there was danger that the Chinese government was about to grant to some of the powers exclusive control of certain ports and sections of the empire; hence, the 'open door policy' advocated by Great Britain, the United States, and Japan.—Underwriters' door, a door so made as to conform to certain requirements of the fire-insurance companies: as, a wooden door covered on both sides and all edges with timplate carefully soldered. Underwriters' foor and other similar terms are in use.—Venetian door, a door-space fitted with a door much smaller than itself, the place reserved on either side (and usually above) heing filled with glass.

door-cam (dor'kam), n. A device for retain-

door-cam (dor'kam), n. A device for retaining the window in a carriage-door at any height, or for preventing it from rattling.

door-chain (dor'chan), n. in fastening a door, usually so that it can be

opened only a few inches.

door-check (dor'chek), n. A combined spring and pneumatic device for controlling the closing of a door, especially a car-door. The door when left of a door, especially a car-door. The door when left open is sutomatically closed by the spring, the movement being controlled by a piston which moves in a cylinder filled with compressed sir: the air, first compressed by the movement of the door when opened, slowly escaping through a small opening, allows the piston to move, and, through suitable connections, permits the spring to close the door gently and without jar or noise. The movement of the piston is controlled by valves that may be set at any pressure required.

door-fastener (dor'fas "ner), n. Any appliance for fastening a door; specifically, a fixture attached to a door to prevent it from being opened beyond the length of a short chain. When the end of the chain is placed in a slot in the fixture it cannot be drawn out until the door is closed. Often called door-

door-holder (dōr'hōl'der), n. A spring-eatch placed on the floor or wall behind a car-door doppio (dop'piō), doppia (dop'piā), a. [It., and designed to catch the door when it is masc and fem., \(L. duplus, dupla, double : see and designed to eatch the door when it is opened and hold it open.

door-key (dor'ke), n. A key for locking and

unlocking a door.

door-man (dôr'man), n.; pl. door-men (-men). An officer or attendant stationed at a door to guard it, maintain order, etc.: a doorkeeper.

The money taken door-money (dor'mun'i), n. at the door or entrance to any place of entertainment where an entrance-fee is charged.

Compare yate-money. doornboom (dorn' bōm), n. [D. doornboom, thorntree.'] In South Africa, a thorny mimosa, Acacia horrida, growing as a shrub or small tree, very common along the course of the Karoo rivers, and very often used for hedges. The leaves and pods are eaten by goats and sheep in times

bottom of the door. There are also patented

antifriction rollers.

door-stop, n. 3. A strip of carriage-lace, or metal, used to prevent a carriage-door from opening beyond a fixed point.

door-track (dor'trak), n. A rail secured to a plank or joist to receive the rollers of a sliding door.

door-valve (dor'valv), n. A flat valve hinged at one edge and opening to allow passage of affuid by pressure from below, as a trap-door is lifted. Called also a fup- or clack-valve. Two door-valves, back to back, form a butterfly-

doorwa (dör'wä), n. [Skt. dūrvā, whence Pali dubbā, Hind. dūb, E. doob.] Samo as doob.

dop³ (dop), n. [Cape D. dop, a tin cup in which vineyard workers receive, several times a day, their rations of wine; lit., a shell: see dop².] Cape brandy of a peculiarly fiery type. Also called cape smoke.

The Naval Brigade . . . went for the bottles like a cartload of bricks. Blessed if they weren't Dop! "Never mind," says the Naval Brigade, "if the quality ain't up to Admiralty pattern, we'll have to issue a double ration"—and he did—so help me!

J. Ralph, in War's Brighter Side, p. 170,

dope, n. 3. In the manufacture of dynamite, to be used as an explosive agent, the liquid nitroglycerin, which is the most important ingredient, is absorbed by a solid material in fine powder; such absorbent is called the dope, and it may be inert as regards explosion, or active—in the latter case simply combustible, or itself explosive. 4. Opium, especially the thick treacle-like preparation used in opium-smoking. [Slang.]

-5. Any drug, such as opium, laudanum, morphine, eoeaine, hydrate of chloral, hashish, etc., which has the property of inducing sleep or of stupefying; a narcotic. [Slang.]—6. A person under the influence of, or addicted to

the use of, some dope. [Slang.]
dope (dop), v.; pret. and pp. doped, ppr. doping.

I. trans. To drug; stupefy with drugs, such as 'knock-out drops' (hydrate of chloral), or the

like: as, to dope a race-horse, [Slang.]

II. intrans. To indulge habitually in the use of opium or other drugs either for the pleasurable sensations produced or as anestheties. [Slang.]

dope-book (dop'buk), n. A miscellaneous

collection of racing information. slang. 1

A short chain used dope-fiend (dop'fend), n. A habitual user of drugs, such as opium or cocaine. [Slang.]

dope-sheet (dop/shet), n. A list of race-horses, giving the record of their performances in previous races. [Racing slang.]

previous races. [Racing slang.]
dopey (dô'pi), a. See *dopy,
dopolic (dô-pol'ik), a. [do(minantly) + pol
(\(p(yroxene) + ol(ivine) \)) + -ie.] In petrog.,
dominantly polic. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks
in which polic minerals (normative proxene, olivin, akermanite) are dominant over mitte minerals (magnetite, Ilmenite, titanite) within the limits $\frac{PO}{M} < \frac{7}{1} > \frac{9}{3}$.

dopotassic (do-po-tas'ik), a. [do(minantly) + **10potassic** (10-po-tas 1k), a. [accumulating) potassic.] In petrog., dominantly potassic. Used in the quantitative classification (see $krock^2$), to describe divisions of igneous rocks in which potash is dominant over soda in the salic minerals (normative feldspars and feldspatholds) within the limits $\frac{K_2O}{Na_2O} < \frac{7}{4} > \frac{4}{3}$.

double.] In music, double: as doppio movimento, doppio tempo, double movement, double time (twice as fast); doppio ralore, double value (twice as slow), pedale doppio, with two parts for the pedals: lira doppia, a double or bass lyre; and so for other instruments.

doppione (dop-pio'ne), n. [It.: see doubloon.]

1. A gold coin of Louis XII. of France. during his occupation of the Milanese (1500-12).- 2 A gold coin of 10 scudi, struck by the Duke of Savoy in 1641, during the siege of Coni.

Dopplerization (dop/ler-i-zā'shon), n. The application of Doppler's principle that from a source of waves, approaching or approached, the waves reach the receiver in greater number than when the source and receiver are relatively at rest, and vice versa. See Doppler's *principle.

If the point-source is in motion, the pan-potential requires Dopplerisation as well as the ordinary potential.

Nature, Jan. 1, 1903, p. 203.

Doppler's effect, principle. See *effect, *prin-

dopy (dō'pi), a. [Also dopey; $\langle dope + y^1 \rangle$.] Stupid, as if under the influence of some drug; dull; heavy. Also dopey. [Slang.]

The patients are said to be "dopey"; they are markedly prostrated, indifferent to their surroundings, and want only to be left undisturbed.

Buck, Med. Handbook, VI. 686.

dopyric (dō-pī'rik), a. $[do(minantly) + pyr (\langle pyr(oxene) \rangle + -ie.]$ In petrog., dominantly pyrie. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which normative pyroxene is dominant over normative olivin and akermanite, within the limits $\frac{P}{O} < \frac{7}{1} > \frac{9}{3}$.

doquaric (dō-quâ'rik), a. $[do(minantly) + quaric (\langle quar(tz) + -ic).]$ In petrog., dominantly quarie. Used in the quantitative classification (see $\star rock1$), to describe divisions of igneous rocks in which normative quartz is dominant over normative feldspar, within the limits $\frac{Q}{F} < \frac{\pi}{I} > \frac{9}{5}$. Orders of classes I, II, III.

dor³ (dôr), n. [Gr. δόρυ, a shaft, a spear: see tree.] In the nomenclature of the spicular elements of sponges, a monaxial lance-shaped or curved rod, one end of which is sharply pointed while the other has a two- or threeedged blade.

Dor. An abbreviation of Doric.

dorab (do'rab), n. A fish, Chirocentrus dorab, of the family Chirocentridæ, which ranges from the Red Sea to the Malay Archipelago.

doradilla (dō-rā-dēl' yā), n. [Sp., dim. of dorado, gilded.] 1. In Spain, the rustyback, or stone-fern, Ceterach Ceterach, formerly considered a valuable remedy for diseases of the spleen. See *Ceterach, 2.—2. In Mexico, a name of several species of Setaginella, also called flor de piedra, or stone-flower, which grow on the bare, stony sides of canons. The fronds of these plants roll up when dry so as to form a ball, and remain dormant until rain falls. The dried plants are offered for sale in the markets of San Luis Potosi and other Mexican cities, and are used as remedies for diseases of the liver and for other maladies. See resurrection-plant (b).

**Doratonotus (dor a-tō-nō'tus), n. [NL., < (†)
**doratus (< Sp. dorado), gilded, + Gr. vōroc,
back.] A genus of small bright green labroid
fishes found in the West Indies. D. megalepis is the common species.

[Racing Dorcas society (dôr'kas so-sī'e-ti). A society of women of a church whose work it is to provide elothing for the poor: so called in allusion to Dorcas, a disciple at Joppa who was "full of good works and almsdeeds which she did" (Acts ix. 36), including the making of "coats and garments" (ix. 39).

dorcastry (dôr'kas-tri), n.; pl. dorcastries (-triz). [Irreg. (Doreas + -t-ry.] Same as *Doreas society.

Dordonian (dôr-dô'ni-an), n. [F. Dordogne, a river (a couflux of the rivers Dor and Dogne) and a department of southwest France.] geol., a division or substage of the uppermost Cretaceous in France.

Doridiidæ (dō-ri-dī'i-dē), n. pl. [NL., < Doridium + -idæ.] A family of tectibranchiato gastropods, having the shell completely internal, the mantle with 2 posterior lobes and a caudal filament, and the epipodia reflected. It contains the single genus Doridium.

doridioid (do-rid'i-oid), a. Of or pertaining to the Doridioidea.

Doridioidea (dő-rid-i-oid'ē-ä), n. pl. Doridium + -oidea.] A group of nudibranchi-Doridium + -oidea.] A group of nudibranchiate gastropods. The liver is unbranched; the ams median and posterior, generally dorsal, and surrounded by branched appendages which are cerata or gills; and the mantle contains spicules. The group includes the families Polyceridæ, Dirididæ, Phyllididæ, Doridium (dō-rid'i-um), n. [NL.; formation uncertain: appar. dim. of Gr. δόρν, tree, shaft, spear.] The typical genus of the family Dorididæ. Meekel, 1809.

Dorididæ. Meekel, 1809.

Dorm pennies. See *penny.

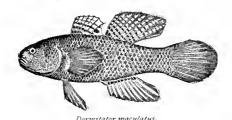
dormant, a. 5. In bot., not active or growing.

Dormant buds, dormant eyes, potential buds; buds which do not shoot unless specially stimulated.—Dormant mine, scale. See *mine2, *scale2.—Dormant state, the inactive state of a plant or organ, as in winter or a protracted dry senson.

dormeuse (dôr-mèz'), n. [F., fem. of dormeur, sleeper, \(\) dormir, sleep.] A coach designed to convey invalids. It had a curtained coach too and

to convey invalids. It had a curtained coach-top and was fitted with a cot so arranged that the passenger could either sit up or recline.

Dormitator (dôr-mi-tā'tor), n. [NL., < L. dormitator, sleeper.] A genus of gobies found



(From Bulletin 47, U. S. Nat. Museum.)

in the streams of the West Indies and Mexico. eharacterized by the robust body and small scales. D. maculatus, the common species, has been found as far north as the Carolinas.

dormy (dôr'mi), a. [dorm + -y1.] In galf. noting the condition of a player when he is as many holes ahead of his opponent as there remain

holes to be played. dorsal, a. 3. In phonol., pronounced with the dorsal, a. 3. In propost, pronounced with the back or middle upper surface of the tongue raised to the palate.—4. In bot., relating to the back of an organ. See back¹, 3(h).—Dorsal canal, cup, eye, etc. See ★canal, etc. dorsalis (dôr-sā'lis), n.; pl. dorsales (-lēz). [NL.: see dorsal.] A blood-vessel or nerve the dorsal of any part as

[NL.: see dorsal.] A blood-vessel or nerve which supplies the dorsum of any part: as, darsalis lingua, an artery in the dorsum of the tongue.

d'Orsay (dor-sa'), n. [Named after Count d'Orsay (?).] A coupé or brougham, suspended



upon four elliptic and four C-springs, and formerly without a driver's seat, the horses

being guided by postilions. D'Orsay bit. See $*bit^1$. dorse¹, n. 3. The back of a book or of a folded

document.

dorsibranch (dôr'si-brangk), n. having gills upon the back, as certain annelids. dorsicolous (dôr-sik 'ō-lus), a. [L. dorsum, back, + colere, inhabit.] Inhabiting the back of another organism. [Rare.]

dorsiferous, a. 2. In bot., borne on the back, as the sori of most ferns.

dorsiflex (dôr'si-fleks), v. i. [L. dorsum, back, **Hexus, pp. of fleetere, bend.] To bend to-ward the dorsum: noting movement of the foot. Buck, Med. Handbook, IV. 223.

dorsiflexion (dôr-si-flek'shon), n. [L. dorsum, back, + flexio(n-), bending.] Movement

toward the dorsum, as in approximation of the toes to the anterior surface of the leg. Philos. Trans. Roy. Soc. (London), ser. B., 1893, p. 48.

dorso-anterior (dôr *sō-an-tē ri-or), a. Having the back directed anteriorly: noting the posi-

tion of a child during birth, in relation to the mother.

dorsocaudad (dôr-sō-kâ'dad). adr. dorsal surface and the anal half of the body.

There is a pair of well-developed, brownish-colored setze arising from caudal margin, and extending dorsocaudad, as in pupa-case. U.S. Dept. Agr., Div. Entom., Techn. Ser. 8, 1900, p. 39

dorsocentral (dôr-sọ-sen'tral), a. and n. dorsum, back, + centrum, center, + -al¹.] I.
a. Being toward the back and central.
II. n. The undermost plate in the ealyx of

Crinoidea, usually obscured in the adult condition of stalked forms, but exposed in the stalkless genus *Cintacrinus*, and seen also in the larval stages of the recent Antedon: by some authors regarded as the topmost segment of the stalk. Also termed centrodorsal.

dorsocephalic (dôr sō-se-fal'ik), a. Relating to the back and head collectively; situated on the back, or dorsal region, near the head. dorsonasal (dôr-sō-nā'zal), a. Relating to the bridge of the nose.

dorsonuchal (dôr-sộ-nữ/kal), a. Relating to the back and the neck.

dorso-occipital (dôr so-ok-sip'i-tal), a. Relating to the back of the head and the body. **dorsoposteriad** (dôr "sō-pos-tē'ri-ad), adv. On the back and behind.

dorsoposterior (dôr"sō-pos-tē'ri-or), a. [L. dorsum, back, + posterior, posterior.] Inobstet., descriptive of the position of the child during birth, when its back is directed toward the back of the mother.

dorsoradial (dôr-sō-rā'di-al). a. [L. dorsum, back, + E. radial.] Relating to the radial (outer) side of the back of the forearm, wrist,

hand, or fingers.

hand, or fingers. dorsoscapular (dôr-sō-skap'ū-lär), a. [L. dor-sapula.] Relating to sum, back, + scapula, scapula.] R the posterior surface of the scapula.

dorso-ulnar (dôr-sō-ul'när), a. Relating to the ulnar (inner) side of the back of the forearm, wrist, hand, or fingers.

dorsoventrad (dôr-sō-ven'trad), adv. From the back toward the ventral side.

dorsoventrality (dôr "sō-ven-tral'i-ti), n. The

condition or quality of being dorsoventral. dorsum, n., 2. (b) In the ammonite cephalopods, the inner or umbilical margin of the conch.—4. In bot.: (a) Same as back¹, 3 (h).

(b) The convex side of the girdle of a diatom. lory¹, n.—Bastard dory. (a) A fish, Antigonia capros, widely distributed in both the Atlantic and the Pacific oceans. (b) An Australian fish, Zeus australis, of the family Zeidæ, the Australasian representative of Zeus faber, the European 'John-dory.' [New Zealand.] (c) A broadbodied, rough-scaled, bass-like fish, Histiopterus recurriscotris

Dorycrinus (do-ri-krī'nus), n. [Gr. δόρυ, a tree, + κρίνον, a lily (see *crinoid*).] A genus of camerate *Crinoidea* from the Devonian and Carboniferous rocks having a corrugated calyx, thick calyx plates, and strongly elevated teg-

poryichthys (dō-ri-ik'this), n. [NL., $\langle \delta \delta \rho v, \text{spear}, + i \chi \theta i \varepsilon, \text{fish.}$] A genus of pipe-fishes, of the family Syngnathid x, found mainly in the Pacific. They sometimes ascend rivers. lorylid (dor'i-lid) and another than the same of the same Doryichthys (do-ri-ik'this), n.

dorylid (dor'i-lid), n. and a. I. n. A member of the hymenopterous family Dorylidæ.

II. a. Of or belonging to the Dorylidæ.
dorylophilous (dō-ri-lof'i-lus), a. [NL. Dorylidæ: or, φιλείν, love.] Fond of the Dorylidæ: said of the guest-insects which inhabit the said of the guest-insects which inhabit the nests of auts of that family.

There are guests of the "indifferent type," e.g. Myrmedonia, which retain more or less of the form of their non-dorylophilous relatives, and are connected by incipient and half-way transformations with one or other of the three preceding types.

**Jour. Roy. Micros. Soc., April, 1903, p. 173.

doryphory (dō-rif'o-ri), n. [Gr. δορυφορία, a aguard, < δορυφόρος, one of a guard, lit. a spearman, spear-bearer, < δόρυ, spear, + φέρευ, bear.] In astrol., a guard of planets attending the sun and moon.

Dorypterus (dō-rip'te-rus), n. [NL., ζ Gr. δόρν, a shaft, a tree, $+\pi\tau\epsilon\rho\sigma\nu$, wing (fin).] A sealeless ganoid fish from the Permian rocks of

very high dorsal fin.

dos (dōs), n. [L. dōs (dōt-), dower: see dower, dotal.] In civil law: (a) Property brought to a husband by his wife, upon marriage. See Dothideales (dō-thid-ē-ā'lēz), n. pl. [NL., < dotal transfer of the findinger. [Lumbermen's term.] dotal *property. (b) A common-law dower. See dower², 2.

dosalane (do-sa-lān'), n. [do(minantly) + sal $(\langle s(ilica) + al(umina)) + -anc$, the termination

of the names of classes.] In pctrog., the name of the second class of igneous rocks in the quantitative classification. (See *rock.) Rocks of this class have a preponderance of salic minerals (normative quartz, feldspars, or feldspathoids) over femic (normative ferromagnesian) minerals within the limits sal $\langle \frac{7}{1} \rangle \frac{5}{3}$. They include many granites, diorites, gabbros, syenites, and nephelite-syenites, with their aphanitic equivalents

salic (dō-sal'ik), a. [do(minantly) + sal $\langle s(ilica) + al(umina) \rangle + -ic.]$ In petrog., dosalic (dō-sal'ik), a. dominantly salic. Used in the quantitative classification (see *rock), to describe that division of igneous rocks in which the salic minerals (normative quartz, feldspars, feldspathoids) are dominant over the femic (normative ferromagnesian) minerals within the limits $\frac{sat}{fem}$ This is class 11, dosalane.

dose, n.— Fractional doses, doses of medicine which are below the normal amount but are given at shorter intervals than are customary.

dose, r. t. 4. To divide into proper quantities for a dose; calculate the amount of (a drug) that should be prescribed for a dose.

In other words, we cannot exactly dose the application. Great as is the difficulty in dosing an X-ray exposure, it is vastly greater when we undertake to utilize the radioactive substances that at present are furnished commercially.

Med. Record, March 7, 1903, p. 365.

dosimetric (dō-si-met'rik), a. [dosimetr-y + ie.] Of or pertaining to dosimetry.

dosimetrician (do "si-mē-trish'an), n. [dosimetrie + -ian.] One who practises dosimetry.

For, as we have seen, the vnlgar, called upon to choose between the mattoid and the man of genius, never hesitate to sacrifice the latter. Even at the present day, many practitioners who take the dosimetricians seriously, laugh at homceopathy.

C. Lombroso (trans.), The Man of Genius, p. 221.

dosimetrist (do-sim'e-trist), n. [dosimetr-y

+ .ist.] Same as *dosimetrician.

dosimetry (dō-sim'e-tri), n. [Gr. δόσις, dose, + .μετρία, < μέτρον, a measure.] 1. The accurate measurement of the doses of medicines.

— 2. A system of therapeutics in which treatment is directed chiefly toward the symptoms ment is directed chiefly toward the symptoms and consists in the administration of alkaloids in the form of granules at definite intervals, each granule containing a single dose of the remedy of proper amount for administration at the prescribed interval.

dosodic (do-so'dik), a. [do (minantly) + sodic.] In petrog., in the quantitative system of classification (see *rock1), dominantly sodie: said of divisions of rock magmas in which the ratio of the soda to the potash is greater than 5 to 3 and less than 7 to 1.

dosootee (dō-sö'tē), n. [Also dosooty; < Hind. dosūtī, dusūtī (also dosūtā), \(\lambda\) do, du, two, + sūt, a thread (see sutra, sew1).] In India, a kind of cheap cotton cloth woven with threads doubled. Yule.

dossier (dos-iā'), n. [F., \(\langle dos\), back.] A bundle of writings or documents relating to some one matter or subject, inclosed in a wrapper and briefed on the back; the 'papers in the Case. The secret dossier, certain documents which in the trial of Captain Alfred Dreyfus, for treason, in France in 1894, were illegally and secretly presented as evidence against him. These documents were said to have been shown to the jury at a time when the court was not in session, and largely upon the strength of this evidence Dreyfus was convicted.

dot', n. 1. (f). In bot.: (1) One of the small, usually circular and pellucid oil receptacles in certain leaves, as of Hypericum. (2) A pit in a cell-wall.
2. In projective yeom., one of the system of n

coplanar points which determine a polystigm.

In each dot intersect (n-1) connectors, going through the remaining (n-1) dots. Merriman and Woodward, Higher Mathematics, p. 75.

Double dot, in musical notation, see dot', 1 (c) (1).—On the dot, at the precise moment; with punctuality and regularity: as, to begin work on the dot. dotted (dot'ed), p. a. 1. Marked with a dot or dots; spotted: as, a dotted pattern, the dotted i.—2. Consisting of dots, as, a dotted

line.—Dotted bar. See *barl.

Dotal property. See *property.

dotational (dō-tā'shon-al), a. [dotation + -al¹.] Having the nature of a gift for the good of others; altruistie. [Rare.]

Natural selection thus becomes altruistic or dota-onal. J. A. Ryder, Biol. Lectures, 1895, p. 36.

Germany, having an unossified skeleton and a dote³ (dot), n. Decay or rot in timber. [Lumvery high dorsal fin.

Dothidea +-ales.] An order of pyrenomyeetous fungi, containing the single family Dothid aceæ, and having the same general characters. See Dothideaceæ. dotilic (dō-til'ik), a. [do(minantly) + til (⟨ t(itanite) + il(menite)) + -ie.] In petrog., dominantly tilie. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which tilic minerals (normative titanite, limenite) are dominant over hemic minerals (normative magnetite, 11 hematite), within the limits $\frac{11}{T} < \frac{3}{8} > \frac{1}{7}$.

dotriacontane (dot-ri-a-kon'tān), n. Same as *dotricontane.

dotricontane (dot-ri-kon'tan), n. A colorless erystalline hydrocarbon, C₃₂H₆₆, of the methane series, prepared by the action of sodium amalgam on cetyliodide and contained in petroleum. It melts at 70.5° C., and boils at 310° C. under 15 millimeters pressure: also called dotriacontane and dicetyl.

dotter, n. 2. In naval use, an apparatus used to train gun-pointers to aim accurately at a tarto train gun-pointers to aim accurately at a target. The apparatus carries a miniature target close to the muzzle of the gun. The target is given a vertical oscillating motion to initate the effect of the rolling of a vessel at sea; the pointer follows the motion of the target with his gun by means of the gun-sight, and when he judges he is aiming at the center of the target he presses a firing-key as he would in actually firing the gun. The electric apparatus worked by the firing-key makes a dot at the point on the target at which he was actually aiming when he pressed the firing-key.

dotting-wheel (dot'ing-hwël), n. A dottingpen or tracing-wheel (which see).

dotting-wheel (dot ing-fivel), n. A dotting-pen or tracing-wheel (which see).

dottyl (dot'i), a. [dot1 + -y1.] Having dots; covered or characterized by dots: as, a low, dotty underwood. R. L. Stevenson.

dotty² (dot'i), a. [Dial. var. of doty.] 1. Of unsteady gait; feeble and tottering, as from stiffness or lameness: as, to be a little dotty on one's feet .- 2. Feeble-minded; silly. [Colloq.]

dot-work (dot'werk), n. Dot-painting. *nointillism.

douanier (dwän-yā'), n. [F., \langle douane, custom-house: see douane.] A custom-house

double. I. a.—Double algebra. (c) An algebra of coplanar vectors. See the extract.

All the symbols which in single algebra denote numbers or magnitudes, in double algebra denote lines, and not merely the lengths of lines, but their directions.

A. De Morgan, Trig. and Double Algebra, p. 117.

Double ax, a pictographic and decorative type common in the prehistoric remains of the Levant. It is found in llittle hieroglyphics, on Cypriote cylinders, and on Mycenean objects, on which it has some connection with Zeus Labrandens. It is the most important of the Cretan pictographic symbols. Also called labrys.

The most constantly required. Double ax, a pletographic and

The most constantly recurring of these, indeed, is the labrys or double ax already referred to—the special symbol of the Cretan Zeus.

A. J. Evans, in Smithsonian Rep., 1901, p. 436.

Double chant, concerto, consciousness, counterpoint, court. See chant (c), concerto (c), *consciousness, counterpoint2, 3 (c), *court.—Double flute, etc. See *fute, etc.—Double fugue. See fugue.—Double green. Same as methyl green (which see, under green!).—Double pedal-point.—See pedal-point.—Double pedro, See *cinch, 4.—Double points of a homographic transformation. See **point1.—Double quartet. See quartet.—Double shake or trill. See shake, 5.—Double sharp, slit, suspension. See **sharp, **skitl, suspension. *slit1, suspension, 5.

II. n. 14. In printing: (b) Same as mackle.

—16. In lawn-tennis, two successive faults in serving.—17. In base-ball, a play in which a fielder, either alone or with assistance, puts out two runners before the ball is returned to the pitcher for delivery .- 18. In astron., two stars which seem one to the unaided eye, but double-lop (dub'l-lop), a. Having the bent directly downward: said of a rabbit. which are seen separated through the telescope. Optical doubles, probably very rare, are composed of two stars nearly in line with the observer, one of them far beyond the other, each having its own proper motion. Physical doubles are actually near together, and revolve around their common center of gravity; also, and more usually, called binaries. A spectroscopic double or binary is one in which the stars are too close to be separated by the telescope, but of which the duplicity is shown by the periodic doubling or shifting of lines in the spectrum. Visual doubles are pairs of stars near each other, but not so near as to require a telescope to separate them; a Capricorni and & Tauri are typical examples.

19. pl. Sheet-iron plates, from 0.020 to 0.035 of an inch thick, which are ready for tinning. The term is also applied to plates which have already received an extra thick coating of tin and which have, besides, been hammered to make the tin adhere more firmly to the iron—Double and twist, two strands of yarn twisted together; a two-ply threat. which are seen separated through the tele-

spirituous liquors, to distil a second time (the low wines or weak spirit obtained in the first double-riveted (dub'l-riv"et-ed), a. Having distillation), thus producing a liquid of in-

creased alcoholic strength. Sadtler, Handbook of Indust. Chem., p. 225.—9. In shipbuilding, to cover (a surface, particularly part of a deck or of the exterior of a vessel), with two thicknesses of plating or planking.—To donble pawns, in chess, to play so that two pawns of the same color are placed on the same file or row.—To double rooks, in chess, to place both rooks on the same file or row.

II. intrans. 6. Milit., to move with the dou-

ble-quick step.

The Garrison Artillery lined the parapet . . . and cheered themselves hoarse as the British Infantry doubted along the road to the main Gate of the City.

R. Kipling, Soldiers Three, p. 399.

7. In printing: (a) In type-setting, to repeat 7. In printing: (a) In type-setting, to repeat words or lines through negligence. (b) In presswork, to make a second impression over the first.—8. In billiards, to cause an objectball, almost invariably the first, to go to and return from a cushion, either for pocketing or for caroming.—9. In base-ball, to put out two men on one play. See *double, n., 17. double-bowed (dub'l-boud), a. Naut., said of a coach.

See *double, n. 1. (e) In billiards, the doubling of a ball-see *double, n. 11. See *double, n. 11. See *double, n. 12. (e) In billiards, the doubling of a ball-see *double, n. 13. (e) In billiards, the doubling of a ball-see *double, n. 14. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the doubling of a ball-see *double, n. 15. (e) In billiards, the double see *double, n. 15. (e) In billiards, the double see *double, n. 15. (e) In billiards, the double see *double, n. 15. (e) In billiards, the double see *double, n. 15. (e) In billiards, the double see *double, n. 15. (e) In bill

men on one play. See *double, n., 17. double-bowed (dub'l-boud), a. Naut., said of a vessel in which both ends are alike, so that it is able to move in one direction or its opposite with equal facility without turning, as a ferryboat. White, Manual of Naval Arch., p.

double-claw (dub'l-klâ), n. The unicernplant. See Marlynia.

double-cropping (dub'l-krop"ing), n. The raising of two or more crops on the same land in one season. This is accomplished by means of companion crops and succession crops (see

doubled (dub'ld), p. a. 1. Made double; duplicated.—2. In music, reinforced by its octave: said of a tone in a melody or a chord.—Doubled pawn, rook. See to double pawns, to double rooks, under *double.

double-double (dub'l-dub'l), n. A multiple star composed of two pairs. Epsilon Lyre is perhaps the best example. Each pair is itself binary, and the two pairs (probably) revolve around their common center of gravity in a much longer period.

double-ender, n. 3. A locomotive having either a truck or a pilot at each end: intended

to haul trains in either direction without being turned .- 4. A double-pointed file.

double entente (dö'bl on-tont'). [F., 'double meaning.'] See double entendre.

double-ganger (dub'l-gang'êr), n. [G. dop-pelgänger.] The apparition of a living person; a double; a wraith.

Either you are Hereward, or you are his double-ganger. Kingsley, Hereward, xix.

double-geared (dub'l-gerd), p. a. Having two changes of the speed by means of gears, as in the back-gears of a lathe. This term is applicable only to the number of gear reductions, and not to the amount of change in the acting force which depends on the ratios of the diameters of the gears.

double-header, n. 2. In lumbering, a place from which it is possible to haul a full load to

the landing, and where partial loads are topped out or finished to the full hanling capacity of

double-jacketed (dub'l-jak"et-ed), p. a. Fitted with two walls. The cavity between the walls may be filled with steam while the outer layer is covered with a non-conducting covering, or the double jacket may be of two layers of poor conductors of heat.

They are fitted with a strong bottom hoop and bands round the sides, and can be double-jacketed for steam-heating if required.

Encyc. Brit., XXVIL 358.

double-leaf (dub'l-lēf), n. Any plant of the genns Ophrys. Also called twayblade (which

Having the ears

The ears . . . hang down by the side of the head like a double-lop rabbit. Encyc. Brit., X. 709. Encyc. Brit., X. 709.

double-opposed (dub'l-o-pozd"), a. In mach., composed of two parts which are opposed to each other either in position or in action. A double-opposed engine is one having two cylinders which are placed on opposite sides of the shaft and hence tend to balance each other when running.

double-ply (dub'l-pli), a. Made up of two layers or thicknesses: said of manufactured articles, such as hose or rubber belting, in which layers of canvas alternate with layers of rubber fabric. In double-ply hose there are two layers of canvas and three layers of rubber. double-ported (dub'l-por ted), a. Having two ports which open simultaneously so as to give a large opening with small motion: said of engine-valves.

two rows of rivets in each joint. In lap-riveting

this necessitates only two rows of rivets, while for butt-joints two rows are needed on each side of the butt, mak-ing four rows in all.

double-spar (dub'l-spär), n. Same as doubly refracting spar. See calcite.

double-standard (dub"l-stan'dard), a. may be registered in two classes: applied to cattle. Thus the double-standard polled Durhams may be registered as shorthorns or as polled Durhams.

double-suspension (dub#1-sus-pen'shon), a. Having a perch gear and the body suspended upon four elliptic and four C-springs, leather braces connecting the body to the C-springs: said of a coach.

double-thong (dub'l-thông), r. t. To strike or lash with the doubled thong of a whip: as, to double-thong the off-wheeler, in driving.

double-threaded (dub'l-thred ed), a. 1. Having or sewing with two threads, as a sewing-machine having both needle and shuttle.—2. Having two screw-threads which start at points 180 degrees apart and have each twice the pitch which appears from measuring from the tip of one thread to the tip of the next parallel to the axis. Double-threaded screws give very rapid motion to the nut.

doubleton (dub'l-ton), n. [double + -ton, as in simpleton.] In whist and bridge, a two-card

double-tongue, n. 2. A kind of dwarf butcher's-broom, Ruscus Hypoglossum, of southern Europe: so called from the appearance of the See Ruscus. cladodes.

double-tooth (dub'l-töth), n. The nodding bur-marigold or water-agrimony, Bidens cernua, translating the genus name.

double-touch, n. 2. In organ-building, an adjustment of the keyboard action by which different effects are produced when the keys are depressed partially or wholly, so as to permit of a decided differentiation between simultaneous tones.

doubling, n., 2. (d) In ship-building, a second thickness of plating or planking covering a surface, particularly part of a deck or of the exterior of a vessel.

7. (a) In textile-manuf., any process of combining two (or more) slivers and drawing them into a single sliver of smaller size than any of the separate ones, for the purpose of making more uniform roving. (b) In weaving, the process of winding two threads or rovings upon a spool or bobbin.—8. In biol., same as reduplication: said of the chromosomes and centrosomes of the cell when they undergo fission .-9. In bridge, the act of doubling the value of the trick points after the dealer's side has declared. See *bridge^2.—10. In the production of metallic antimony from its ore, the remelting of the singles, or lumps of crude metal first obtained, and the mixing, in due proportion, of those containing surplus iron and those containing unseparated sulphur. The product of this second fusion is called bowl-metal because poured out into and solidified in a bowl of cast-iron.—11. In bookbinding, the thickening of the covers of a book by the addition of thick paper or thin hoards.—Doubling in balk, in bil-liards and some kinds of pool, a mode of pockething by first driving the object-ball to a cushion, this hall and the ene-hall being within the string-line.

doubling-frame, n.—Flier doubling-frame, a modified form of a throstle spinning-machine for the twisting together of two or more threads.

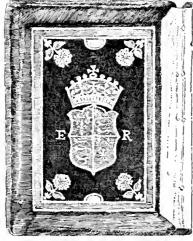
doublure (dnb-lūr'), n. [F. doublure, a lining, \(\langle deubler, \) double, r.] 1. The ornamental lining on the inner covers of a sumptuous book. The simpler styles are of silk, velvet, or brocade. Highly decorated books have linings of thin leather, with borders or centerpieces hand-tooled in gold. See cut on page 392.

One of Edward's books, however, has actually the first instance in an English book of a decorated "doubture," the name by which we understand the inner side of the boards of a book.

C. Davenport, in Portfolio, N. S., XXX. 28.

In paleon., the reflexed inferior margin of the carapace in the Trilobita, specially noticeable on the cephalon and pygidium.





Doublure of Prayer-book of Edward VI.

douche (dösh), v. t. [douche, n.] To apply a douche to.

doucin (dö-san'), n. [F.] A variety of dwarf apple-tree on which other kinds are grafted dovetail, n. or budded when it is desired to secure a tree of small stature. Dwarf apple-trees are usually regarded as of two general types or tribes, the puradise and the douein. The paradise is the smaller of the two; the dou-ein is used when a tree of intermediate stature is desired.

en is used when a tree of intermediate stature is desired. Dwarf apple stocks are propagated by layers; any variety of apple can be grafted on them.

dough, n. 4. Money; 'boodle.' [Slang, U. S.]
—Sour dough, in Germany, the leaven used in making black rye bread. It consists of old dough which has been exposed to the air in a moist condition and has entered upon both alcoholic and lactic-acid fermentation.

dough-bag (dô'bag), n. A money-bag, especially one full of mouey for corrupt purposes; a corruption fund. [Slang, U. S.]

a corruption fund. [Slang, U. S.] dough-belly (do'bel"i), n. The steel-back chub. Campostoma anomalum. (Indiana). See cut, under Campostoma. [Local, U. S. dough-boy, n. 2. An infantry soldier. [Colloq.,

dough-day (do'dā), n. A day shortly before an election, on which the 'dough,' or money, dough-day (do'da), n. for use (chiefly in purchasing votes) in the election is distributed to the 'workers' of a

party. [Slang, U. S.] dough-divider (dô'di-vî"der), n. A machine cutting dough; a doughing-machine (which see). There are two sizes made: one for cut-ting the dough into thirty pieces, used for making rolls, biscuits, etc.; the other for cutting it into fifteen pieces, used for bread-loaves.

dough-head (dō'hed), n. A blockhead; a stu pid fellow; a fool. [Slang, U. S.] swor dough-mixer (dō'mik"ser), n. A machine for dow.

mixing dough.—Serew dough-mixer, a dough-mixer which is operated by means of an iron or steel screw on a horizontal shaft. The dough is mixed and pressed through a circular iron box on to a platform.

dough-molder (dō'mōl"dèr), n. A machine for rolling and molding dough to prepare it to be placed in pans

dough-trough (dô'trôf), n. A long box made of wood or iron, about 2 feet wide, 1½ deep, and from 8 to 12 long, in which dough is mixed by hand and left to prove or rise. It is also used to receive dough from the doughing-machine. douglasite (dug'las-īt), n. [Douglashall, near Stassfurt, + -ite².] A hydrated chlorid of potassium and ferrous iron found at Stassfurt,

Douglas's fold, ligament, or line. See *fold1. Douglas's fossa. Same as rectovaginal pouch (which see, under pouch).

Doukhobor (dö'kō-bôr), n. See Dukhobortsi.

See *duma. douma, n.

douping (dou'ping), n. [*doup, v. ($\langle doup, n. \rangle$) -ing1.] In weaving gauze or leno fabrics, the arrangement of the doup-threads in the heddles and reed for crossing or twisting about others. douping-warp (dou'ping-warp), n. Same as *whip-thread.

thread having a doup or loop at the end.

dourine (dö-rēn'), n. [Origin not ascertained.]

A disease of horses, affecting chiefly the genitals and hind legs, thought to be due to the presence of a protozoan parasite, Trypanosoma

dourra (dö'rä), n. See durra. dout, doutful. Simplified spellings of doubt, doubtfut.

douzain (dő-zań'), n. [F.: see dozen.] 1. A stanza of twelve lines.—2. A French plated or billon coin, the twelfth of the franc d'argent under the Valois kings and the twelfth of the silver éeu d'argent under Louis XIII. and his down³, n.-Vegetable down. Same as ★bombax successors.

louzaine (dö-zān'), n. [F.: see dozen.] An administrative council of twelve elected men. douzaine (dö-zān'), n.

[Channel Islands.]

louzainier, douzenier (dö-zan-yer'), n. [F., < douzaine.] A member of a body of an administrative council of twelve. [Channel douzainier, douzenier (dö-zān-yēr'), n. < douzaine.] A member of a body of

Dove of Noah, Columba Noachi, a small modern constellation south of Lepus and close to the feet of Canis Major.—Scaled dove, scaly dove. See scale-dove.

dove-petrel (duv'pet'rel), n. Any of the small petrels of the genus *Prion*, especially the type species P. turtur, common in southern seas. The name was suggested by the size and color of the bird.

dove-pox (duv'poks), n. An infectious disease of doves identical with pigeon-pox. See \star pigeon-pox.

dover² (dô'ver), n. A clasp-knife of a kind originally made by a cutler named Dover. Australia.

Dove's law of the rotation of the winds. See *wind1.

2. pl. Two irons, one with a flange, the other with a recess, cut to a taper: used to hold earriage-doors in position.

dovetail-fish (duv'tāl-fish), n. A fish, Abudef-dul taurus, of the family Pomacentridæ: found on the coast of Barbados.

on the coast of Barbados.

dovetailing-machine (duv'tāl-ing-ma-shēn"),

n. A machine for making the recesses which
are to receive a dovetail-shaped tenon. The
stock is cut away by a rapidly revolving cutter-head of
the desired section, fed in against the end of the piece to
be jointed and regulated for depth and for distance apart
by cams and feed-devices. The tenons can be similarly
cut, and will be standard and duplicates of each other.

dove-tick (duv'tik), n. A cosmopolitan tick Argas reflexus, which inhabits dove-eotes and sucks blood for nourishment, but which is eapable of living for at least two years without food. Also called pigeon-tick.

dove-weed (duv'wed), n. The spotted spurge or milk-purslane, Euphorbia maculata: so named because its seed-capsules are a favorite food of the ground-dove. Also ealled spotted eyebright. [West Indies.]

dove-whistle (duv'hwis"l), n. A light whistle, single or compound, attached to pigeons and

sounded by their flight against the wind. It is used in China and other countries of eastern Also pigeon-whistle. Asia.

 dow^6 (dou), n. [Hind. $d\bar{a}o$, Burmese $d\bar{a}h$.] A hewing-knife which serves on occasion as a sword. [Anglo-Indian.]

An abbreviation of dowager.

which cuts on the inner face, used for making dowels.

dowel-plate (dou'el-plat), n. An iron plate office, punctured with round holes, used for making D. P. S. An abbreviation of Doctor of Physical dowels by driving the wood through the holes.

Science. dowel-strip (dou'el-strip), n. 1. A piece of stock from which round dowels are made.—2. A strip intended to receive dowel-pins and form a joint.

Dower by custom, in common law, the dower to which a widow became entitled by reason of some local or particular custom.—Dower de la plus belle, in common law, the process by which a widow was required to re-indow herealf ont of the lands held by her as guardian in socage, in order to release from dower the lands of her husband held in chivalry. This could be required by the guardian in chivalry when sued by the widow for dower. It was abolished with military tenures, of which it was an incident.—Dower ex assensu patris, in common law, the same as dower ad ostium ecclesiæ (which see, under dower?, 2), except that the property endowed belonged to the husband's father and was given by his consent.

dowlas. n. 2. In modern use, a coarse e cotton

dowlas, n. 2. In modern use, a coarse cotton fabric made to imitate the linen cloth of the same name.

doup-thread (doup'thred), n. In weaving, a down?, adv.—one down, in golf, one hole down, or one hole by which the player is behind his opponent. down². I. a. 4. In stud poker, said of the first

card, which is dealt face down. II. n. 2. In dominoes, the first stone laid on the table.—3. A serimmage in foot-ball. When a player is held so that he can no longer advance the ball, he eries 'down,' and the ball is then placed on that spot for a serimmage.—4. A grudge or prejudice (against); a hostile attitude: usually with on or upon: as, to have a private down on one; the diggers had a down on made dishes. [Australia.]

down-bow (doun'bō), n. In riolin-playing, a stroke of the bow downward, beginning with stroke of the bow downward, beginning with the nut: opposed to *up-bow.—Down-bow mark, in violin music, a sign to use a down-bow, usually — or —. downcast, n. 3. In ship-building, a duet or trunk with a cowl or hood at its upper end, arranged to drive air down into the interior of

downcomer (doun'kum"er), n. 1. Any tube or passage for leading solids or fluids downward.—2. A downtake.—3. The descending element of a sectional boiler, through which the cooler or heavier water descends in the process of eirculation .- 4. In a blast-furnace for smelting iron from the ore, a large pipe which takes combustible gas from the top of the furnace-shaft and brings it down to boilers, stoves, engines, etc., in which it is burned as a source of heat.

down-draft, n. II. a. Pertaining to a current of air or gas which flows downward: used in connection with furnaces. In down-draft furnaces the current of air is admitted on top of the grate and passes down through it.

down-faulted (doun'fâl"ted), a. Depressed by faulting to a relatively lower level.

It was shown that the coals occur in a down-faulted block of coal measure beda surrounded by Pocous atrata. Science, March 15, 1901, p. 426.

down-grade (doun'grad), n. and a. I. n. A downward sloping pertion of a road or rail-way; hence, figuratively, a downward moral eourse.

II. a. Sloping downward; hence, relating to a downward moral course.

downmost (deun'most), adv. and a. Farthest down: opposed to upmost or uppermost.

They affected to champion the cause of the "downmost an." New York Independent, June 14, 1900, p. 1440.

downright, a. II. n. One of the lower qualities or sorts of a fleece of wool. Hannan, Textile Fibres of Commerce, p. 191. downtake, n. 2. A passage or tube leading downward through which a material, as coal,

ore, etc., is poured into hoppers or carts.

down-thrust (doun'thrust), a. Pertaining to or resulting from a downward movement, as in faults.—Down-thrust fault, a normal or gravity fault; one in which the chief movement is a downthrow of one side of the fault in the direction of the hade. dowress (dou'res), n. A woman possessed of or entitled to the possession of a dowry. dozen (duz'n), v. t. To make up into bundles

of twelve, as certain kinds of dressed hides.

The next day wipe off grain with flannel, and stock is finished, and may be sorted and dozened to ship away.

C. T. Davis, Manuf. of Leather, p. 376.

dow. An abbreviation of downger.

dowdyism (dou'di-izm), n. The quality of being dowdy in dress or appearance; lack of being dowdy in dress or appearance; lack of being dowdy in dress.

d. p. In elect., an abbreviation of Double pole.

d. p. In elect., an abbreviation of Diploma in Publical Be Health lic Health.

D. P. O. An abbreviation of distributing post-

dpt. An abbreviation (b) of department. drab², n. 3. An English collectors' name for a number of noetuid moths of a drab color: as, the clouded drab, Taniocampa instabilis; the northern drab, T. opima; the lead-colored

drab, T. populeti. drac (drak), n. [Pr.; ef. drake², dragon.] In southern France, formerly, an elf of popular

drach. A contraction of drachma, a drachm.

Draconism (drā 'kō-nizm), n. [Gr. Δράκων,
L. Draco(n-), Draco, + -ism.] Draconic severity; harshness: as, the Draconism of the slave

dracuncular (drā-kun'kū-lär), a. Relating to or eaused by the guinea-worm, Dracunculus medinensis.

meanensis.
draf, n. A simplified spelling of draff.
draft¹, n. 12. Draft aft is that measured at the stern;
draft forward, that measured at the bow; mean draft,
the average between that at the bow and the stern, or
that measured at the middle of the length; draft extreme,
that measured to the lowest projecting portion of the
vessel, as the rudder or the propellers when they are
helow the lowest point of the keel; light draft, that at
light displacement; load draft, that at load displacement.
See *displacement.
34. In textile-manuf, the amount of attention

34. In textile-manuf., the amount of attenuation of a lap, sliver, or roving effected by

drawing it between rollers running at different -35. A body or bunch of cattle which speeds.—35. A body or bunch of eattle which have been separated from the rest of the herd. See draft¹, 10. [Australia.]—Direct draft, an arrangement of the flues for the products of combustion such that these products move always in the same direction toward the chimney.—Fan draft, a system of supplying the air for the combustion of coal in boiler-furnaces by means of mechanically driven fans or blowers.

Fan draught is also of great value under unfavourable conditions, such as hot weather, calms, or following winds, giving a command of steam not possible with funnel draught and ordinary ventilators.

Il'hite, Manual of Naval Architecture, p. 563.

White, Manual of Naval Architecture, p. 563.

Forced draft, an accelerated draft produced by supplying air to the furnace at a greater pressure than that of the atmosphere.—Induced draft, an accelerated draft caused by drawing the gases away from the furnace by a centrifugal fan or other device, so that the pressure within the furnace and flues is less than that of the atmosphere.—Mechanical draft, draft for a furnace which is produced by some mechanical contrivance such as a blower, steam-jet, etc., as distinguished from a natural draft produced by a chinuey.—Skip-shaft draft, a plain for a plain weave (as for calicoes), with four or more shafts or harnesses in a loom, by skipping from the first shaft to the third in drawing in the warp-threads through the heddles, then from the second to the fourth, and so on.—Straight-over draft, the process of drawing in warp-threads for a loom through the harnesses in their regular order.

draft, r. t. 6. In cotton manuf.. to attenuate (a lap, sliver, or roving) by drawing it be-

(a lap, sliver, or roving) by drawing it be-tween rollers which run at different speeds.— To separate (and sort) from the herd: as,

to draft cattle. See def. 3. [Australia.] draft-cord (draft'kôrd). n. A cord or small rope attached to the draft-scroll on a spinningmule.

draft-engine (draft'en'jin), n. 1. An eugine used to cause a current or draft of air or other gas through flues.-2. An engine for hauling. This is an improper use: such an engine is a traction-engine if mobile and a windlass or derrick if stationary.

drafter (draf'ter), n. 1. One who drafts; one who drafts a document: as, the drafters of the Constitution of the United States.—2. One employed in a drafting-yard to sort out sheep. [Australia.]—3. A draft-horse. draft-furnace (draft'fèr"nās), n. A furnace used in a primitive method of ventilating miner a sheeffs. It was that the base of the

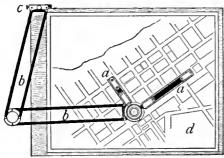
mines or shafts. It was placed at the base of the shrft, so that a column of air heated by it should rise and carry out with it the air or gases to be removed. In modern plants this ventilating is effected by fans.

draft-gage (draft'gāj), n. A gage for measuring the force of a draft by ascertaining the

difference in pressure between a point in the course of the draft and the pressure of the atmosphere.

draft-gear (draft'ger), n. In car-building, the entire system of couplers, draw-bars, springs, etc., used to connect one car with another or to the locomotive.—Continuous draft-gear, a draft-gear extending by means of rods, called draft-rods, from one draw-bar of a car to the other, and designed to distribute the pulling strains when the car is being hauled.—Friction draft-gear, a form of draw-head for railway-cars in which the action of the usual spring attachment is retarded by introducing friction surfaces which must move upon each other when shocks of traction creater at the car is a surface.

or retardation occur drafting-machine (draf'ting-ma-shēn"), n. An appliance for the rapid and accurate drawing



Drafting-machine

a, a, square; b, b, pivoted arms; c, fixed point of support on board; d, map.

of plans, diagrams, and mechanical drawings. of plans, diagrams, and mechanical drawings. It consists of a graduated square having extension arms which in a normal position are at a right angle and can be adjusted to other angles when desired. It is provided with two parallel arms hinged at the outer end to two more arms, which are, in turn, hinged to a fixed point on the edge of the drawing-board. The combined arms pernit of a free movement of the square over the board, and yet keep it at all times at the same relative angle.

drafting-room (draf'ting-rom), n. Same as drawing-room1. drafting-yard (draf'ting-yard), n. A stock-

arranged for sorting sheep. [Australia.] draft-scroll (draft'skrol), n. A scroll on a spinning-mule for regulating the draft of the C. Vickerman, Woollen Spinning, roving.

draft-tube (draft'tūb), n. An air-tight tube which descends from the bottom of a turbinecasing into the tail-race, with its lower end below the surface of the water in the latter. The atmospheric pressure is balanced in part by the height of the water column, so that the motor can be placed above the level of the tail-race and yet suffer no loss of effective working head. This lessens the weight of the transmission shaft, and the turbine need not be placed so low as to be inaccessible. Applicable principally to downward-flow wheels.

draft-wheel (draft'hwēl), n. On a machine for textile-fibers, a gear for regulating the speed of the draft-rollers for attenuating the sliver, roving lap etc. casing into the tail-race, with its lower end

sliver, roving, lap, etc.

speed of the draft-rollers for attenuating the sliver, roving, lap, etc.

drag, n.—Collapsible drag (naut.), a drag which folds up into a comparatively small compass, such as the cornucopia and umbrella drags.—Cornucopia drag (naut.), a heavy iron ring, varying in size according to the tonnage of a vessel, to which is laced a funnel-shaped canvas bound on the seams with rope. At the pointed end of the canvas a small iron eye is secured into which the tripping-line is bent; and a four-part bridle is formed at the mouth end of the bag by continuing the rope a couple of fathoms and ending it in an iron ring to which the hawser is secured with two half-hitches and a stopped end. The weight of the iron ring is generally sufficient to keep the mouth of the bag down in the water. After the hawser has been led through the hawse-pipe or over the bow. A long scope of hawser is given to the drag, and the tripping-line, which is employed for reversing the drag and getting it on beard, is kept well slack.—Folding drag (naut.), a hinged or swiveled set of wooden or iron frames to which is laced a shape of canvas.—Kite drag (naut.), a form of drag popular among English seamen, consisting of several spars lashed together at or pinned through the center. When spread out they resemble the sticks of a kite. Around the outer ends of the spars, and encircling them, a chain is passed, and to this chain is laced a baggy canvas shaped to the frame. A bridle leads from the four spars to which the towing hawser is made fast, and a tripping-line is bent to the end of one of the spars to capsize the kite and haul it on board horizontally.—Portable drag (naut.), a drag, casy of transportation, such as the cornucopia drag.—Propeller drag (naut.), the drag which the propeller exercises in a heavy sea if the engines are stopped and the vessel is allowed to take up its own position.—Spar drag (naut.), a single spar with a bridle leading from its extremitics, into the sliugs of which a hawser is made fast.—Umbrella drag (naut.), a patented fold

drag-bench (drag'bench), n. Same as draw-

drag-buck (drag'buk), n. See *buck6, (e). drag-cart(drag'kärt), n. Same as *bummer, 3. drag-lines (drag'linz), n. pl. In geol., a set of cross-strie which are produced on the lee sides of older strie. T. C. Chamberlin, in U. S. Geol. Surv., 1885-86.

dragma (drag'mä), n.; pl. dragmata (-ma-tä). [NL., ζ Gr. δράγμα, a handful, a sheaf.] sponge-spicules, one of the microscleres, of which there are several in a cell or seleroblast, lying in sheaves.

drag-mill (drag'mil), n. A mill for grinding by dragging massive rollers over the mass to be pulverized; an arrastre.

drag-nut (drag'nut), n. A nut on a bar, bolt, or rod for drawing two parts of a mechanism toward each other, or the reverse.

dragomanate (drag'ō-man-āt), n. [dragoman + ate3.] The office of a dragoman; the interpreter's department: as, the consular dragomanate.

dragomanic (drag' o - man - ik), a. [dragoman -ic.] Of or pertaining to a dragoman: as, dragomanic expenses.

dragon, n. 10. The larva of a European noto-dontid moth, Hybocampa millhauseri, having remarkably angular outlines and conspicuous corners and humps, so that it resembles an oak-leaf curled and eaten by a tortricid larva.

—11. The hellgrammite fly, Corydalus cornutus. [Local, eastern U. S.]—Blue dragon.
Same as Broseley *drugon.—Broseley dragon, a



Broseley Dragon.

design used extensively by Thomas Turner of Caughley, design used extensively by Thomas Turner of Caughley, near Broseley, England, in the decoration of tableware, in the latter part of the eighteenth century. This pattern was almost as celebrated as his willow pattern. Also called blue dragon.—Dragon green. Same as madachite-green.—Flying dragon, a meteor with a luminous train.—Order of the Double Dragon. See *korder.—Waterdragon. See water-dragon.

dragonade, dragonnade (drag-o-nād'), v. t.; pret. and pp. dragonaded or dragonnaded, ppr. dragonading or dragonading. [dragonade, n.]

To persecute by methods similar to those of the dragonades.

the dragonades.

dragonet, n.—Sword-dragonet, a common name of the tish Caltionymus lyra.
dragon's-blood, n. 2. In ceram., a red color resembling arterial blood, with iridescence, in places, due to the presence of copper; a varieties of control to be referred to be referred. riety of sang-de-bouf.

dragon's-claw (drag'onz-klâ), n. The coral-root, Corallorhiza odontorhiza or C. multiplora: so called from the claw-like form of the root.

dragon's-mouth (drag'onz-mouth), n. 1. The snapdragon.—2. A terrestrial orchid, Arethusa bulbosa, of eastern North America, with gaping flowers.

dragon's-skin (drag'onz-skin), n. A name given by coal-miners to decorticated trunks and slabs of Sigillaria and Lepidodendron, from the resemblance of the scars to the scales of reptiles.

dragon's-tongue (drag'onz-tung), n. An occasional name of the spotted wintergreen, Chimaphila maculata.

drag-road (drag'rod), n. Same as *dray-road. drag-sled (drag'sled), n. Same as *dray1, 3. dragsman, n. 3. One engaged in dragging a river, lake, pond, harbor, or the like, in search of something. search of something.

drain, n. 2. (d) In ship-building, a large pipe

which runs through or above the double bottom of a war-ship and is connected with the principal pumps to remove water from the various compartments. The main drain is from 12 to 15 inches in diameter, has openings into the large compartments controlled by valves, and is intended to pump out the water in case of damage by grounding, collision, etc. The secondary or auxiliary drain is also connected with all the large compartments and is used for all ordinary pumping.—Block drain. Same as pluy *drain.—Bush, brushwood, or wood drain, an old style of drain consisting of poles or fagots placed at the bottom of a trench and covered with soil. The water passes among the material while it lasts, then through the cavity left by its decay. Of the same type are spray drains and straw drains, in which branches and straw are used.—Cobble or cobble-stone drain. Same as rubble drain (which see, under drain). W. I. Chamberlain, Tile Drainsge, p. 29.—Mole or mole-plow drain, a drain made by a mole-plow, consisting of a cylindrical channel communicating with the surface by a slit which is closed by a furrow-slice.—Plug drain, a drain formed by placing in the bottom of a trench a row of connected poles or fagots and puddling clay over these, then drawing the poles along and repeating the process. Also called block drain. Great Britain.—Shoulder drain. See wedge-and-shoulder *drain.—Shoulder drain. See wedge-and-shoulder *drain.—Stone drain, either a rubhle drain (which see, under drain) or one made with flat stones at the bottom of a trench so placed as to secure a passage, the trench above being filled with soil.—Turf or wedge drain, a drain formed by tutting a trench with or without ledges at the bottom and inserting turf, grass side down, to be supported either by the ledges or merely by its wedging, the space above being filled with soil. [Great Britain.]—Wedge-and-shoulder drain or shoulder drain, a urri drain which has ledges or shoulders. of a war-ship and is connected with the principal pumps to remove water from the various com-

drainage, n.—Adjusted drainage, a drainage-system in which the streams and valleys have come, by spontaneous changes, to follow chiefly the belts of weak rock, while the ridges and divides follow the belts of resistant rock. Rivers and divides also are similarly adjusted.—Antecedent drainage. See *antecedent.—Arterial drainage, that part of drainage which is effected through large open channels which are either artificial water-courses or natural ones improved: opposed to minor **drainage.—Autogenetic drainage. See *autogenetic.—Deep drainage. Same as thorough **drainage (a)—Drainage cycle, the initiation, development, and maturity of drainage of any given region to the time of interruption introduced by new conditions.

(The old drainage of this basin presents some interest-

"The old drainage of this basin presents some interesting peculiarities, and the interpretation of these will enable us to determine some of the deformations of the basin during the development of this old drainage cycle."

W. G. Tight, U. S. Geol. Surv., Professional Paper 13, [p. 76.

Dumb-well drainage. Same as sink-hole *drainage. — Epigenetic drainage. Same as ink-hole *drainage. — Essex system of drainage, an earlier British method of drainage in which drains of the bush and straw type (which see, under *drain) were placed under each, or each second or third, water-furrow: hence, also called furrow drainage.—Inherited drainage, streams the courses of which have been determined by the slope of a once overlying series of strata now removed by crosion so as to disclose rock structures of another arrangement with respect to which the streams manifest no sympathy. Also called superposed or epigenetic drainage.—Minor drainage, deep or thorough drainage as opposed to arterial *drainage (which see).—Mole drainage, drainage with mole *drains (which see).—Parallel drainage. Same as

drainage

thorough *drainage (a).—Sink-hole drainage, the draining of land which is underlain by an impervious clay, by sinking a shaft through the latter into a bed of gravel beneath. This is Elkington's system of drainage. Also called dumb-nell and seallow-hole drainage. (Great Britain.]—Superposed drainage, Same as inherited *drainage,—Surface drainage, Graining by open furrows and ditches and naturul watercourses.—Swallow-hole drainage. (a) In apri., drainage by means of thorough see thorough, n., 1 (b)); specifically, underground drainage by any of the modern systems, including the Essex (see above). The latter was followed by a system of parallel drains, somewhat shallow and rather closely placed, devised by Smith of Deanstone; this was displaced (but only temporarily) by Parkes's system of deeper and more distant drains. Also called deep and parallel drainage. (Mainly Great Britain.) (b) In surp., drainage of a cavity by a tube which opens at the surface at two opposite points, allowing irrication and drainage of the cavity without disturbance of the dressings.—Tile drainage. See drain-tiles, under tile!.—Underground drainage, drainage by any system of closed drains; underdrainage. Underground drainage secures the benefits of drainage in the highest degree and escapes the disadvantages of surface drainage.

drainage-area (drā'nāj-ā'rē-ā), n. The entire basin drained by a river and all its tributaries.

drainage-level (drā'nāj-lev"el), n. A nearly horizontal tunnel in a mine or other underground working to receive and gather the water from upper levels, so that it can be

ground working to receive and gather the water from upper levels, so that it can be

numped out.

drainage-way (drā'nāj-wā), n. A drain or drain-way; a drainage-channel. drainer, n. 3. A vessel or bag in which moist

substances are put to drain.

draining (drain-ing), n. The drawing or running off of water, especially the artificial removal of water from land by surface or underground channels; drainage. Different methods are known, as bush draining, furrow draining, mole draining, plug draining, thorough draining, tile draining, etc. See *drain and *drainage.* drain-tube (drain'tūb), n. A drip-pipe; a pipe for draining the water from the cylinder of an

engine or a pump.

drake², n. 4. (b) Any one of several pseudoneuropteroas insects used as bait by fishermen, especially certain May-flies. Ephemera danica and E. vulgata are known to English fishermen as the green drake and the gray drake.—5. A man-of-war of the Vikings.

Marryat. N. E. D.

dram² (dram), v. t.; pret. and pp. drammed, ppr. dramming. [dram, n.] To ascertain the fineness or size of by dram weight, as of a silk

thread or varn.

dram. An abbreviation of dramatic and dramatist.

dramaticism (dra-mat'i-sizm), n. [dramatie

+ -ism.] Dramatic character or quality.
dramaturgic, a. 2. In anthrop., bringing
about effects by means of a dramatic performance, as in cases where a myth is dramatized with a view of bringing about the events the origin of which is accounted for in the myth. F. H. Cushing, in 13th Rep. Bur. Ethnol., p.

drammage (dram'āj), n. [dram + -age.] The weight in drams of 1,000 yards of a raw-silk

thread.

dranu (drä'nö), n. [Fijian name.] In the Fiji Islands, the giant taro, Alocasia Indica, the starchy root-stock of which is eaten by the natives in times of searcity, though it is very acrid and often causes sickness. See *piga.

drap d'été (drä'dā-tā'). [F., 'summer cloth.'] A fine woolen fabric for summer dresses.

Draper's actinometer, law. See *actinometer,

drapery (drā'per-i), v. t.; pret and pp. draperied, ppr. draperying. [drapery, n.] To drape; cover with draperies.

And then her dress—what beautiful simplicity Draperied her form with curious felicity. Bgron, Don Juan, xvl. 102.

394

To pull by means of a hook or similar device draw-iron (dra'i''ern), u. (threads of warp) through the heddle eyes of a loom. - 33. In organ-playing, to pull out (a stop-knob) so as to cause a certain set of pipes draw-kiln (dra'kil), n. A lime-kiln so conto sound.—34. In cotton-spinning, to lengthen structed that the burned lime is drawn at the and attenuate (the sliver or roving) by drawing it between sets of rollers running at different speeds.—35. To make (wire, piping, or tubing) by drawing a piece of metal through successively diminishing holes in perforated successively diminishing fioles in periorated plates.—To draw stumps, in cricket, to close a match finally, or for the day, by pulling the wickets from the ground. R. H. Lyttetton, Cricket and Golf, p. 114.—To draw to the ear, in archery, to draw a bow so fully that the drawing hand is as far back as the archer's ear: a fault which makes against accurate shooting.

II. intrans. 13. In poker, to diseard part of the original hand and draw an equal number

of cards so as to improve the value of the combination held. — 14. In agri., to effect drain-

age; to draw off water.

A drain, in the language of farmers, is said to draw, which means that it renders the land dry on either side to a certain distance. Low, Pract. Agr., p. 268.

15. In salt-boiling, to take out from the pans the salt as it crystallizes and set it aside to drain .- 16. In cricket, to turn the ball past the leg-wicket, by allowing it to glance off the bat and pass between the wicket and the body.

—To draw away, in ericket, to shrink away from a hall howled at the legs: said of the batsman.—To draw level, in ericket, to equalize a score.—To draw up. (e) To assume an erect or stiff attitude: used reflexively: as, she drew (herself) up disdainfully. (f) To come up with; gain out an extraord. on an opponent, as in racing.

-12. A depression in the laud through which surface-water flows after rains; a basin-like

One of the characteristic inhabitants of draws and low meadows . . . is Vernonia gigantea.

F. E. Clements, Phytogeog. Neb., p. 307.

13. In hort., the sprouts or shoots that spring from the tuber of the sweet-potato when it is from the tuber of the sweet-potato when it is placed in a seed-bed and by means of which the plant is propagated.—14. In organ-building, same as draw-stop. [Colloq.]—Continuous draw, in archery, a style of shooting in which the string is loosed and the arrow discharged immediately upon the completion of the draw, without the usual pause.—Sand draw, a channel filled with sand overlying a subterranean stream; also, the stream itself.

A sand draw is a subterranean stream. On the surface is seen only a broader or narrower band of pure sand, marking the channel.

P. A. Rydberg, Contrib. U. S. Nat. Herb., 111. 470.

Spread draw, in billiards, a stroke by which the cue-ball rebounds from the object-ball at an angle more obtuse than that of the direct draw. It is not always possible to say where the spread ends and the draw begins.

say where the spread ends and the draw begins, draw-bowl (dra'bol), n. One of two wooden rollers, of cylindrical form, running in contact

draw-box (drâ'boks), n. In cotton-manuf., a set of three or more pairs of rollers attached to combing- and certain other machines for

attenuating, or drawing out, the sliver. draw-cock (drâ'kok), n. A drain-cock; a petcock; a valve for draining water out of an en- Dr. Chem. An abbreviation of Doctor of Chem-

gine-or pump-cylinder. lrawer, n. 6. One who draws warp-threads

drawer, n. 6. One who draws warp-threads through heddles, preparatory to putting them into the loom.

draw-game (dra'gām), n. A game of dominoes in which the player may draw from the bone-

The construction used in automatic ear-couplers. The hook so the two draw-bars pass each other snd are locked together by powerful a horizontal plane, although many efforts have been made drevely flow, n. [Northern Eng. form of drove.] 1. A fishing trip in which the members of the crew go as sharesmen, each supplying a net and receiving a share of the profits.—2. A haul. N. E. D.

Dravidian architecture. See Indian architecture, under Indian.

dravite (drav'it), n. [F., Drave. G. Indian architecture, under Indian.

dravite (drav'it), n. [F., Drave. G. Indian architecture, under Indian.

river of Tyrol, Carinthia, etc., one of the tributaries of the Danube, $+ -ite^2$.] A brown to black magnesian variety of tourmalin, found in the Drave district in Carinthia.

draw, v. I. trans. 31. In golf, to 'pull' (a ball); to cause (it) to curve to the left.—32.

The drawing wire, to seize the stock and pull it through the hole in the draw-plate.

drawing-ring (dra'ing-ring), n. In archery, a ring worn on the thumb of the drawing-hand by tribes which use a thumb-loose to catch and pull back the bowstring.

A swaged iron rod fitted with a forged shackle near the branched end, used for attaching shafts to sleighs.

bottom. N. E. D.

drawn, p. a. 7. Abnormally tall and slender
because of too much crowding and too little
sunlight and air: said of a plant, particularly
a seedling. Badly drawn plants are of little a seedling. Badly drawn plants are of little value.—Drawngame, in chess, a position in which the game is even or the advantage on one side too slight to secure victory. A draw may also be arrived at by perpetual check, by stalemate, or by failure to mate strenaving received notice to mate within fifty moves. Of late a draw counts half a point in a tournament.—Drawn glass, glass which has been pulled and stretched when heated.

draw-pit (drâ'pit), n. A pit in a furnace for the reception of the exhausted ore.

draw-plate, n. 3. A transverse plate connecting the side-frames in a locomotive and forming

ing the side-frames in a locomotive and forming part of the framing to which the draw-bar is attached.—Diamond draw-plates, thy flat plates made of diamonds which are drilled with minute holes, sometimes as small ss the thousandth of an inch, for the purpose of drawing platinum, gold, iron, or copper wire. draw-rod, n. 2. A straight rod with a thread and nut at one end and an eye and thread and

nut at the other, used to secure the draw-bar

of a sleigh.

draw-shave (dra'shav), n. A surgical instrument resembling a drawing-knife, with a single long handle, used to remove thin slices of tissue or pathological growths from the interior of a cavity.

draw, n. 11. In poker, the second part of the draw-sheet (dra'shēt), n. In hospitals, a wide deal; the filling of the hands after discarding. sheet so disposed on the bed that it can easily be drawn from under a patient who is ly-

ing upon it.

valley convertible into an irrigation-reservoir draw-shot (drâ'shot), n. In billiards, a shot by damming its outlet. center, so that after hitting the object-ball it comes back toward the player; a draw. Drawshots are live or dead according as the euc-ball, for the sake of position for the next shot, is returned fast or slow.

draw-skid (drâ'skid), n. Same as *brow-skid. draw-stroke (drâ'strōk), n. In cricket, the stroke of the bat by which a draw is performed.

Hutchinson, Cricket, p. 318. draw-table (drâ'tâ'bl), n. A draw-bench; a machine for drawing metal rods or tubes through a die to reduce them to a particular form and size.

draw-tube (drâ'tūb), n. One of the overlapping movable tubes of a field-glass or telescope. drax (draks), n.; pl. draces (drā'sēz). [Gr. $\delta \rho \delta \xi$, a handful: akin to $\delta \rho a \chi u \dot{\eta}$, a drachm: see drachm, dram, drachma.] In the nomenclature of the spicular elements of sponges, a tuft of monaxial filaments.

dray^I, n. 3. In forestry, a single sled used in dragging logs. One end of the log rests upon the sled.

with each other for the purpose of drawing dray¹, v. t.—To dray in, to drag logs from the place cloth from a bleaching-keir.

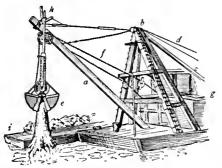
dray-road (drā'rod), n. In lumbering, a narrow road cut wide enough to allow the passage of a team and dray; a drag-road.

Dr. Bot. An abbreviation of Doctor of Botany, a European degree.

istry, a European degree. Also Ch. D.

dream¹, n.—Waking dream, in psychol., a dreamlike or visionary state, occurring in the wishing life. It may be of all degrees, from the vivid visual imagery of normal reverie ('day-dreaming') to the hallucinatory state of the cestatic.

dreamer, n. 5. pl. See the quotation.



Clam-shell Dredging-machine

a, pivoted boom; b, "A" shape frame; c, stiff leg supporting frame; d, guy-rod; e, clam-shell bucket, lifting tree-stump; f, chaios lifting bucket and controlling its operation; g, powerhouse; h, guide-poles; i, spoil-boat.

machine consisting essentially of a strong flat-bot-tomed boat upon which are boilers and engines for handling a derrick erected at the bow of the boat. The derrick has a massive boom at the bow of the boat. The detrick has a massive boom which supports a shovel or dipper resembling the scoop of a steam-shovel. The dipper is lowered to the bottom of the water, and, hy means of chains, is dragged through the mud or sift until it is filled; it is then raised from the water, and the boom is swung to the right or left, over the bank or over a scow, and ita contents are discharged. Since the boom swings in a half-circle in front of the boat, the machine can dredge out a channel equal in width to the diameter.—

Hydraulic dredging-ma-Hydraulic dredging-ma-

in width to the diameter.—

Hydraulic dredging-ma
chine, a dredging-machine

which employs a rotary

pump and hinged suctionpipe. The end of the suction-pipe is let down into

the water until it rests upon

the sand. A jet of water

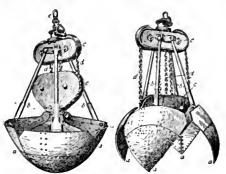
through a hose, or some other mechanical device is

employed to loosen the sand, and the mingled sand
and water are drawn up through the suction-pipe and
forced into a discharge-pipe. The latter may be a long
fexible pipe supported on boats on floats and extending

over the water for a mile or more to the shore. The

water running back and the sand remaining on the shore. The

sand forms about 20 per cent. of the discharge, but so
large is the pipe and so rapid the flow that the machine
has great espacity, excavating and delivering great quantities of sand in an hour. In the larger machines of this
type the discharge is turned directly into hoppers in the
hold of the sea-going vessel in which the machine is carried. The water escapes through gates, and when the
vessel is loaded with sand, it proceeds to sea and discharges it in deep water.—Orange-peel dredging-



Bucket of Orange-peel Dredging-machine.

a, leaves of bucket; b, arms supporting leaves, pivoted at top and bottom; c, mechanism controlling operation of leaves; d, chains controlling leaves; e, lifting-chains. Compare movements of parts as shown in open and closed position in two cuts.

machine, a dredging-machine having a hucket which is divided into four parts which resemble the skin of an orange divided into quarters.— Vacnum dredging-machine which employs a vacuum, made by condensing steam in a suitable reservoir, in place of a pump to raise the mingled sand and water. Not in the stage of a pad or cushion, intended to give the desired curve to a woman's bins and back.

dredging-pump (drej'ing-pump), n. A form dressiness (dres'i-nes), n. of pump for use in the removal of water containing sand, mud, or other solid material

dredging-tube (drej'ing-tūb), n. In a hydraulic

dreibund (dri'bunt), n. [G., ⟨ drei, three, + bund, alliance: see *bund².] A triple alliance.

See. specifically, Triple Alliance, 3, in Century Cyclopedia of Names.

dreikanter (dri'kän-ter), n. pl. [G., 'three-cornered things.'] Angular and prismoidal pebbles whose flat faces have been cut by wind-blown sand. They sometimes closely resemble artifacts, for which they have been mistaken. Nature, bec. 10, 1903, p. 143.

drenching (drench'ing), n. 1. The act of soaking or covering with water; a thorough with the state of the state

wetting.—2. In vet. med., a dose of liquid medicine; a drench.

drenching-bit (drench'ing-bit), n. An appliance with a mouthpiece like that of a bridlebit, used for administering medicine to horses. The mouthpiece is hollow and has an opening midway between the ends; connected with it is a funnel.

Drepanaspis (drep-a-nas'pis), n. [NL., \langle Gr. $d\rho \dot{\epsilon} \pi a r o r$, a sickle, $+ \dot{a} \sigma \pi \dot{\epsilon} \varsigma$, a shield.] A genus of ostracoderm fishes having the armor of the head more or less completely fused into large plates, the caudal region short, with small

plates and heteroeereal tail.

Drepanididæ (dre-pa-nid'i-dē), n. pl. [NL., Drepanis (-id-) + -idæ.] The Sandwich Island honey-suckers of the genus Drepanis and related genera, considered as forming a distinct family of birds. They have curved, slender bills and extensile tubular, brushy tongues. See eut under Drepanis.

See cut under *Drepams*. **Drepanidiidia** (dre "pa-nid "i-id'i-ä), n. pl. [NL.] A suborder of *Hæmosporidia* which infect the blood-corpuscles of amphibia, reptiles, with Apustomoridia. and birds: contrasted with Acystosporidia. They are small unimcleated, gregarine-like organisms found in the red, rarely in the colorless, corpuscles. Destroying these, they are then liberated freely into the plasma. Later they pass through other changes, involving encystation in the red corpuscles, then fission, and migration into new cell-hosts.

migration into new cell-hosts, dress, r. t. 11. In reg. pathol., to treat (grain and other seed) with hot water, formaldehyde solution, or a similar fungicide, for the purpose of destroying the spores of smut and other plant-diseases.—12. In *milling*, to clean and refine (flour); free (flour) from bran by pass-

ing it through bolters. See milling. dress, n. 7. In printing, a set of types with their appurtenances; also, their arrangement and their general appearance in print.

In consequence of this, a large number of small printing shops sprang up in obscure places, being generally known as "holes." These shops often used secondhand and worn-out dresses of type, and, operating secretly, produced pamphlets and small books of a very poor grade.

Census Bulletin 216, June 28, 1902, p. 52.

Fancy dress, an unusual dress or costume that is imagined or intended to represent that of some historical or fictitions type or person. Sometimes used attributively: as, a fancy-dress ball.

dresser1, n. 6. A mandrel having a round tep face, used by blacksmiths in forging the forked ends of connecting rods.—Emery-wheel dresser, a hand-tool for truing and dressing worn, eccentric, or ill-balanced emery-wheels.

dresser², n. 3. A dressing- or toilet-table. dressership (dres 'er-ship), n. [dresser + ressersing (ores: er-snip), n. [aresser + -ship.] In a hospital, the office of a dresser, a medical student or young physician whose duty is to dress wounds, uleers, etc.

Re [Sir James Paget] had been too poor to afford a house-surgeoncy, or even a dressership.

Encyc. Brit., XXXI. 406.

dress-form (dres'fôrm), n. A frame, sometimes of wire, in the form of a woman, used in making dresses. Such forms are sometimes capa-ble of being expanded and contracted, according to the proportions of the woman for whom the dress is fitted.

dress-guard (dres'gärd), n. 1. A removable cover designed to be placed over the rim of a earriage-wheel to prevent the garments of persons who are entering or leaving the earriage from coming in contact with the wheel.-2. A similar guard placed ou the wheels of a

hips and back.

Fondness for dress orfashionable dress; modishness; stylishness. [Collog.]

dressing-forceps (dres' ing-for seps), n. fereeps with pivoted blades and seissor-like handles used for grasping lint, drainage-tubes, etc., in dressing a wound.

dressing-machine, n.-Box-dressing machine, a planing-machine which employs reciprocating planes moving between vertical guides, used to finish the corners of packing, boxes after they have been put together by a boxnailing machine (which see, under *nailing-machine).

dressmakery (dres'mä"kėr-i), n. A dressmaking establishment; a dressmaker's business.

She also gave her an insight into details . . . concerning the conduct of a dressmakery.

W. Besant, All Sorts and Conditions of Men, viii.

dressmaking (dres'māk"ing), n. The occupa-

tion of a dressmaker.

dress-preserver (dres'prē-zer"ver), n. A leather-covered iron frame extending from the step of a carriage upward over the rim of the wheel, designed to prevent mud or water from being thrown into the carriage.

dress-suit (dres'sūt), n. A gentlemau's evening elothes. [Colloq.]—Dress-suit case, a flat, thin traveling-bag, intended originally to carry a gentleman's dinner or evening dress.

drias (drī'as), n. [Origiu ebscure.] The deadly carrot, Thapsia Garganica. See cut under Thapsia.

dribbler, n. 2. In foot-ball, one who 'dribbles,' or kicks the ball lightly along the ground. See

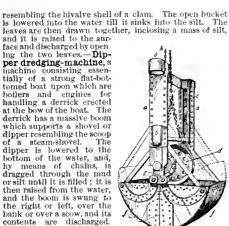
dribble¹, v. t., 3.
driblet-cone (drib'let-kon), n. A cone produced by the ejection of drops of molten lava or fragments of but partly solidified lava to no great height, so that they fall back still viscous and adhere to the surface wherever they

A driblet-cone has no crater, but simply a hole for the projection of lava in small liquid masses, drops, driblets, or worm-like streamlets. Dana, Manual of Geol., p. 271.

driery (drī'er-i), n. A drying establishment: as, a peach or an apple driery. Also spelled dryery.

(b) The flow of a current. The amount by which a ship is drifted by the action of a current, wind, or sea. (d) The place in the sheer where the rails are cut off. -11. (b) A conical steel pin used by riveters or fitters to drift or force two holes not quite in line with each other, so that the openings will coincide and let the rivet or bolt pass through.—17. (a) A set of fishing-nets. (b) A drift-net. (c) The eatch of fish taken in a A drift-net. (e) The eatch of fish taken in a drift-net.—18. In turpentining, a subdivision of the crop, usually 2,100 boxes or cups.—19. In oceanography, a broad and shallow current which advances at a rate of ten or fifteen miles a day, like that which crosses the middle North Atlantic. W. M. Davis, Elem. Phys. Geog. - 20. In aëronauties, the tendency of an object supported in the air (as a kite or a bird) to move in the direction of the air; opposed to lift or the ascensional force. H. S. Maxim, in The Aeronautical Annual, 1896, p. 50. to lift or the ascensional force. H. S. Maxim, In The Aeronautical Annual, 1896, p. 50.—
Dead-reckoning drift (nant.), the determination of drift by dead-reckoning. When a ship is hove to under sail she will come up and fall off, and the middle point hetween is considered the compass-course, to which must be applied the leeway, variation, and deviation, in order to obtain the true course, or the true drift of the vessel. The speed of the ship on this drift is determined by the patent-log.—Drift of a projectile, deviation of a projectile from the plane of fire, caused by the rifling of the gun.—Drift of zero. See *zero.—Eskar drift, coarse gravel and shingle in banks. R. M. Johnston.—Extra-morainic drift, glacial debris occurring outside of the area actually occupied by the ice. R. D. Salisbury, Geol. Surv. of New Jersey, 1892, p. 61.

—Lower terrace drift, gravels and shingle in terrace occurring in Tasmania and Australia. R. M. Johnston.—Overwash drift, the material which is washed out from the front of a glacier. R. D. Salisbury, Geol. Surv. of New Jersey, 1893, p. 150.—Preglactal drift, loose sand or gravel lying beneath the till, in Ireland. G. H. Kinahan.—Quartz drift, a drift containing quartz fragments as a prominent constituent of the loose rock-mantle. Science, March 15, 1901, p. 407.—Ripple drift, the process by which a moving current of water produces ripples upon the sand of its bed and thus leaves a record of its direction. Geikie, Text-book of Geol., p. 255.—River drift, the gravel deposits accumulated by a river in its torrential stages.—Rubble drift, a coarse agglomeration of angular debris and large blocks set in an earthy matrix. The fragments are of local type and the deposit of glacial or fluvioglacial origin.



Bucket of Clam-shell Dredging-machine.

machine.

a, frame supporting shells; b, socket for guide-poles; c, guide-way for arms supporting shells; d, mechanism for operating shells; c, chain controlling d'; f, hivalve shells, in closed (loaded) position; open position shown by dotted lines; g, pivots supporting shells; h, lifting-chain.

drift, v. t. 5. To drive: specifically, to drive by striking a set, pin, or block placed against the object to be driven.—6. To enlarge or shape a hole by the use of a drift-pin.

drift-angle (drift'ang gl), n. 1. In naval arch. the angle between a tangent to the circular path of the center of gravity of a vessel, when turning under the influence of the rudder, and the central longitudinal line of the vessel.—2. The angle by which the direction axis of the bore of a gun deviates from the true direction in order to compensate for the drift of the

drift-bed (drift'bed), n. In geol., a layer of drift of sufficient uniformity to be distinguished from associated ones of similar origin; a driftstratum.

drift-boat (drift'bot), n. A boat used for put-

drift-boat (drift'bot), n. A boat used for putting out and taking in a drift-net.
drift-bottle (drift'bot'l), n. A bottle used for the same purpose as a *drift-eask (which see).
drift-cask (drift'kask), n. An empty eask elosely sealed, usually furnished with a pole and flag, numbered, lettered, labeled, and tagged, set adrift in some part of the ocean, to be observed from time to time by passing vessels, as an aid in the study of ocean-currents. If it is found east upon the shore, the inclosed tags, or labels, or eards are sent to the nearest hydrographic office. See *drifter.

drift-deposit (drift'de-poz"it), n. Any accumulation of glacial origin; glacial or fluvioglacial deposit. J. Geikie, The Great Ice Age, p. 724. drifter (drift'er), n. One who or that which drifts; specifically, a eask, buoy, float, or other light object, properly labeled and tagged, and allowed to drift freely in the ocean to determine allowed to drift freely in the ocean to determine oeean-currents. When the surface of the drifter above the water is intentionally made large, relatively to the immersed portion, the drift is due principally to the influence of the surface-winds. When the drifter is not exposed to the wind it shows the influence of the ocean-currents either at the surface or at a considerable depth, depending upon the depth of the layer in which it floats. This may be regulated to some extent by an arrangement similar to that of the Cartesian and Florentine divers. Drifters are set affoat in all parts of the ocean, and their paths are shown on the monthly pilot-charts, together with the paths of derelicts.

Excellent use has here been made of "drifters," or floats. supplementing the temperature and salimity observations. On the voyage from Iceland to Jan Mayen in 1396 twenty drifters were thrown overboard.

Geog. Jour. (R. G. S.), XV. 275.

drift-filled (drift'fild), a. Filled with drift: the condition of preglacial depressions, which were crossed by the great ice-sheet and filled with its morainal deposits.

A paper on the "Drift-filled and Post-glacial Glena of Ayrshire." Geog. Jour. (R. G. S.), XVIII, 83.

drift-fish (drift'fish), n. pl. Fish taken with a

drift-net. N. E. D.
drift-fisher (drift'fish#er), n. One who uses a drift-net; one who is engaged in a drift-fishery. drift-fishery (drift'fish"er-i), n. A fishery in thick drift are new red which drift-nets are used.

drift-keel (drift'kel), n. Same as bilge-keel. drift-map (drift'map), n. A map showing the distribution of various glacial and glaciofluvial deposits, generally called drift. drift-peat (drift'pēt), n. A peat deposit associated with or imbedded in glacial drift.

The ancient alluvia with their arctic flora must be older than the drift-peat and timber that underlie the carse deposits of the 45 to 50 foot level.

J. Geikie, The Great Ice Age, p. 308.

drift-piece (drift' pēs), n. See drifts in the sheer draft, under draft.—Ordnance drift-piece, an attachment to the rear sight of a gun, by means of which compensation for the drift of the projectile, caused by the rifling of the bore, is made.

drift-pin (drift'pin), n. A steel pin having a slight to traver professible layered; in dismostrate

slight taper, preferably largest in diameter at about the middle of its length and tapering toward the ends: used in ship-building and structural work to force the punched holes in the material into line, so that a rivet or bolt can be inserted.

can be inserted.
drift-way (drift'wā), n. In stock-raising, a right of way across neighboring land.
dril, drild. Simplified spellings of drill, drilled.
drill, n.—Calyx drill, a core-drill having a revolving cylindrical serrated cutting-tool. In soft rock, the cutter is used alone; in hard rock, chilled-steel shot are nsed as abradants. A stream of water is delivered to the cutter through the hollow drill-rod and, as it is under pressure, it sweeps the chips and stone-dust upward in the annular space between the outer easing of the drill-rod and the sides of the hore-hole. The rising stream of water and chips soon reaches the top of the short casing and here the current, having more room, slackens and the stone chips fall into the open top of the casing or calyx. The calyx, with its contents, is lifted out of the hole with

the tools, and the core is broken off and raised as with any form of core-drill.—Half-round drill, a form of boring- or perforating-tool for metals in which the cutting edge is made at the end of a bar of semi-cylindrical section or half-round rod. The flat part makes a channel up through which the borings may pass.—Oil-tube drill, a twist-drill in which is cut a slender channel, following the twist from the shank to the point, which is used to convey afine stream of oil to the cutting-point and to eool and lubricate the tool: used in boring deep holes in steel. It can be used in any form of boring-machine.—Paddy-drill, a well-boring drill with expanding cutters.—Percussion-drill, the ordinary drill for handwork on rocks, which is struck by a sledge, or, where it is massive, is lifted up and allowed to fall into the drill-hole.—Pillar-drill. Same as pillar drilling-machine for steel or other metals, usually portable, and driven by compressed air. The motor in the body of the tool has a rapid rotary motion, geared down to the slower speed desirable for the cutting edges of the drill proper.—Pump-drill, a rock-drill in which the bar or shank is raised and lowered by a lever-action like a pump-handle. The descent of the bar causes the cutting hlow of the bit at its lower end. The bar is turned continually as it rises and falls.—Sensitive drill. See *drilling-machine.—Setting-up drill, a drill for metal which cuts at its sides rather than at its end; hence, if the work is fed crosswise to the axis of the drill, a long slit or slot will be cut.—String-drill, a form of drill for light work in which he holded or or shank is caused to revolve by a round turn of a piece of cord or by foot-treadle. For jewelers use, the ends of the cord may be attached to the ends of a bow, making what is caused to revolve by a round turn of a piece of cord or by foot-treadle. For jewelers use, the ends of the cord may be attached to the ends of a bow, making what is called a bow-drill.—Wimble-drill. (a) A drill which bores by means of t

as is ordinarily turned by hand.

drill-bone (dril'bōn), n. A bone which sometimes develops in the deltoid muscle in soldiers: supposed to result from irritation caused by the pressure of the musket.

drill-clamp (dril'klamp), n. A portable frame for holding a drill, having, usually, a serew for feeding the drill; a portable drill; a frame for a ratchet-drill. This frame is often called in American shops an old man.

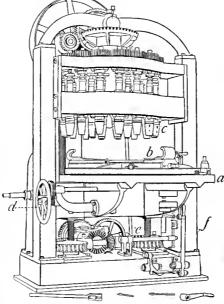
drill-core (dril'kōr), n. Same as core1, 2 (i).

drill-extractor (dril'eks-trak"tor), n. A device, used in drilling tube-wells, by which the drill-rod or -bit can be drawn up out of the tube in case of breakage; a drill-tongs.

tube in case of breakage; a drill-tongs. drill-grinder (dril'grin"der), n. A grinding-machine for forming different kinds of twistdrills and other drills.

drilling-clip (dril'ing-klip), n. A frame or holder to force a drill against the service-pipe for gas or water when the latter is to be drilled and tapped to connect a new service-outlet.

drilling-machine, n. Specifically, a power-machine of the first class, employed in drilling small holes in metals. Small machines and all hand-power machines used for this purpose are often called drills, as the radial

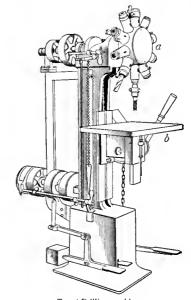


Multiple-spindle Drilling-machine.

a, traversing and partly rotating table; b, self-centering chuck; spindles (24), drilling tools not shown; d, wheel controlling travec of table; e, feed mechanism; f, control. About 16 feet high.

drill (which is properly a radial drilling-machine). When the diameter of the boring-tool (drill) exceeds two inches the machine is properly a boring-machine. All machines for boring holes in wood are called boring-machines. See $\star boring-machine$ and boring-mill. The essential features of the machine are a rotary spindle carrying the cutting-tool, a table for holding the work, and a suitable frame

uniting these features into a complete machine. Drilling-machines are often named after the things on which the work is to be done, as arid-arrilling machine, etc. Drilling-machines, when of superior construction, with great refinement of adjustment in the moving parts, are said to be sensitive; hence, the term sensitive drill, that is, one highly responsive to delicate and rapid adjustment. The drilling-machine is sometimes used also for other work, by employing tapping- and milling-cutters on additional spindles, as in the drilling, tapping-, and milling-machine.—Boring-and-drilling machine. See *boring-machine.—Gang drilling-machine, a drilling-machine having from two to ten spindles placed in a row above the work-table, each supported by a fixed column or frame. The spindles may all earry the same style of drill or different ones, according to the requirements of the work, and may be used in turn, or all at once.—Multiple-spindle drilling-machine, a drilling-machine having four or more spindles. Two principal types are in use. In one, the drill-heads which carry the spindles are supported on a cross-rail and are adjustable to any position, or at any angle on the cross-rail; in the other, the spindles are arranged in groups shout a center, with adjustment along the radius of the circular group.—Turret drilling-machine, an upright drilling-machine, with a disk sup-



Turret Drilling machine. a, revolving turret with ten spindles, two shown with tools; δ , table with vertical traverse and feed.

porting four or more radial spindles and having a rotary motion, under the control of the operator, whereby each spindle, with its special drilling, reaming, or other boring-tool, can be brought in turn to the work, thua making it possible to perform a series of operations upon the same piece without removing it from the table.—Upright drilling-machine, the most common and generally nseful of the single-spindle drilling-machines. The spindle has a feed-motion, an automatic stop to control the depth of the hole, and a quick return in withdrawing the tool. The table is adjustable to the work and there is often a lower or floor table, the upper table awinging out of the way when this is nsed.

drilling-twill (dril'ing-twil), n. Same as drilling-twill (dril'ing-twil),

drill-pin (dril'pin), n. In a lock, the projecting pin that serves as a guide for a hollow key. drill-ship (dril'ship), n. A practice-ship; a ship for the instruction of cadets; a vessel employed for teaching the rudiments of seamanship, navigation, gunnery, and marine engineering.

drill-templet (dril'tem"plet), n. A templet or jig in which the holes to be drilled in the work A templet or are carefully laid out as to location and relative distance and hardened steel bushings are inserted at these points. If the drill is inserted through these bushings and the templet firmly clamped to the work the drill will bore all the holes exactly in the same relations to each other, in every piece.

drill-tongs (dril'tôngz), n. 1. A tool for gripping and extracting the drill-rod when the latter has been broken in the bore of a well and

ther has been broken in the bore of a well and has fallen to the bottom.—2. A drilling-or boring-tool with one jaw which can go behind or below the object to be perforated, while the bit is on the face or end of the other jaw, so that closure of the jaws eauses the bit to ad-

vance and make the hole.
drill-yard (dril'yard), n. In railroading, a special yard for receiving, classifying, and for-warding freight-ears; a division or junction yard, as opposed to a freight, storage, waystation, or terminal yard. It is divided into three-parts: the receiving-yard, where the arriving trains are received; the classification-yard or car-sorting yard; and the forwarding-yard, where departing trains are made-up. The classification-yard is many times larger than the receiving- or the forwarding-yard and is always placed. between them, in a continuous line, so that all movements of cars shall be progressive or in the direction of their tracks all connected by switches with the main-line tracks all connected by switches with the main-line tracks, and it always includes tracks leading to the roundhouse carlyard, etc., storage-tracks for caboses, and cripple the engine and crew are dismissed and the train is delivered to the yard crews. Drille-naines then proceed to rearrange the ears of the crim. The caboses is ent to its ward to the classification-yard. This yard comists of large number of parallel tracks joined together by disgonal tracks, are the factors of the carlot of the proper tracks and the header than the neighborhood. In this chassification process all injured, damazed. or unsafe cars, called cripples, and read of the neighborhood in the header to proper track. This implies the header than the neighborhood in the place by the own momentum, the remaining cars being in a swip who, along the ladder, resulting one are at a time, the first, second, etc., into its proper track. This implies the proper track. This implies the proper track and then to employ a second drill-engine, move the development of the engine of the end of the proper track. This implies the proper track and then to employ a second drill-engine, move a proper track. This is done by placing on a track parallel with the ladder. to go one car as a time into its proper track and the to employ a second drill-engine, move backward and each car moves continuously forward. These two methods are used where the car slong round it has sufficient mental nor mental responsibility of the proper track. This implies the cars slong round it is a sufficient proper track. The fourth method where the car slong round it is a sufficient proper track. The fourth method where the car slong round it is a sufficient proper track. The fourth method where the car slong round it is a sufficient proper track that the respective proper track that the respective proper track that the res

and melts at about 256° Č.

drimol (dri'mōl), n. [Drim(ys) + -ol.] A colorless compound, $C_{28}H_{58}O_2$, found in the leaves of $Drimys\ Winteri$. It crystallizes in needles, melts at 73-74° C., and boils without

decomposition.

drinking-song (dring'king-sông), n. A song suited to convivial gatherings, or where toasts

are drunk.
drip, n. 6. In meteor., the drops of water which fall from leaves and other objects which are enveloped by clouds or fog, or covered with dew. In some locations, such as the summit of Green Monntain, in the Island of Ascension, the cloud-drip is the only source of water for plants and animals. The fog-drip on the California coast is also Important.

7. An inclined wooden platform, used in the manufacture of salt, for draining the salt before it is conveyed to the storehouse .- 8. A deposit formed from dripping water, as stelactites in caves.—9. In hort., the water that drips from the sash-bars and other roof-strueture of a glass-house. The true drip is due to the water of condensation, although the term is also applied to the water of leakage

dripcock (drip'kok), n. A waste-valve or releasing-valve nsed in hydrants. See *hydrant-

drives the machinery of a factory, or any pridrip-cup (drip'kup), n. A shallow tray of tin or iron placed under a bearing or machine to eatch the dropping oil, so that it will not soil anything underneath, and to preserve the oil anything underneath, and to preserve the oil which is usually strained and used again.

drip-grooves (drip/grövz), n. pl. Channels, in bearings for machinery, in which lubricant may be caught, as it is fed in drops or collects from a splash or spray surface, and fed to the entire surface of contact between shaft and bearing.

dripping-point (drip'ing-point), n. See $\star drip$ -

1. The end of a metal rod or wire from which oil drips when it is to be used as a lubricant or when it is to be burned in some forms of internal-com-

bustion engines.—2. See *drip-tip. drip-sheet (drip'shēt), n. In med., a wet sheet from which the water (cold, cool. or warm, as the case may be) is wrung out and which is then wrapped around the naked body of a pa-

dripstone, n. 3. Same as statagmite. drip-tip (drip'tip), n. In bot., a long acuminate point of a leaf, common in regions where the rainfall is heavy, which serves to drain off the water rapidly. It occurs only on leaves with a wettable surface. Also dripping-point,

drip-valve (drip'valv), n. A valve for removing liquid which is superfluous, or undesired; specifically, a valve through which condensed steam, in the form of water, is removed from a cylinder of an engine, or any pipe carrying steam. Such water is not only inconvenient, but may become dangerous if accumulating in excess. Similar drip-valves are required to remove tar and other liquids from gas-mains.

drisk (drisk), n. [Appar. a mixture of dri(zzle) and (du)sk.] A drizzlo or drizzly mist. [New Eng.]

drivable (driv'a-bl), a. 1. Capable of being driven: as, a drivable nail.—2. Suitable for driving: as, a drivable distance.—3. Suitable for the transportation of logs: as, a drivable stream, that is, one down which logs from a

stream, that is, one down which logs from a lumber-camp may be floated and directed in their course. [North America.]

drive, v. t., 1. (e) In cricket, to strike (a ball) forcibly, so as to send it somewhere in front of the wicket. (f) In lumbering, to float (logs or timbers) from the forest to the mill or shipping-point. (g) In entom, to induce (a colony of honey-bees) to leave one hive and enter snother: usnally effected by pounding on the hive.

drive, n., 1. (f) In croquet, a roquet stroke that sends the object-ball to some particular spot. (g) In golf, the shot off the tee: nsually made with a wooden club (driver). (h) In cricket, a stroke by which a ball, nsually a half-volley, is hit somewhere in front of the wicket.

8. A driving mechanism, as of a motor-cycle or motor-carriage: used with some qualifying term as a flexible drive a green discovery.

for incorrectinger, used with some quantying term, as a flexible drive, a gear-drive, etc.—9. In lumbering: (a) A body of logs or timbers in process of being floated from the forest to the mill or shipping-point. (b) That part of bers.—Bevel-gear drive. See *bevel-gear.—Drive bridge, enchre, whist, etc. Same as progressive bridge, euchre, *whist, etc. See progressive *games.—Flying drive, In tumbering, a drive of logs of which the main portion is put through with the utmost despatch, without stopping to pick up the rear.—Union drive, a drive of logs belonging to several owners who share the expense properties. pro rata.

drive-off (drīv'ôf), n. In golf, the initial stroke

played; a drive from the teo.

drive-pipe (driv'pip), n. 1. The feed- or supply-pipe of a hydraulic ram.—2. A pipe to be driven into the ground for a driven well. A iven well. A pipe to make it pointed strainer is put on the end of the pi drive easily and also to serve as a foot-valve.

driver, n., 1. (i) A horse which is fitted to he used for driving, in distinction from one used for riding or as a drafthorse. Drivers are classed as roadsters and standard-bred or trotters, the last heing used for racing purposes. (j) In sporting phrase, s pigeon or other bird that when liberated from the trap, or finshed, flies rapidly and directly away. Contrasted with twister, (k) A wooden golf-cluh with which the ball is driven from the tee. Also play-club. See cut under golf-club.

Ariver-hrake (driver-hrak). n. A brake an-

driver-brake (drī'vėr-brāk), n. A brake applied to the rim of a driving-wheel on a loco-motive. Also called driving-wheel brake.

driver-chuck (dri'ver-chuk), n. A chuck fas-tened on the head-stock mandrel which drives work that is being turned between centers.

driver-mast (dri'ver-mast), n. On a six-masted vessel, the after-mast. See *after-mast. driving-belt (dri'ving-belt), n. The belt by which an engine or other source of power drives the machinery of a factory, or any pri-

driving-chain (dri'ving-chan), n. Any form of chain used in transmitting power from a motor to a tool, machine, or conveyor, or from one part of a machine to another. It is nsu-ally made with detachable links, designed to run over sprockets, and is used in bicycles. motors, etc.

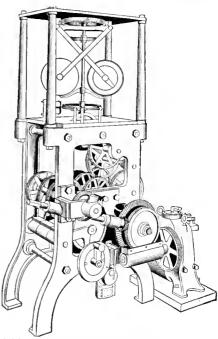
driving-cheek (drī'ving-chēk), n. A wing projecting from the face of a disk, by which analysis to represent the reother element may be made to move or to revolve; a crank which drives by pushing a follower by a flat surface.

driving-chuck (dri'ving-chuk), n. A lathe-chuck fitted with a driver for rotating the work. The chuck is usually a circular face-plate, having one or more pins projecting from its face. The name is sometimes applied to the cup-chuck, because the wood to be turned is driven into it by blows from a hammer.

driving-cleik (dri'ving-klek), n. In golf, an iron club with a comparatively straight face:

it is slightly deeper than the regular cleik.

driving-clock (dri'ving-klok), n. A form of clock which drives a mechanism or apparatus,



Driving-clock of the 26-inch Equatorial Telescope of the U. S. Naval Observatory at Washington.

as a telescope, heliostat, or chronograph, at a uniform rate which is directly related to the passage of time. Such clockwork is attached to the equatorial telescope, so that the tube shall move exactly in opposition to the motion of the earth on its axis, and the optical axis of the lenses be directed continuously upon a star. In stellar photography, calling for long exposures, the driving-clock of the telescope-tube must be of the greatest refinement and accuracy as a machine and as a timekerper.

driving-cushion (dra 'ving-kush 'on), n. wedge-shaped cushion for the driver of a carriage. It is placed on the curriage-seat, with the thin edge in front, so that the driver is held in a half-sitting

driving-flange (dri'ving-flanj), n. A flange or rim on a wheel or shaft which, by friction or by engagement, drives another part of the machine

driving-iron (dri'ving-i"ern), n. In golf, an iron club with less loft than the regular iron and a slightly deeper face.

driving-mashie (dri'ving-mash"i), n. In golf, an iron club with a small, deep face, with les loft than an ordinary mashie, and usually with a longer shaft.

driving-pinion (dri'ving-pin"yon), n. Any small toothed wheel which drives another, or from which another receives its motion. Na-

smith, Cotton Spinning, p. 213. driving-putter (dri'ving-put"er), n. In golf, a wooden putter with a straight face, used in playing against the wind.

driving-rein (drā'ving-rān), n. A rein fitted with a billet and buckle at one end for the attachment of the bit: the other end is stitched

to the hand part. driving-rod (driving-rod), n. In locomotives,

the connecting-rod; the main-rod: distinguished from the side-rod.

driving-wing (driving-wing), n. One of the arms of a double crank, or of a crank formed in the shaft to be driven, at such a distance from either end that there is a bearing for the shaft on each side of the crank. If one of the arms is lighter in weight than the other, by reason of the smaller resistance to be overcome on one side of the crankpin, the driving-wing will be the more massive arm.

drogue, n. 2. Same as dray, 1, (j).

Dromatheriidæ (drō'ma-thē'rī-1-dē), n. pl. [Dromatherium, the type genus, + idle, family ending.] A family of small mammals. comprising extinct species from the Trias and Jurassic. The type genus Dromatherium has 3 premolars and 7 molars, the dentition somewhat resembling that of the living Myrmccobius. The family is commonly considered as belonging with the polyprotodont marsupials, but it has been suggested that some of the species assigned to the group may really be anomodont reptiles. Gill. 1872.

Dromiacea (drō-mi-ā'sē-ā), n. pl. [NL., < Dromia + -acea.] A group of brachyurous crustaceans or crabs in which the fifth pair of feet, which are sometimes chelate, are carried

feet, which are sometimes chelate, are carried dorsally. The group belongs wholly to Meso-

zoic time.

dromograph (drō'mō-graf), n. [Gr. δρόμος, running, + γράφευ, write.] 1. A device for recording the rapidity of the blood-current.— 2. An instrument for recording the apparent path of anything in the atmosphere. It has a vertical cylinder on which directions in azimuth and altitude may be inscribed by pencils which slide vertically. A telescope pointing toward a balloon, a bird, a kite, or a cloud carries the pencils with it, and the record made by the latter gives the altitude and azimuth of the object at any moment. Two dromographs, with observers at stations a short distance apart, can obtain a continuous record of the movement of an object that is mutually visible. Having clocks that agree perfectly, they make time-marks every five minutes on the respective records. dromometer (drō-mom'e-ter), n. An instrument for the measurement of velocity; a speed-indicator. 2. An instrument for recording the apparent

indicator. dromometry (drō-mom'e-tri), n. The meauromometry (dry-mon e-ti), m. The measurement of speed; the use of the dromometer.

Dromornithidæ (drom-ôr-nith'i-dē), n. pl.

[NL., \(Dromornis, (Dromornith-) + -idæ. \)] A family of large, extinct birds which contains species related to the emu.

dromos, n. 3. In Gr. antiq., the shortest footrace which was just the length of the stadium, or about 600 feet. See stadium,—4. The entrance to the Mycenæau beehive tomb. See

 \star beehive tomb.

dromoscope (drō'mō-skōp), n. An instrument for exhibiting the circulation of winds around a storm-center, or for locating a storm-center when the direction of the wind is known.

dromotropism (drō-mot'rō-pizm), n. Interference with the conductivity of muscle.

The centrifugal cardiac nerves influence the frequency, the force of contraction, and the conductivity of the excitatory wave (chrono-, ino-, and dromo-tropism of Engelmann).

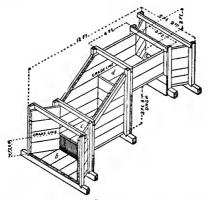
Encyc. Brit., XXXI. 733.

drone¹, n. 3. The tone emitted by the drone of a bagpipe.

drong (drong), n. A lane or narrow passage.

[Prov. Eng.] N. E. D.

[Prov. Eng.] N. E. D.
Drooping disease, n. See *disease.
drop, v. I. intrans. 10. In archery, to fall short
of the mark aimed at: said of an arrow.—11.
To show a tendency to lower the shonlders, due
to weakness of the muscles: said of a hoise.
—To drop asleep, to sink quietly into slumber; figuratively, to die peacefully, without struggle, and as if unobserved.—To drop off. (1) To become detached and
fall: as, the petals dropped off, one by one; (2) to drop
asleep; (3) die peacefully, and as if unobserved; (4)
become less regular; fail gradually: as, he began to
drop off in his visits.—To drop to, to 'tumble to'; 'catch
on'; become awsre of; begin to understand; perceive:
as, the crowd did not drop to his game for some time.
[Slang.]



a, flaring approach and submerged platform; A, flaring wings and submerged platform of outlet to ditch below drop; c, floor on the grade of the ditch below the drop forming a water-cushion; d, short flume on grade of ditch above drop.

Drobisch's spiral. See *spiral. drog (drog), r. t. To transport or carry in a droger: as, he was engaged in drogging sugar from the West Indies. N. E. D. drop, n., 9. (h) A device of timber, metal, or masonry for permitting the waters of irrigating and other canals and ditches to descend to a lower level without causing drogue, n. 2. Same as drag, 1, (j).

Dromatheriidæ (drogma-the'rī-1-dē), n. pl. drogs are usually provided with a water cushion to break the force of the fall.

15. In elect., a fall of potential.—16. A steep slope.—17. A disease of lettuce, caused by the fungus, Selerotinia Libertiana.—18. A fall or sudden vertical descent, as from a height or from a general level, either in space, or from some known position or condition, as in prices, values, temperature, etc.: as, an unexpected drop in the rate of discount; a drop in the price of steel.—19. The distance through which, or the extent to which, anything drops: as, a drop of twenty feet; a drop of ten points in copper; a drop of twenty degrees in temperature in as many hours. In tabular work, a drop-line.—21. In baseball, a ball so delivered by the pitcher that it shoots downward.—22. In tennis, a ball so struck by the racket as to shoot sharply down- drop-light, n. ward after crossing the net.—23. A patent- to a gas drop-l leather ornament, pear-shaped or of other ornamental form, used on the face-straps and hip-straps of a harness.—24. The newly born hip-straps of a harness.—24. The newly born young of animals: most commonly used in speaking of sheep.—Black drop, vinegar of opium.
—Drop culture. See *culture.—Green drops, a solution of mercuric chlorid or corrosive sublimate, colored green to attract attention to its poisonous character.—Hoffmann's drops, the pharmaceutical name for a mixture of three parts of alcohol and one part of ether: used as an anodyne, and called after Hoffmann, of Halle, who died in 1742. Also called Hoffmann's anodyne.—Knock-out drops, a powerful narcotic, such as a saturated solution of chloral hydrate in water, or a preparation of the fruit of Cocculus (fishberries): employed by evil-doers to stupefy their intended victims.—To have the drop on one. Same as to get the drop.

drop-arch (drop'arch), n. An arch lower in proportion than is usual: as, a blunt-pointed

proportion than is usual: as, a blunt-pointed arch, a segmental arch, or a three-centered

arch

drop-berry (drop'ber"i), n. The Selemen'sseal, Polygonatium, applied to P. multiflorum and P. commutatum. See Solomon's-seal.

drop-bolt (drop'bolt), n. 1. A bolt so constructed as to drop into a socket.—2. The bolt which keeps the drop of a gallows in place until the signal for its withdrawal is given.

drop-cake (drop'kāk), n. A small cake made by dropping thick batter from a spoon into hot, deep fat, or on a well-buttered pan to be baked in the oven.

drop-door (drop'dor), n. In ear-building, the gate or flap of a hopper or drop-bottom car.

drop-dry (drop'dri), a. Water-tight; proof against leaks: as, a drop-dry roof. N. E. D. drop-ear (drop'er), n. An ear that turns downward, as in certain dogs. See *drop-

drop-eared (drop'erd), a. Having ears that turn downward, but are not so long and pendulous as those of a hound: said of dogs.

drop-flower (drop/flou/er), n. Any plant of the genus Nabalus, so called from its nodding heads. It is better known as rattlesnake-root

(which see).

drop-forge (drop'forj), v. t. To shape by the impact of a falling mass or weight. Usually the shaping is done by one blow received upon the stock while the latter is held between hardened steel dies carewhile the latter is held between hardened steel dies carefully adjusted to each other, so as to hold each one half of the required shape. When the two halves come together by the fall of the weight, the stock takes both form and impress from the dies, and a finished product results, needing only trimming and polishing. Most manufactured forgings for the parts of sewing-machines, guns, bicycles, automobiles, and the like, are made by this process, and fine patterns in forks, spoons, and metal ware can be similarly produced, with great economy of labor and exact duplication of size and form. See droppress.

drop-frame (drop'fram), n. In candy-making, a hand- or power-machine for making the many forms of fruit or other drops; a fruitdrop frame. It consists of a pair of rolls engraved with forms of fruits, fishes, toys, etc., between which the sheets of candy are passed and by which they are impressed and cut into drops. The finished drops are delivered to a traveling abron and conveyed through cooling-boxes to be chilled and hardened. cooling-boxes to be chilled and hardened.

drop-gate (drop/gāt), n. A gate in an irrigation-canal operated in such a way that it can be opened by dropping a shutter.

drop-gate (drop/gāt), n. A gate in an irrigation-canal operated in such a way that it can be opened by dropping a shutter.

tion-canal operated in such a way that it can be opened by dropping a shutter.

drop-handle, n. 2. A carriage-door handle which is attached to the spindle in such a riage of the cabriclet type.

manner that it hangs down when not held in the hand.

prosophilidæ (dros-ō-fil'i-dē), n. pl. [NL., < Drosophilidæ + -idæ.] A family of acalyptrate

II. trans. 10. To lose or part with: as, to drop-hook (drop'huk), n. A harness checkhook secured to its base by a collar which allows the hook to drop to the sides.

drop-jaw (drop'jâ), n. Paralytic rabies in the dog: so called from the half-open mouth, due to paresis of the jaw muscles, which is characteristic of this form of the disease.

The dumb form of rabies is very common, and many persons know it as " $drop\ jaw$ " who have no idea of its true nature. Yearbook U. S. Dept. Agr., 1900, p. 233.

drop-key (drop'ke), n. In lock-making, a key having a hinged shank to allow the end or bow to hang down parallel to the door.

drop-leg (drop'leg), n. A vertical pipe which

carries gas, steam, or water downward from a horizontal pipe. drop-lever (drop'lev"er), n. 1. A lever hav-

ing a drop or an offset to pass an obstacle or to bring the end to any desired point .- 2. A lever that drops or swings on a pivot, used to disengage the feed or stop any part of a machine

trop-light, n. 2. An electric lamp, analogous to a gas drop-light, for table use.—3. A coachwindow that can be dropped in grooves in the framework of the coach, so as to be out of

sight.

drop-meter (drop'me"/ter), n. An instrument for measuring liquids by drops. drop-motion (drop'me"/shon), n. An arrangement on a yarn-reel by means of which two of the arms of the reel can be shortened so as to

release the hank and facilitate its removal.

dropping, n. 5. pl. The waste material which drops under a machine, as in the process of scutching cotton.

The primary impurities from each of the two processes of opening and scutching are known as the *droppings*.

Hannan, Textile Fibres of Commerce, p. 115.

6. A disease of cattle commonly known as milk fever, somewhat analogous to puerperal fever in women: so called because the cow drops to the ground when sick .- Iceberg droppings, debris deposited from an iceberg.

The results obtained by geologists, who have been studying the peripheral areas of the drift-covered regions of our continent, are such as to satisfy us that the drifts of those regions are not iceberg-droppings.

Smithsonian Rep. 1890, p. 221

dropping-flask (drop'ing-flask), n. A light glass vessel for delivering liquids by drops: also used for weighing out

liquids.

liquids.
dropsy, n. — Abdominal dropsy, ascites. — Amniotic dropsy, hydramnios. — Articular dropsy, hydranthrosis. Cardiac dropsy, dropsy consequent upon weak circulation due to heart-disease. — Dropsy of the brain, hydrocephalus.— Dropsy of the chest, hydrothorax. — Dropsy of the pericardium, hydropericardium. — Dropsy of the pericardium, ascites. — Dropsy of the pleura, hydrorachis. — Dropsy of the spline, hydrorachis. — Dropsy of the testicle, hydrocele. — Dropsy of the uterus, hydrometra. — False dropsy. Same as retention eyst (which see, under retention). — Hepatic dropsy, dropsy (ascites) due to obstruction of the flow of blood in the veins of the liver.

dropsy-plant (drop'si-plant), n. The common garden- or lemon-balm, Melissa officinalis, reputed to cure dropsy.

dropt, pp. A simplified spelling of dropped. drop-table, n. 2. A table, without legs, which is hinged to a wall. When not in use it may hang down against the wall; when in use it is propped up by one or two hinged braces or by a revolving bracket: used in boat-cabins and in small pantries.

drop-terret (drop'ter"et), n. A harness-terret attached to its base by a collar which allows it

to the plant-family Draseraceæ; pertaining or related to the sundews.

muscoid Diptera of which Drosophila is the type: commonly known as the little fruit-flies.

drosophore (dros'ō-for), n. [Gr. δρόσος, dew, + -φορος, ζφέρειν, bear.)] A device for spraying water into air to increase its humidity; a kind of atomizer.

dross, v. t. 2. To convert (lead) into dross or protoxid by melting in an oxidizing atmosphere. The operation is usually accomplished

drove² (drōv), v. t. and i.; pret. and pp. droved, ppr. droving. To follow the occupation of a drover.

drove-road (drōv'rōd), n. An ancient road or track along which cattle may be driven, but which is not kept in repair: same as drove²,

drown, v. t. 4. In phys. geog., to submerge beneath the waters of a lake or ocean: said of a valley that is thus converted into a bay by a relative change of land- and water-level. See *drowned stream.—5. In tobacco culture, to injure by long-continued rain followed by warm sunshine. The tobacco soon wilts under these conditions. Also called scald.

This to bacco was cut after belog drowned or scalded. Yearbook U.~S.~Dept.~Agr.,~1897,~p.~33.

drownd, pp. A simplified spelling of drowned. drowned (dround), p. a. That has been drenched or submerged, as drowned lands; also, that has perished by drowning.—Drowned A simplified spelling of drowned. boiler. (a) A type of sectional boiler in which the evaporating units deliver the steam formed in them into a drum or chamber below the level of the water in the latter; distinguished from a 'toamlug' boiler, in which each unit disengages from the area of its own cross-section only, or above the water-level of the steam-and-water drum.

The Belleville boiler belongs to what is called the "foaming" class. This epithet is not applied as a mark of disparagement in any way, but simply to distinguish it from the "drowned" class. The difference between the two is that, whereas in the "foaming" class the tubes deliver the steam above the water level in the large steam drum, in the "drowned" type the steam is delivered in the drum below the water line.

Sci. Amer. Sup., Dec. 27, 1902, p. 22566.

Sci. Amer. Sup., Dec. 27, 1902, p. 22566.

(b) A fire-tube upright boiler in which the tubes forming the heatlog-surface are surrounded for their whole length by the water to be evaporated, instead of projecting for part of their length above the normal water-level. This construction diminishes the tendency to leakage at the upper tube-sheet, because the tubes are not subject to such wide ranges of temperature change, and to such changes of iength relatively to the outer shell, as the fire varies in intensity or the water-level is carelessly lowered.

—Drowned level, a horizontal passage or level, as in a mine, at each end of which an upward shaft, either inclined or vertical, rises above the level of the roof. Such passage and shafts form an inverted siphon, and water gathering there fills it up, and can only be removed by pumping, as no drainage is possible.—Drowned stream, a stream whose valley has subsided until the sea, encroaching upon it, has formed a bay or estuary of its lower course. The St. Lawrence, Hudson, Chesapeake, and Delaware rivers are examples of drowned streams entering the sea. The St. Louis river flowing into Lake Superior fillustrates similar inland relationships. See *drown. 4.

drowner, n. 2. In irrigation, one who works drowner, n. 2. In irrigation, one who works

the sluices of reservoirs and side-channels, in the upper part of a valley, which flood or drumming upon the earth with the hind feet. drown meadows below, so as to afford an **drumstick**, n. 4. The tetanus bacillus, which equable distribution of water for irrigation. has a round spore at one extremity. Locally called drownder.

Dr. Phil. An abbreviation of Doctor of Phi-

drug-disease (drug'di-zēz). n. 1. A morbid use of a drug.—2. In homeopathic medicine, —3. [pl.] The marsh-marigold. use of a drug.—2. In homeopathic medicine, —3. [pl.] The wintergreen or checkerberry, the complex of symptoms noted after the admin
Gaultheria procumbens. istration of any drug for purposes of proving.

The manifestations of drug action thus produced are carefully recorded, and this record of "drug-diseases," after being verified by repetition on many "provers," constitutes the distinguishing feature of the homeopathic materia medica.

Encyc. Brit., XX1X. 312.

druggy (drug'i), a. [drug + -y1.] 1. Of or relating to drugs. -2. Being under the influence of a drug.

drug-mill (drug'mil), n. A special grinding-mill used in the mauufacture of drugs.

drum¹, n., 1. (b) The head or membrane of a banjo or similar instrument.

3M. (k) A circular box, revolved by machinery, in which skins are tanned or colored. See also *coloring-wheel. C. T. Davis, Manuf. of Leather, p. 337.

8. (b) A drummer in a military command.
12. An inflatable sac on the side of the neck posed to give resonance to the sound produced

by the wings when drumming. See *tympanum*, **drupiferous** (drö-pif'e-rus), a. [NL. drupa, 2. (c) (2).—13. An Australian bushman's drupe, + L. ferre, bear.] Bearing drupes. bundle; a swag.—14. The revolving cylinder **drusiness** (drö'zi-nes), n. The state of being of the kymograph, chronograph, or other instrument, upon the surface of which curves are drawn, time records made, etc.

The clockwork of the kymograph is wound up, and the drum swung round to its proper starting point.

E. B. Titchener, Exper. Psychol., I. i. 104.

Black drum, the salt-water drum, Pogonias chromis. See cut under drum.—Conical drum, in mining, a form of rope-drum used on hoisting-engines to equalize the variation in load due to the varying length of the hoistingrope as the load ascends or descends in the shaft. Such drums are usually double and serve two hoisting-compartments, one load ascending as the other descends.—Drum-and-cone signal. See **signal.—Drum membrane. Same as tympanic membrane.—Wash drum, a drum for washing skins. Modern Amer. Tanning, p. 81. drum1, v. t. 5. To treat in a drum, as skins. See *drum¹, n., 3 (k). Modern Amer. Tanning, p. 90.—6. In forestry, to haul (logs) by drum and cable out of a hollow or cove.

drum-barrage (drum'bär"āj), n. See *bar-

drum-beat (drum 'bēt), n. The sound of a drum.

drumbledore (drum'bl-dor), n. An imitative variant of dumbledore (a bumblebee). Compare drumble-drone. Sometimes applied figura-

tively to a person. [Prov. Eng.]
drum-dial (drum'dī"al), n. A revolving cylindrical surface on which a record is kept in a time-register. Engin. Mag., July, 1904, p. 618. Drumhead motion, the vibratory motion or wave of the head of a drum, boiler, or tank.

drum-language (drum'lang'gwāj), n. tem of communication in which certain ideas are expressed by rhythmical combinations of drum-beats. This method of signaling is found among the negroes of the west coast of Africa. Ratzel (trans.), Hist. of Mankind, II. 406.

drumlinoid (drum'lin-oid), a. and n. + -oid.] I. a. Resembling a drumlin.

Some of the principal ridges present drumlinoid profiles, while their lateral slopes were greatly over-steepened. Sci. Amer. Sup., Jan. 16, 1904, p. 23447.

II. n. A hill resembling a drumlin in shape. drumlinoidal (drum-lin-oi'dal), a. Same as \star drumlinoid.

drumloid (drum loid), a. and n. [druml(in) + -oid.] Same as *drumlinoid.— Drumloid hill, a hill having a leuticular outline similar to that of a drum-

While the drumlin type is fairly distinct, drumlins grade into hills which are not drumlins. When they become somewhat irregular in form they are sometimes designated drumloids, drumloid hills or immature drumlins. It is not certain that some of them may not be over-mature drumlins—that is, drumlins made irregular by unequal surface deposits upon regular drumlin forms.

R. D. Salisbury, Geol. Surv. of New Jersey, 1891, p. 74.

drummer, n. 4. A horse that beats the air by throwing its fore legs out irregularly as it goes. Grose. [Jockey cant.]—5. Same as drum!, 11.
—6. A local English name for a rabbit: so called on account of its habit of beating or drumming upon the earth with the hind feet.

has a round spore at one extremity. drum-tannage (drum'tan'āj), n. Tannage by means of a drum. See *drum!, n., 3 (k). C. T. Davis, Manuf. of Leather, p. 399.

losophy.

Davis, Manuf. of Leather, p. 399.

Dr. Phys. Sc. An abbreviation of Doctor of drum-wheel, n. 2. In tanning, same as *drum1, Physical Science. Also D. P. S.

Davis, Manuf. of Leather, p. 399.

drum-wheel, n. 2. In tanning, same as *drum1, n., 3(k).

drug-beetle (drug be th, n. Same as *biscuit-drunk, p. a. 3. Bent; crooked: used to detextile fabrics brought into contact with it. beetle (which see, with cut).

drunk, p. a. 3. Bent; crooked: used to detextile fabrics brought into contact with it. scribe a bent screw which imparts a sidewise drying-room (dri'ing-rom), n. A room, as in as well as an endwise motion to a nut.

drunken, p. a. 5. Producing intoxication, or used in manufacturing intoxicants, as certain plants—for example, the betel-nut, called drunken date, the darnel, called drunken ryc-

drunken-fish (drung'kn-fish), n. One of the dry-kiln (dri'kil), n. In lumbering, a kiln for trunk-fishes, Lactophrys triqueter. [West drying and seasoning cut lumber, boards, etc.; Indies.]

drunkenness, n. 3. In mech., unsteadiness, crookedness, or inequality of pitch in a screw, such that the nut either wabbles or does not advance at a constant speed.—Sleep drunken-ness, a confused mental state and muscular incoordina-tion sometimes seen in one aroused from a deep sleep.

drunkery (drung'ke-ri), n.; pl. drunkeries (-riz.) [drunk + -ery.] A place in which to get drunk; a greg-shop or saloon. [Colloq.]

of such a bird as the prairie-chicken: sup- drupal (drö'pal), a. [drupe + -al.] Same as drupaecous.

drusy; exhibiting a surface of minute crystals. Drusiness is sometimes produced by a regular deposit upon the faces of one mineral of minute sub-individual belonging to a different species.

H. A. Miers, Mineralogy, p. 86.

Drusy vein. See *rein. dry. I. a. 14. In pathol., not attended with suppuration, a fluid discharge or exudation, or hemorrhage.—Dry arch, element, etc. See **arch1, etc.—Dry method, in chem., same as dry way.—Dry streak. Same as dry **face.

II. n. 4. Dry land: as, to execute a piece of engineering work in the dry (that is, not

under water).

Owing to the annual rise and fall of the Nile, it was seldom that such work [the digging of a canal] could be executed in the dry.

Sci. Amer. Sup., Jan. 10, 1903, p. 22590.

dryback (dri'bak), a. Having no water-space the back end: used in reference to boilers which have no water-space at the back of the

combustion-chamber. dry-blowing (dri'blo"ing), n. A method adopted in Western Australia, of freeing adopted in Western Australia, of freeing pounded gold ore from the powdered matter when water is not available. It consists in slowly pouring the crushed material from one dish into another and blowing away the powder with the mouth as it falls, when there is not wind enough to do the work.

Drydenian (drī-dē'ni-an), a. Of, pertaining to, or characteristic of John Dryden, the English pact (1631, 1700)

lish poet (1631-1700).

He [Crabbe] reverted to the *Drydenian* triplet and Alexandrine on which Pope had frowned.

G. Saintsbury, Hist. Nineteenth Cent. Lit., p. 8.

Drydenic (dri-den'ik), a. Same as *Drydenian. Drydenism (dri'den-izm), n. A phrase, turn of expression, or the like, characteristic of

John Dryden, the English poet. dry-fly (dri'fli), n. In angling, an artificial fly intended to float on the surface of the water like the natural insect. Also called floating

Dry-fly fishing, although more or less has been heard about it, is still little practiced in this country, and many anglers will be interested to see the work done at the tournament with dry files.

Forest and Stream, Feb. 21, 1903, p. 151.

Dry-fly casting, in angling, a mode of fly-casting in which the fly is not sllowed to sink below the surface of the water.—Dry-fly fishing, in angling, fishing with the

To define dry-fly fishing. I should describe it as presenting to the rising fish the best possible imitation of the insect on which he is feeding, in its natural position. F. M. Halford, Floating Flies, p. 117.

dry-hole (drī'hōl), n. A hole in a mine or dry-noile (dri'hol), n. A hole in a mine or quarry in which no water can be used in the drilling process. Such is any hole the mouth of which is at a lower level than the bottom as the drilling proceeds.

drying-bath (dri'ing-bath), n. In chem., a vessel, often made of sheet-copper or sheet-installing the driving of the

iron, enbical or nearly so in form, in which substances are beated to a determinate temperature in order to drive off water, or sometimes alcohol or other liquids. The walls are often made double, and hot water or steam occupies the intervening space. An electric current is sometimes passed through resistance-coils so as to produce an easily regulated temperature. Also called drying-oven.

drying-cylinder (dri'ing-sil"in-der), n. A hollow metal cylinder, heated by steam, for drying

a factory, where drying operations are carried

drying-stove (drī'ing-stōv), n. 1. A core-See drying-oven, under oven. -2. A oven. laundry dry-room.

drying-train (drī'ing-trān"), n. receptacles containing desiccating materials, so joined together that any gas passing through them is thoroughly dried.

a lumber drier. Such kilns are often made of great size, contain tracks for cars loaded with lumber, and are fitted with steam-heating pipes and power-fans for delivering warmed air.

dry-mixer (dri'mik"ser), n. See *sand-mixer. Drynaria (drī-nā'ri-ā), n. [NL. (J. Smith, 1841, adopted from Bory de Saint-Vincent, 1825, as subgenus), (Gr. δρῖς, oak.] A peculiar genus of mainly epiphytic polypodiaceous ferus mostly with fronds of two sorts, the sterile ones sessile, concave, cordate-oblong and sinuate or laciniate, having little chlorophyl and conspicuous, raised venation; the fer-

tile ones larger, pinnatifid or pinnate, the sori roundish, naked, sometimes confluent, borne at the junction of the compoundly anastomosing veinlets. There are about a dozen species, widely distributed in the eastern hemisphere, of which D. quercifolia is the best

 $\begin{array}{l} \textbf{Dryopterideæ} \ (\text{dri-op-te-rid'} \hat{\mathbf{e}}\text{-}\hat{\mathbf{e}}), \ u. \ pl. \\ & < \ Dryopteris \ (Dryopterid-) \ + \ -ex.] \end{array} \ \begin{array}{l} \text{[NL.,} \\ & \text{large} \end{array}$ tribe of polypodiaceous ferns of various habit and venation, typified by the genus Dryppteris. They have the stipes continuous with the rhizome, the sori terminal or dorsal, the indusia superior and either free upon all sides or extrorse, or often lacking. The genera occurring within the United States and Canada are: Dryopteris, Phegopteris, Goniopteris, Phancrophlebia, Polystichum, Sagenia, and Tectaria.

Dryopteris (drī-op'te-ris), n. [NL. (Adanson, 1763), \langle Gr. $\delta \rho \bar{\nu} e$, oak, $+ \pi \tau \epsilon \rho i e$, a fern. The name alludes to frequent association of ferns with oaks and groves generally. | A large genus of polypodiaceous ferns, type of the tribe Dryopterideæ with fronds pinnate to tripinnate or dissected, the venation usually free, and the sori roundish with superior cordato-reniform indusia fixed at the sinus. The type of the genus is D. Filiz-mas, the well-known male-fern or verminge, of wide distribution. Nineteen species occur within the United States and Canada, many of them the commonest woodland species. See male-fern and Nephrodium.

dryopteroid (dri-op'te-roid), a. Resembling or related to the genus Dryopteris, or the tribe

Dryopterideæ dry-pipe (dri'pip), n. A pipe, running along near the top of the steam-space, which takes near the top of the steam-space, which takes steam from the boiler. It is perforated with a number of small holes, the end being closed to prevent any large body of water from entering. The aggregate area of the holes is a little less than the area of a cross-section of the steam-pipe, so that the steam will be slightly expanded and superheated so as to become thoroughly dry.

dry-room (dri'röm), n. In laundry-work, an inclosed chamber heated by steam-pipes, used in drying shirts, collars, and other laundered It is made of wood lined on the inside with articles. sheet-metal and asbestos, or is made entirely of metal and fitted with wood or metal racks on which the articles are hung while being dried. Dry-rooms are also fitted with suction-fans for removing the heated air when it is satuated with moisture.

dry-rot, n., 1. Trametes Pini, Thelephora pedicellata and other Humenomycetes cause a timber disease. See ★conk², 3, and Thelephora. Fusarium Solaniand several species of Phoma cause a fungus disease of potatoes, turnips, and other root-crops.

dry-rot (dri'rot), v. t. To affect with dry-rot.

dry-salt, v. t. 2. In dairying, to add the salt to the butter while it is being worked. [Eng.] dryster (dri'ster), n. A drier; one employed in a drying establishment; one who is engaged in carrying on some drying operation.

Dr. Z., Dr. Zoöl. Abbreviations of Doctor of

Zoölogy.

D. S. An abbreviation (b) of Doctor of Science.

D. Sc. D. An abbreviation of Doctor of Science and Didactics.

D. S. O. An abbreviation of Distinguished Service Order.

d. s. q. An abbreviation of discharged to sick

D. T., D. Th. Abbreviations of Doctor of The-

ology.

1. t. An abbreviation (a) of delirium tremens.

[Slang.] (b) In elect., of double-throw: as, a d. t. switch.

D-trap (de trap), n. In plumbing, a term sometimes applied to simple forms of traps resembling the letter D.

Du. An abbreviation of Dutch.

dual. I. a. 3. In geom., given by a principle of duality, as by interchanging point and straight in a plane .- Dual consciousness. See onsciousness

II. n. 2. In geom., a figure or theorem obtained by a principle of duality, as by interchanging side and angle in a plane.—3. In chess, a problem which has two solutions, that is, one in which the mate can be given either by one or by two pieces, or by one piece on two or more different squares.

dualism, n.— Ethical dualism, a moral system which demands one kind of conduct toward fellow-members of one's own social group, and the opposite kind of conduct toward all other men; especially, in primitive society, the recognition of one set of duties toward fellow-clansmen and of opposite duties toward strangers not of the blood-bond.—Psychophysical dualism, the metaphysical opinion that mind and matter are two different kinds of existents which are capable of acting upon each other.

dualistic, a. 3. In ehem., pertaining to the dualistic system.—Dualistic notation, a notation based upon a principle of duality.—Dualistic system, *game.

the system, developed chiefly by Berzelius, of representing chemical compounds as constituted of two parts, a positive and a negative, chemically and electrically complementary, that is, mutually opposed. Thus sodium sulphate was represented as composed, not of sodium sulphur and oxygen, but of sulphurie acid (\$0₃) and sodium oxid, which themselves were separated into positive and negative constituents. In some respects the theory is similar to the modern one of electrolytic dissociation.

duality, n.—The principle of duality, in geom.: (b)
The principle that in theorems of configuration and determination any element or component may be interchanged with an element or component of like determining power in the universe under consideration, as straight for point or angle for sect in the plane.

dualize (dū'a-līz), v. t.; pret. and pp. dualized, ppr. dualizing. To make or regard as two. N. E. D. E. D.

 dub^1 , v. t. 4. (f) To make a fair show outside or on the surface, as by placing the good wares in the upper part of a basket and the inferior beneath. [Prov., Eng.]

dub-end (dub'end), n. The carved end of a cross-or spring-bar of a carriage.
dubitant (dū'bi-tant), a. and n. [L. dubitans (-ant-), ppr. of dubitare, doubt; see doubt.] I. a. Doubting; inclined to doubt: as, a shy, dubitant creature. Bulwer.

II. n. One who doubts; a doubter.

dubl, a., n., v., and adv. A simplified spelling ductil, a. of double.

dubld, pp. A simplified spelling of doubled. dublet, n. A simplified spelling of doublet. A simplified spelling of doublet.

Dubois's abscesses or disease. See *absccss. ducat, n.—Barbary ducat, an Arab gold coin current in the West Indies in the first half of the eighteenth cen-

ducatello (dö-kä-tel'ō), n. [lt., dim. of ducato, ducat.] A silver coin of Venice.

duchesse (dü-shes'), n. [F.: see duchess.] A type of sofa borrowed by the English designer Hepplewhite from the French. It is composed of two arm-chairs placed face to face with a stool connecting them, all three being framed together.

duck¹, v. I. intrans. 4. In bridge, to lead a dudler (dud'lér), n. Same as *dudley. suit from the dealer or the dummy hand, and make no attempt to win the trick third hand, ley.] An engine for hauling logs which proeven when able to do so. See underplay.

II. trans .- To duck np (naut.), to lift (the clue of 11. trans.—To quek np (naut.), to lift (the cine of the foresail or mainsail on a square-rigger), so that the view ahead of the vessel may not be shut out from the steering-wheel. On cutters carrying a loose-footed mainsail the tack (junction of the foot and luff) of the sail is lifted by a small permanent purchase called a tack-tackle when the lower part of the sail near the mast obstructs the helmsman's view ahead.

duck2, n. 5. In cricket, no score; zero: short for duck's-egg (which see). [Slang.]—Aylesbury duck, a breed of ducks named from Aylesbury duck, a breed of ducks named from Aylesbury, England. They are large ducks, white with orange shanks, having a long, stender head and a pink heak.—Call duck, a duck of diminutive breed, raised for display rather than for the market: used originally for decoys, whence the name.—Field-lane duck, a local English name for a baked sheet's head. baked sheep's head.

duck-acorn (duk'ā/kôrn), n. The water-chinkapin, Nelumbo lutea.

duck-barnacle (duk'bär"na-kl), n. Same as \star goose-barnacle.

duckbill, n. 4. Polyodon spathula, one of the ganoid fishes of the order Salachostomi. Two species are known, inhabiting fresh waters of the United States and China.

duck-boat (duk'bot), n. A light, shallow-draft boat propelled by oars or a sail, and employed in duck-shooting.

Local, Eng.

duck-mud (duk'mud), n. Same as crow-silk (which see)

ducks (duks), n. pl. In bot., a name indiscriminately applied to any of the American species of Cypripedium except C. arietinum.

breaks rank in order to pick up a stray pas-senger instead of waiting his turn. [Aus-Dufton shales. tralia.1

duckweed, n.—Greater duckweed, Spirodela poly-rhiza, formerly included in the genus Lemna. Also called water-flaxseed.—Tropical duckweed, the water-lettuce, Pistia Stratiotes.

duckwheat (duk'hwēt), n. A local name for Fagopyrum Tataricum, the Tartarian buckwheat or India wheat. This species differs from the common buckwheat in having a grain with notehed or wavy edges, a more slender habit of plant, smaller and hastate leaves, and greenish or yellowish flowers in smaller clusters.

duct, n.—Aberrant duct of the liver. See *aberrant.

—Botal'a duct. Same as ductus Botalik.—Closed duct, in bot., an elongated cell which is not continuous but has the intervening septa remaining.—Dotted duct, in bot., a duct or vessel marked with dots or pits.—Hermaphrodite duct, in certain mollusks, as *Heliz*, a duct leading from the hermaphrodite gland to the exterior or communicating therewith through other passages.—Intercellular duct, a duct or passage formed between the cells.—Nephric duct, the duct of the kidney: a general term applied to the pronephric, mesonephric, and metanephric ducts.—Reticulated duct, a duct in which the markings seem to form a network.—Santorini's duct. Same as *Santorini's or Bernard's canal (which see, under canal!).—Scalariform duct, a duct with ladder-like markings, characteristic of ferns. See *scalariform, 1, (b), and *scalariform vessels under *scalariform.—Skene's ducts, minute tubules which open into the female urethra near the meatus.—Thyroglossal duct, the temporary ducts, minute tubules which open into the remaie uretima near the meatus.—Thyroglossal duct, the temporary connection between the thyroid gland in the embryo and the floor of the mouth.—Umbilical duct, in embryol, the tubular connection between the primitive intestine, or archenteron, and the umbilical vesicle.

duct (dukt), v. i. and t. [L. dueere, pp. ductus, lead, draw: see duet, n., and cf. abduct, adduct, etc.] To draw: said of muscles which abduct, adduct, or circumduct a part, such as the leg or the eye.

The eyes can never be pronounced innocent in any case until the ducting and verting power of each separate muscle has been determined.

Med. Record, Feb. 7, 1903, p. 210.

A simplified spelling of ductile. opancreations. Same as Santorini's *duct Ductus dorsopancreaticus. Same as Santorini's *duct or canal.— Ductus hepatopancreaticus. Same as the duct of Wirrung.— Ductus omphalo-entericus. Same as ductus vitellinus.

as auctus victorius.

ducu (dö'kö), n. [S. Amer.] A shrub or small tree, Clusia Ducu, of the gamboge family, found in the Andes of Ecuador and Colombia. It yields a fragrant gum-resin which is used the natives like incense.

dudder-grass (dud'èr-gras), n. The fern Venus's hair, Adiantum Capillus-Veneris. See Venus's hair.

dudish (dū'dish), a. Like a dude; characteristic of a dude.

pels itself and drags its load by revolving a large spool around which are several turns of

a cable, fixed at each end of the track.

dudleyite (dud'li-ît), n. [Dudley(ville), in
Alabama, + -itc².] A hydrous silicate allied to the vermiculites and derived from the alteration of margarite.

due-cento ($d\tilde{a}'$ ā-chen'tō), n. [It., contraction for mille due cento, 1200.] The thirteenth central transfer of the contraction of the contraction of the central tury. In the history of Italian art the due-cento is characterized by a blending of romanesque and gothic influences, and by the proto-renaissance of Frederick II. (1215-1250), who showed peculiar appreciation of classic art. The chief master of the period is Niccola Plsano, the sculptor and architect (about 1207-1278).

dueling-pistol (dū'el-ing-pis"tol), n. barreled pistol of fine workmanship, made especially for dueling.

duellant (dū-el'ant), n. [L. duellum, duel, + ant.] A duelist.

The successful duellant had simply kept his guard and struck in the nick of time.

J. M. Hart, German Universities, p. 77.

duettist (du-et'ist), n. [duet + -ist.] One who

takes part in a duet. duetto, n. 2. A base coin of Lucca, equal to

two quattrini.

duff² (duf), v. i. In golf, to miss a stroke by
hitting the ground behind the ball.

Flind. Pers. daf'a-

Duck-egg porcelain. See *porcelain. duff² (duf), v. i. In golf, to miss a stroke by hitting the ground behind the ball. duffadar (duf-a-dār'), n. [Hind. Pers. daf'a-dār, an officer in command of a small body of men. \(\lambda daf'a\), as section, \(+-d\bar{a}r\), suffix of agent. A petty officer, such as a sergeant or corporal [Local Eng.] of irregular cavalry, a police officer, or the man in charge of a gang of laborers. [Anglo-

Indian. We now composed a small party; besides our *Duffadar*, there remained Lassoo and Esau, twelve animals, and Ruby.

Geog. Jour. (R. C. S.), X11. 268.

duck-shover (duk'shuv"er), n. A cabman who dufoil, n. 2. In bot., the twayblade, Ophrys

See *shale2.

dugdug (dög'dög), n. [Chamorro name, in Guam.] The name in Guam of the fertile form of Artocarpus communis, the chestnut-like seeds of which, called nangka, are roasted and eaten by the natives. The latex is used as bird-lime, as a sizing for whitewash, and as a medium for mixing paints. The soft yellow wood is used for cupboards and interior woodwork of houses, but will not stand exposure to the weather. See Artocarpus, breadfruit, *breadnut, 2, and *antipolo.

Dugongidæ (dū-gong'gi-dē), n. pl. [Dugong + -idæ.] A family of sirenian mammals, including the existing species of dugong and the extinct genus Prohalicore. J. E. Gray, 1821.

duguan (dö-gö-än'), n. [Tagalog duguan, < Tagalog and Bisaya dugó, blood.] In the Philippines, the name of several species of nutmeg, especially Myristica Philippiensis, a tree yielding a red resin. Its fruit is fragrant and was formerly used by the natives for making sweetmeats, but the inclosed nutmeg and its surrounding mace have little if any aroma. Also called talangtalang. See Myristica.

duiker (dī'ker), n. [Cape D.] Short for *duiker-bok.

Mr. Oldfield Thomas exhibited and made remarks upon the skin of a female yellow-backed duiker (Cephalophus sylvicuttrix) which had been obtained in the Awemba district of North-Eastern Rhodesia.

Athenæum, Jan. 25, 1902, p. 120.

duiker-bok (di'kėr-bok), n. [Cape D., \(\) duiker, diver, + bok, buck.] A small South Africau antelope, Cephalophus grimmi. It is about 26 inches high and typically of a yellowish-brown color. The males have small, straight pointed horus; the females are hornless. The name is extended to other antelopes of the same genus.

dukan (dö-kän'). n. [Aram., stage, platform.]
The stage in the Jewish temple upon which the priests officiated, and the Levites stood

when singing the daily psalms.

duk-duk (dök'dök), n. [New Britain.] The rituals of a secret society of the natives of New Britain. In these rites large masks are used which are said to represent the eassowary. Ratzel (trans.), Hist. of Mankind, I. 133.

duke1, n. 6. A vehicle having a victoria body suspended at the front on scroll-irons. At the rear is a rumble for a footman. It is some-



A Duke, appointed Demi-daumont.

times driven by a postilion. Now called a iadies' driving-phaëton.—Grand-duke. See duke1, 41.

Duke bit. See *bit1.

Duke bit. duke-phaëton (dūk' $f\bar{a}''e$ -ton), n. A form of the duke which is provided with a detachable driver's seat at the front. See *duke1, 6. dukhan (du'kan), n.
[Also dukn, duchn; [Also dukn, du Ar. dukhn.] The pearl or negro millet, Pennisetum spicatum, a grass widely cultivated in warm countries for the sake of its seed and sometimes for fodder for cattle. The seeds are an important food-staple in many countries, but are not of such great economic importance as those of durra (Andropogon Soryhum). They are ground into meal, which in Africa is eaten in the form of mush, and in India, where it is the principal food-staple of the natives in many parts, in the form of bread or cakes, which are eaten together with butter-milk. In India called cumboo-millet.

Dukhobors (dö'köthe sake of its seed and

Dukhobors (dö'kō-bôrz), n. pl. See Duk-hobortoi Dukhobors

dulcamaretin (dul-ka-mar'ē-tin), n. [dulcamaretin (dul-ka-mar'ē-tin), n. [dulcamaret

Dukhan (Pennisetum spica-um), about one half natural

on dulcamarin.
dulcan (dul'kan), n. See *dolcan, 2.
dulcin, n. 2. Same as *sucrol.
dulcinan (dul'si-nan), n. Same as dulcitan.
dulcinea (dul-sin'ē-ā), n. [Sp., from the name
of Dulcinea del Toboso, the lady beloved by
Don Quixote, the hero of Cervantes's romance
of that name; \(\) L. dulcis, sweet. \(\) A sweetheart; a mistress.

dulcitanide (dul-sit'a-nid), n. [dulcitan + -ide1.] The general name employed in chemistry for compounds of acids and dulcitan: as, benzodulcitanide.

Dulidæ (dū'li-dē), n. pl. [NL., < Dulus +

-idæ.] the shrikes, found in tropical America. dull-witted (dul'wit "ed), a. Stupid; having a dull wit.

1 do not believe that the average boy of the modern congregation is duller-witted or more restless now than 1 was then.

W. Gladden, Parish Problems, p. 404.

dulotic (dū-lot'ik), α. [Gr. *δονλωτικός, ζ δοί-λωσις, enslavement, ζ δονλοῦν, enslave, ζ δοῦλος, a slave: see dulıα.] In entom., slave-holding: applied to those genera of ants which enslave colonies or individuals of colonies of other

Dahl is mistaken in supposing that L. bismarckensis is a dulotic ant, as a perusal of the above quoted passages from Wroughton's work will suffice to show. Biol. Bulletin, May, 1904, p. 257.

dum, a. and r. A simplified spelling of dumb. duma (dö'mā), n. [Also douma (< F. douma); < Russ. duma, a council, a court, a chapter (of an order), also thought, idea, elegy, = OBulg. Bulg. duma, council, = Bohem. duma, thought, reflection, = Pol. duma, thought, idea, reflection, opinion, elegy (see *dumka) = Little Russ. duma, thought, = White Russ. duma, pride, arrogance, = Lith. duma, opinion, = Lett. pa-dōms, council; of Teutonic origin, < Goth. dōms = OHG. tuom = AS. dōm, E. doom, judgment: see doom¹, n.] In Russia, a council; an official assembly: specifically, an elec-Bulg. duma, council, = Bohem. duma, thought, cil; an official assembly; specifically, an elec-tive legislative assembly or council in Russia, established by ukase of Nicholas II. in 1905.

The *Doumas* of nearly all the principal cities have addressed the throne praying that the representatives of the people be summoned at once.

N. Y. Times, June 9, 1905.

In this (plans for a National Assembly) he (the Czar) has been influenced by the men who instituted the recent Congress at Moscow, of delegates from the zemstvos and dumas, or district and municipal councils.

Outlook, Aug. 12, 1905, p. 892.

dumaist (dö'mä-ist), n. [duma + -ist.] A member of a duma.

The Czar, on March 3, issued a rescript addressed to the Minister of the Interior directing him to prepare plans for the assembling of representatives of the people. . . . [The plan] was received with derision by the zemstvoists and dumaists at their Congress in July.

Outlook, Aug. 12, 1905, p. 892.

See *dumree. dumaree, n.

dumaree, n. See *damree.
dumasin (dū'ma-sin), n. [Dumas, a French
chemist, +-in².] An oily ketonic compound,
C₆H₁₀O, prepared by passing the vapors of
acetic acid or acetone through a red-hot tube.
It has a spicy odor and boils at 120-125° C. Dumas's method. See *method.

Dumb jockey, peal, tooling. See *jockey, *peal', blind tooling (under tooling).
dumb-barge (dum'bärj), n. See *barge', dumb-bell, n. 2. In baeteriol., a diplococcus: so called from its shape.—Dumb-bell crystals.

dumb-card (dum'kärd), n. See *eard!.
dumbcow (dum'kou), v. t. To browbeat into

silence or submissiveness; cow. R. Kipling. [Anglo-Indian.]

dumb-drift (dum'drift), n. An airway for conveying foul air and dangerous gases to the upeast shaft of a mine, past, but not through, the ventilating-furnace, to avoid explosions.

dumb-furnace (dum'fer"nās), n. Same as *dumb-drift.

dumb-iron (dum'i"ern), n. In carriages, an iron shaped like the half of an elliptic spring attached to a half-elliptic and with it presenting the appearance of a full elliptic. It is sometimes covered with wood and richly carved.

dumb-pintle (dum'pin#tl), n. A rudder-pintle whose lower end rests on a disk in a socketbrace designed to take the weight of the rudder. dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound an iron bridge. N. E. D.

dumb-watches (dum'woch "ez), n. The pitcherplant, Sarracenia purpurea, also the trumpet-leaf, S. flara, in allusion to the convex circular expansion at the summit of the style, re-

sembling a watch.
dumby, n. See *dummy, 5 (d).

Dumdum bullet, fever. See *bullet, *fever1.
dumka (döm'kä), n. [Pol. dumka, dim. of duma, thought, elegy: see *duma.] A Polish lament or threnody, or a piece of music in a

melancholy style.

dummele (dům'ę-lē), n. [Cingalese ?] A tar
prepared from the wood of the bastard sandal-

A family of passerine birds related to wood, Erythroxylum monogynum, a shrub or small tree of southern India and Ceylon. It is used as a preservative of native boats. See Erythroxylum.

2. Specifically, an abnormal dumminess, n. mental condition of the horse, following acute inflammation of the brain, in which the various senses are dulled and the animal takes no notice of its surroundings. There is also a peculiar alteration in the method of taking in the food. U. S. Dept. Agr., Rep. on Diseases of the Horse, 1903. p. 11.

dummy, n. 3. (c) Proofs of pages of composed type pasted down upon a larger leaf in

proper order, to show the general arrangement of an intended book or pamphlet. - 5. (c) The dealer's partner at bridge. (d) In the game of rounce, an extra hand of 6 cards in the center of the table. Amer. Hoyle, p. 322.—6. A person who is put forward (by interested parties in the background) in some capacity in connection with a matter in which he has no real concern or as to which he is the mere tool of his movers: for example, (a) as an incorporator or a director of a bank, a railway, or other company, in order to satisfy some statutory requirement as to number, place of residence, or the like, or as (b) in Australia, when the public lands were thrown open, one who made application for an allotment in his own name, but really on behalf of another who had already made his own 'selection.'—7. A horse affected with dumminess, which follows an acute inflammation of the brain. See *dumminess, 2.

The duration of the disease varies from a few hours to a week, the average being perhaps 72 hours. Horses which recover are said to become "dummies"—animals with a permanent cerebral lesion and defective intelligence.

Jour. Exper. Med., VI. 66.

dummy (dum'i), v. i. To act as a dummy. See ★dummy, 6.
dummyism (dum'i-izm), n. The practice of

using or of acting as a dummy in any matter, as taking up land by perjury and false pre-tenses on the part of the dummy. See *dummy, 6.

dummy-weed (dum'i-wed), n. The coltsfoot,

Tussilago Farfara.
dump², v. t. 5. To press closely; subject to severe pressure, as bales of wool. [Australia.] dump-car, n.—Air dump-car, a gondola-ear of which the body can be tilted up to discharge the load. It is operated by compressed air. See *gravel-ear.

dumper, n. 2. In railroading, any form of tilt-

ing-, dumping-, or unloading-ear, whether operated by hand or by power.

dump-grate (dump'grāt), n. A furnace- or boiler-grate which can be tilted or tipped up so as to drop or dump its load of ash and einder; a dumping-grate or tip-grate.

dump-hook (dump'huk), n. A levered chain grab-hook attached to the evener, to which a team is hitched in loading logs. A movement of the lever releases the hook from the loggingchain without stopping the team.

dumping-boat (dum'ping-bot), n. A boat or seow used in the removal of rubbish and in dumping it into the ocean. Buck, Med. Handbook, VI, 880.

dumping-car, n. Any railroad-ear which is used to carry loose material in bulk and which,



Dumping-car for Industrial Railroad,

a, car tilted up for convenience in loading; δ_t car loaded and locked for transport; ϵ_t car released and upset, discharging coal.

through its construction or fittings, can be made to discharge its load. The most simple form has a balance square, cup-, or V-shaped body, so supported that it can be tilted up to discharge the load at the side of the track. In another type the body is hinged to a turntable on the truck and can be swung around and tilted in any direction. Another simple form has a tilting-floor and fixed ends, or a fixed sloping floor and hinged sides, or two floors joined together and sloping outward, with hinged sides. In this type the car-body is fixed and the load is dumped by releasing the hinged sides. In this sense the hopper-car, having sloping floors for the automatic discharge of the load through the hopper, is a dumpear. The largest and most complicated type consists of an under-frame supporting two hinged and inclined thors which meet in the middle and, when closed, sustain the through its construction or fittings, can be

lead in a V-shaped trough. When the load is to be discharged, one section of one floor may be opened and the load dumped between the rails, or, by means of deflecting plates and a fixed apron on the side of the car, it may be dumped at the side of the track. Two sections may be opened and the load discharged on both sides or on one side. The dumping apparatus may be operated by hand or by compressed air (obtained from the air-brake system), either when the train is at rest or when it is in motion, and in any direction, one car at a time or all the cars of the train at the same instant.

| Any one of two or three | charged the load is to be discovered and the load discharged on both sides or on one side. The dumping apparatus may be operated by hand or by compressed air (obtained from the air-brake system) either when the train is at rest or when it is in motion, and in any direction, one car at a time or all the cars of the train at the same instant.

dumpling, n. 3. Any one of two or three species of dwarf, stemless, succulent evergreen plants belonging to the genus Mesembryanthemum, especially M. minimum, called the small dumpling, a plant only half an inch high, and M. obcordellum, called the greater dumpling. which is a bout an inch higher.—Bluedumplings, a favorite dish among the Creek Indians, consisting of two enps of corn meal, half a teaspoonful of baking-powder, and a little butter, made into small balls which are dropped into boiling water and cooked for five minutes. Sci. into boiling water and cooked for five minutes. Amer. Sup., May 7, 1904, p. 23703.

dump-moraine (dump'mē-rān"), n. A moraine

formed of material dropped from a glacier.

dumpoke (dum'pōk), n. [A back-formation from dumpoked.] A stuffed duck; in general, any baked dish. [Anglo-Indian.]

dumpoked (dum'pōkt), a. [Hind. dampukht,

fowl. [Anglo-Indian.]
dump-skip (dump'skip), n. A bucket for hoist-

dumree (dum'rē), n. [Also dumrie, dumaree; < Hind. damrī.] A copper coin formerly in use in Central India, of very slight value. Yule and Burnell.

dumus (dū'mus), n.; pl. dumi (-mī). [L., a bush. OL. dusmus, prob. connected with densus, thick: see dense.] A bush or low-branching shrub.

dun¹. I. a.—Dun hackle, land, limestone, skipper. See *hackle3. *land¹, Redesdale *timestone, *skipper¹. See *hackle3, *kland1, Redesdale *klimestone, *skipper1.

II. n. 2. A dun-colored natural or artificial fly used in angling: as, the pale-olive dun, made with a body of hair from the polar bear; goose-dun, with a body of gray goose-pinion; blue dun, with a body of pale mole-fur. dunal (dū'nal), a. [dune + -all.] Of or pertain-

ing to dunes.

At Lake of the Woods there is no evidence that the Isle aux Sables is tenanted by both dunal and predunal types of plants.

C. MacMillan, Minn. Bot. Studies, Bulletin IX. p. 993.

dun-bar (dun'bär), n. A British collector's name for a dun-eolored moth (Cosmia trapezina) having two bars or transverse lines on the fore wings. N. E. D.

Duncanella (dung-ka-nel'a), n. [NL., < Dun-ean, proper name, + -ella.] A genus of ex-tinet tetracorals of the family Cyathaxoniidæ, including very simple conical cups with regular

septa and no tabulæ or dissepiments. It is of Silurian age. dunch¹ (dunch), n. [dunch¹, v.] A jog with the elbow; a nudge; a 'dig in the ribs.' [Seoteh

and prov. Eng.]
dunch², a. 2. Dull; stupid; slow of understanding.—3. Heavy, as bread; stodgy. [Prov.

Eng. in both senses.] II. n. 1. A stodgy pudding, made of flour, currants, and water. [Prov. Eng.]—2. Improperly baked bread. [Newfoundland.]

properly baked bread. [Newfoundland.]

dune¹, n.—Active dune, a sand-dune in the wandering or shifting state.—Barrier dune, an artificial ridge created for the protection of inland areas by obstructing the shifting of the sand, as with living grasses, brush fences, etc.—Gray dune, a dune belonging to the innermost and highest of three lines found on some coasts: so called because the sand is tinged by an intermixture of humus; a land dune. The gray dunes and white dunes are inside of a low outer row.—Land dune. See gray *dune*, one which, heing unprotected by vegetation, is continually changing its shape and place under the action of the wind. The movement of dunes is commonly linland from the shore.—White dune, a dune belonging to the middle of three lines as found on some coasts, and also medium in height: so named because the sand is uncolored by humus. Also called sea dune. See gray *dune*.

Dunelm. An eeelesiastical abbreviation of the Latin Dunclmensis, 'of Durham.'

dun-fly, n. See $\star dun$, n., 2.

Dung substitute. Same as *dunging-salt. dunga-runga (dung'gā-rung'gā), n. [Aborig-inal name in New South Wales.] A small tree of crooked growth, Notelæa orata, yielding close-grained, hard wood, used for tool-han-See Notelæa.

dung-beetle, n.—Indian dung-beetle, an East Indian scarabaid beetle, called by Kirby and Spence Coprismidas.

dungon (dung-ôn'), n. See *dongon. dungstead (dung'sted), n. A dung-heap; a place where manure is piled; a midden.

The general conclusion arrived as, and clearly expressed by Fleiffer, is that excessive loss in manure can be best avoided by storing it in a deep mass in a water-tight dungstead placed in a well-shaded situation, in which the material is firmly compressed.

Nature Sept. 15, 1904, p. 401

Nature, Sept. 15, 1904, p. 491. dung-worm (dung'werm), n. A worm or larva

found in cow-dung, used as bait. Dunkard series. See *series.

Dunker¹, n.— Seventh-day Dunkers, a division of the Dunkers organized in Pennsylvania in 1728 by Conrad Beissel. The society, now almost extinct, was monastic in character, advocated celibacy for its members, and ob-served the Salbath on the seventh day: whence its name.

dunkirk (dun'kerk), n. A privateer vessel from Dunkirk in the seventeenth century.

any baked dish. [Angro-man, imposed (dum'pokt), a. [Hind. dampukht, cooking in steam, simmering, < dam, air, breath, steam, + pukht, cooked.] Boiled, as a fowl, with butter and spices; now, baked, as a fowl. [Anglo-Indian.]

dump-skip (dump'skip), n. A bucket for hoist-dump-skip (dump'skip), n. A bucket for hoist-dump'skip), n. A bucket for hoist-dump'skip, n. A bucket for hoist-dump' dunner² (dun'er), n. [dunner², v.] A hollow reverberating sound, as if made by heavy blows from the closed fist on a door; a thun-

dering sound. [Scotch.]
dunnite (dun'īt), n. [Dunn, a proper name,
+ -ite².] Same as *explosive D.
dunstone (dun'stôn), n. [dun¹ + stone.] In

petrog., stone of a dun or dull brown color, sometimes sedimentary, as dolomite or sand-stone; occasionally, an altered dolerite. [Loeal, Eng.]

dunting (dun'ting), n. Knoeking; hitting; dinting; in ceram., the eracking of ware entirely through, while it is being fired in the kiln. duny (dū'ni), a. [dune + -y1.] Having numerous sand-dunes.

merous sand-dunes.

duodecagon (dū-ō-dek'a-gon), n. [Gr. δνώδεκα, twelve, + γωνία, angle.] Same as dodecagom.

duodecane (dū-ō-dek'ān), n. [Gr. δνώδεκα, twelve, + -anc.] Same as *dodecane.

duodenary, a. 2. In music, pertaining to a duodene, or consisting of duodenes.

II. n. A musical instrument for acoustical

research, played from a keyboard laid out in duodenes

duodenate (dū'ō-dō-nāt), r. i.; pret. and pp. duodenated, ppr. duodenating. [duodene + -ate².] In music, to modulate by duodenes. duodenation (dū-ō-dō-nā'shon), n. [duodenate

-ion.] In music, the act, process, or result of modulating by duodenes.

duodenocholecystostomy (dū-ō-dē"nō-kol"ē-sis-tos'tō-mi), n. [NL. duodenum + Gr. χολή, bile, + κίστις, bag, bladder, + στόμα, mouth.] In surg., an operation for making an artificial opening between the gall-bladder and the duodenum.

duodenohepatic (dū-ō-dē"nō-hē-pat'ik), a. [duodenum + hepatic.] Relating to both the duodenum and the liver. Buck, Med. Handbook, I. 654.

duodenotomy (dū-ō-dē-not'ō-mi), n. [duodenum + Gr. -τομία, ζ ταμεῖν, cut.] In surg., an operation for making an opening into the duodenum.

duogravure (dū″ō-grā-vūr′), n. [F. *duogra-vure, irreg. ⟨ L. duo, two, + gravure, engrav-ing.] A method of photo-engraving which requires two plates for the production of a print in one color. N. Y. Times, Jan. I, 1904. duole (dū'ōl), n. [L. due, two, + dim. -ole, L. -olus.] In music, a group of two notes to be performed in the time normally occupied

duoparental (du"ō-pā-ren'tal), a. [L. duo, two, + parens, parent.] Of or from two parents or sexual elements; bisexual; amphigonie.

by three.

The conclusion that chromatin was the true hereditary-substance could only be deduced with convincing clearness after duo-parental . . . reproduction had been studied.

Nat. Sci., Nov., 1896, p. 312.

duotal (dū'ō-tal), n. The trade name of guaiacol carbonate, a white odorless and tasteless crystalline compound, (C₆H₄O.CH₃ O)2CO, obtained by the action of phosgen on

guaiaeol-sodium. It is decomposed in the intestines into guaiaeol and carbonic scid, and is used as an intestinal antiseptic and in tuberculosis. It is official in the U.S. Pharmacopusa under the name guaiacolis carbonas.

dup² (dup), n. [D. dop, a shell, husk.] A trough used in South Africa for sheep-washing. Dupin's cyclide. Same as eyelide.

duplex, a.—Cox duplex press. See ★press1.—Duplex lock paper, pump, See ★lock1, ★paper, ★pump1.
—Duplex rail. Same as compound rail (which see, un-

The general conclusion arrived at, and clearly expressed duplexity (du-plek'si-ti), n. Same as duplic-

duplicand (du-pli-kand'), n. [L. duplicandus, fut. pass. part. of duplicare, double.] In Scots law, a double feu-duty due to a superior upon entry into possession by an heir, or at certain specified times.

duplicate, v. i. 2. In whist and bridge, to play the same cards over again, as nearly as possible under the same conditions, each side getting the hands originally held by its opponents. duplicate. I. a. 4. In bot., folded.—Duplicate whist board. See *board.

II. n.—Memory duplicate, in whist, a game in which the hands are preserved and played over again by the same players at the same table.

duplicipennate (dū/pli-si-pen'āt), a. [L. du-plex (duplic-), double, + penna, wing: see pennate.] In entom., having the wings folded longitudinally in repose, as the moths. [Rare.]

duplicispinate (dū"pli-si-spi'nāt), a. [L. du-plex (duplic-), double, + spina, spine: see spinate.] Bearing double or duplex spines. duplicity, n. 4. In biol., the division of a part

of the body of an organism, such as a limb or a digit, into two equivalent parts which may be regarded as equivalent to normal single members. W. Bateson, Study of Variation, p. 406.

—Axtal duplicity, the presence in a bilateral animal of a pair of organs or parts in place of one which is normally single and median, as the presence of two tails in some breeds of goldfishes, or of two heads in monsters.

durative (dūr'a-tiv), a. [NL. *durativus, \(\) L. durare, continue: see dure, v.] In philol., that expresses or serves to express continued or continuing action: as, to 'sit' and to 'strike' are durative verbs, while to 'strike down' and to 'sit down' are perfective verbs and express completed action.

durbachite (dur'bach-it), n. [Durbach, in Baden, Germany, + -ite2.] In petrog., a variety of syenite rich in mica which occurs as a basic facies of granite, and also as independent bodies.

Durchmusterung (döreh-mös'te-röng), n. [G., durchmustern, inspect closely, review, scrutinize, < durch, through, + mustern, inspect, muster: see muster, v.]
 A German name given to certain extensive catalogues of stars which give their magnitudes and their approximate positions sufficiently for identification. The oldest and best-known is Argelander's Durchmusterung of the Northern Heavens, containing about 324,000 stars. It was made at Bonn, and is usually referred to by the Initials B. D. M. His successor, Schönfeld, extended the work to stars south of the equator, in the Southern Durchmusterung (S. D. M.). A third is the Cordova Durchmusterung (Cord. D.), extending Schönfeld's work to the south pole. The three contain all the stars easily observable with a telescope of three inches aperture down to the ninth magnitude, and many between magnitudes 9 and 9½. There is also the Cape (of Good Hope) Photographic Durchmusterung (C. P. D. M.), covering nearly the whole of the southern hemisphere. to certain extensive eatalogues of stars which

durdenite (der'den-it), n. [Named for H. S. Durden of San Francisco.] A hydrous ferric tellurite occurring in greenish-yellow small mammillary forms: found with native tellurium in Houduras.

durene (dû'rēn), n. [!L. durare, last, + -ene.] A colorless compound found in coal-tar oil and prepared by the action of methyl chlorid on toluene in the presence of aluminium chlorid; 1, 2, 4, 5-tetramethyl benzene. It has an odor resembling that of camphor, erystallizes in leaves, melts at 79-80° C., and boils at 193-1959 C

durenol (dū'rē-nōl), n. [durene + -ol.] A colorless compeund prepared by fusing durene-sulphonic acid with potassium hydroxid; 1, 2, 4, 5-tetramethyl phenol. It crystallizes in large flat prisms, melts at 117° C., boils at 249-250° C., and is volatile with steam.

durezza (dö-ret'zä), n. [It., L. duritia, hard-dust-fall (dust'fâl), n. The settling of dust blue sky seen between the alto-stratus clouds after a storm begins to abate. tone or expression.

durgah (dur-gä'), n. [Also durgaw; < Hind. dargāh, < Pers. durgāh, threshold, door, place, eourt, mosque, shrine; < dur, door, + yāh, place.] In India, the shrine of a Mohammeden seitt. [Also durgaw; < Hind. dan saint.

duridine (dū'ri-din), n. [L. durare, last, + -id + -inc²] A colorless compound prepared by heating xylidene with methyl alcohol. It melts at 14° C. and boils at 252-253° C. durote (dö-rō'tā), n. [Sp. duro, hard.] In

Venezuela, a large, leguminous tree of Guiana and Venezuela, Bocoa Provacensis, which yields the boco-wood. See boco-wood. durrin (dur'in), n. [durra + -in².] A gluco-

side, HOC₆H₄CH(CN)OC₆H₁₁O₅, present in Egyptian durra. It crystallizes in brilliant leaflets.

durylic (du-ril'ik), a. [dur(ene) + -yl + -ie.] Derived from durene .- Durylic acid. Same as cumulic acid.

duscle (dus'kl), n. **duscle** (dus'kl), n. [Appar. an artificial formation from dusk.] The black nightshade, Solanum nigrum.

dusky-wing (dus'ki-wing), n. Any butterfly of the genus Thanaos: so called on account of of the genus Thanaos; so called on account of its dark color. —Dreamy dusky-wing, an American hesperiid butterfly, Thanaos icelus, occurring in nearly all parts of the United States. Its larve feed on the aspen.—Juvenal's dusky-wing, an American hesperiid butterfly, Thanaos juvenalis, occurring throughout the eastern United States. Its larve feed on the oak.—Lucilius's dusky-wing, an American hesperiid butterfly, Thanaos juvenalis, occurring in the Atlantic United States. Its larve feed on wild columbine and on pigweed.—Martial's dusky-wing, an American hesperiid butterfly, Thanaos martialis, occurring throughout the Atlantic United States and westward to Colorado.—Persing's dusky-wing, an American hesperiid butterfly, Thanaos persua, of wide distribution in the United States. Its larve feed on the willow and poplar.—Sleepy dusky-wing, an American hesperiid butterfly, Thanaos brizo, occurring throughout most of the United States except the far Northwest.

duss (dus), n. [E. Indian.] A shrubby labiate plant, Sussodia oppositifolia, indigenous to the Himalaya Mountains. It has opposite or ter-

plant, Sussodia oppositifolia, indigenous to the Himalaya Mountains. It has opposite or ternate leaves, and spikes of minute white flowers with feathery calyx-teeth. The leaves are covered with downy wool, which is used to remove insect larvæ from old sores; they are also applied to wounds and bruises. The wood is moderately hard and close-grained and is used for making gunpowder charcoal.

dust¹, n. 11. In bot., pollen. Blair. 12. Flour. [Slang, Australia.]—Dust-particles of Müller. See *homeconium.—Dust process, in ceram., a method of making buttons, tiles, etc., by pressing dampened claydust in molds.

dust-har (dust/bär). n. In catton manuf. one

dust-bar (dust'bär), n. In cotton manuf., one of the parallel bars in a grid for the escape of dust and extraneous matter in cotton, in the

dust-cage (dust'kāj), n. In a cotton-scutching machine, a drum or cylinder with a perforated surface, against which the cotton is hlown and from which it is taken in the form of a fleeco or sheet. By means of a draft-fan and condults attached to the ends of the cylinder the dust is removed from the cotton through the perforations.

dust-collector (dust'ko-lek*tor), n. In milling,

a machine for removing and collecting the dust from purifiers and other milling-machines. It consists of a large number of cloth cylinders, placed radially, through which the dust-laden air is blown, the air escaping through the cloth and leaving the dust in the cylinders to be removed as fast as it collects.

dust-counter (dust'koun"ter), n. An instrument for counting the number of particles of ment for counting the number of particles of dust in a unit volume of air. It is made in several forms, but in each a small volume of air is suddenly expanded so that it cools to the dew-point, and the moisture condensing on the dust-nuclei brings them down to rest on the surface of a glass mirror, where they may be counted. The air along the French and Italian Riviera, for example, contains sometimes many thousands of dust-particles per cubic centimeter, the purest observed having 750. On the Rigi Kulm the lowest number is lated to the lowest number is 16. Auguste (duste (duste (duste (duste))). It is a late of the lowest number (a) the duste (duste (duste (duste (duste))).

dustee (dus-te'), n. [Varied from fustce?] The offspring of a fustee and a white. [West Indies.] duster, n. 6. An apparatus or device, usually employing a current of air, for removing dust or fine particles from any material, such as grain, ore, rags, and the like. - 7. A light wool or linen blanket, embroidered or plain, used as or linen blanket, embroidered or plain, used as a cover for the lap, in driving, to protect the elothing from dust.—8. A test-well which fails to reach water; a dry hole. [U. S.]

which two ropes are used.

dutch, v. t.—To dutch it, in euchre, to name a different color when the trump is turned down.

Dutchman, n. 3. [l. e.] A layer of suet fastened with skewers into a roast of lean beef or

dust-feather (dust'feth"er), n. See feather. dust-figure (dust'fig" $\bar{u}r$), n. A regular figure formed on the surface of a body by the deposition of dust. The dust adheres to certain parts of the surface, sometimes by osmosis, sometimes by electric attraction, sometimes by a special physical or chemical affinity between special kinds of dust and special parts of the solid surface.

dust-flow (dust flo), n. A stream or land-slide

of water-saturated volcanie ashes.

Few days, however, pass without clouds of steam rising from the crater, accompanied from time to time by dust-flows down the gorge to the Rivière Blanche to the south-west or across the basin of the Lac des Palmistes to the east.

E. O. Hovey, in Science, July 1, 1904, p. 24.

dust-fog (dust'fog), n. 1. A whitish fog formed of vapor-dust or the finest kind of mist, differing from the dust-haze which frequently follows volcanic eruptions and is formed of fine dust-particles or nuclei upon which vapor has begun to condense.

nary measure.

D. V. M. S. An abbreviation of Doctor of Veterinary Medicine and Surgery.

D. V. S. An abbreviation (a) of Doctor of Veterinary Science; (b) of Doctor of Veterinary

Cold winds from the north-east, accompanied by dust-fogs, began only in December, and then the cold reached It Fahr., and even 5° Fahr. at night. Geog. Jour. (R. G. S.), IX. 549.

dust-haze (dust'hāz), n. See haze1.
dusting (dus'ting), n. 1. The act of easting
dust or powder upon anything: specifically, in eeram., sprinkling over the damp, unburned elay, through a canvas bag, powdered lead or galena, which in the kiln will fine into a glaze. This method of lead-glazing was employed in England for common red pottery. See lead-glaze and *plumbiferous, 2.—2. The act of brushing the dust from a surface, as of a table,

chair, floor, etc. **dust-plate** (dust-plāt), n. A plate placed in front of the cinder-outlet of an iron blastfurnace, which usually serves also to support the slag-runner, so that the workmen may be protected from dust and solid particles which may be blown through the cinder-opening by the blast.

dust-pressed (dust'prest), p. a. See Prosscr's *process.

dust-proof (dust'pröf), a. Proof against dust; capable of excluding dust.

dust-shower (dust'shon"er), n. A cloud of dust which, having been caught up into the upper atmosphere by a violent wind in one place, is blown, it may be, long distances, and precipitated with or without rain or snow.

See also *sea-dust.

dust-trunk (dust 'trungk), n. A conduit through which cotton is blown (in the early processes of manufacture) and the dust knocked out by the cotton striking against

projecting fins or plates.

dust-vapor (dust'vā-por), n. See *rapor-dust.
dust-wind (dust'wind), n. A wind that brings
dust-storms, such as the northwesterly gales
on the eastern coast of Australia. Geog. Jour. (R. G. S.), XVIII, 91.

dust-wisp (dust'wisp), n. A delicate spray or stria of dust or ice-spiculæ floating in the sky among the sunrise and sunset colors; usually of a steely-white tint and hence high up in the atmosphere.

This was of an unmistakably volcanic character, differ-In its was of an unmistakably volcanic character, different from anything that has appeared here since the Krakatoa sunsets, though not equal to those in splendour, Since that maximum, the colouring has been gradually lessening. Yesterday and to-day it was remarkably weak, the chief feature being the dust-virps, which were more conspicuous than I have previously seen them during this apparition.

Nature, Dec. 25, 1902, p. 174.

dusty, a. 4. In bol., covered with granulations simulating dnst. Also farinose, dusty-husband (dns' ti-huz "band), n. The

alpine rock-cress, Arabis alpina.
dusty-miller, n. 3. Same as miller, 3.
dusty-wing (dus'ti-wing), n. Any member of
the neuropterons family Coniopterygidæ: so named from the fact that the wings are covered with a white powder.

Dutch I. a.— Dutch consolation, door, kiln, roof, sauce, See *consolation, etc.— Dutch treat, yellow. See treat, *yellow.

II. n.—Double Dutch. (a) Unintelligible gibberish. (b) A form of the child's game of jumping the rope in which two ropes are used.

Great assistance would have been given in the location of this line of complete saturation had the unsuccessful test wells of the past been divided into two classes, as saltwater wells and dusters, instead of calling them all dry holes, as has generally been done.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 338.

The streaks of Dutchman's-breeches, n. 2. The streaks of

after a storm begins to abate.

duty, n.—Duty of water, in irrigation, the relation which the quantity of water applied hears to the area irrigated. For example, one cubic foot of water per second flowing throughout the irrigating season should irrigate 100 acres. Under a high duty of water 160 or more acres may be irrigated; under a low duty 60 acres or less may be watered. Or, in other units, two and a half acrefect of water held in a reservoir should be ample to furnish water for one acre; or under a high duty one acrefoot of water may irrigate half an acre or more.—Export duty, a sum of money levied by a government upon the exportation of goods. Such duties are unconstitutional in the United States.—Probate duty. See probate-duty.

duv, n. A simplified spelling of dove.

duzen, n. A simplified spelling of dozen.

D. V. M. An abbreviation of Doctor of Veterinary Medicine.

Surgery.

Dwarf male. See *male1.

dwarf-ear (dwarf'er), n. An ear-snail; a gastropod belonging to the family Otinidæ, having

an auriform shell.

dwarfism (dwarf'izm), n. [dwarf + -ism.]The state of being a dwarf or dwarfed; dwarf-

Some predisposition to deformity is noted in funnelbreast, hallux valgus and dwarfsm.

Phil. Med. Jour., Jan. 31, 1903, p. 215.

dway-berry (dwa'ber"i), n. [A reduction of *dwale-berry.] Same as dwale, 3.

dwel, v. and n. A simplified spelling of dwell. dwell, n. 2. An automatic pause in the action of one part of a machine to enable another part to complete its work; specifically, in a sheet-metal drawing-press, a pause in the mo-tion of one die to enable another to continue its work, or a panse in the motion of the two dies to enhance the effect of their combined pressure. It is also utilized to enable one die to serve as a binding-clamp, holding the blank tirmly, while another die draws it into the required shape. A dwell can be produced by the use of a cam or by the omission of some of the teeth of a gear.

dyad. I. n. 5. A group or association of two chromosomes in certain cells, such as the germ-cells in certain stages.—6. In pros., a group of two lines having different rhythms.

Dyads and triads there are in Pindar, but they do not disturb the rhythmical working of the odes.

E. L. Gildersleeve, Pindar, p. liii. N. E. D.

II. a. 2. Noting an axis of twofold symmetry. See *symmetry. dyadics (di-ad'iks),n. That branch of pure math-

ematics which supposes no other regular relation between the principal objects of its study than those which are concerned with the assumption that there are two alternative ways in one or other, but not both, of which each of those objects is determined. For example, if the algebra of necessary reasoning, which is wholly concerned with the dyadic distinction between what is true and what is false, taking no account of greater or less probabilities, be considered in its pure mathematical relations, regardless of its application to logic, the simple mathematical theory that will so result belongs to dyadics.

dyakis-dodecahedral (dī/a-kis-dō/dek-a-hē'dral), a. Of or pertaining to a dyakis-dodeca-hedron or diploid; diploidal.

dyakis-dodecahedron, n. 2. A solid of twenty four faces, somewhat resembling the deltoidal icositetrahedron.

dyakis-hexacontahedron (di "a-kis-hek "sa-kon-ta-hē'dron), n. [Gr. δυάκα, twice, + E. hexacontahedron.] A solid of 120 faces, recip-

rocal to the great rhombicosidodecahedron. **Dyans** (dyä'us), n. [Skt. dyāús (stem dyo), gen. divás (dyos): see Zcus and Jupiter.] In Hindu myth., the god of the sky, answering to the Greek Zeus and the Roman Jupiter in their simpler aspects.

simpler aspects.

dye, n.—Basic dye. (a) Same as *basic stain. (b) See basic *color.—Neutral dye, a dye which results through the interaction between a basic and an acid dye, whereby the scid and basic affinites of the two become mutually saturated: as, for example, the cosinate of methylene-blue.—Oxyazo dyes, a class of artificial coal-tar colors which includes Soudan brown, croccin orange, and others.—Paste dye, a coloring material prepared for dyers' use in the condition of a semi-liquid pasty mass. Artificial alizarin and indigo are among the dyestuffs supplied in this form.—Triphenylmethane dyes, an important class of artificial dyestuffs, of which magenta or fuchsin and ilofmann's violet are prominent examples; made from materials originally derived from coal-tar, and very extensively used in dyeing, especially on wool and silk.

dye-beck, n.—Spiral dye-beck, a kind of dye-vat with

dye-beck, n.—Spiral dye-beck, a kind of dye-vat with a winch, for dyeing piece-goods which are made to pass spirally along the winch, by means of guide-pins, from one end to the other.

dye-box (di'boks), n. In *leather-manuf.*, a box or tray in which the dye is placed and in which the skins are dipped.

the skins are dipped.

dye-leaves (di'lēvz), n. pl. 1. The inkberry or gallberry, Ilex glabra.—2. The sweetleaf, Symplocos tinetoria.

dyer's-weed, n. 2. The woad, Isatis tinetoria.

3. Either of the two American goldenrods, Solidago nemoralis and S. rugasa, somewhat wood in during. See Solidago Sol used in dyeing. See Solidago.

dyestuff, n .- Albumen dyestuff. Same as albumen

dygogram(dī'gō-gram), n. [Gr. δ'(vauις), power, $+ \gamma \omega(v a)$, angle, $+ \gamma \rho a \mu a$, a writing.] A diagram that shows both the horizontal directive magnetic force of the compass-needle on board ship under local influences and its deviation from the meridian for any latitude and sailingcourse; specifically, the dygogram of Captain Colongue (1870) and of A. Smith, from which Paugger obtained the idea of his mechanical dromoscope of 1872.

dyn., dynam. Abbreviations of dynamics.

dyname, n. See dynam, 2. dynamic, a. 5. Sthenic; functional, not organic: as, a dynamic disease. - 6. In bot., capable of strongly swelling on one side: appable of strongly swelling on one side: applied to tissue.—Dynamic action. See *action.—Dynamic agent, in society, whatever produces change, especially progressive change. L. F. Ward, Outlines of Sociol. p. 167.—Dynamic cooling, in meteor., the cooling of a portion of the atmosphere when it expands against a slightly inferior pressure whereby its own internal heat is partly consumed in doing external work.—Dynamic density. See *density.—Dynamic heating, in meteor, the warming of the air, when it is compressed, by virtue of a slightly superior external pressure whereby work is done upon it and an equivalent amount of heat is thereby generated.—Dynamic knowledge, meteorology, etc. See *knowledge, *meteorology, etc.

Dynamical capacity, in physics, same as density. [Rare.]

dynamicity (di-na-mis'i-ti), n. [dynamic + ty.] In chem., same as atomicity or valence. The term has not come into general use.

dynamics, n.—Chemical dynamics, in phys. chem., chemical mechanics as applied to a chemical system which is not in equilibrium but is undergoing changes in the active masses of the reacting substances; the study of the velocity of chemical reactions.—Vital dynamics, the theory of the vital forces in motion, as distinguished from mechanical or chemical forces acting upon the living organism.

dynamist, n. 2. A student of dynamics.

dynamite, n. Z. A student of dynamites.

dynamite, n. Nitroglycerin soaked up by silicious earth as an inert absorbent or 'dope' is now distinguished as dynamite No. I, and the meaning of the word is extended so as to include also numerous mixtures of nitroglycerin with absorbents which increase the force of the explosion. See dope, 3.—Gelatin dynamite, a high explosive used for blasting, made by mixing a cheap absorbent with explosive gelatin.—Lignin dynamite, a tradename for various mixtures of wood-pulp or sawdust with a nitrate, generally sodium nitrate, and more or less nitroglycerin: used as explosives in blasting.

dynamite.shell (di'na-mit-shel').

dynamite-shell (di'na-mīt-shel"), n. A projectile with thin walls and containing a large bursting-charge of dynamite; especially the

shell fired from dynamite-guns.

dynamitic (di-na-mit'ik), a. [dynamite + -ie.] Of or pertaining to dynamite or dynamiters. dynamitist (di'na-mi-tist), n. [dynamite + -ist.] One who favors dynamitism.

dynamo, n.—Compound dynamo, a dynamo in which the field-magnets are excited by both series and shint windings.—Fly-wheel dynamo, a dynamo in which the revolving part, either the armature or field, serves as a fly-wheel for the engine.—Load of a dynamo. See

dynamocosmical (dī "na - mō - koz ' mi - kal), a. In meteor., relating to the terms in the analytical expression for the variations of any meteorological element that are supposed to depend upon the influence of forces external to the earth and therefore solar or cosmical.

dynamogen (di-nam'ō-jen), n. [Gr. δίναμις, power, + -γενής, -producing.] Α trade-name of an explosive consisting of yellow prussiate of potash, potash, chlorate of potash, starch, and charcoal, made into a paste with boiling water and spread with a brush over porous paper, which is then to be dried, cut up, and rolled into cartridges.

rolled into cartridges.

dynamogenesis, n.—Law of mental dynamogeney or dynamogenesis, in psychol., the doctrine that every consciousness tends to express or realize itself in corresponding muscular movements; or, more accurately, that every consciousness tends to kinæsthesis as its natural term. The law is a translation, so to speak, from the law of neural dynamogeny, which asserts that incoming energy of stimulation tends always to be transformed into outgoing energy of hodily movement. Its verification has usually been attempted by means of the dynamometer or some equivalent instrument; a normal pull or squeeze is recorded, and then the pull or squeeze as reinforced by the dynamogenic effect of some sensory stimulus.

H simultaneously with the contraction the subject

If simultaneously with the contraction the subject

received a sensorial impression, the contraction was some-times weakened, but more often increased. This rein-forcing effect has received the name of dynamogeny. W. James, Prin. of Psychol., 11. 379.

dynamogenetic (dî"na-mō-jē-net'ik), a. Same as dunamogenic.

2. Producing force: as, the dynamogenie, a. 2. Producing force: as, the dynamogenie value of food. Smithsonian Rep., 898, p. 543.

dynamogenous (dī-na-moj'e-nus), a. Same as dynamogenie.

dynamogenously (dī-na-moj'e-nus-li), adv. In dynamogenously (drha-mo) e-nds-n), aut. In accordance with the principle of dynamogeny. dynamographic (di^{*}na-mō-graf'ik), a. [Gr. δiναμε, power, + γράφειν, write, + -ie.] Of or pertaining to the graphic recording of force. dynamology (di-na-mol'o-ji), n. [Gr. δύναμης, power, + -λογία, < λέγειν, speak.] The science of forces; dynamics.

In the sciences of organized bodies we find them subdivided by abstraction into categorical sciences, which we call chemology or chemistry, morphology, dynamology or dynamics, ontology or evolution, and psychology.

J. W. Powell, in Amer. Anthropologist, Oct.-Dec., 1901,

dynamometamorphic (dī/na-mō-met-a-môr' fik), a. Pertaining to or characteristic of dynamometamorphism, or changes effected in rocks by movement and pressure. Nature, Aug. 4, 1904, p. 317.

Aug. 4, 1904, p. 317.

dynamometamorphism (dī "na - mō - met - amōr'fizm), n. [Gr. δίναμις, power, + metamorphism.] In petrog., metamorphie changes
produced by mechanical rather than chemical
processes. See metamorphism.

dynamometamorphosed (dī "na - mō - met - amor' fozd), p. a. Metamorphosed by pro-

môr 'fōzd), p. a. Metamorphosed by processes among which earth-movements are the

controlling factors.

dynamometer, n. 2. An instrument for determining the magnifying power of a telescope by measuring the diameter of the little image of the object-glass which is formed just outside of the eyepiece: usually, and better, called dynameter, to distinguish it from the instrument for measuring stress.

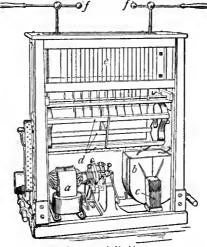
dynamophone (di-nam'ō-fōn), n. [Gr.δίναμις, power, + φωνή, sound.] A form of transmission dynamometer in which the twist of a running-shaft is determined by the aid of specially mounted telephones whose relative angular positions, when giving the same tone vibrations, can be accurately measured and compared with those when the shaft is at rest.

Aug. 29, 1902, p. 339.

dynamoscope (dī-nam' ō-skōp), n. [Gr. δίναμις, power, + σκοπεῖν, view.] An appliance for anscultating a muscle during its contraction.

dynamoscopy (di-na-mos 'kō-pi), n. [dynamoscope + -y³] The use of the dynamoscope in listening to the murmur produced by contracting muscular fibrils.

dynamostatic (di^{*}na-mō-stat'ik), a. [Gr. δίνα-μις, power, + στατός, ζ ἰστασθαι, stand: see static.] Static in connection with power. — Dynamostatic machine, a machine designed by



Dynamostatic Machine.

a, dynamo or converter; b, step-up transformer; c, laminations; d, revolving-frame; c, glass condensers; f, spark-terminals.

Professor E. Thomson, which gives very high direct-current voltage of considerable power. It consists of an alternating-current generator or inverted converter (see *converter'), a step-up transformer (see *transformer'), a series of glass-plate condensers, and a frame revolved

synchronously with the converter, which charges the con-densers in parallel and connects them in series for discharge.

dynamotor (dī'na-mō-tor), n. [Gr. δίνα(με), power, + E. motor.] A combined electrical motor and generator by means of which direct current can be drawn from the source of supply at one voltage and delivered for use at another voltage. The dynamotor is used for other voltage. electroplating, and has various functions in laboratories which employ electric power.

dyne-centimeter (din-sen'ti-mē-ter), n. 1.
The c. g. s. unit of work; the work done by a dyne of force acting through one centimeter; an erg.—2. The c. g. s. unit for moment of force; a unit of torque; the moment of a force of one dyne acting at the end of an armone. of one dyne acting at the end of an arm one centimeter in length.

dyophone (di'ō-tōn), n. [Gr. δio , two, $+ \phi \omega \nu \eta$, sound.] In acoustics, an instrument for the simultaneous production of two tones differing in composition or timbre but of equal

dyophysite (dī-of'i-zīt), n. [Gr. δύο, two, + φύσις, nature, + -ite².] Same as diphysite. dyophysitism (dī-of'i-zī-tīzm), n. [dyophysite + -ism.] Same as dinhusition

dyofnystism (di-of 1-21-121), h. [agophysice + -ism.] Same as diphysitism.

dyotheletian (di-oth-e-lē'shian), a. [Gr. δv_0 , two, $+\theta \epsilon \lambda \eta \tau \eta_{\mathcal{E}}$, one who wills, + -ian.] Of or pertaining to the doctrine that there are two wills in Christ.

The monotheletian patriarchs and the dyotheletian popes mutually anathematized each other.

A. F. Heard, Russ. Church and Russ. Dissent, p. 2.

dyotheletism (dī-oth'e-lē-tizm), n. Same as

lyphone (di'fōn), n. [Irreg. spelling for diphone, as if meaning 'having a doubled, that is, increased sound.'] A powerful double lute dyphone (dī'fōn), n. with fifty strings, invented by Thomas Mace of London in 1672.

dysacousis (dis-a-kö'sis), n. [Also disacusis; NL., ζ Gr. δυσ-, ill, + άκουσις, hearing.] Incomplete deafness; hardness of hearing. Also dusacusis.

dysalbumose (dis-al'bū-mos), n. [dys-+albumose.] A variety of hetero-albumose which results from the latter on standing. It is insoluble in a dilute saline solution.

dysaphe (dis'a-fē), n. [NL., \langle Gr. $\delta v\sigma$ -, ill, + $a\phi h$, touch, \langle $a\pi \tau \epsilon \nu \nu$, touch.] Impaired sense of touch.

dysaphia (dis-ā'fi-ā), n. [NL.] Same as

dysarthrosis (dis-är-thrō'sis), n. [NL., \langle Gr. $\delta v\sigma$ -, ill, + $\dot{a}\rho\theta\rho\omega\sigma\iota\zeta$, jointing: see 'arthrosis.]

1. Same as dysarthria.—2. Congenital defect causing limited movement of a joint .- 3. Dis-

causing innited movement of a joint.—3. Dislocation of a joint.—4. A false joint. dysboulia (dis-bö'li-ä), n. [NL., \langle Gr. $\delta v \sigma \beta o v - \lambda a$, ill counsel (taken as 'difficult willing'), $\langle \delta v \sigma_{-}$, hard, ill, $+ \beta o v \lambda \eta$, will, wish, counsel.] Impairment of the power of the will. Also written dysbulia. Baldwin, Dict. of Philos. and Bayes of the 18.77 Psychol., II. 817.

dyschromia (dis-krō'mi-ä), n. [NL., ⟨ δυσ-, hard, ill, + χρῶμα, color.] Same as dyschroia. dyschronous (dis'krō-nus), a. [Gr. δυσ-, ill, + χρόνος, time.] Ill agreeing, or disagreeing, in time: opposed to synchronous.

It [consciousness] has a selective power, manifest both in choosing and in combining sensations received at different times. It can make synchronous impressions dyschronous in their effects, and dyschronous impressions synchronous. dyschronous impressions Science, July 4, 1902, p. 5. synchronous.

dyscinesia, n. Same as dyskinesia. dyscoria (dis-kō'ri- $\frac{1}{2}$), n. [NL., $\frac{1}{2}$ Gr. $\delta v \sigma$ -, ill, $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ Gr. $\frac{1}{2}$ for $\frac{1}{2}$ Gr. $\frac{1}{2}$ $\frac{1}{2}$ Gr. $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ Gr. $\frac{1}{2}$ $\frac{1}{2}$

dyscrasial (dis-krā'si-al), a. [dyscrasia +

dysderid (dis'dē-rid), n. and a. I. n. A member of the family Dysderidæ.

II. a. Having the characteristics of or be-

longing to the family Dysderidæ.

[L. dusdysenteriform (dis-en-ter'i-fôrm), a. enteria, dysentery, + forma, form.]

enteria, dysentery, + forma, form.] Resembling dysentery.

dysentery, n. Recent researches have shown that there are at least two diseases, and possibly more, having the same general symptoms and still grouped under the common designation of dysentery. One form, distinguished as bacillary dysentery, is characterized by the presence of a specific bacillus, Bacillus dysenteriæ or Shiga's bacillus (so named after the Japanese physician who discovered it). Another form, amebic dysentery, is associated with the presence in the intestine of a unicellular animal micro-organism, Amaba dysenteriæ. This form is less acute in its onset than bacillary dysentery,

dysentery-root (dis'en-ter-i-rot), n. The stickseed or beggar's-lice, Lappula Virginiana, from the supposed medicinal properties of the

root. Also called dysentery-weed.

dysentery-weed (dis'en-ter-i-wed), n. 1. Same as *dysentery-root.—2. The low cudweed or

wartwort. Gnaphalium uliqinosum.

dysgalactia (dis-ga-lak'ti-ä), n. [NL., ζ Gr. dysphasic (dis-fā'zik), a. Relating to or sufferδυσ-, ill. hard, + γάλα (γαλακτ-), milk.]

Diminished secretion of milk, or secretion of dysphonic (dis-fō'nik), a. Relating to or suffering from dysphosia. milk of an unhealthy character.

dysgenesia (dis-je-nē'si-ä), n. [NL.] Same

as dysgenesis.

dysgeogenous (dis-jē-oj'e-nus), a. [Gr. δυσ-, dysgeogenous (dis-jē-oj'e-nus), a. [Gr. $\delta v\sigma$, ill, $+ \gamma \bar{\eta}$, earth, $+ - \gamma ev \gamma \eta$, -producing.] Disintegrating slightly or not at all into detritus (said of rocks); resisting decomposition; hence, coarse and little retentive of water (said of soils): opposed to *eugeogenous. dyslexic (dis-lek'sik), a. [dyslexia + -ic.] Relating to or affected with dyslexia. dyslochia (dis-lo'ki-ä), n. [Gr. $\delta v\sigma$ -, ill, +

dyslysin (dis'li-sin), n. [Gr. $\delta v\sigma$, ill, $+\lambda i\sigma u\varsigma$, dysprosium. dysprosium. dysprosium (dis-prō'si-um), n. [NL.] In duct of cholalic acid. $C_{24}H_{36}O_{3}$, formed during the process of intestinal putrefaction.

Compared to the supposedly distinct elements of the yttrium group contained in samarskite that $C_{34}H_{36}O_{34}$ and $C_{34}H_{36}O_{34}$ formed during the process of intestinal putrefaction.

dysmenia (dis-mē'ni-ā), n. [NL, \langle Gr. $\delta v\sigma$ ill, $+ \mu \bar{\eta} v$, month.] Same as dysmenorrhea. dysmenorrheic (dis-men-o-re'ik), a. Same as

dusmenorrheat.

dysmnesia (dis-mne´si-ä), n. [NL., \langle Gr. δυσ-, hard, ill, + μνησις, memory.] Forgetfulness; impaired memory.

The parties $\frac{1}{2}$ and $\frac{$

dysosmia (dis-os'mi-ä), n. [NL., < Gr. δυσοσμία, ill smell (taken in NL. as 'difficulty of smelling'), ζ δίσοσμος, ill-smelling, ζ δυσ., ill, + οσμή, όδμή, smell.] Loss in whole or in part of the sense of smell.

dysostosis (dis-os-tō'sis), n. [NL., irreg. for *dysosteosis, ζ Gr. dνσ-, ill, + δστέον, bone, + -osis.] Imperfect formation of bone.

dyspepsia, n.—Acid dyspepsia, impaired digestion due to extreme acidity of the gastric juice.—Reflex dyspepsia, impairment of the digestive powers as a result of reflex nervous influence, due, for example, to eye-estrain.—Salivary dyspepsia, impaired digestion due to deficiency or altered character of the saliva.

dyspepsiodynia (dis-pep*si-ō-din*i-ä), n. [NL., Gr. δυσπεψία, dyspepsia, + ὀδύνη, pain.] Heartburn.

burn.

dyspeptodynia (dis-pep"tō-din'i-ä), n. [NL.] Same as *dyspepsiodynia.

but may continue for months or even years, causing great emaciation and anemia, and not infrequently leading to abscess of the liver.

An insoluble modification of hetero-albumose which results from the latter on prolonged eximant experiments. posure to water or on drying. Also termed dysalbumose.

dysphasia (dis-fā'ziā), n. [NL., \langle Gr. $\delta v\sigma$, hard, + $\phi \acute{a}\sigma \iota \iota$, a speaking.] Difficulty of speech which does not amount to actual

dysphonic (dis-to may), a. Recause suffering from dysphonia. **dysphotic** (dis-fo'fik), a. [Gr. $\delta v \sigma$ -, ill, + $\phi \bar{\nu}_{S}$ ($\phi \omega \tau$ -), light, + ie.] In phytogeog: (a) Poorly lighted: designating the dim tract behavior of the sufficient archetic levels in a hody tween the photic and aphotic levels in a body of water.

The flora of the dysphotic region [in fresh-water takes] is composed almost exclusively of microphytes, Diatomacee in particular; but exceptionally a few macrophytes have been observed in it.

A. F. W. Schimper (trans.), Plant Geog., p. 811.

(b) Adapted to live in such a tract: as, a

dyslochia (dis-lō'ki-ā), n. [Gr. δυσ-, ill, + λοχία, lochia.] Cessation in whole or in part of the lochial discharge.
dyslogia (dis-lō'ji-ā), n. [NL., ⟨Gr. δυσ-, ill, + λόγος, reason.] Impairment of the reasoning faculties. Baldwin, Dict. of Philos. and Psychol., II. 571.
dyslogical (dis-loj'i-kal), a. Characterized by dyslogia or the disturbance of thought shown by a jumbled order of words in speech or
do Adapted to A. (dysphotic flora. dysphotic plant, a dysphotic flora.
dyspnæa, n.—Cardiac dyspnæa, difficult respiration due to sluggish philonomy circulation, and consequent deficient aration of the blood, from heart-disease.— Expiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiration.—Renal dyspnæa difficult respiration due to sluggish philonomy circulation, and consequent deficient aration of the blood, from heart-disease.— Expiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in inspiratory dyspnæa, a form of dyspnæa in which the chief difficulty is in expelling the air from the lungs.—

Tranbe's dyspnæa, a form of dyspnæa in which the chief difficulty is in expelling the air from the lungs.—

Tranbe's dyspnæa, a form of dyspnæa in which the chief difficulty is in expelling the air from the lungs.—

Tranbe's dyspnæa, a form of dyspnæa in which the chief dif

chem., one of the supposedly distinct elements of the yttrium group contained in samarskite and gadolinite, closely related to holmium, but

distinguished from it by a special absorption-spectrum. Symbol, Dy; atomic weight, 162.5. **dysrhythmia** (dis-rith mi- \ddot{a}), n. [NL., $\langle \delta v \sigma_{\gamma}$, ill, $+ \dot{\rho} v \theta \mu \dot{\phi}_{\zeta}$, rhythm.] In pathol., an ocea-sional disturbance of rhythm.

dyssynchronous (di-sing'krō-nus). a. [Gr. $\delta v\sigma$ -, bad, ill. $+\sigma i\tau$, with, $+\chi \rho \delta v\sigma$, time.] Not coincident as to time: not synchronous. dystaxia (dis-tak'si-ä), n. [NL., \langle Gr. $\delta v\sigma$ -, ill. $+\tau \delta \xi v$, disposition, order.] Tremor simi-

ill, $+\tau \delta \xi \iota c$, disposition, order.] Tremor similar to that which occurs in paralysis agitans. dysteleological, a. 2. Of the nature of or pertaining to dysteleology.

Arguments [from design] . . . eut both ways, as the formidable array of facts capable of an equally cogent dysteleological application sufficiently shows.

J. Ward, Naturalism and Agnosticism, I. 6.

tures a nectary from below without coming into contact with the anthers, thus frustrating the end of cross-fertilization.

dysthanasia (dis-tha-nā'si-ä), n. [NL., < Gr.

δυσθάνατος, bringing a hard death, < δυσ-, hard,

+ θάνατος, death.] A painful death. **dysthymia** (dis-thi'mi-ä), n. [NL., < Gr. δυσθυμία, despondency, < δύσθυμος, despondency, melancholy, low in mind, $\langle \delta v \sigma_{\gamma}$, ill, $+ \theta v \mu \delta c_{\gamma}$, mind.] Mental depression.

dysthyroidism (dis-thi'roid-izm), n. [dys-+ thyroid + -ism.] A morbid state marked by impaired function of the thyroid gland, **dystopia** (dis-tō'pi-ä), n. [NL., \langle Gr. $\delta v\sigma$ -, hard, $+ \tau \delta \pi \sigma \varsigma$, place.] Malposition; dislocation.

dystraumia (dis-trâ'mi-ä), ν. [NL., < Gr. δισ., hard, + τραῦμα, wound. The formation really means 'a condition of being hard to wound.'] A condition in which the healing processes are sluggish.

dystrophy, n.— Progressive muscular dystrophy, same as progressive muscular atrophy (which see, under progressive).— Pseudohypertrophic dystrophy. Same as pseudohypertrophic paralysis (which see, under paralysis).

dysuresia (dis-ū-rē'si-ā), n. [NL., ⟨Gr. δυσ-, hard, + οἰρησις, urination.] Same as dysuria. dysuresis (dis-ū-rē'sis), n. [NL., ⟨Gr. δυσ-, hard, + οὐρησίς, urination.] Same as *dysuresia.

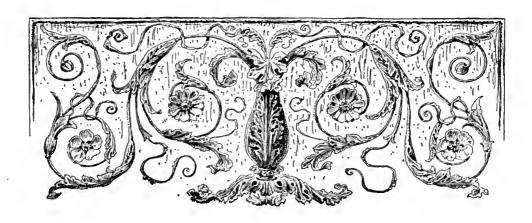
dysyntribite (di-sin'tri-bīt), n. [Appar. an error for *dyssyntribite, irreg. < Gr. δυσ-, ill, + συντρίβειν, shatter (σίν, together, + τρίβειν, rub, scrape), + -ite².] An impure massive rub, scrape), + - ite^2 .] An impure massive mineral or rock, resembling serpentine in appearance, but near pinite in composition: it occurs in Jefferson county and elsewhere in northern New York and is doubtless pseudomorphous in origin.

Dyvour's habit. See *hobit.
dzo (dző), n.; pl. dzos (collective dzo). [Tibetan dzo (Jaeschke, 1866, p. 33).] A hybrid, the



result of a cross between the male of the water buffale and the female of the domesticated yak. The dze are kept for beasts of burden and for the milk yielded by the cows.

They also breed herds of dzo, a very valuable hybrid between the eow [buffalo] and yak, and capable of carrying eighty pounds more than either the horse or mule. The male dzo is used for ploughing, and the female gives more milk than any other of the bowlne race. . . . From the hair of the dzo and yak the Mantzu prepare a heavy felt used for hoots and for circular cloaks, worn in cold or wet weather. Geog. Jour. (R. G. S.), X. 36.







times used as the symbol for erbium: more commonly Er. (e) The common symbol for the modulus of elasticity, or the force, in pounds, required

to stretch a bar of any material one square inchineross-section until its length is increased by one hundred per eent. (f) In elect., a symbol for electromotive force. — 5. An abbreviation (e) of Earl; (d) of Eastern; (e) of English; (f) in exper. psychol., of experimenter. E. A. An abbreviation of entered apprentice, in freemasonry.

acid (ë'as*id), n. [Prop. e-acid or E-acid, appar. for E(mmens's) acid.] The name given by Dr. Emmens of New York, in 1888, to a eacid (ē'as"id), n. substance which he assumed to be a new organic acid, but which in fact was merely pierie acid or trinitrophenol crystallized from solution in strong nitric acid and perhaps retaining a little

eagle, n., 1. The eagle is the emblem of St. John the Evangelist and for this reason is placed on lecterns from which the gospels are read. It is also the emblem of regal and imperial power and as such was adopted by the Roman and Koly Roman Empires.

A have foreign coin which circulated in

9. A base foreign coin which circulated in England in the reign of Edward I.—Bearded eagle. Same as bearded vulture.

eagle-fern (ē'gl-fern), n. See *fern¹.
eagle-hawking (ē'gl-hâk"ing), n. The plucking of wool from dead sheep. [Bushman's Eng., Australia.]

Eng., Australia.]

ear¹, n., 8. (y) In archery, the stiff portion of a reflex bow at the end of each limb and including the nock. The ear works stiffly in order that the curve of the bow may be more readily reverted in stringing it.—Blainville ears, congenital inequality in size and configuration of the two ears.—Cagot ear, absence of the lobule of the ear.—Caulinower ear, a shrunken ear following the absorption of effused blood after an injury.—Darwinian ear, an ear in which the upper portion of the helix is defective.—Diabetle ear, mastoiditis occurring as a complication of diabetes.—Ear veslele, a cystic structure constituting the organ of heaving in mollusks and worms. See cut under Symaptidæ.—Insane ear, hematoma auris.—Morel ear, a large flabby ear in which the curves of the concha are not pronounced.—Stahl ear, an abnormally broad external ear.—To be on one's ear, to be very angry or much exasperated. [U. S. slang.].—Vestibule of the ear. See membranous vestibule, under vestibule.—Wildermuth ear, ahnormal prominence of the antihelix.

earbow (ēr'bō), n. The forehead-piece of a

earbow ($\bar{e}r'b\bar{o}$), n. The forehead-piece of a bridle when it is made to pass before one ear and behind the other.

ear-covert (er'kuv"ert), n. In ornith., one of the tufts of feathers covering the external opening of the car.

ear-crystal (ēr'kris"tal), n. Same as otolith. ear-cushion (ēr'kush"on), n. A small eushion designed to be hung in the back of a coach as a head-rest.

ear-finger (ër'fing ger), n. The fifth or little finger: also called the auricular finger.

stock

ear-forceps (ēr'fôr"seps), n. very delicate foreeps for removforeign ing auditory canal.



bodies from the external audi
Ear-fly (Chrysops univitatus), Much enlarged, (U. S. D. A.)

3. (c) (3) [cap.] The sign ear-minded (er'min*ded), a. In psychol., havof residuation (which see). ing a marked tendency to carry on mental (d) [cap.] In chem., someoperations (remembering, thinking, imagining. dreaming, etc.) in terms of auditory images; of an auditory, as opposed to a visual or motor type of mental constitution. A person is called ear-minded, in a narrower sense, when his memory is chiefly or exclusively auditory; and, in a still narrower sense, when his verbal memory is thus auditory in type.

Notwithstanding the fact that he was decidedly visual,

he had a strong tendency to be ear-minded.

W. B. Secor, in Amer. Jour. Psychol., X1. 228.
ear-mindedness (ēr'mīn"ded-nes), n. In psychol., a type of mental constitution, characterized by the predominance of auditory processes as vehicles of the complex mental

functions (thought, memory, etc.). Baldwin, Diet. Philos. and Psychol., II. 571.

ear-muff (ēr'muf), n. One of a pair of coverings for the ears, made of cloth or fur, worn as a protection against wind and cold.

ear-plug (ēr'plug), n. 1. An ornament in the form of a plug, worn in the lobe of the ear.

Numerous copper ornaments were found, such as pendants and ear-plugs, some of the latter being decorated with symbolic designs.

Nature, June 9, 1904, p. 138.

2. A stopper (made of cotton-wool and wax, of a vaselined cork, etc.) for closing the aperture of the one ear, while a stimulus is applied

to the other. ear-sand (ēr'sand), n. Same as ear-dust.

ear-sand (er'sand), n. Same as ear-alast.

ear-splitting (ēr'split'ing), a. Deafeningly earth-pitch (erth'pieh), n. Same as mineral or overpoweringly noisy.

ear-tab (ēr'tab), n. One of a pair of tabs or tags fastened to a cap and tied down over the ta ears and under the throat as a protection from the cold.

ears and under the throat as a protection from the cold.

earth¹, n.—Barbados earth, a friable earthy marl of Miocene age, occurring in the Barbados Islands and accumulated in deposits which rise to a height of over one thousand feet. It is largely composed of the minute silicious skeletons of radiolarians with an intermixture of the calcareous tests of the Foraminifera. According to Ilacekel the number of species of Radiolaria in the Barbados earth is not less than 400 and probably more than 500. This authority regards it as a deep-sea deposit and states that very many of the Barbados radiolarians "are to-day extant and unchanged in the radiolarian ooze of the deep Pacific Ocean."—Black earth, (b) Same as chernozem.—Blue earth, a local name for the stratum which yields amber on the shores of the Islatic Sea.—Cassel earth. Same as Vandyke brown.—Earth quadrant. See *quadraut.—Golden earth, in early chemistry, one of the mames for orpiment or arsenic trisulphid.—Japonic earth, terra Japonica; catechu; cutch.—Rare earth in chem, one of those carths of which the compounds are found in nature only in small quantity and sparingly distributed. The principal rare earths are beryllia, scandia, ceria, lanthana, neodymia, praseodymia, yttria, erbia, terbia, ytterbia, samaria, zirconia, and thoria; but there is doubt as to the individuality of some of these, and several others have received partial recognition.—Rare-earth metals, the metals the oxids of which are known as the rare earths. See *earth.—Red earth, edresidual soil which results from the decomposition of ferruginous rocks; terra rossa.—Residuary earth, soil formed by the decomposition and disintegration of rock, without undergoing transportation. R. D. Satisbury, Geol. Surv. of New Jersey, 1892, p. 45.—Santorin earth, a mineral material of volcanic origin, resembling the Italian pozuolana, found in the Greek island of Santorin, used in making hydraulic cement.

earth-almond (érth'ä/mond), n. The yellow nut-grass or earthnut. Cyperus esculentus. More

earth-almond (erth'ä mond), n. The yellow

earth-aimona (erm a mona), n. The yellow nut-grass or earthnut, Cyperus esculentus. More frequently in the plural.
earth-apple (erth ap"), n. The Jerusalem artichoke, Helianthus tuberosus.
earth-bar (erth bar), n. In elect., a metallic bar forming part of a switchboard and used as a conductor for grounding such circuits. a conductor for grounding such circuits as may be connected with it.

earth-club (erth'klub), n. The squawroot, Conopholis Americana, so called from the elub shape of the plant.

In cleet., the voltearth-drop (erth'drop), n. age or difference of potential at any point be-tween the return conductor of an electric system and the ground.

ear-learning (ēr'ler"ning), n. Learning that is acquired through the sense of hearing. Scripture, Exper. Phonetics, p. 114.

tem and the ground, earth-fork (erth'fôrk), n. A fork with flat tines, used, like a spade, for turning up the earth. earth-glacier (erth'glā'shier), n. A mass of used, like a spade, for turning up the earth. earth-glacier (erth'gla*shier), n. A mass of

land-waste and snow which slides down hill as the snow melts in the spring. J. Geikie, The

Great Ice Age, p. 600. earthing (erth'ing), n. In elect., the act of con-

necting to earth; grounding.
earth-lamp (erth lamp), n. In elect., an incandescent lamp one terminal of which is grounded while the other is connected through a switch to a circuit. It thus serves as an indicator of the insulation of the circuit from earth.

earth-lard (érth'lard), n. The subterranean larvæ of the common European cockchafer,

larvæ of the common European cockchafer, Melolontha vulgaris. [Great Britain.] earth-light (érth'lit), n. Light reflected by the carth: same as earth-shine. earth-louse (érth'lous), n. 1. Any root-feeding aphidid, as the corn root-louse, Aphis maidi-radicis, or the lettuee root-louse, Rhizo-bius lactures.—2. Any one of many soil-inhabiting the control of the contr iting thysanurous insects, especially those of

the family Poduridæ. earth-metal (erth'met al), n. A metal the oxid of which is classed among the earths, as aluminium, the oxid of which is alumina.

earth-pillar (erth pil "ar), n. A column of loose, nnconsolidated material produced by erosion. The best known examples are found in the Tyrol.

A paper by Dr. Christian Kittler on earth-pillars and similar structures. Geog. Jour. (R. G. S.), XL 441.

pitch (which see, under mineral).
earthquake, n.—Submarine earthquake, one
whose origin or focus is beneath the sea, and which affects
the overlying sea-bottom.

earth-return (erth're-tern"), n. In elect., a re-turn-circuit which, instead of being insulated, is grounded throughout, or of which the ground itself forms a principal part: opposed to metallic *return.

earth-sculpture (erth'skulp"tūr), n. The modifying of surface features of the earth by surface agencies; the carving of relief by erosion. earth-shaker (erth'shā"ker), n. A poetic epithet (Gr. $\sigma \epsilon \iota \sigma i \chi \theta \omega \nu$), applied to Poseidon and Zeus.

He [Poseidon] is clearly the impersonation of water rather than either the earth-shaker or the brother of Zeus.

P. Gardner, Types of Greek Coins, p. 503.

earth-shock (erth'shok), n. An earthquake; specifically, the most violent oscillations during the continuance of an earthquake; also, the sudden movement of the ground consequent upon the intentional explosion of a mine or the accidental explosion of a magazine of explosives.

earth-shrinkage (erth'shring kāj), n. In geol. the shortening of the earth's diameter and the lessening of its volume, which are inferred from the deformation of its outer portion, and which are explained by loss of heat, by loss of centrifugal energy, and by loss of porosity.

Under the new hypothesis the earth-shrinkage is due to original porosity and gravitational compression, and is in active operation today. The amount of such spacial reduction has not been estimated, but it must be several times any possible reduction due to cooling.

Amer. Geol., Feb., 1904, p. 112.

earth-slope (erth'slop), n. The slope which loose rock-waste will assume under the influ-

ence of gravity. earth-wave (erth'wav), n. An oscillation of the ground, either vertically or horizontally,

on a small scale, as by the explosion of a mine, or on a large scale, as by earthquakes; a vibra-tion of the crust of the earth as an elastic solid.

earth-wax (erth'waks), n. Same as ozocerite

or mineral war.
earthy, a. 6. In chem., having the general character of the substances known as earths, and of their compounds: as, an earthy salt.

- Earthy degeneration. Same as calcareous degeneration (which see, under degeneration).

eccyclema

ear-tone (ēr'tōn), n. In psychol., a tone due to the constitution of the ear itself, and not to the presence of a wave-motion in the surrounding medium.

The first difference-tone . . . is an ear-tone and not an ir-tone.

E. B. Titchener, Exper. Psychol., l. i. 40.

ear-tuft (er'tuft), n. 1. A tuft of feathers suggesting an ear, as those of the great horned owl.-2. A tuft of feathers arising near the ear-opening, as in the Inea tern .- 3. A tuft or peneil of hair on the tip of the ear, as in the lynx.

the tynx.

east, n.—East-by-north, the seventh point of the compass, counting from north, equal in angular value to 7s° 45′.—East-by-south, the seventh point of the compass, counting from south, equal in angular value to 7s° 45′.—East Coast fever. Same as African Coast ★fever.—East-northeast, the sixth point of the compass, counting from north, equal in angular value to 67° 30′.—East-southeast, the sixth point of the compass, counting from south, equal in angular value to 67° 30′.

east ender (65t ton *fdb), n. An inhabitant of

east-ender (ēst'en"der), n. An inhabitant of the eastern part of a city or town, specifically [cap.] of the East End of London.

easter (ēs'tér), v. i. [easter(ly).] To ehange toward the east, as the wind; move toward the east, as the head of a vessel.

Easter card, lily. See *card1, Bermuda *lily.
Easter-bell (es'ter-bel), n. The greater stitch-wort, Alsine Holostea.

Easter-ledges (es'ter-lej"ez), n. The bistort, Polygonum Bistorta. See Polygonum.

East-Indian (est-in'di-an), a. and n. I. a. Of or pertaining to the East Indies: used in a comprehensive sense.

II. n. A native or resident of the East Indies. easting, n. 2. Reaching the point in its diurnal motion where it crosses the prime vertical and is exactly east of the observer: said of a heavenly body.

Eastlake (ëst'lak)' a. Noting a style of design in furniture, eurrent in England and the United States in the latter half of the nineteenth eentury. It was based on a book entitled "Illints on Household Taste" written by Sir Charles L. written by Sir Charles L.
Eastlake and published
in London in 1809. Eastlake's designs are, for
the most part taken from
the medieval work of
England.



eastmost(ēst'most) Farthest east (of a series or row): as, the eastmost house on a street that runs east and west; easternmost.

Eastralia (ēs-trā'li-ā), n. [East (Aust)ralia.]
A modern colloquial designation for the east-

ern Colonies of Australia. [Australia.]

Eatonia (ē-tō'ni-ā), n. [NL., named for Amos Eaton.] A genus of telotrematous Brachiopoda characterized by large flabellate, deeply excavate muscular sears in the ventral valve and a large bifureate cardinal process. It is of early Devonian age.

early Devonian age.

Eau céleste [F., 'sky water,' alinding to its deep-blue color], a fungicide applied to fruit-trees and other plants as a spray, originally made with copper sulphate and ammonia largely diluted with water, forming a solution of a deep-blue color. The modified cau celeste is now made with 4 pounds of crystallized copper sulphate, 5 pounds of sodium carbonate, 3 pounds of water of ammonia, and 45 gallons of water.—Eau-de-vie de plquette, an inferior brandy, made by distilling the weak wine or piquette obtained by adding water to the mare, or residue of grapeskins, seeds, etc., left in the first expression of grape-fuice, re-pressing and fermenting the liquid. Jour. Soc. Chem. Industry, XI. 258.—Eau forte [F., 'strong water']. See aqua fortis.

eau-fortist (ō-fôr'tist). n. [F., 'can forte +

eau-fortist (ō-fôr'tist), n. [F., < eau forte + -iste, E. -ist.] One who uses can forte or aqua fortis especially in etching; an etcher.

eaves-martin (ēvz'mär"tin), n. The European house-martin or swallow, Hirundo urbica: so ealled because it nests beneath the eaves of

eb, n., a., and v. A simplified spelling of cbb. Eb. In chem., a symbol sometimes used (instead of the more common Er.) for erbium.

or the more common Er.) for erolum.

ebb, n.—Ebb-and-flow structure, in geol., an alternation, in a sandstone, of a cross-hedded layer with a horizontal one indicating a period of deposition in a considerable current succeeded by one of comparative quiet.

Ebenezer (eb-en-ē'zèr), n. [Heb., 'stone of help.'] 1. A stone erected by Samuel (I Sam. vii. 12) as a memorial of divine aid in defeating the Philiptime. Hange—2 Any recognities. the Philistines. Hence -2. Any memorial of eburnean, a. 2. [cap.] In the classification

divine assistance: often adopted as a name for of late geological deposits bearing human a chapel or church.

Here I raise my Ebenezer,

Hither by thy help I'm come;
And I hope, by thy good pleasure,
Safely to arrive at home.

R. Robinson, Come Thou Fount of Every Blessing (old
[version], st. 3.

A contemptuous name for a 'dissenting'

chapel or church. [Eng.]

Eberth's bacillus. See *bacillus.

Ebionize (ē'bi-on-iz), v. i. pret. and pp. Ebionized, ppr. Ebionizing. [Ebion(ite) + ize.] To become an Ebionite, or to affect or imitate the E. C. An abbreviation (a) of Eastern Central,

doctrines and practices of the Ebionites.

ebonine (eb'o-nin), a. [ebon + -mel.] Black;
dark; somber: as, "the cbonine gate of doom,"
F. T. Palgrave.

dark; somber: as, "the chonine gate of doom,"

F. T. Palyrave.

ebony, n.—Black ebony, a trade-name for the wood of Diospyros Dendo. See Niger *chony.—Calabar, Gaboon, Lagos ebony. Same as Niger *chony.—Gebon ebony, the wood of several species of Diospyros, especially D. Ebenaster, D. Ebenum, D. montana, and D. sylvatica.—False ebony, ebony of the Alps. See laburnum.—Green ebony of India, the hard, greenish-yellow wood of Diospyros chloroxylon.—Madagascar ebony, the highly prized wood of two trees, Diospyros Ebenaster and the mabolo, D. mierorhombus.—Manila ebony, the wood of either of two trees, Diospyros Ebenaster and the mabolo, D. discolor. See *mabolo and *kamagon.—Mauritius ebony, the wood of Diospyros Ebenaster and the white ebony.—Mountain ebony of Australia. Same as Queensland *chony, —Niger ebony, the black wood of the dendo, Diospyros Dendo. Also called Calabar, Lagos, Gaboon, and black ebony. See *dendo.—Orange River ebony, the hard, black wood of Euclea Pseudebeuus, a shrub or small tree of the family Diospyraces. See *Euclea, 2.—Queensland ebony, the wood of either of two leguminous trees, Bauhnina Carronti and B. Hookeri. Also called mountain ebony.—Red ebony of Mauritius, the wood of Trochetia Melanozylon, a small tree of the family Stereuliaeeæ indigenous to the island and now nearly exterminated.—Sénégal ebony, the jet- or hrownish-black wood of Duberyia melanozylon, called by the natives dialambam.—Stam ebony, a commercial term for the wood of several species of the genus Diospyros, especially D. Ebenum, D. montana, D. ramiflora, D. Ebenuster, and D. peregrina. See gaub.—Texan ebony, a handsome leguminous tree, Lygia flexicoulis, of western Texas, Arizona, and northern Mexice, especially of the Gulf coast and lower Rio Grande, with light-yellow fragrant flowers in dense spikes, large curved, woody pods, and very hard and heney close-grained wood, often beautifully colored, and hence much prized



Texan Ebony (Zygia flexicaulis). (From Sargent's "Manual of the Trees of North America.")

for Inrniture, etc.—White ebony, a trade-name for the grayish or white-streaked woods of Diospyros melanida and D. chrysophyllos of the Mascarene Islands. D. Malacapai, of the Philippine Islands, also Inrnishes some of the wood sold under this name.—Zanzibar ebony, the wood of Diospyros mespiliformis, a tree distributed over the whole of tropical Africa.

Ebor. An abbreviation of the Latin Local cum, York, or of the Latin Eboracensis, of An abbreviation of the Latin Ebora-

ebriose (ē'bri-ōs), a. [L. ebriosus, < ebrius, drunk: see ebrious.] Drunk: same as ebrious. ebriously (e'bri-us-li), adv. Drunkenly.

Not ebriously swilled but moderately tasted.

T. Newton, Fowre Severall Treatises,

ebulliently (ē-bul'yent-li), adv. In an ebullient manner; overflowingly; 'gushingly': as, ebulliently sentimental.

ebullioscopic (ē-bul vo-skop'ik), a. 1. Of or pertaining to those methods of determining molecular weight, dissociation, osmotic pres-sure, etc., which depend upon measurements sure, eve., which depend upon measurements of the boiling-point. In the challioscopic method for the determination of the molecular weight of a substance the boiling-point of a liquid is observed as affected by the presence of a given proportion of the substance in question dissolved in such liquid. Amer. Chem. Jour., April, 1903, p. 342. [Rare.]

ebullitionary (eb-u-lish'o-nā-ri), a. [cbulli-tion + -aryl.] Of the nature of an ebullition; characterized by a bubbling or boiling com-

eburated (eb'ū-rā-ted), a. [L. eburatus, < having the appearance of ivery. Proc. Zool. Soc. London, 1898, p. 318.

relics, a subdivision of the Paleolithic section in France. It includes the oldest deposits containing well-finished implements associated with carved bone and ivory. It was the period of the manmoth, went back into glacial time, and was followed by the Tarandean or reindeer epoch.

eburneoid (e-ber'ne-oid), a. [L. churneus, of ivory, + -oid.] Ivory-like as regards color; eburneous.

eburnitis (eb-èr-ni'tis), n. [NL., < L. cburnus, of ivory, + -itis.] A condition of increased density and hardness of the dentine of teeth.

a London postal district; (b) of Established Church.

ecardine (ē-kär'din), n. [NL. Ecardines.] A mollusk having a shell without a hinge; a brachiopod.

divide into quarters.] In her., divided into quarters: said of a shield.

ecboline (ek'bō-lin), n. [Gr. ἐκβολή, a throwing out, + -ine².] A brownish amorphous, slightly bitter alkaloid contained in ergot.

eccaleobion (e-kal"ē-ō-bī'on), n. [Irreg. \lt Gr. έκκαλέω, I call forth, + βίον, ace. of βίος, life.] An apparatus for hatching eggs by artificial heat; an incubator.

eccentric. I. a. 7. In astron., noting orbital motion which is not in a circle around the eenter of attraction; as applied to curves generally, deviating from circularity, as the ellipse and hyperbola.—Eccentric projection. See *projection.—Eccentric wheel. (b) In carriages, a fifth wheel so centered that when backing to either side the body of the carriage is thrown to one side of the center, to facilitate turning in a short radius.

II. n.—Adjustable eccentric, an eccentric which is so constructed that the distance between the center of figure and the center of motion can be varied in order to vary the throw of the rod. This result is secured either by slotting the disk of the eccentric, or by mounting one eccentric upon another so that the effective eccentricity of each disk, or may have intermediate values.—Backward eccentric, that eccentric which is used when a location of the eccentric when a location of the eccentric. Same as adjustable ★eccentric.

eccentrolinead (ek-sen-trō-lin'ē-ad). n.

eccentric. Same as anjusators recentric. eccentrolinead (ek-sen-trō-lin'ō-ad), n. [eccentr(ic) + L. linca, line, +-ad3.] A ruler for drawing eccentric radial lines. It is used in designing gears and making drawings of gear-teeth, etc.

ecchondrotic (ek-on-drot'ik), a. Same as *epichondrotic.

ecchondrotome (e-kon'drō-tōm), n. [Gr. èk. out, $+ \chi \delta r \delta \rho \sigma \varsigma$, eartilage, $+ -\tau \sigma \rho \sigma \varsigma$, $\langle \tau a \rho \rho \sigma \rangle$ eut.] An instrument for eutting eartilage.

Eccl. An abbreviation (c) [l. e.] of ecclesiastic; (d) [l. e.] of ecclesiology.

ecclesiarchy (e-kle zi-ār-ki), n. [Gr. ἐκκλησία, ehurch, + αρχή, rule.] The rule of a church; government by ecclesiasties.

ecclesiast, n. 3. A member of the ancient Greek ecclesia; a free Greek citizen having the right to vote in the eeclesia or assembly.

Ecclesiastical emerald. Same as Brazilian \star emerald.

ecclesiasticize (e-klê-zi-as'ti-sīz), v. t.; and pp. ecclesiasticized, ppr. ecclesiasticizing. To render ecclesiastical; bring under the influence of, or into conformity with, the church. ecclesiol. An abbreviation of ecclesiology.

ecclesiolater (e-klē-zi-ol'a-ter), n. [Gr. ἐκκλη-σία, church, + -λατρης, worshiper.] One who shows excessive reverence for church authority, form, and traditions.

ecclesiolatry (e-klē-zi-ol'a-tri), n. [Gr. ἐκκλη-σία, ehureh, + λατρεία, worship.] Worship of the church as such; extreme, undue respeet for the formal observances and authorify of the church.

eccrisiologia (ek-ris-i-ö-lō'ji-ä), n. [NL, ζ Gr. ἐκκρισι, secretion, + -λογια, ζ λέγειν, speak.] That branch of physiology which treats of seeretion: same as eccrinology.

eccritic, n. II. a. Relating to exerction or to any of the exerctory organs: said of a disease which affects these functions or organs, or of a remedy which promotes excretion.

motion; bubbling: as, an ebullitionary agitation.

eburated (eb'ū-rā-ted), a. [L. eburatus, < ekur, ivory.] Covered with, or as with, ivory;

having the approximate of ivory.

Proc. Zeel.

a teneral which promotes a certain eccyclemata (ek-si-klē'mā), n.; pl. eccyclemata -klem'a-tā). [Gr. ἐκκῦκλεῖν, wheel out, ⟨ ἐκ, out, + κυκλεῖν, wheel, ⟨ κἰκλος, a ebur, ivory.] Covered with, or as with, ivory;

having the approximate of ivory.

Proc. Zeel. in some way disclosed an interior to the spectators, as in the murder seene of the "Agamemnon" of Eschylus.

ecdemic (ek-dem'ik), a. home, in foreign lands, abroad, $\langle i\kappa, \text{ out},$ δημος, people.] Originating from without; not endemic: said of diseases. ecdemiomania (ek-deu/i-ō-mā/ni-ä), n. [NL.,

pulse to travel unceasingly.

ecdemite (ek'de-mīt), n. [Gr. ἐκδημος, abroad, +-ite2.] An arsenite of lead containing 8 per cent. of chlorin. It occurs in crystals and in

ecesis (ē-sē'sis), n. [NL. *αcesis, < Gr. οίκησις, habitation, < οίκεῖν, inhabit.] The fixation of

In a word, *Eccsis* is the adjustment of a plant to a new habitat. It comprises the whole process covered more or less incompletely by acclimatisation, naturalisation, accommendation of the completely of the co commodation, etc.

F. E. Clements, Bot. Surv. Neb., VII. 50.

ecethmoid (ek-eth'moid), a. [ec-+ ethmoid.] In ichth., same as *ecto-ethmoid. Science, March

8, 1901, p. 379.

echelon, n. 2. Milit., one of the subdivisions of a command marching in echclon.-3. In optics, a set of glass plates placed one upon another, with the edge of each projecting slightly, stepwise, beyond the edge of the preceding one. The device, which is due to A. A. Michelson, is used for the production of diffraction spectra of high dispersion and resolving power.—Echelon diffraction grating. See *grating2.—Echelon spectroscope, See *spectroscope.

echidnase (e-kid'nās), n. [Gr. ἐχιδνα, viper, + -ase.] A supposed temperature-raising substance analogous to diastases, found in viper

venom.

echidnotoxin (e-kid-nō-tok'sin), n. [Gr. $\dot{\epsilon}\chi\iota\delta\nu a$, viper, +toxin.] A general poison found in viper venom.

schidnovaccine (e-kid-nō-vak'sin), n. [Gr. εχιδνα, viper, + Ε. vaccine.] Viper venom that has been heated for a few minutes to 75-85° echidnovaccine C., and has thus lost its poisonous properties. The remaining solution has the properties of a venom vaccine.

echin. An abbreviation of *echinology.
echinal (e-ki'nal), a. [Gr. ἐχίνος, hedgehog,
sea-urchin (see echinus), + -all.] Pertaining or belonging to a sea-urchin.

echinastrin (ek-i-nas'trin), n. [Echinaster + -in2.] A red pigment found in certain inver-

tebrates, as in starfishes.

echinate (ek'i-nāt), v.; pret. and pp. cchinated, ppr. echinating. [Gr. έχίνος, hedgehog, +-atc².]

I. trans. To project at an acute angle to the axis of (a fiber), giving it a feathery or plumed appearance: said of the spicules in the axinellid type of sponge skeleton.

The spicules so placed are said to "echinate" the fibre. E. R. Lankester, Treatise on Zool., 11. 140.

II. intrans. To project at an acute angle to the axis of a fiber: said of the spicules in a

sponge skeleton.

carina. Its genera possess an elongate bivalved carapace with nodes in the cephalic region and one or more lateral earinæ. They are mostly of Devonian age.

Echinocaris (ek-i-nok'a-ris), n. [NL., ζ Gr. έχἰνος, a sea-urchin, + καρίς, (prob.) a shrimp.]
The typical genus of the family Echinocaridæ. Echinocereus (e-kī-nō-sē'rē-us), n. [NL. (Engelmann, 1848), < Echino (caetus) + Cercus. The name refers to its intermediate position between these two genera.] A large genus of globular or columnar cacti, very closely allied to Cereus, with which some authors unite

it. It is distinguished by the spines, bristles, or wool arising from the bracteate ovary, short funnel-shaped flowers, and spiny globose or elliptical fruit. The species are native from Texas south and west. Some of them are usually found in the collections of cactns cultivators.

Echinochloa (ek-i-nok'lō-ä), n. [NL. (Palisot de Beauvois, 1812), in allusion to the bristly spikelets; ζ Gr. ἐχῖνος, hedgehog, + χλόη, spikelets; C Gr. Exproc, hedgehog, + \(\chi \times \), \(\chi \), \(\chi \), \(\chi \), \(\chi \), \(\chi \) and topical regions. Four species occur in the United States, ranging from New York to Texas. They are usually tall annual grasses with broad leaves and a terminal inflorescence composed of several one-sided spikelike racemes. The European E. Crus-galli, the cockspur or barn-yard grass, is widely distributed as a weed in all cultivated regions except the extreme north.

[Gr. ἐκδημος, from echinochrome (e-ki'nō-krōm), n. [Gr. ἐχῖνος, broad, ζ ἐκ, out, + sea-urchin (see echinoderm), + χρῶμα, color. Same as *cchinochromogen.

echinochromogen (e-kī-nō-krō'mō-jen), n. [Gr. $\xi \chi \hat{\imath} vo_{\mathcal{C}}$, sea-urchin, $+\chi \rho \delta \mu a$, color, $+\gamma e \nu h_{\mathcal{S}}$, -producing.] A yellowish pigment found in echinoderms; also called *echinochrome*.

echinococcosis (c-ki"nō-ko-kō'sis). n. [NL., < scholaris of Linnæus). It crystallizes in needles Echinococcus + -osis.] Infection with Echino-coccus, the larval stage of a tapeworm which echitenine (c-kit'e-nin), n. [Echit(cs) + -ene echinococcosis (e-ki"nō-ko-kō'sis), n.

+-ite².] An arsenite of lead containing 8 per cent. of chlorin. It occurs in crystals and in massive forms, ranging in color from yellow to green: found in Sweden. Also called heliophyllite.

Echinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, green: found in Sweden. Also called heliophyllite.

ecesis (ê-sē'sis), n. [NL. *acesis. ⟨ Gr. οἰκησις, habitation, ⟨ οἰκεῖν, inhabit.] The fixation of a migrating plant in a new habitat.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, habitation, ⟨ οἰκεῖν, inhabit.] The fixation of a migrating plant in a new habitat.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, helmet.] A genus of spattangoid Echinoidea or sea-urchins. It has a large val actinally high test, biporose ambulacra, oval peripatest. It is very stome, and inframaginal posterior periproct. It is very some in the Upper Cretaceous formation. Same as Ananchytes.

Echinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li is very the larval stage of a tapeworm which lives in the dog; hydatid disease.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li is very the larval stage of a tapeworm which lives in the dog; hydatid disease.

Lechico. (e-kit'e-nin), n. [Echit(cs) + -ene the lives in the dog; hydatid disease.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li lives in the dog; hydatid disease.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li lives in the dog; hydatid disease.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li lives in the dog; hydatid disease.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li lives in the dog; hydatid disease.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li lives in the dog; hydatid disease.

Lechinocorys (ek-i-nok'ō-ris), n. [Gr. ἐχῖνος, H-ōro²-la li lives in the dog; hydatid disease.

Lechinocorys (e-i-nok'ō-ris), n. [Gr. ἐχῖνος, he-i-noc'-la li lives in the lives in the dog; hydatid disease.

Lechites (e-kī'tēz), n. [NL (e-kī'tēz), n. [NL (e-kī'tē

Echinocotyle (ē-kī-nō-kot'i-lē), n. $\dot{\epsilon}\chi\dot{t}\nu$ oc, hedgelog, + $\kappa\sigma\dot{t}\nu\lambda\eta$, a socket.] The typical genus of the family *Echinocotylidæ*. The metacestode stage of *E. rosseteri*, which is parasitic in the duck, occurs in the ostracode crustacean, *Cypris cinereus*. *Blanchard*, 1891.

Echinocotylidæ (ē-kī"nō-kō-til'i-dē), n. pl. [NL., 〈 Echinocotyle + -idæ.] A family of tetracotylean Cestoidea having the acetabula armed and the rostellum furnished with one or two circlets of hooklets. They are parasitie

in birds. The typical genus is *Echinocotyle*. **Echinocystis**, n. 2. A genus of Lower Silurian cystideans of the family *Cryptocrinidæ*.—

3. A genus of Silurian *Palæechinoidea*, of the family Cystocidaroida.

echinoidean (ek-i-noi'di-an), a. and n. Same as echinoid.

echinologist (ek-i-nol'ō-jist), n. [echinolog(y) + -ist.] One who is versed in echinology or the study of echinoderms.

echinology (ek-i-nol'o-ji), n. [Gr. $\dot{\epsilon}\chi\bar{\nu}\nu\sigma$, seaurchin, + - $\lambda\sigma\nu a$, $\langle\lambda\dot{\epsilon}\gamma\epsilon\nu$, speak.] That branch of zoölogy which treats of echinoderms.

echinophthalmia (e-ki-noph-thal'mi-ä), n. [NL, ζ Gr. εχίνος, hedgehog. + ὁφθαλμός, eye.] A form of inflammation of the eyelids characterized by stiffness and projection of the lashes. echinoplute (e-kī'nō-plöt), n. [NL. echinoplu-Same as *cchinopluteus.

echinopluteus (e-kī-nō-plö'tē-us), n. [NL., $\langle \text{Gr. } \hat{\epsilon}_{\lambda} \hat{\iota}^{\nu} \rho_{\sigma} \rangle$, sea-urchin, + NL. pluteus.] The pluteus, or free-swimming larva, of a sca-

ūrchin.

Echinopsis (ek-i-nop'sis), n. [NL. (Zuccarini, 1836), in allusion to the spiny character of the plant; ζ Gr. εχίνος, hedgehog, + δψις, view.] A South American genus of Cactaccæ, marked by spherical or very short sharp-ribbed stems and very long tubed cereus-like flowers with the overy and tube narrow-bracted. It is closely related to Cereus and has been combined with that genus by some authors. It consists of about 20 species. A number of them are in cultivation, for example, E. multiplex, E. Eyriesis, E. gemmata, and E. tubifora.

echinosphærite (e-kī-nō-sfē'rīt), Echinosphærites.] A cystid of the genus Echinosphærites, notably E. aurantium, a form characteristic of the echinosphærite limestone.

See *limestone.

Echinosphærites (e-kī"nō-sfē-rī'tēz), n. [NL., $\langle Gv \ \dot{\epsilon}\chi i voc$, sea-urchin, $+ \sigma \phi a i \rho a$, a ball, +-ites, E. -ite².] A genus of cystideans of the family Echinosphæritidæ. It is characterized by globose non-pedunculate ealyx, central month, short ambulacral grooves, and anal pyramid, and is very abundant in the Lower Silurian of Russia and Scandinavia.

Section of the instrument, containing very a section of the instrument, containing very a section of the instrument, containing very a section of the instrument.

Echinosphæritidæ (e-ki''nō-stē-rit'i-dē), n. pl. [NL., < Echinosphærites + -idæ.] A Silurian family of the Cystoidea, typified by the genus Echinosphærites.

echinothuriid (e-kī-nō-thū'ri-id), a. and a. I. a. Of or pertaining to the family Echinothuri-

II. n. A member of the Echinothuriidæ. echinothurioid (e-kī-nō-thū'ri-oid), a. Having characters similar to those of the Echinothu-

echinulation (e-kin-ū-lā'shon), n. [NL. *echinulus, dim. of L. echinus, sea-urchin, +-ation.] A small spiny or prickly outgrowth.

echinus, n. 5. [cap.] A genus of dicoty-ledonous plants belonging to the family Euphorbiaceæ. See Mallotus.

Echiostoma (ek-i-os'tō-mā), n. [NL., ζ Gr. εχις, serpent, + στόμα, month.] A genus of deep-sea fishes of the family Stomiatidæ. E. burbatum is the common species.

echiretin (e-ki-rē'tin), n. [Echi(tcs) + Gr. $\rho\eta\tau i\nu\eta$, resin.] An amorphous dextrorotatory the genus Eciton. compound, $C_{35}H_{56}O_{2}$, contained in dita-bark, ecl., eclect. Abbreviations of celectic.

Pala scholaris (Echites scholaris of Linnæus). It melts at 52° C.

echitamine (e-ki-tam'in), n. [Echit(es) + aminc.] Same as *ditaine

echitein (e-kit'ē-in), n. [Echit(es) + -e-in.] A colorless dextrorotatory compound, C₄₂H₇₀O₂, contained in dita-bark, Pala schotaris (Echites



as L. echite, \langle Gr. * $\dot{\epsilon}\chi(\tau\eta)$, the name in Pliny (not recorded in Greek authors) for someclimbing plant, prob. clematis, prob. (Gr. έχα, adder.] Alarge genus of twining plants being plants belonging to the
family Apocymaceæ. The genus.
differs from Dipladenia in having a
five-lohed disk in
the flowers and in
bearing a fivescaled or glandularcalyx. They aretropical American
plants, extending
as far north as
southern Florida.
In choice horticultural collections a.

Echites umbellata.

One fifth natural size.

Some fifth natural size.

as E. umbellata, E. Andrewsii, and E. paludosa.

echitin (ek'i-tin), n. [Echit(es) + -in².] A colorless dextrorotatory compound, C₃₂H₅₂O₂, contained in dita-bark, Pala scholaris (Echites exhibition). scholaris of Linnæus). It crystallizes in leaflets melting at 170° C.

echiurid (ek-i-ū'rid), n. Any member of the

family Echiuridæ.

echo, n. 7. In whist, a response to a partner's signal for trumps.—8. In bridge, a method of showing the leader how many eards his partner holds in the suit led, or of indicating that the third head are true the third ward. echo. n. the third hand can trump the third round. The first is called the plain-suit echo, the second the down-and-out echo.—Echo sign, a frequent indication of epilepsy, being the repetition of words or phrases in speech or writing.—Plain-suit echo, in whist and bridge, a method of playing the pone's cards so as to show the leader how the former's suit is distributed. See *echo, n., 7.

[NL. echo, v.i. 4. In bridge, to show the leader genus how many eards the third hand holds in the suit led.

echolalia, n. 2. An agreeable but meaningless arrangement of words in poetry.

The "Eve of Creey" contains two magnificent examples of that mode of poetic expression dubbed "echolalia" by Max Nordau, and as such condemned by him.

A. Vallance, William Morris, p. 19.

a section of the instrument, containing very delicate stops, inclosed in a thick swell-box, which is often placed at a distance from the rest of the organ, so as to be capable of echo or distant effects. Sometimes the echo-organ has a keyboard of its own in the console, but often it is played from either the swell or the choir keyboard through a special mechanism.

echopathy (e-kop'a-thi), n. [Gr. $\eta\chi\dot{\omega}$, echo, + $-\pi a\theta \bar{\nu} a$, $\langle \pi a\theta o g$, disease.] A neurosis characterized by the meaningless repetition of words or movements.

echophrasia (ek " $\bar{\rho}$ -frā'si- \ddot{a}), n. [NL., \langle Gr. $\dot{\eta}\chi\dot{\omega}$, echo, + $\dot{\varphi}\rho\dot{\alpha}\sigma\iota\zeta$, speaking.] Same as ηχώ, echo, echolalia.

echurin (ek'ū-rin), n. [Prob. for *echyrin. < Gr. $\xi \chi v \rho o \varsigma$, strong, secure ($\langle \xi \chi \varepsilon v, hold \rangle + -in^2$.] A dyestuff made by treating a mixture of 3 parts of flavin and 5 parts of pieric acid with 12 parts of nitric acid. It dyes wool a reddish yellow in an acid bath.

ecitophile (e-sit'ō-fil), n. [Eciton + Gr. φιλεῖν, love.] Any inquiline in the nests of ants of the genus Eciton.

Eclectic school. See *school.

Eclectic school. See *school. eclecticize (ek-lek'ti-sīz), v. t.; pret. and pp. eclecticized, ppr. eclecticizing. [eclectic + -ize.] To make selections from: as, to eclecticize and harmonize all mythologies. Maurice. eclectist (ek-lek'tist), n. [eclect-ic + -ist.] One

who favors or who practises eclecticism. N. E. D.

eclipsareon (ē-klip-sā'rē-on), n.; pl. eclipsarea (-ā). [Irreg. < eclipse + -areon (for -arion, -arium).] An apparatus for illustrating eclipses.

eclipse, n.—Cycle of eclipses. See ★cycle1.—Eclipse cyclone. See ★cyclone.—Eclipse variable. Same as ★Alyol variable.

eclipser (ē-klip'ser), n. A mechanical device for automatically interrupting the beam of

eclipsis (e-klip'sis), n. [L. eclipsis, < Gr. εκλειψις, a failing, cessation, non-appearance, eclipse: see eclipse.] 1. An eclipse.—2. Omis--2. Omis sion of a sound or letter; specifically, in Celtic gram., the suppression of the sound of a radical consonant when preceded by another of the same organ. J. O'Donovan, Irish Gram. p. 58.—3. A momentary loss of consciousness. ecliptical (e-klip ti-kal), a. Relating or pertaining to the ecliptic.

ecloge (ek'lō-jē), n. [NL. $cclog\bar{e}$, \langle Gr. $\ell\kappa\lambda o\gamma\eta$, selection: see eclogue.] Selection; specifically, in rhet., a judicious selection of the most striking eircumstances in describing anything.

J. de Mille, Rhet., § 157.

ecmnesia (ek-mnē'si-ä), n. [NL., ζ Gr. ἐκ, out, + μνῆσις, memory.] Loss of memory of events openrring during a limited period of time, recovering during d ollection of what has happened before or after that time heing retained.

that time being retained.

ecoid, n. See ecoud.

ecologic, ecological, ecology. The simpler and now the preferred spellings of ecologic, ecological, ecology.

An abbreviation of economics.

econometer (ē-kō-nom'e-ter), n. An apparatus for determining the economy of a steamboiler by measuring the amount of carbon dioxid (CO₂) which passes up the chimney. economic, a. 6. Relating to value as viewed

from the standpoint of material welfare in contrast with values of other orders. Thus higher Trast with values of other orders. Thus higher education may represent an economic loss to the community, although the social and moral advantages derived from it far outweigh that loss.—Economic botany, cure, freedom, etc. See *botany, etc.

freedom, etc.

freedom, etc. See *botany, etc.

Geonomics, n.—Dynamic economics, a proposed division of political economy dealing with changes in the production, distribution, and consumption of wealth, and the effects of such changes upon social organization.—National economics, a type of political economy which exaggerates the economic significance of national boundaries, bases its deductions upon the idea of a self-sufficing state, and regards international economic relations as merely accidental. Most frequently, however, the term is used synonymously with political economy, in imitation of the German usage.—Pure economics, theoretical political economy, conceived of as an independent, abstract science: contrasted with economics viewed as an integral part of social science, and with the art of political economy, that is, a body of precepts for the guidance of political and social action.—Social economics, the science which deals with economic laws in their relation to social welfare. The term is frequently used as a synonym for political economizer, n. 2. Specifically—(b) In fogsigualing on British railways, a device by which the detonation of one track-torpedo on the

the detonation of one track-torpedo ou the rail by the passage of the engine-wheels removes the second one in series before the

wheels reach it.

economy, n. 5. In theol.: (a) The practical measures employed in giving effect to a divine dispensation. (b) The cautions presentation of doctrine, accommodating it to the feelings and prejudices of the hearers: used by J. H. and prejudices of the nearers: used by J. H. Newman to describe the accommodated method (κατ'οἰκονομίαν) of the early fathers; in a bad sense, the system of withholding a large portion of gospel doctrine in teaching the mass of Christians.—Motor economy, in linguistics, the principle of ease of utterance. Scripture, Exper. Phonetics, p. 123.—Perceptive economy, in linguistics, the principle of the neglect, by language, of certain differences and the exaggeration of others, in order to bring the essential part of the sentence into prominence.

Perceptive economy requires not only the suppression of needless distinctions but also the emphasis of needful ones.

Scripture, Exper. Phonetics, p. 123.

eclabium (ek-lā'bi-um), n. [NL., ζ Gr. ἐκ, out, ecotone (ē'kō-tōn), n. [Gr. οἰκος, habitat, + L. labium, lip.] Eversion of the lip.

Eclampsta infantum, convulsions occurring in infancy, entile in nature or of reflex origin.

Toroc, tension, stress.] In phytogeog., the line along which two types of vegetation compete an entile in nature or of reflex origin. for the same ground. See *tension-line. F. E. Clements,

ecphrasis (ek'fra-sis), n. [NL., \langle Gr. εκφρασις, description, \langle εκφράζειν, tell, recount, \langle εκ, out, + φράζειν, speak.] A description or interpretation; a plain declaration or atterance.

ecphyaditis (ek/fi-a-dī/tis), n. [NL., ζ Gr. ἐκόνας (-φυαδ-), an appendage, outgrowth (ζ ἐκφυσθαι, grow out), + -itis.] Same as uppendicitis.

ecphyma, n. 2. Same as measles.

ecphyma, n. 2. Same as measles.
ecphysis (ek'fi-sis), n. [NL., < Gr. ἐκφνσις, a growing out, an outgrowth, < ἐκφὶεσθαι, grow out, ἐκφὶετι, produce, bear, < ἐκ, out, + φὶεσθαι, grow, φίειν, produce.] In crustaceaus, a branch of any joint of an appendage, as a basecphysis. Trans. Linnean Soc. London, eclipser (ē-klip'sėr), n. A mechanical device for automatically interrupting the beam of light from a lighthouse.

A double or divided ectipser is used which occults the light during every alternate revolution.

Encyc. Brit., XXX. 256.

Trans. Linnean Soc. London, Zoöl., Feb., 1903, p. 448.

ecpyrosis (ek-pi-rō'sis), n. [NL., \langle Gr. έκπύρωσιν, \langle εκπυροῖν, hurn up, \langle έκ, out, \rangle πυροῖν, fire: see pyre.] Destruction by

The sect of Stoics adopted most fully the system of catastrophes destined at certain intervals to destroy the world . . . the Cataclysm, or destruction by water, which sweeps away the whole human race, and annihilates all the animal and vegetable productions of nature; and the Ecpyrosis, or destruction by fire, which dissolves the globe itself.

Sir C. Lyell, Princip. Geol., J. 13.

ecrasite (ek'ra-sit), n. [F. *écrasite, < écraser, erush, destroy (see aeraze), + -ite (-ite²).] The ammonium salt of trinitrocresol, experimented with in Austria as an explosive for charging shells. The same name is said to have been given to an explosive consisting of the so-called blasting-gelatin with picrate and either sulphate or hydrochlorate of ammonium. of ammonium

ecroulement (ā-kröl-mon'), n. [F., \(\'\'\'ecrouler\), fall to pieces, \(\'\'\'ecrouler\), A falling down or to pieces, fall to pieces.] as a building, great masses of rock, or the

terior; superficially.

ectatic, a. 2. Distensible. ectenic (ek-ten'ik), a. [Gr. ἐκτενής, strained, zealous, eager, < ἐκτείνειν, stretch: see ectasis.] Subjected to tension, literally or figuratively;

strained.—Ectenic phenomena. See *phenomenon. ectepicondylar (ek-tep-i-kon'di-lär). a. [Gr. έκτος, without, + έπί, upon, + κόνδυλος, condyle.] Situated just above the outer condyle of the humerus.—Ectepicondylar foramen, a per-foration in the outer, distal portion of the humerus, found in some reptiles and characteristic of the anomodont reptiles.—Ectepicondylar process, a process just ahove the outer condyle of the humerus of such birds as gulls and sandpipers.

ectepicondyloid (ek-tep-i-kon'di-loid), a. Same as *ectocondylar and *ectocondyloid.

ectethmoid (ek-teth'moid), a. and n. [Gr. $\dot{\epsilon}\kappa\tau\dot{\epsilon}\varsigma$, outside, + E. ethmoid.] I. a. External to the ethmoid bone.

II. n. A portion of the aliethmoid forming a plate on either side of the mesethmoid and usually constituting part of the anterior wall of the orbit. It appears as a transverse, vertical plate in the skull of birds and is frequently termed the antorin the skill of birds bital or pars plana.

ectethmoidal (ek'teth-moi-dal), a. [ectethmoid + -all.] Relating to the eetethmoid or antorbital plate. Also ccto-ethmoidal.

ecthronym (ek'thrō-nim), n. [Gr. $\dot{\epsilon}\chi\theta\rho\delta\varsigma$, hostile, $+\dot{\epsilon}\nu\epsilon\rho\mu a$, $\dot{\epsilon}\nu\nu\nu a$, name.] The name by which a people is called by its neighbors: opposed to autonym, the name by which the people call themselves.

ecthymatoid (ek-thim'a-toid), a. [ecthyma(t-) -oid.] Resembling eethyma.

ecthymatous (ek-thim'a-tus), a. [ecthyma(t-) + -ous.] Relating to or affected with eethyma. ecthyrosis (ek-thi-rō'sis), n. [NL., ⟨ Gr. ἐκ, out, + θυρα, door (see thyroid), + -osis.] A myxœdematoid condition following excision of the thyroid gland.

ectiris (ek-tī'ris), n. [NL., \langle Gr. $\ell\kappa\tau\delta\varsigma$, without, + $\ell\rho\iota\varsigma$, iris.] The external layer of the

Ectobiides (ek-tō-bī'i-dēz), n. pl. [Erroneous form for NL. *Ectobidæ, \(Ectobia + -idæ, \) A tribe of cockroaches of which Ectobia is the type. It contains species with spiny thighs, the last ventral plate of the female large and valveless, the supra-anal lamina of both sexes transverse and narrow, and the

egg-capsules with a longitudinal suture. This tribe corresponds to the subfamily Anaplectine of Sanssure. **Ectobranchiata** (ek#tō- brang- ki- ā'tā), n, pl. [NL.: see *ectobranchiate.] A group of regular Echinoidea having the mouth and anus at op-Posite poles and an apical system of plates. They are endocyclic and have external gills present. It includes the order Diademoida. Compare *Endobranchiata.

ectobranchiate (ek-tō-brang'ki-āt), a. [NL. ectobranchiatus, ζ Gr. έκτος, without, + βράγχια, gills: see branchiate.] Having an exsertile branchia, as the gastropod Valvata.

ectobronchium (ek-tō-brong'ki-um), n.; pl. ectobronchia (-\(\bar{a}\)). [NL., $\langle Gr, \(\epsilon\) corollary, without, + \(\beta\) \(\eta\) \(\eta\) \(\eta\), windpipe.] In ornith., one of several branches given off laterally and dorsally from$ the mesobronchium or prolongation of the bronchns.

ectocalcaneal (ek/tō-kal-kā'nē-al), a. [Gr. εκτός, without, + NL. calcaneum + -all.] On the outer side of the ealcaneum or bone of the heel: specifically applied by Owen to the outermost of the ridges on the posterior side of the proximal end of the tarsometatarsus of a bird.

ectocarpaceous (ek#tō-kär-pā'shius), a. Belonging to the family of algae Ectoeurpaceae. ectochoroidea (ek/tō-kō-roi'dē-ii), n. [NL., ζ Gr. ἐκτός, without, + NL.choroidea, ehoroid.]

The external layer of the choroid.

ectocnemial (ek-tok-në'mi-al), a. [Gr. $\epsilon\kappa\tau\delta\varsigma$, without, $+\kappa\nu\eta\mu\eta$, tibia, +ai1.] On the outer side of the tibia: as, the ectocnemial ridge, the outer of the two prominent ridges on the tibia of a hird, the other being the procnemial ridge.

ectocondylar (ek-tō-kon'di-lār), α. [Gr. ἐκτός, without, + κόνδυλος, condyle, + -ανδ.] Relating to the ectocondyle or outer articular face such a bone as a femur: contrasted with *entocondylar.—Ectocondylar depression or cav-tty, the hollow receiving the ectocondyle.

ectocondyloid (ek-tō-kon'di-loid), α. [Gr. εκτός, without, + κόνδυλος, condyle.] Same as

 \star cctocondylar.

ectocornea (ek-tō-kôr'nē-ā), n. [NL., < Gr. εκτός, without, + NL. cornea, cornea.] outer layer of the cornea.

ectodactylism (ek-tő-dak'ti-lizm), n. An abnormal absence of digits. Bateson, Study of Variation.

ecto-ethmoid (ek-to-eth'moid), n. [Gr. εκτός, without, + Ε. ethmoid.] In iehth., same as prefrontal.

ectogenesis (ek-tő-jen'e-sis), n. [Gr. εκτός, outside, + βένεσε, origin, production.] The production of or the giving rise to structures from without: opposed to *endogenesis.

ectolateral (ek-tō-lat'e-ral), a. [Gr. $\epsilon\kappa\tau\delta\varsigma$, without, + L. latus (later-), side, + -all.] Situated

on the outer side. ectoloph (ek'tō-lof), n. [Gr. $\dot{\epsilon}\kappa\tau\delta\varsigma$, without, + $\lambda\delta\phi\varsigma$, crest.] The external ridge or crest on such an upper molar as that of a horse or rhinoceros. From it arise the parastyle, mesostyle, and metastyle. See cut under *tooth.

ectomesoblast (ek-tō-mes'ō-blast), n. [Gr. ektoc, without, + E. mesoblast.] In embryol., the cell-layer or cells which have not yet differentiated into ectoblast and mesoblast proper.

ectonephridium (ek"tō-ne-frid'i-um), n.; pl. ectonephridia (-ä). [Gr. ἐκτός, without, + NL. nephridium.] Ä nephridium of ectodermal origin, as in the annelids.

ectonuclear (ek-tō-nū'klō-ar), a. [Gr. ἐκτός, outside, + L. nucleus, kernal, nucleus, 1 Situated or occurring outside the nucleus of the cell: opposed to *endonuclear.

ectopagus (ek-top'a-gus), n.; pl. ectopagi (-jī). [NL., \langle Gr. $\xi\kappa\tau\dot{o}c$, outside, $+\pi\eta\gamma\nu i\nu\alpha i$ ($\sqrt{\pi}\alpha\gamma$ -). fix, fasten.] A double monster with lateral union of the trunk from the umbilieus upward.

ectoparenchyma (ek"tō-pa-reng'ki-mä), n. [NL., \(\cap \text{Gr. } \epsilon \text{kτός}, \text{ outside, } + \text{NL. } parenclyma.]
In trematodes, the outer portion of the parenehyma. Jour. Roy. Micros. Soc., Aug. 1903, p. 500.

ectoperitoneal (ek#tō-per#i-tō-nē'al), a. εκτός, outside, + περιτόναιον, peritoneum.] Relating to the surface of the peritoneum which is in contact with the viscera or the abdominal wall.

ectophyte (ek'tō-fīt), n. [Gr. ἐκτός, outside, φυτον, plant.] An external vegetable parasite. ectophytic (ek-tō-fit'ik), u. [ectophyte+-ic.] Of the nature of an ectophyte.

More or fewer of their rootlets have their extremities invested by a weft of hyphal mycelium as an extophytic mycorhiza. $Encyc.\ Brit.,\ XXV.\ 439.$ eorhiza.

Ectopic gestation. Same as extra-uterine pregnancy (which see, under pregnancy).

ectoplast (ek'tō-plāst). n. [Gr. ἐκτός, without, + πλαστός, formed.] The outermost layer or membrane bounding and inclosing the cyto-

plasm of the plant cell. ectopocystic (ek*tō-pō-sis'tik), a. [Gr. ἐκτοπος, out of the place, + κίστις, bladder, + -ic.] Relating to or caused by malposition of the

bladder.

ectoretina (ek-tō-ret'i-nä), n. [NL., < Gr. εκτος, outside, + NL. retina, retina.] The $\dot{\epsilon}\kappa\tau o c$, outside, $\dot{+}$ NL. $\dot{r}c$ outer layer of the retina.

ectorganism (ekt-ôr'gan-izm), n. [Gr. ἐκτός, outside, + E. organism.] Same as ectoparasite. ectorhinal (ek-tō-rī'nal), a. [Gr. ἐκτός, without, + ῥίς (ῥω), nose, + -al.] Situated on the outer side of the nose .- Ectorhinal fissure. See

ectosac (ek'tō-sak), n. [Gr. ἐκτός, outside, + σάκκος, sack, bag.] The membrane inclosing

the ovum, or egg.

ectosipho (ek-tō-sī'fō), n. [NL., \langle Gr. $\dot{\epsilon}s\tau\delta\varsigma$, without, $+\sigma\dot{\epsilon}\phi\omega$, L. $\dot{s}ipho$, a pipe: see siphon.] The outer siphuncular tube in the nautiloid cephalopods of the extinct family Endocerat-

ectoskeletal (ek#tō-skel'e-tal), α. [Gr. ἐκτός, without, + σκελετόν, skeleton, + - at^1 .] Same as exoskeletal.

ectoskeleton (ek-tō-skel'e-ton), n. [NL., \langle Gr. ἐκτός, outside, + σκελετόν, skeleton.] Same

as exoskeleton.

ectosolenian (ek-tō-sō-lē'ni-an), a. [Gr. ἐκτός, outside, + σωλήν, channel, pipe, + -ian.] outside, + $\sigma \omega i \nu$, channel, pipe, + $-i \alpha n$.] Having an extended neck-like orifice, as the foraminifer Lagena sulcata. Compare *cntoso-

ectosome, n. 2. In cytol., one of the deeply staining granules eliminated from the chrematin of the nuclei of the germ-track during

matin of the nuclei of the germ-track during their karyokinetic divisions. Hacekel, 1902. ectosphenotic (ek/tō-stō-not'ik), a. and n. I. a. [Gr. εκτός, without, + E. sphenotic.] Relating to the external portion of the sphenotic bone. — Ectosphenotic process, a name given by Mivart to a small, slightly hooked process which arises on the sphenotic process of the skull in birds, just in advance of the articulation of the numbrite.

articulation of the quadrate.

II. n. The ectosphenotic process.

ectosphere (ek'tō-sfēr), n. [Gr. $\ell\kappa\tau\delta_c$, outside, + $\sharp \tau\phi a\bar{\iota}\rho a$, ball.] In eytol., the outer or cortical

zone of the centrosphere

Ectospora (ek-tō-spō'rā), n. pl. [NL., ζ Gr. ἐκτός, outside, + σπορά, seed (spore).] A group of *Sporozoa* in which sporulation takes place at the close of the trophic period and the spore mother-cells or sporoblasts are formed at the periphery of the sporonts. It includes the Gregarinida, Coccididea, and the Hæmosporidia. Compare *Endospora. Mesuil. ectostracal (ek-tos'tra-kal), a. Of or pertain-

ing to the ectostracum.

ectostracum (ek-tos'tra-kum), n.; pl. cctostraca (-kä). [NL., ζ Gr. ἐκτός, entside, + ὅστρακον, shell.] The second layer of the integument of mites, lying between the epiostraenm and the hypostraeum. It consists, in the *Hydrachnidæ*, of a single layer of subcubical cells forming a dense tissue flat on both sides.

ectosylvian (ek-tō-sil'vi-an), a. [Gr. ἐκτός, eutside, + Sylvian.] Situated at the euter side of the Sylvian sulcus.— Ectosylvian sulcus. See *sulcus.

ectotheca (ek-tō-thō'kä), n. [NL., < Gr. ἐκτός, outside, + θήκη, receptacle.] In certain hydroids, the external layer of the chitinous cov-

ering; an exotheca.

ettothrix (ek'tō-thriks), n. [From the specific name of the fungus, Megalosporon eetothrix: $\langle \text{Gr. } \dot{\epsilon}\kappa\tau\dot{\epsilon}\zeta, \text{ outside, } + \theta\rho\dot{\epsilon}\xi, \text{ hair (see def.).]}$ The form of the parasific fungus causing tinea or ringworm which produces its spores on the outside of the hairs.

ectotrachea (ek*tō-trā-kō'ā), n. [NI.., \langle Gr. $\dot{\epsilon}_{\kappa\tau\dot{o}c}$, outside, $+\tau\dot{\rho}a\chi\epsilon ia$, windpipe.] The outer epithelial layer of the tracheæ of insects.

It is the so-called peritoneal membrane or invaginated epiblast: a true pavement epithelium.

A. S. Packard, Text-book of Entom., p. 432.

ectotrochlea (ek-tō-trek'lō-ä), n. [NL., \langle Gr. $\varepsilon\kappa\tau\delta\varsigma$, eutside, + NL. trochlea.] In ornith., a name sometimes applied to the articular facet eddy-current (ed'i-kur ent), n. In elect., edgy, a. 3. Having contours which are too or trochlea on the outer distal end of the tarso-

metatarsus, with which the outer toe artic- moving magnetic fields in places where they

In both groups [Grebes and Divers] the tarso-metatarsns is much compressed laterally, and the ectotrochlea is much reduced.

Proc. Zool. Soc. London, 1899, p. 1041.

Ectotrophi (ek-tot'rō-fi), n. pl. [NL., ζ Gr. εκτός, outside, + -τροφος, ζ τρέφειν, nourish.] A group of thysanurous insects having external mouth-parts, and comprising the Machilidæ and Lepismatidæ.

ectotrophic (ek-tō-trof'ik), a. [Gr. ἐκτός, out-side, + -τροφος, ⟨ τρέφειν, nourish.] Getting nourishment outside: in bot., said of fungi which envelop the roots of a plant without penetrating them.

ectotrophous (ek-tot'ro-fus), a. Of er beleng-

ing to the Ectotrophi.

ectrimma (ek-trim'ä), n.; pl. ectrimmata (-ma-tä). [NL., ζ Gr. ἐκτριμμα, ζ ἐκτριβειν, rub constantly, ζ ἐκ, out. + τρίβειν, rub.] An ulcer resulting from long-continued pres-

sure or friction; a bed-sore. ectrosis (ek-trō'sis), n. [Gr. ἐκτρωσις, miscarriage.] Abortion; abortive treatment of disease.

cetosaccal (ek-ti-lō'sis), n. [NL., \langle Gr. $\dot{\epsilon}\kappa$, out, to the ectosac. + $\tau \dot{\nu} \lambda \omega \sigma i g$, a becoming callous, $\langle \tau \dot{\nu} \lambda \sigma c \rangle$, a ectosipho (ek-tō-sī'fō), n. [NL., \langle Gr. $\dot{\epsilon}\kappa \tau \delta c \rangle$, knob, callus.] The removal of corns or other callosities.

ectylotic (ek-ti-lot'ik), a. Pertaining to or edentate, a. 3. In bot., having no teeth, as effecting ectylosis.

Ecua. An abbreviation of Ecuador.

Ecua. An abbreviation of Ecuador.
écuelle (ā-kü-el'), n. [F.: see sculler².] A low porringer, with handles, used for soup or broth, common in the middle ages: usually of wood, but sometimes of pewter or even silver.
écuelle (ā-kü-el'), v.t. [F. écuelle, a porringer or bowl: see *écuelle.] To grate or rub gently in a par lived with rounded knobs medo. in a pan lined with rounded knobs, made for the purpose.

From the rind of the fruit, by a process known as exuelling, which consists of gently rubbing the fruit on rounded projections arranged inside a brass basin, a very fine essence of limes is obtained.

Bulletin Roy. Gardens (Kew), May-June, 1891.

ecumene (ek'ū-mēn), n. [Gr. οἰκονμένη: see ecumenic.] The habitable part of the world; the part of the world inhabited by man.

Ecumenical patriarch. See *patriarch. écurie (ā-kü-rē'), n. [F.: see equery, equerry.] A stable; stabling.

ecurvature (ê-kêr'va-tūr), n. [L. c-, out, + E. curvature.] An outward curve.

ecurved (ē-kervd'), a. [L. e-, out, + E. curved.] Curved outward.

eczema, n.— Eczema epizoöticum. Same as foot-and-mouth disease (which see, under foot).— Eczema mar-ginatum, an eczematous eruption occurring on the inner side of the thighs.

eczematoid (ek-zem'a-toid), a. [eczema(t-) + Resembling eczema.

eczematosis (ek"ze-ma-tō'sis), n. zema(t-) + -osis.] One of several skin-diseases characterized by an abnormal secretion from the surface.

Edam cheese. Same as Dutch cheese (a) (which

see, under cheese1).

edaphic (ē-daf'ik), a. [Gr. εδαφος, base, ground, +-ic.] Influenced or produced by the soil or its contents; arising from the soil: as, edaphic formations (see*formation); edaphic influences. The edaphic factors in climatology are the temperature, moisture, and sunlight favorable or unfavorable to the growth of the plant; the edaphic factors of soil-structure are those that more intimately relate to the growth of vegetation, such as its moisture, capillary structure, and soluble chemical contents.

The water-supply is an important edaphic factor. A series of springs emerging from some rock-stratum rarely fails to alter the vegetation. Geog. Jour. (R. G. S.), Aug., 1903, pp. 149, 151.

eddering (ed'er-ing), n. $[edder^1 + -ing^1]$ 1. The act of binding or strengthening a hedge at the top by an interlacing of flexible rods or osiers or other material.—2. The rods, osiers, etc., used for this purpose. [Prev. Eng. in both uses.]

eddoes, n.—Blue or nut eddoes. In the British West Indies, Nanthosoma violaceum, a large-leaved arold plant with violet-blue petioles, widely cultivated for the sake of its edible starchy root-stock.

eddy, n.—Tidal eddy, a whirl or gentle local circulation in some corner of the ocean formed by the deflection of one or more tidal streams.

eddy-chamber (ed'i-chām "ber), n. A chamber in which, by jets or otherwise, a current of fluid is compelled to whirl in eddies, as in a spray-nezle. Yearbook U. S. Dept. Agr., 1899, p. 153.

currents induced by alternating, rotating, or

moving magnetic fields in places where they are not desired and are objectionable because they consume energy and produce heat. To avoid or reduce eddy-currents, the iron of changing magnetic circuits is subdivided by lamination in the direction at right angles to the path of induced electromotive force (so as to give no closed circuits for the production of eddy-currents), and large copper conductors exposed to changing magnetic fields are stranded, that is, composed of a number of smaller conductors more or less insulated from one another. Reduction of eddy-currents is the cause of the lamination of the iron in transformers, induction-motors, and armatures of electric machines in general. Also called parasitic current and Foucault current. Eddying suspension.

Eddying suspension. See *suspension. eddy-rock (ed'i-rok), n. A rock, generally a saudstone, which shows marked cross-bedding or flow-and-plunge structure.

edelweiss, n.— New Zealand edelweiss, either of two species of Gnaphalium, G. Colensoi and G. grandiceps: so called from the resemblance of their woolly, silverywhite flowers to the edelweiss, to which they are closely related botanically.

edema, n.—Angioneurotic edema. See *angioneurotic.—Collateral edema, serous infiltration into the tissues outside of an area of inflammation.—Flying edema, edema fugax, evanescent swellings, due to effusion of fluid, occurring in various portions of the body: differing from urticaria in not being accompanied by tiching or other signs of irritation.—Malignant edema, an edematous swelling extending rapidly and accompanied by gangrene and the subcutaneous formation of gas.—Mucous edema, solid edema. Same as myxedema.

an entire leaf.

edestin (ē-des'tin), n. [Gr. ἐδεστός, eatable (\langle ἔδεσν, eat), +- in^2 .] A crystallizable vegetable globulin found in wheat, rye, oats, etc.

Edestus (ē-des'tus), n. [NL., < Gr. ἐδεστής, an eater, < ἐδειν. eat: see eat.] A genus of extinct cestraciont selachians: known only by the large-arched symphysial dentitions (finspines according to some authors) which occur in the Carboniferous of North America, Russia, and Australia.

edge, n. 7. In poker, same as (and a substitution

for) age, 13.—To the edge, to the highest degree; in all completeness. [Colloq.]

edge-laid (ej'lād), a. Made of narrow strips laid together face to face, and with the edges up and exposed, as floors and table-tops: said also of built-up leather belting when to secure thickness and strength the elements of the belt run on their edges.

edge-molding (ej'mol"ding), n. In arch., any molding which has as its chief or an important

part a projecting sharp arris.

edge-plate (ej'plāt), n. A heavy iron plate placed against the inside of the rockers, or sills, of a heavy carriage-body to insure stability and strength.

edge-roll, v. t. 3. To rell (a flat strip, as of steel) in a coil or helix around a cylindrical rod with the flat face of the strip perpendicular to

edge-runner (ej'run"er), n. A form of grinding-apparatus or -mill for ores or similar material, in which a heavy disk or wheel runs in a circular path upon its edge in a pan or mor-tar. By its weight and the sliding motion of its edge as it revolves, it comminutes the material.

edge-stitching (ej'stich"ing), n. In sewing-machine work, the process of sewing two parallel rows of stitches along the edge of the fabric to form a double edge-stitch. See multiple-necdle *sewing-machine.

edge-weed (ej'wed), n. The fine-leafed waterhemlock or water-fennel, Enanthe Phellan-

edge-zone (ej'zōn), n. In corals, a fold of tissue extending over the theca and usually containing a cavity continuous over the lip of the calycle with the cœlenteron. In colonial forms the buds arise from this part. Annals and Mag. Nat. Hist., Jan. 1904, p. 22.

edging, n. 5. In photog., a coat of albumen, gelatin, or india-rubber along the edges of a collodion-covered dry-plate; a protection to the film during development. Generally the whole surface of the plate is given a substratum for the colledion.

edging-machine, n. 3. In sheet-metal work, a machine for turning and forming an edge in tinware and sheet-metal. By changing the formingrolls it becomes a turner or turning-machine; by the use of still other rolls it becomes a burring-machine. See *beading-machine.

sharply defined: said of a picture.

edh (efh), n. [e, auxiliary vowel (as in em, ess, etc.), + dh = th in this, that, etc., AS. d.]
A name of the Angle-Saxen letter d or o representing the sound of th in that, this, smooth, etc

edictally (6'dik-tal-i), adv. By edict or public proclamation: as, to be edictally notified or

edility, ædility (ē-dil'i-ti), n. [L. ædilitus, < ædilits, edile.] The office of edile or the duties pertaining to it.

edinol (ed'i-nōl), n. The trade-name of a

photographic developer, said to be m-amino-o-hydroxybenzylalcohol hydrochlorid,

$\mathring{\mathbf{N}}\mathbf{H}_{2}\mathbf{C}_{6}\mathbf{H}_{3}(O\mathring{\mathbf{H}})\mathbf{C}\mathring{\mathbf{H}}_{2}O\mathbf{H}.\mathbf{HCl}.$

Edison effect. See *effect.

edition, n.—Acting edition. See *acting.
editor, n. 2. An exhibitor: in the phrase [Rare.]
editor of the games (translating the Latin editor eelskin, n. 2. In ceram., a peculiar glaze of ludorum), an officer who superintended the Roman public games. L. Wallace, Ben-Hur,

edobole (ē'dō-bōl), n. [Gr. olooç, a swelling, + βόλος, a throwing.] In phytogeog., a belochere in which propulsion is effected by means of turgescence. F. E. Clements.

Edomite (ē'dom-īt), n. [Edom + -ite².] A descendant of Esan or Edom; one of the race which dwelt in southern Palestine (called Edom, or Idumæa), and which was bitterly hostile to the Isrælites, a kindred nation.

Edomitish (& dem-i-tish), a. [Edomite + -ish.]
Pertaining to or characteristic of the Edomites, the descendants of Esan and the hereditary enemies of the Israelites.

Edrioaster (ed"ri-ō-as'ter), n. Same as Edri-

edriophthalmate (ed "ri-of-thal' mat), a. Same as edriophthalmous. Annals and May. Nat. Hist., Feb. 1904, p. 154.

edriophthalmian (ed ri-of-thal mi-an), a. and n. I. a. Same as edriophthalmous.

II. n. Any individual of the order Edrioph-

thalma; a sessile-eyed crustacean.

E. D. S. An abbreviation of English Dialect Society

educand (ed'ū-kand), n. [L. educandus, that is to be educated, \(cducare, educate. \)] One who is to be educated; a pupil or student.

We wish therefore that the educands be taught to ob-

educatory (ed'ū-kā-tō-ri), a. [educate + -ory.] Educative: that has an educating effect or influence; as, an educatory regimen.

educement (ē-dns'ment), n. [educe + -ment.]

The act of drawing out or developing.

Edwardian (ed-war'di-an), a. [Edward + -ian.] Of, pertaining to, or characteristic of any one of the sovereigns of England named Edward or his reign: as, the Edwardian period; Edwardian architecture.

Edwardsian (ed-wärd'zi-an), a. and n. [Edwards + -ian.] I. a. Pertaining to Jonathan Edwards or his opinions (*Edwardsianism,

which see).

II. n. One of the school of American theologians which has followed the lines laid down by Jonathan Edwards (1703-58). The members of the school differ widely from the founder and among themselves. general view, see *Edwardsianism. For their

Edwardsianism (ed-wärd zi-an-izm), n. Tho system of modified Calvinism which is the outgrowth of the teachings of Jonathan Edwards growth of the teachings of Jonathan Edwards (1703-58). The majority of its defenders recognize the following tenets: all moral character lies in the will; man's ability to choose does not lessen his dependence on the interposition of the floly spirit; without such interposition man, by nature depraved, infallibly chooses evil; God's decrees are consistent with human liberty; the governmental theory of the atonement. Also called New England Theology and New-light Divinity.

An abbreviation (b) of Early English; E. E.

(e) of Electrical Engineer.

E. E. and M. P. An abbreviation of Envoy Extraordinary and Minister Plenipotentiary.

Extraordinary and Minister Plenipotentiary.

Cel, n.—Black cel, Anguilla australis, of Australia and New Zealand.—Commom cel. Same as black *ret.—
Fresh-water cel, a name applied to cels of the genus Anguilla, which live chiefly or wholly in fresh water.—
Green cel, Murana afra, an cel of the family Muranidae, found in Australian waters.—Long-necked cel, an eel of the family Derichthyidae.—Mother of cels, See motherl.—Silver cel. (a) Muranessox cinereus, of New South Wales. Also called sea-cel. (b) Lepto-cephalus vulsoni of Australia. (c) Congromurrena habenata of New Zealand.—Symbranchoid cel, an cellike fish of the family Symbranchidae. Also known as rice-cel.

eel-cake (ēl'kāk), n. Small eels fried to-

gether and turned out of the pan like a flat cake. Wallin.

eel-cat (ēl'kat), n. One of the channel catfish,

Ictalurus anguilla.

eelery (ē'lg-ri), n. [cel + -cry.] A place
where eels are eaught; an eel-fishery.

eel-grass, n.—Green eel-grass, the white water-erow-foot, Batrachium trichophyllum, ranging from Nova Scotia to North Carolina, and also found in California, Europe, and Asia.

eel-pick (él'pik), n. An eel-spear. eel-picker (él'pik"èr), n. One who fishes with

an eel-pick. In its [the Broad's] deep mud eels abound; and the eelsicker in his little punt, . . . is a common object on the lats.

G. C. Davies, Norfolk Broads, xxvi.

eel-pump (ēl'pump), n. A portable pump for forcing cels and fish out of water-pipes.

a brownish-yellow tint, seen on old Chinese percelain.

eel-trap (ēl'trap), n. In meeh., a screen or net used in water-pipes to prevent the entrance of fish which might otherwise pass into machines and clog their valves.

eel-trunk (ēl'trungk), n. A box with holes in it in which eels are kept alive until they are wanted. [Prov. Eng.]

eel-worm (el'werm), n. Any one of the free-living nematoid worms of the family Anguillulidæ (which see). Yearbook U. S. Dept. Agr.,

1897, p. 568.

E. E. T. S. An abbreviation of Early English Text Society.

efemeral, a. and n. A simplified spelling of phemeral.

9. In art, an accidental or unusual effect, n. combination of colors, lights, or forms which especially excite the interest of a painter and form a suitable motive or key in painting or etching.

It is evident that such perfectly favorable effects are likely to be rare, but they do occur, and the business of the imaginative artist is either to seize upon them when they do occur, or imagine them in their absence.

P. G. Hamerton, in Portfolio, 1886, p. 152.

Budde effect, the effect, not due to heating, of the chemically active rays of the sun in causing expansion of dry chlorin gas: observed and described by Budde.—Coefficient of Peliter effect, a numerical constant denoting the size of the l'cltier effect, ithe heat developed in a circuit consisting of more than one metal, other than that due to the overcoming of the resistance of the circuit, divided by the product of the current and the absolute temperature.—Doppler's effect, the effect, upon the apparent frequency of a train of waves, of a movement of the source of the wave-motion toward or away from the observer: Doppler's principle (see principle). Thus there is a displacement of lines in the spectrum of a star toward the violet when the earth and star are approaching each other, and vice versa.—Edison effect, a phenomenon of the vacuum of incandescent lamps, consisting of an electric glow near the ends of the filament, caused by a current flowing through the gases between the terminals or from a 'third terminal and the negative leg of the filament.—Faraday effect, the rise of voltage occurring in underground eables under certain conditions due to the effect of distributed capacity and self-induction.—Fly-wheel effect, a property common to all revolving wheels, or balanced masses, of storing up energy when accelerated by a force greater than the average and of giving up this energy when retarded.—Illuminating effect, the illuminating power of a source of light or of a group of such sources. It is measured by comparing the brightness of a surface at the position in question with the brightness of the same surface when illuminated by a unit light-source, such as the Hefner lamp, placed at a distance of one meter.—Joule effect, the heating effect produced by the passage of an electric current through: a conductor, arising from its resistance only.—Joulean or Joule-Kelvin effect, a phenomenon occurring when light is reflected from the surface of a magnet. It consists in a rotation of the plane of polarization of Budde effect, the effect, not due to heating, of the chemically active rays of the sun in causing expansion of dry chlorin gas; observed and described by Budde.—

tor.—Vacuum effect, the effect produced hy a vacuum, or the amount of pressure less than that of the atmosphere which exists in an evaporating apparatus, as in sugarboiling.—Young effect. See recurrent *rision.—Zeeman effect, the effect of a strong magnetic field upon the lines in the spectrum of a beam of light passing through it. The lines of the spectrum are widened and subdivided, the light of the components due to the division being polarized.

effect-carbon (e-fekt'kär"bon), n. See electrie

Effective head, pressure, resistance, section, utility, value. See *head, etc.—Mean effective pressure. See *pressure.

efferential (ef-e-reu'shal), a. [efferent + -i-al.]
That carries outward or away; that serves to carry off; of the nature of an efferent: as, an efferential blood-vessel.

efficacity (ef-i-kas'i-ti), n. [L. efficacitas, < efficac, efficacious: see efficacious.] The quality of being efficacious; efficaciousness; efficacy; effectiveness. Browning.

ity of being efficacious; efficaciousness; efficacy; effectiveness. Browning.

efficiency, n.—Apparent efficiency, in elect., the ratio of the power-output divided by the apparent powerinput. (See apparent *power.) If the apparent efficiency is greater than the true power, the apparent efficiency is less than the true efficiency and equals the product of power-factor and true efficiency.—Efficiency of a source of light, the ratio of the luminons energy of a source of light, the ratio of the luminons energy of a source of light to its total energy. Radiant efficiency or luminous efficiency is the ratio of the light-giving radiation of a source to the total radiation. The method formerly employed in the determination of this important constant consisted in measuring the total radiation received upon the face of a thermopile or bolometer placed at a given distance from the source of light and comparing the same with the radiation reaching the heat-measuring instrument when a glass cell containing water or a solution of alum was interposed in the path of the rays. If such a cell were capable of transmitting all the light-giving radiation and that alone, the ratio of the effects thus obtained would be the radiant efficiency. It was known at an early day that this assumption was not warranted, and a correction, thought to be approximately accurate, was applied. It has recently been shown that even with this correction the values obtained for the radiant efficiency are much too large, and more rigorous methods have been devised, as follows: (1) Longley's method. The first of these methods consists in dispersing the light from the source by means of a prism of rock-salt or fluorite, which is transparent to all wave-lengths, and in determining the distribution of intensities throughout the spectrum thus obtained. If a curve be then drawn having as abscisse wave-lengths and as ordinates the intensity of each wave-length of the spectrum, the area which it incloses will represent the energy of total radiation from the sour

total radiation from the source. If a vertical line (r) be drawn at 76μ , which eorresponds to the boundary of the visible spectrum in spectrum in the red, this line will di-vide the in-closed area in-WAVE LENGTHS 76µ

rook the inclosed area into two parts,
one of which (r) represents the light-giving energy, the
other (o) that portion of the energy which is non-Imminous.
The ratio of the light-giving area to the total area of the
curve will then be the radiant efficiency of the source of
light. The first experimenter to obtain such curves was
S. P. Langley. (2) Angström: method. Another method
of measuring the radiant efficiency of a source of light is
due to Knut Angström. An opaque screen is mounted
in such a position as to cut off all rays lying beyond the
red end of the visible spectrum, and the remaining radiation is assembled upon the face of a bolometer by means
of a cylindrical lens. The ratio of this quantity to the
total radiation, measured by the same instrument, gives
the radiant efficiency of the source of light. The radiant
efficiency of such sources of light as have been measured
by the two methods thus described is given in the following table. The values obtained by the integration of the
energy-curves and by Angström's method are marked respectively L and A.

Source.	Efficiency.	Method.	Observer.
Hefner lamp Acetylene flame Acetylene flame Nernst lamp Mercury arc Geissler tube	.0096 .056 .033040 .036047 .20	A A L A L L	Ångström Ångström Nichols & Coblentz Ingersoll Nichols Drew

While other sources of light have not as yet been measured by these methods, their relative efficiencies are approximately known, and by comparison with the above data we know that the radiant efficiency of ordinary oil- and gas flames is about .01, that of the glow-lamp from .01 to .03, and that of the electric arc from .04 to .08. Gross efficiency. The term efficiency is likewise used to express the ratio of the energy in light-giving form developed in unit time by a source to the energy of combustion of the fuel which it is necessary to consume in order to maintain the source during that time. The efficiency thus defined takes into account the total heat-losses in the production of light. In the case of the flames of caudies and of oil-lamps the heat lost by convection and conduction is very large compared with the total radiation from the ilame. In the case of gas-flames the heat of combustion of the coal necessary to produce the gas to maintain the flame, as com-

efficiency

pared with the luminous energy emitted by the tlame, gives the gross efficiency. In computing the gross efficiency of electric lights the heat of combustion of the fuel used to generate the current supplied to the lamps or the equivalent amount of energy, whatever be its source, is to be taken. In the case of a steam-plant for electric lighting the losses by dissipation of heat in the hoiler, engine, dynamo, and lead-wires, together with the loss by convection and conduction in the electric lamp itself, all enter into the computation of the gross efficiency. Whatever process for the production of light may be employed, the amount of energy dissipated for the purpose of obtaining luminous radiation is very great, and the gross efficiency of luminous flames used in lighting ranges from .001 to .002, while the gross efficiency of electric lamps under the hest existing conditions for the production of power is little if any above these figures. Electric efficiency. It is convenient in the case of the electric light to express the efficiency in watts per candle and most comparable with the energy-ratio defined above, but useful for the comparison of the various types of lamp used in electric lighting. The electric efficiency of the ordinary lamp ranges between four watts per candle and three watts per candle, according to the temperature of the filament, that of the arc-light from two watts per candle to one watt per candle (mean spherical candle-power), while the efficiency of the Nernst lamp is intermediate between that of the arc and the glow-lamp.—

Luminous efficiency, See *efficiency of a source of light.—Projected efficiency, the hypothesis that, in the process of a much larger number of future individuals. Kidd, Western Civilization, p. 65.—Radiant efficiency, See *efficiency of a source of light.—Thermal efficiency, the ratio of the heat converted into work by a thermal engine to the total amount of heat supplied to it.—Transmission-mechanism to the power received by it; the efficient zone. See

Efficient zone. See *zone. effigy-mound (ef'i-ji-mound), n. A mound or earthwork representing some object, especially



Serpent Effigy-mound, Adams County, Ohio

some animal. Mounds of this form are particularly frequent in the northwestern United

efflagration (ef-la-gra'shon), n. [L. ef- for ex, out, + flagrare, burn: see flagrant.] In geol., a burst of flame or incandescent material from a velcano.

effluviography (e-flö-vi-og'ra-fi), n. [L. effluvium, ontflow, + Gr. -γραφια, ζγράφειν, write.] In photog., the action of the silent electric discharge upon a sensitized gelatinobromide plate. An image is obtained in complete darkness and may be developed in the usual manner. Woodbury, Eneye. Dict. of Photog., p. 179.

effort, n.—Tractive effort, the force required or exerted to draw a given load along a road or track at a given speed; in locomotives, the draw-bar pull.

effraction (e-frak shon), n. [NL. *effractio(n-), \langle L. effringere (pp. effractus), break open: see effracture.] A breaking-open or breaking-in;

effracture.] A breaking-open or breaking-in; house-breaking; burglary.

effractor (e-frak'tor), n. [ML. effractor, < L. effringere, break open: see effracture.] One who breaks in by force; a house-breaker; a burglar. Bouvier, Law Diet.

effranchisement (e-fran'chiz-ment), n. [effranchisie] The act of effranchising or the state of heing effranchised reinvested.

or the state of being effranchised or invested with privileges.

effuse, v. II. intrans. To flow, as a fluid, through an aperture or through a porous par-tition the openings in which are large compared with the diameter of a molecule.

pared with the diameter of a molecule.

Efusion of gases. (b) In physics, the passage of gases through a perforated diaphragm the openings in which are very large as compared with the diameter of a molecule. The phenomena of effusion differ from those of diffusion (which is the passage of a gas through a membrane the pores of which are of molecular dimensions) in some important respects. In effusion, the rate of flow of a gas or mixture is inversely as the square root of the density and the composition of a mixture remains unchanged: in diffusion, each component of a mixture is transmitted at a rate inversely proportional to the square root of its molecular weight and the composition of the mixture is therefore changed.—Thermal effusion of gases, the effusion of gases through a porous diaphragm when the pressures on the two sides are the same but the temperatures vary. The gases move from the cold to the hot side of the partition.

effusion-plug (e-fu'zhon-plug), n. A small section of glass tubing, closed at one end by a platinum plate in which there is a minute hole,

which serves as a stopper to a vessel from which a gas is allowed to escape in determining its density by the rate of effusion. M. W. Travers, Exper. Study of Gases, p. 281.

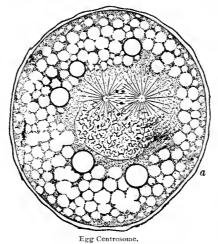
effusive. I. a.—The effusive period, in the solidification of an igneous rock, that period in which it cools after having been poured out on the surface of the earth: at this time the finer-grained portion or ground-mass of the rock is usually crystallized.

II. n. In petrog., a volcanic rock poured out on the surface of the earth: contrasted with intrusive rocks. Also extrusive. Amer. Jour. Sci., Ang., 1903, p. 121.

eg, n. and r. A simplified spelling of egg. egeriid (e-je'ri-id), n. and a. I. n. A member of

II. a. Of or belonging to the lepidepterous family Egeriidæ or Ægeriidæ.

egg1, a. 3. In cricket, no score; zero; a duck's egg. [Slang.]—Eggapparatus, the three nucleated cells at the micropylar end of the embryo-sac of plants, two of which form the synergide and the third the obsphere. See odsphere and synergida.—Egg centrosome, a centrosome belonging to the egg, as distinguished



Fertilization of the egg of Nereis, from a section.

Magnified 400 times.

Appearance presented soon after the entrance of the spermato-zoon, showing the minute sperm-nucleus at a, the germinal vesicle disappearing, and the first polar initiotic figure forming. The empty spaces represent deutoplasm-spheres (slightly swollen by the reagents), the firm circles oil-drops. (From Wilson's "The Cell.")

from the sperm centrosome.—Immediate egg, in rotifers, a parthenogenetic summer egg.—Philosopher's egg. See philosopher.—Resting egg. Same as winter **egg.—Summer egg, one of the parthenogenetic eggs produced by rotifers in summer, the large form giving rise to females and the small to males. In some entomostraeans, as Daphnia, one of the parthenogenetic eggs which are produced in summer and develop rapidly in the brood-pouch. Compare winter **egg.—Warty egg, the shell of Amphiperas ventricosum, which is egg-shaped and has a wart-like tuberole at each end.—Winter egg, in rotifers, a thick-shelled egg, produced in autumn and probably impregnated by the male: it remains inert all winter and develops in the spring; in some entomostraeans, one of the fertilized eggs, produced in autumn, which remain inactive all winter in the detached ephippium and develop in the spring. Compare summer **egg.egg-assorter (eg'a-sôr"ter), n. A simple form

egg-assorter (eg'a-sôr"têr), n. A simple form of egg-tester. [Eng.] egg-bath (eg'bath), n. In tanning, a bath of

egg-yolks.

egg-boiler (eg'bei'ler), n. An arrangement for boiling water so that eggs may be easily cooked in it, particularly on the table.

egg-bound (eg'bound), p. a. A condition in birds in which they are unable to expel the fully developed egg, either on account of its excessive size or because of the presence of some disease.

egg-breaker (eg'brā "ker), n. Same as egg-

of the egg-masses of many insects. It varies greatly in character and, in general, is secreted by the accessory glands of the oviduet. Also called egg-case, egg-pod, egg-sac.

Eggertz test. See *test1.
eggette (eg-et'), n. [Irreg. egg + -ette as in briquette.] A lump of artificial fuel of the shape and size of a hen's egg. [Trade-name, U. S.]

egg-fruit (eg'fröt), n. In the Bahamas, the fruit of Achras serpentaria (Lucuma serpentaria of Humboldt, Bonpland, and Knnth). It is of the size of a small egg, has a thick skin, and is edible.

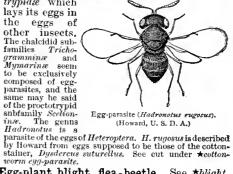
egg-guide (eg'gid), n. A ventral movable triangular flap at the external opening of an oviduct, which serves to guide the eggs as they are laid. A. S. Packard, Text-book of Entom.,

egg-mite (eg'mīt), n. Any predatory mite which feeds on the eggs of insects.

egg-oil (eg'oil), n. The oleaginous material obtained from the yelks of hens' eggs. It contains elein and palmitin, with lecithin, cerebrin, neurine, etc., and is used in dressing alum-tanned leather.

egg-parasite (eg'par"a-sīt), n. Any insect of the family Chalcididæ or the family Procto-

trypidæ which lays its eggs in the eggs of other insects. The chalcidid sub-families Tricho-gramminæ and Mymarinæ seem



Egg-plant blight, flea-beetle. See *blight, flea-beette.

egg-powder (eg'pou"der), n. The trade-name of a prepared form of casein obtained from skim-milk, offered for use as an article of food. Yearbook U. S. Dept. Agr., 1900, p. 623.

egg-roller (eg'rō-ler), n. A form of machine for making eval briquettes of the shape and size of a hen's egg from refuse from collieries or dumps. The small particles are cemented together by a tar or pitch and melded and compacted under pressure.

egg-sac (eg'sak), n. 1. The silken cocoon in which the eggs of most spiders are deposited and in which they hibernate. Comstock, Manual of Insects, p. 41.—2. In earthworms, one of the reniform sacs which open into the funnel-shaped ends of the oviduets; a receptacuhum ovorum.—3. In crustaceans, as some copepeds, one of the pair of egg-containing receptacles at the hinder end of the body.

egg-sleeker (eg'sle ker), n. A molder's tool having a face in the shape of a segment of an annular ring, used for giving a smooth or sleek surface in facing or finishing the hellow faces of curved molds.

egg-Sunday (eg-sun'dā), n. The Sunday before Shrove-Tuesday.

fore Shrove-Tnesday.

egg-timer, n. 2. An apparatus for the automatic cooking of eggs. It consists of a vessel containing boiling water and a series of three or more wire baskets suspended over the water. On placing an egg in a basket the basket sinks into the water and keeps the egg there for a fixed time. When the time has elapsed the basket automatically rises out of the water and stops the process of cooking. Each basket is adjusted to lift the eggs it may contain out of the water at the end of one, two, or three minutes as desired.

two, or three minutes as desired.

egg-whip (eg'hwip'), n. A hand-teel or machine for beating or whipping eggs, sponge, or batter; an egg-beater. The tool is a slender balloon-shaped form of wire fitted with a handle; the machine is a cylinder of wires, or two sets of wire paddles, held in the hand and made to revolve at a high speed by means of gearing.

eglantine, n. 3. A stone of the hardness and grain of marble. Goldsmith, Nat. Hist., I. vi. N. E. D.—Eglantine gall. Same as bedegar.

eglestonite (eg'l-ston-it). n. [Named after

eglestonite (eg'l-sten-īt), n. [Named after Professor Thomas Egleston (1832-1900) of Columbia University.] An oxychlorid of mercury (said to be Hg₆Cl₃O₂) occurring in yellow to brown isometric crystals: found at Terlingua,... ego-altruism (ē "gō-al'trō-izm), n. Altruism Egypt, + -λογος, ζλέγειν, speak.] An Egyptonjoined with self-respect; the subjective astologist.

Egypt, + -λογος, ζλέγειν, speak.] An Egyptonjoined with self-respect; the subjective astologist. pect of morality.

Subjectively, morality is self-respect, and that desire for the good opinion of others, and that endeavour to deserve it, which Mr. [Herbert] Spencer has called ego-attriusm. Giddings, Inductive Sociol., p. 257.

Ehrlich's side-chain hypothesis. See **immunity, 5., with ent.** ehuawa (ā-hö-ä'wä), n. [Hawaiian; also

egocentric (ē-gō-sen'trik), a. [L. ego, I, + centrum, center, + -ic.] Having or regarding aelf as the center of all things; centering in self; egoistic.

The heliocentric system was expanded out of an autecedent geocentric system, itself the offspring of a democentric system, which sprang from an earlier ethnocentric system born of the primeval egocentric cosmos of inchoate thinking.

19th An. Rep. Bur. Amer. Ethnol., 1897-98, p. 831.

19th An. Rep. Bur. Amer. Ethnol., 1897-98, p. 831.

Ziehen limits the hysterical constitution to emotional instability, egocentricity, craving for attention, peculiar predilections, disorders of imagination and attention (fan-tastic instability).

Amer. Jour. Psychol., July-Oct., 1903, p. 100.

ego-idea (ē"gō-i-dē'ā), n. In psychol., the empirical or psychological idea of the self.

Besides the idea of one's present corporeal and mental ego, there is still a third member participating in the usual ego-idea. This is the very essential total idea that has been deposited in memory by the succession of one's most important mental and physical experiences in the past. T. Ziehen (trans.), Introd. to Physiol. Psychol., xi.

egols (eg'olz), n. pl. A name of the potassiummercury salts of o-nitro-phenol-, o-nitro-cresoiand o-nitro-thymol-p-sulphonic acids. The former, called phenegol, is best known. The others are ercsegol and thymeyol. They are

egomania (ē "gō-mā'ni-ä), n. [L. ego, I, + Gr. μανία, madness.] An exaggerated egotism, amounting to an actual mental disorder. egomaniac (ê-gō-mā'ni-ak), n. One who ex-

hibits egomania.

egotic ($\bar{e}'g\bar{o}t$ -ik), a. [Irreg. ego + -t - + ie.] Solfregarding; egoistic.

Under sociability are lumped together desires so diverse as the craving for companionship, and the cagerness for appreciation, the one effective, the other egotic.

E. A. Ross. in Amer. Jour. of Sociol., 1X. 539.

egressive (ē-gres'iv), a. [L. egressus, pp. of egredi, go ont (see cyress), + -ive.] That proceeds forth or downward from an ultimate source or cause, as in tracing some process of development or evolution.

We may follow two methods [in working out a problem] ... the regressive and the egressive. The regressive... starts from the completed process and proceeds backward ... in search of the factors and the forces which have produced the completion; and ... cannot terminate till the sufficient reason or the ultimate cause be reached. If we follow the egressive method we simply reverse the procedure and reason downward.

A. M. Fairbnirn, Philos. Christ. Relig., p. 40.

egret, n.—Cattle egret, a small heron, Bubulcus ibis, formerly abundant in Egypt and frequently confused with the sacred ibis.

egurgitate (ë-gèr'ji-tāt), v. t.; pret. and pp. egurgitated, ppr. cyurgitating. [L. egurgitare, < ē, out, + (LL.) gurgitare, < gurges (gurgit-), gulf.] To throw up or out.

guif.] To throw up or out.

Egyptian bath-sponge. Same as *ponge-gourd.—Egyptian bondage, a state of servitude or bondage as oppressive and degrading as that of the Israelites in Egypt.—
Egyptian brown, clover, cotton, etc. See *hrown, n., etc.—Egyptian cross, the ankh (which see).—Egyptian oppithalmia. Same as *trachonn.—Egyptian thorn. See *thorn.—Egyptian type, letters, or figures. See *antique, n., 3.—White Egyptian corn. Same as *chicken.corn.

Bgyptianism (ē-jip'shian-izm), n. [Egyptian + ism.] The characteristics of the Egyptians; also the inclination to adopt Egyptian customs.

Egyptianize (ē-jip'shian-iz), v. t.; pret. and pp. Egyptianized, ppr. Egyptianizing. (Egyptian + -ize.) 1. To make similar to an Egyptian in appearance and customs.—2. To treat (clay) by a patented process involving the use of tannic acid, in order to give it increased adhesiveness and tenacity. See *Egyptianized hesiveness and tenacity. See ★Egyptianized clay.—Egyptianized clay, clay treated by a special process discovered by E. G. Acheson, of Niagara Falls, by which it is rendered more soluble and plastic and its tensile strength is increased 50 per cent. in the burned form and 350 per cent, in the aun-dried form, by the addition of a small proportion of tannin; an effect assumed to be similar to that produced by the use of straw in the mannfacture of bricks by the ancient Egyptians. Sci. Amer., April 25, 1903, p. 311.

Egypticity (ē̄-jip-tis'i-ti), n. [Egyptic + 'eity.] The quality of belonging to Egypt.

Egyptologic (ē̄-jip-tō-loj'ik), a. [Egyptolog-y+-ic.] Of or pertaining to Egyptology.

Egyptologue (ē̄-jip'tō-log), n. [Gr. Alγνπτος,

E. H. P. An abbreviation of electrical horse

ehuawa (ā-hō-ā'wā), n. [Hawaiian; also ahuawa.] In the Hawaiian Islands, Cyperus lævigatus, a sedge, very widely spread in the tropies, from which the natives of the island of Niihau make fine, very flexible, highly-prized

egocentricity (ē-gō-sen-tris'i-ti), n. [egocentricity (fe-gō-sen-tris'i-ti)], n. [egocentricity (fe-go-sen-tris'i-ti)], n. [egocentricity (fe-go-sen-tris'i-ti)], n. [egocentricity (fe-go-sen-tris'i-

Bichwaldia (ich-väl'di-ä), n. [NL., \(Eichwald, a kussian geologist.] Å genus of protrematous Brachiopoda, of the family Eichwaldiidæ, characterized by the fine epidermal network covering the surface of both valves. It occurs in Silurian rocks.

Similar Foeks.

eicosane, n. See \star icosane.

eicosylene (ī-kos'i-lēn), n. [Also eikosylene; Gr. ϵ ikoot, twenty (= L. viyinti, twenty: see twenty), + -yt + -ene.] A colorless liquid hydrocarbon, $C_{20}H_{38}$, obtained from paraffin. It boils at $314-315^{\circ}$ C. and is also called seedless. icosinene.

An abbreviation of East India

The E. I. C. S. An abbreviation of East India
y are Company's Service.
Eider-down cloth, a heavily napped wool or cotton
whited fabric of thick texture, in plain and fancy colors
and effects, used for blankets, cloakings, women's sacks, robes, etc.

eidolic (ī-dol'ik), a. [Gr. εἰδωλικός, mythologie, (είδωλον, an image, idol, myth.] Of the nature of an eidolon; eidolon-like.

eidoloclast (i-dol'o-klast), n. Same as idoloelast.

To be an eidoloclast is not a pleasant office, because an invidious one . . . It is prudent to devolve the odium of such an office upon the idol himself. Let the object of the false worship always, if possible, he made his own eidoloclast.

De Quincey, Goethe as Reflected in "Wilhelm Meister."

eidolon, n. 3. One of the small floating winged figures frequently found in Greek art, especi- Eimeria (ī-mē'ri-ä), n. [NL. (Schneider, 1875), ally on Greek vases. They are sometimes quite human, with wings; sometimes half human, half bird, like harpies, and of both sexes. They are supposed to represent the human soul, being similar to the Egyptian eeption

eidoloscope (\bar{i} -dol' \bar{o} -sk \bar{o} p), u. A form of kineto-

scope or moving-picture machine.

eidophone (I'do-fon), n. [Gr. εἰδος, form, + φωνή, sound.] A cylindrical box, with a lateral φωνη, sound. A cynnarical box, with a fateral tube and mouthpiece, over the open end of which sheet-rubber is fastened. Sand or lycopodium powder dusted on the rubber assumes various geometrical designs called roice-figures when one sings into the instrument. Athenæum, Feb. 4, 1893.

eidophusikon (i-dō-fō'si-kon), n. [Gr. είδος, form, + φυσικόν, neut. of φυσικός, natural: see physic.] A kind of magic lantern or stereoptieon constructed by an Alsatian painter.

ticon constructed by an Alsatian painter, Philip de Loutherbourg, in London about 1780. A set of colored slides was made for it by the painter Gainsborough. The machine and slides were exhibited at the Grosvenor gallery in London in 1885.

to have emotionné his fellow Academician much in the

eidoptometry (i-dop-tom'e-tri), n. [Gr. είδος, form, + ὁπτ(ικός), of seeing, + -μετρία, < μέτρου, measure.] Determination of the degree of acuteness of vision.

eldotrope (i'dō-trop), n. [Gr. ɛlōoç, form, + $\tau \rho \delta \pi o \varsigma$, a turning.] A device for exhibiting, by means of revolving disks, certain phenomena which arise from persistence of vision. The form of the instrument is similar to that of the ordinary chromatrope, but the revolving disks carry perforated patterns in ganze, lace, etc.

eidotropic (î-dō-trop'ik), a. Pertaining to or

exhibited by means of the cidetrope. **Eifelian** (i-fe'li-an), a. and n. [Eifel in Germany.] I. a. In gool., designating a subdivision of the Middle Devonian in the Eifel region in Germany and Belgium regarded by German geologists as equivalent to the Calceola group of the Rhineland. It is underlain by the Coblenzian and overlain by the Givetian. II, n. The Eifelian subdivision.

ichthyologist.] A genus of fishes of the family Gymnotidz, found in Central and Sonthern America. E. humboldti is the common species.

eight¹. I. a.—Eight-hour movement, a movement which aims to establish, either through the combined action of trade-unions or by compulsion of law, a working-day of no more than eight hours in all industries.

II. n.—In eights. (a) in bibliography, having eight leaves to the sheet: applied to early printed books. (b) in meter, in lines of eight syllables. (c) In companies or teams of eight. (d) in printing, containing eight pages only: said of a type-form or a printed and folded sheet.

eight-coupled (at'kup'ld), a. Having eight driving-wheels coupled by side-rods. The driving-wheels of heavy freight or consolidation engines are often coupled in this manner, there being four wheels on each side coupled attentions.

eighteen, n.—In eighteens, containing eighteen pages: said of a type-form or a printed and folded sheet; in bibliography, an octodecimo.

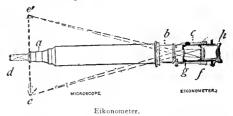
eight-square (āt'skwār), a. and u. I. a. Having eight corners; octagonal.

II. ". An octagon or an octagonal solid. eight-square (at'skwar), v. t. [eight-square, a.]

To make octagonal.

eikonogen (i-kon'ō-jen), n. [Gr. εἰκών, an image (see icon), + -γενής, -producing.] The trade-name of the sodium salt of amido-βnaphthol-monosulphonic acid, used in photog-

scope, or for obtaining the magnifying power of a microscope.



e. Euconometer.

a. object-glass, and b, eyepiece of the microscope; c, cikonometer; d, object examined; c, e', apparent size and position of object seen through microscope; f, image of the image at e, e', reduced to one tenth the size; at f, is a micrometer scale read by means of a lens in the eyepiece, h, by which the image at e, e' can be measured: x lens.

from the German surname Eimer.] A spurious genus of Coccidiidea, of the family Asporocystidae, characterized by the absence of sporocysts. With scarcely an exception, the species are nothing but the schizogenic generations of Coccidia belonging to other genera and species.

Eimerian cycle. Same as sehizogenic *cycle. E. Ind. An abbreviation (a) of East Indies;

 E. Ind. An abbreviation (a) of East Indies;
 (b) of East Indien.
 eirenarchical, a. Same as *irenarchical.
 eirenarchy, n. Same as *irenarchy.
 eisegesis (is-ē-jē'sis), n. [Gr. εἰσήγησις, ⟨εἰσηγεῖσθαι, lead into, ⟨εἰς, into, + ἡγεἰσθαι, lead.]
 A subjective method of interpretation by introducing oracle over conjugate into the introducing one's own opinions into the original: opposed to exegesis.

eisegetical (is-ē-jet'i-kal), a. Relating to or of the nature of eisegesis.

eisne, a. See cignc.

eisodic, a. Same as esodic.

the Grosvenor gallery in London in 1885.

The eidophusikon, as the Anglo-Alsatian called it, seems to have emotionne his fellow Academician much in the same way as a fine violin.

W. Armstrong, in Portfolio, N. S., IX. 54.

W. Armstrong, in Portfolio, N. S., IX. 54.

Educulative, as Game as esone.

ejaculative (ệ-jak' ṇ-lạ-tiv), a. [ejaculate + -ive.] Of the nature of an ejaculation; ejaculatory: as, an ejaculative expression.

eject, n. 2. In projective geom., the figure com-

posed of straights and planes made in projecting the original.—Axial eject, a figure composed of planes obtained by projecting from a fixed straight (the projection-axis) an original composed of points.

ejection, n. 3. In philos., the mental act of

forming an eject.

ejectivism (e-jek'tiv-izm), n. [ejective + -ism.] In philos., the doctrine that the formation of ejects is an indispensable factor in the formation of the consciousness of personality. Buldwin.

ejectivity (e-jek-tiv'i-ti), n. [ejective + -ity.]
The fact of being an eject or inferred exis-

tence. G. J. Romanes.

tence. G. J. Romanes.

ejector, n. (d) In sheet-metal work, an attachment to a press for throwing out the thished stamped or drawn object while the die is rising and before the operator or the feed-motion places the next blank in position. The push-out plate used with presses employing double dies is a form of ejector. (See double dies, under *die.) The stripper, on the other hand, is not an ejector, since it releases the work from the die only, without removing it from the press. See stripper. from the press. See stripper.

ejector-blade (ē-jek'tor-blād), n. In the Mergenthaler linotype, a device which ejects the slug from a mold into a stick or galley; on a Dow machine, one which ejects types, after they are assembled, into a stick or galley.

ejector-washer (ē-jek'tor-wosh'er), n. A tank with the pyrenoid. Mercschkorsky, or receptacle in which sand for filter-beds is elæosaccharum (e-lē-ō-sak'a-rum), n. washed or scoured by streams of water from

existence of which he predicted, occupying the same position in his fourth series that boron does in the second. When this element

ekaha (ā-kā'hā), n. [Native name.] In the Hawaiian Islands, the bird's-nest fern, Neottopteris Nidus, a fern with large simple fronds usually growing as an epiphyte on forest trees.

See bird's-nest, 1 (c). eka-iodoform (ek"a-ī'ō-dō-form), n. with which 5 per cent. of formaldehyde has

been mixed.

eka-silicon (ek″a-sil'i-kon), n. In chem., the name given by Mendeléjeff to an element, the existence of which he predicted, occupying the same position in his fifth scries that silicon and the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position in his fifth scries that silicon are the same position does in the third. When this element was subsequently discovered it was named germanium.

eka-tellurium (ek/a-te-lū'ri-um), n. In chem., a supposed new element, announced by Grünoccupying the same position in Mendewald. léjeff's eleventh series that tellurium does in the seventh, and presumably identical therefore with the austriacum of Brauuer. As yet **Elaphebolion** (el/a-fē-bō/li-ou), n. [Gr. Έλα-there is no confirmation of the existence of φηβολιών, ζ'Ελαφηβόλια: see Elaphebolia.] The either of these hypothetical substances.

eke, n. (c) An added structure. (d) In agri., an oblong stack.

Ricks are built either as long ekes or round stacks.

J. Wrightson, Farm Crops, p. 127.

ekkyklema, n. See *cceyclema. Elachistidæ (el-a-kis'ti-dē), n. pl. [NL., & Elachista + -idæ.] A family of tineoid moths containing many large and prominent genera, some of its forms having considerable economic importance.

elæagnaceous (el "ē-ag-nā'shius), a. Belenging

to the plant family Elæagnaccæ.

Eleocarpaceæ (e-le-ō-kār-pā'sē-ē), n. pl. [NL. (Lindley, 1836), < Elæocarpus + -aecæ.] A family of dicotyledonous choripetalous plants of the order Malvales, typified by the genus of the order Malvales, typified by the genus Elæocarpus. They were formerly included in the Tiliaceæ, but differ from that family chiefly in the fact that the 2-celled anthers open by terminal pores, and in the absence of mucilage-cells in the bark and pith. There are 8 genera and about 120 species, half of which belong to Elæocarpus and 44 to Sloanea. They are chiefly natives of the tropics or of temperate regions of the sonthern hemisphere, a few growing in China and Japan. They are trees or shrubs with undivided leaves and flowers in racemes, cymes, or clusters. The wood is often valuable. See breakax, 1, maqui, and hedgehog-fruit.

Elæocarpaceous (e-lē-ō-kār-pā'shius), a. Be-

elæocarpaceous (e-lē-ō-kār-pā'shius), a. Be-

Elæococca (e-lē-ō-kok kā), n. [NL., ζ Gr. ελαιον, oil (or ελαια, the olive-tree), + κόκκος, berry.] In bot., a genns of trees. E. vernicia is the tung-tree, the varnish-tree of China and Japan. The analysis of the state of th

Elæocrinidæ (e-lē-ō-krin'i-dē), n. pl. Elwocrinus + -idw.] A Devonian family of blastoid Echinodermata or blastoids, characterized by having the posterior deltoid divided into two parts by an anal plate and the anus

distinct from the posterior spiracles. elæoleic (e-lē-ō-lē'ik), a. Pertaining to elæoleic elæ01elc (e-1e-0-1e ik), a. Pertaining to elæ01elc acid. — Elæ01elc acid, a liquid acid, $c_1 \gamma \Pi_{30} O_{20}$, which is found as a glyceride together with eleconargaric acid in the oil from the seeds of Elæ00cca vernicia. It is also formed when the isomeric elæ0margaric or elæ0stearic acid is heated to 175°–180°C. in a tube filled with hydrogen. elæ0margaric (e-1e³ $^{\circ}$ 6-mär-gar'ik), a. [Gr. i $^{\circ}$ 2 i $^{\circ}$ 3 i $^{\circ}$ 4 i $^{\circ}$ 5 i $^{\circ}$ 5 i $^{\circ}$ 6 i $^{\circ}$ 7 i $^{\circ}$ 7 i $^{\circ}$ 8 i $^{\circ}$ 9 i $^$

pound, $C_{17}H_{30}O_2$, prepared by the saponification of elæocecca oil with alcoholic potassium hydroxid. It melts at 41° C. and is readily converted into elæoleic acid, with which and with elæostearic acid it is isomeric.

elæoplast¹, eleoplast (e-lē'ō-plāst), n. [Gr. $t\lambda a \omega v$, oil, $+\pi \lambda a \sigma \tau \phi c$, formed.] 1. In cytol., a

highly refractive globalar body consisting of granular proteplasm and containing drops of oil.—2. A minute body of unknown function arising within the endochrome of certain diatoms. It may be genetically connected with the pyrenoid. Mereschkowsky.

έλαιον, oil, + σάκχαρον, sugar.] A mixture of

an ejector. eka-aluminium (ck"a-al- $\hat{\mu}$ -min'i-um), n. See elæostearic (e-le $\hat{\nu}$ -st $\hat{\nu}$ -ar'ik), n. [Gr. $\hat{\nu}$ - $\hat{\nu}$ -auov, oil, $\hat{\nu}$ - $\hat{\nu}$ - $\hat{\nu}$ -auov, oil, $\hat{\nu}$ - $\hat{\nu}$ exposed to sunlight. It melts at 71° C., is isomeric with eleconargaric and electeic acids, and is converted into the latter by heating.

was subsequently discovered it was named seament (e-lē-ō-thē'si-um), n.; pl. elæo-seamdium.

ekaha (ā-kä'hä), n. [Native name.] In the Hawaiian Islands, the bird's-nest fern, Neot-Roman or Greek bathing establishment, the room where the bathers were anointed after bathing.

Elagatis (el-a-gā'tis), n. [NL.] A genus of carangoid fishes related to Seriola, distinguished by the presence of the finlet behind the

elaidinic (el/a-i-din'ik), a. [claidin + -ic.] Having reference to claidin. - Elaidinic acid, a

substance isomerie with oleic acid.

Elaphebolia (el"a-fe-bō'li-ā), n. pl. [Gr. Έλα-φηβόλια, ζελαφηβόλος, an epithet of Artemis: see Elaphebolos.] A feast of Artemis Elaphebolos in Phoeis. It is mentioned by Plutarch in connection with the city of Hyampolis.

ninth month of the Greek calendar, from the middle of March to the middle of April, approximately. In this month the Elaphebolia were held.

Elaphebolos (el-a-feb'ē-los), n. [Gr. ἐλαφηβό- $\lambda o \varsigma$, shooting deer, $\langle \epsilon \lambda \alpha \phi o \varsigma$, deer, $+ \beta \acute{a} \lambda \lambda \epsilon \iota v$, threw.] The deer-slayer: an epithet of Artemis. Elaphoglossum (el"a-fō-glos'um), n. [NL. (Schott, 1834). < Gr. ελαφος, a stag, + γλώσσα, the tongue. The fertile fronds are fancifully compared to a deer's tongue.] A well defined compared to a deer's tongue.] A well defined genus of tropical polypodiaceous ferns. The fronds are simple, tongue-like, glabrous to densely scaly, from a few inches to two feet high, usually clustered from a decumbent rhizome, and are of two sorts, the fertile somewhat contracted and wholly covered on the lower surface with sporangia. There are about 150 species, generally distributed throughout the tropics, alike in having the simple or forked veins free and parallel, directed nearly at right angles to the margin.

Elaphomycetaceæ (el/a-fē-mī-sē-tā'sē-ē), [NL., $\langle Elaphomyees (Elaphomyeet-) +$ accæ.] A family of subterranean ascomycetous fungi, named from the single genus Ela-phomyces, having the ascocarps inclosed in a distinct peridium. The spores form a powdery mass at maturity.

elapine² (el'a-pin), a. [Elaps + -ine¹.] Relating to the snakes of the genus Elaps and their relatives, usually considered as forming the family Elapidæ.

elapine² (el'a-pin), n. [Elaps + -ine².] A poisonous constituent of snake-poison.

elasmometer (ē-las-mem'e-ter), n. [clas(tic) + Gr. μέτρον, measure.] A form of inter-ferometer for the measurement of the elasticity of flexure.

thetty of flexure.

Elastic fatigne. See *after-strain.—Elastic force of vapor, hysteresis. See *vapor, *hysteresis.—Elastic limit. See limit of elasticity.—Elastic nut. See **thet.—Elastic putson pump. See *pumpl.—Elastic resistance, spindle. See *resistance, *spindle. See *resistance, *spindle. elastica (ē-las'ti-kā), n. [NL.] 1. The elastic (middle) layer of the walls of the arteries: an abbreviation of *their layer of the strain.

an abbreviation of *tunica clastica

(which see, with cut). -2. In physics. 68886 a curve such that the reciprocal of the radius of curvature at any point is proportional to the distance of the point from a straight line. Also called clastic curve.

elasticin (ē-las'ti-sin), n. [elastic Elastica Curves. + in².] Same as elastin.

+ m².] Same as clastin.

Elasticity of elongation, the resistance to stretching or compression of a body subjected to longitudinal stress. Its value is denoted by Young's modulus. See modulus of elasticity, under modulus.—Elasticity of flexure, the resistance to bending manifested by a body subjected to transverse stress.—Elasticity of liquids, the resistance to change of volume under compression, shown by liquids. Liquids at rest offer no resistance to change of form but their elasticity of volume is in general very high and the

return to their original volume when relieved from stress return to their original volume when relieved from stress is complete.—Flasticity of volume. Same as elasticity of bulk.—Equation of elasticity, the characteristic equation of a perfect gas; an equation of condition expressing the relation between elastic pressure, volume, density, and temperature prevailing in the ideal gas: the combined laws of Boyle, Mariotte, Gay-Lussac, and Charles; the equation of Van-der-Waals.—Rotational elasticity, the power of a medium to resist rotational stress and when released to return to its original conformation: specifically applied to certain conceptions of the luminiferous ether. the luminiferous ether.

elastoidin (\ddot{c} -las-toi'din), n. [elast(ie) + -oid + -in².] An albuminoid belonging to the skeletins, found in certain cartilaginous structures of a shark (Mustelus lævis).

elastose (ē-las'tōs), n. [elast(in) + -ose.] An albumese derived from elastin.

elater², n.—Eyed elater, an American elaterid beetle, Alaus oculatus, so called on account of two large eye-like spots on its thorax. Its larvæ live in decaying wood.

elaterics (el-a-ter'iks), n. pl. [NL. *clatericus, Gr. ἐλατήρ, a driver, ζ ἐλαύνειν, drive, set in motion: see elastic.] The science of the elasticity of solids. C. S. Peirce. elaterist (e-lat'e-rist),

One who holds a particular theory of elasticity: used by Boyle with reference to his law. der elastic, a., 2. elatinaceous (ē-lat-i-nā'-



Somewhat enlarged.

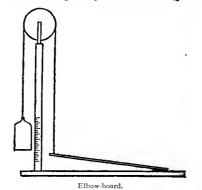
shius), a. Belongingto the plant family Elatinaceæ.

elbow, n. 7. In carriages, the rail that forms the upper part of the frame of the quarter.

—False elbow, a piece of timber shaped to fit the elbow of a carriage-body. It is used as a form for the roll or elbow-cushion.—Minere' elbow, enlargement of a bursa at the point of the elbow, due to pressure, occurring in miners who work in low tunnels resting the weight of the body on the elbow.

elbow-bit (el'bō-bit), n. A ceach-bit with long cheek-pieces which have a double-elbow bend below the mouth piece.

elbow-board, n. 2. In psychol., an apparatus for determining the just noticeable (passive)



motion of the forearm, that is, the just noticeable change of articular sensation at the elbow. Also called arm-board. The forearm and hand (palm down) are laid upon the hinged board, which is thus brought to the horizontal: the elbow-joint rests directly above the hinge. The experimenter then gently draws down the weight, and thus raises the forward end of the board. The observer reports the first indication of articular sensation at the elbow.

elbow-spring (el'bō-spring), n. A carriage-spring slightly curved. The spring-plates are graduated toward one end, and the other end is bolted to the body, it being used as a spring body-loop.

body, it being used as a spring body-loop.

elder², n.—American elder, Sambucus Canadensis. See cut under Sambucus.—Blood-elder, the dwarf elder, Sambucus Ebulus.—California elder. Same as pale **elder.—Common elder. Same as American **elder.
—Dwarf elder. (a) See elder². (b) Same as wild elder (a) (under elder²). (c) Same as wild elder (b) (under elder²).—German elder, the Old World elder, Sambucus nigra. See elder², bour-tree, hautboy, 2, and Judastree, 3.—Ground-elder, the dwarf elder, Sambucus Ebulus.—Horse-elder. Same as horseheal.—Marsh-elder. See marsh-elder. The name is applied to all the species of Iva.—Mexican elder, a tree 25-30 feet high, Sambucus Mexicana, of the Southwestern United States, Mexico, and Central America, with creamy-white flowers, small, blackish, shining, juley berries, and light, soft, fine-grained wood. It makes a fairly good shade-tree in the dry regions of Mexico and Lower California, and the herries are eaten by the Mexicans and Indians.—Mountain-elder. (a) The red-berried elder. (b) Same as pale **elder.—Pale elder, s tree 30-50 feet high, Sam-



Pale Elder (Sambueus glauca) (From Sargent's "Manual of the Trees of North America."

bucus glauca, common on the Pacific slope from British Columbia to southern California, and extending inland to the Sierras and the Wasatch Mountains. The flowers are yellowish white; the berries blue-black, whitened with a mealy bloom, rather sweet and juicy; the wood light, soft, weak, and coarse-grained. It is sometimes planted for ornament.—Parsley-elder, parsley-leaved elder, the Old World elder, Sambneus nigra, especially a form with narrowly lobed or cut leaflets.—Prickly-elder, the Herenles-club or angelica-tree, Aralia spinosa.—Redberried elder, Sambneus pubens, a North American shrub of wide distribution across the continent, differing from other species by its conical inflorescence and red or scarlet drupes.—Sweet elder. Same as American *kelder.—Water-elder. See water-elder.

elder-blow (el 'der-blo), n. The common

elder-blow (el'der-blo), n. The common American elder, Sambucus Canadensis.

elder-rob (el'der-rob), n. The jnice of the fruit of the Old World elder, Sambucus nigra. Also called elder-roob.

An abbreviation (b) of electrical; (c) of the Latin clectuarium, electuary.

election, n.—Judge of election, one of a body of voters appointed to receive, count, and record the ballots east at an election and to report the same to the proper authorities.—Supervisors of election, in United States law, the persons appointed by the United States Circuit Court judge to supervise the registration of voters and the holding of elections for members of the House of Representatives. The law providing for such supervisors was repealed in 1894.

electionary (ē-lek'shon-ā-ri), a. [election + Elect. World and Engin., Nov. 21, 1903, p. 853. - aryl.] Relating or pertaining to the exercise electrocardiogram (ē-lek-trō-kār'di-ō-gram), of one's right to vote at a popular election, or n. Arccord showing the variations in the electric the easting of one's vote at such an election.

election-committee (ē-lek'shon-ko-mit"ē), In parliamentary or municipal elections in the United Kingdom, a committee of voters voluntarily formed to promote the election of a particular candidate.

electro-copper (ē-lek-trō-kop'er), n. Copper which has been deposited from solution by In parliamentary or municipal elections in the

ticular candidate.

electric. I. a.—Electric arc, bath, blue, calamin, capstan, car, etc. See *arc, etc.—Electric chorea. Same as *chorea electrica.—Electric efficiency. See *efficiency of a source of light.—Electric inertia. See inertia.—Electric osmose. See electrical endomosis, under endosmosis.—Electric steel process. See *process.—Electric sunstroke. Same as electric *prostration.

II. n. 2. A railway or car operated by electricity: usually in the plural.

Electrical fire bigs symtomy. See *fire etc.

electricity: nsnally in the plural.

Electrical fire, kiss, syntony. See *fire, etc. electricity, n.—Atmospheric electricity, the free electricity present in the atmosphere of the earth and supposed to be equivalent to the sum of the small charges of electricity accompanying the particles of dust and atmospheric vapor, and especially of those on the electrified ions or electrons of Elster and feitel and the free corpuscles of J. J. Thomson. Both positive and negative electrons exist in the atmosphere, and the charges are equal, so that the general character of any electric reaction depends on the preponderance of positive or negative electrons. The upper layers of all are usually electrified positively relative to the lower layers; the ground is ordinarily negative. The descending air of the foelm contains more positive than negative electrons. At a lower cloud-level of about two thousand meters Ebert finds the electronic charge greater than at the earth's surface. At the earth's surface, under normal conditions, there are from one to three electrostatic units of charge per cubic meter of all, and somewhat more free positive, than free negative units. This latter difference diminishes with altitude, and at three kilometers the charge is four electricity, nether, terms sometimes used to denote the quantity of electricity which is carried by a single ion of a univalent element, such as an atom of hydrogen.—Cleavage electricity, electrication produced by the cleavage of crystalline substances.—Contact electricity equires energy, this energy must be supplied when producing electricity, the electrification of the carton as corrosion of one of the contact plates, by head, etc.—Terrestrial electricity, the electrified condition of the earth as distinguished from that of the atmosphere. It is usually negative and more intense in equatorial than in polar regions. It was formerly supposed to have originated in the earth either by chemical, thermal, or piezo-electric processes; but the theory of electrons or corpuscles an Electrical fire, kiss, syntony. See *fire, etc.

electricize (e-lek'tri-sīz), v. t.; pret. and pp. electricized, ppr. electricizing. To eharge, as a Leyden jar; to electrify.

Then electricise the bottle and place it on wax. Franklin, Experiments and Observations on Elect., p. 16.

electricute (ē-lek'tri-kūt), v. t. [Also electro-cute; absurdly formed from electri(city) + (exe)cute.] To execute or put to death by electricity. [Recent and colloq.] electricution (ē-lek-tri-kū'shou), n. The act

of electricating. Also electrocution. [Recent

and colloq.

electrification, n. 2. The substitution, upon a railway system, of electric for steam or other motive power; the conversion of a steam-, ca-ble-, or horse-railway into an electric railway.

electrion (ê-lek'tri-on), n. [Gr. ἡλεκτροι, amber (repr. electricity), + ἰων, going (see ion).] In phys. chem., a name given by Lord Kelvin to an atomic quantity of negative electricity.

According to it each atom of matter has positive electricity distributed uniformly through its mass, and, concentrated at one or more points, in general within it, atomic quantities of negative electricity, to which Lord Kelvin gives the name "electrions." Nature, Oct. 22, 1903, p. 611.

electro-anæsthesia (ē-lek"trō-an-es-thō'si-ä), n. Insensibility to electrical stimulation. electro-analysis (ē-lek"trō-a-nal'i-sis), n. In

chem., the method of determining the amounts of metals in solutions by eausing the metal to be deposited, by electrolysis, in a form convenient for weighing.

The differences observed in the electro-analysis of mercury from a potassium cyanide solution are due to an attack of the platinum disc serving as cathode and to the solubility of platinum in potassium cyanide.

Elect. World and Engin., March 28, 1903, p. 530.

stat electro-analytical (ē-lek"trō-an-a-lit'i-kal), a. In chem., utilizing, or related to, methods of analysis by electrolysis, and especially by the electrolytic deposition of metals.

Electro-analytical methods, on account of their sim-olicity and quickness, are becoming more and more used plicity and queeness, and in practice.

Elect. World and Engin., Nov. 21, 1903, p. 853.

currents in the body which occur with the pulsations of the heart. Sci. Amer., March 5, 1904, p. 197.

means of electrolysis.

electrocute, electrocution. See *electricute. *etectricution

electrocyanide (ē-lek"trō-si'a-nid), a. Employing cyanides and electrolysis.—Electrocyanide process, a cyanide process in which the solution of the gold is aided by electrolysis.

process, a cyanide process in which the solution of the gold is aided by electrolysis.

electrode, n.—Brush electrode, a wire brush connected with one of the poles of an electric battery, used in the therapeutic application of electricity to the body.—

Calomel electrode, in phys. chem., a non-polarizable or reversible electrode, in phys. chem., a non-polarizable or reversible electrode consisting of metallic mercury covered with the insoluble mercurous chlorid (calomel) and with the chlorid of the other metal indicated by the conditions. Suppose the other metal to be zinc; then, if a current passes from the electrode to the electrolyte, chlorin ions from the mercurous chlorid go into solution, leaving their equivalent of metallic mercury; if the current passes from electrolyte to electrode, chlorin ions from the zinc chlorid combine with mercury to reproduce mercurous chlorid. All succeeding currents in either direction meet precisely the same conditions, and the electrometric force is constant.—Indifferent electrode, in electroterap., the electrode which serves to complete the circuit. The one employed to make the therapeutic application is called the therapeutic electrode.—Reversible or non-polarizable electrode, in phys. chem., a metallic plate standing in a solution of a salt of the metal. When a current passes from the plate into the solution, part of the metal is dissolved; when the current passes from the solution to the plate, part of the metal of the solution is deposited on the plate: the chemical process in one case is precisely the reverse of that in the other. Moreover, the two currents in the two opposite directions have precisely the same electromotive force, assisting or opposing the current; that is, the electrode is non-polarizable.

electrodeless (ē-lek' trōd-les), a. Without electrodes: said specifically of a vacuum-tubo through the glass of which no metal terminals are inserted, or of the electrical discharge

through the glass of which no metal terminals are inserted, or of the electrical discharge within such a tube when the latter is placed in a snitable oscillatory field.

electrodiagnosis (ē-lek"trā-dī-ag-nō'sis), n. The locating and determination of disease by testing the reaction of nerves and museles to

a current of electricity. electro-ethereal (e-lek trō-e-thō ri-al), a. Of or pertaining to the ether, considered as the medium to the disturbance of which electrical phenomena are ascribed.—Electro-ethereal theory of light, a theory of light, propounded by Kelvin (1903), according to which the electrons in a source of light are vibrators that derive energy by collisions with surrounding atoms and radiate it in the form of ether-

electrics (ē-lek'triks), n. The science of electrogoniometer (ē-lek"trō-gō-ni-om'e-ter), trieity.

n. An instrument devised by Rontin for electricute (ē-lek'tri-knt), v. t. [Also electromeasuring the difference of phase between the electromotive force and current in a threephase system.

electrogram (ē-lek'trō-gram), n. A diagram exhibiting continuously the electric condition

of the atmosphere at any station.

electrograph, n. 3. In photog., a photograph of an electric spark. See the extract.

of an electric spark. See the extract.

Perhaps it is not exactly correct to describe this as a photograph, since light plays no part in its production. It may more properly be called an "electrograph." The manner in which such representations of electric discharges are produced is as follows: An ordinary photographic plate, inclosed in two light-proof paper bags (as used in X-ray work), is placed film upward on a metal plate, which is insulated. The pointed dischargers of an induction coil, in this case one giving a 10-inch spark, are placed a few inches apart, touching the paper envelope. The circuit is then closed, and a single discharge brought about by holding the hammer of the coil and letting it go suddenly. The spark in its passage through the sensative film decomposes it. The negative is then developed in the ordinary way.

Sci. Amer. Sup., March 11, 1905, p. 24405.



Electrograph.

4. An instrument for the continuous recording

of atmospheric electricity.

electrography, n. 3. In photog., a process by which a dry sensitized paper is made to reproduce a design through the agency of the produce a design through the agency of b. 5, electric sparks. It consists in placing a bromo-iodide of silver paper on a spotted metallic plate, pressing the same down by means of a glass, and passing sparks from a powerful Leyden jar along the metallic plate. Each break in continuity of the metallic surface causes a spark which discolors the paper at this point.

by electrohorticulture (ē-lek-trō-hôr'ti-kul-tūr),

n. The growing of plants by means of the spaterial light, the electric light electric light the electric light electric light the electric light electric

electric light, the electric light either (and usually) supplementing the snalight or affording the only illumination for the plants: the latter condition is commercially impossible.

electro-industrial (ē-lek#tro-in-dus'tri-al), a. Relating to electricity as applied to industrial operations.

electro-irrigation (ē-lek"trē-ir-i-gā'shon), n. Irrigating by means of water pumped by electric power.

electroluminescence (ē-lek"trō-lū-mi-nes'ens), Lumineseenee electrically excited, as by discharge in a vacuum tube. See *lumithe discharge in a vacuum tube. nescence,

electroluminescent (ē-lek"tro-lū-mi-nes'ent), Rendered luminescent by the electric dis-

electrolysis, n. 2. In surg., the destruction of tumors, cicatricial bands, calculi, and other pathological formations by means of the electric current.—Arrhentus's theory of electrolysis, in phys. chem., the hypothesis that an electric current is carried through an electrolyte only by dissociated ions, coupled with a proposed method of determining the relative amounts of the dissociated and the undissociated molecules.—Laws of electrolysis. The principal laws relating to electrolysis are as follows: (a) The amount of chemical action in a given time is equal in all parts of the circuit. (b) The number of ions set free in a given time is proportional to the strength of the current. The current is carried through the electrolyte by the motion of ions possessing electric charges, and the ions of each element carry an unalterable charge of electricity; increase of current therefore involves an increase in the number of ions liberated. (c) If the same current be passed simultaneously through several cells in series, containing different electrolytes, the weight of the ions liberated in each cell is equal to the total quantity of electricity conveyed, multiplied by the electrochemical equivalent of the fons of that cell.

Electrolytic detector. See *detector.—Electrolytic grass

chemical equivalent of the ions of that cell.

Electrolytic detector. See *detector.—Electrolytic dissociation. See *dissociation.—Electrolytic gas, in chem., the mixture of gases set free in the electrolysis of dilute oxacids or of alkaline solutions, as well as of other substances. In the cases specified, the gas is an explosive mixture of one volume of oxygen with two volumes of hydrogen. The volume produced in a given time is sometimes used to measure the strength of the current of electricity by means of one of the forms of voltameter.—Electrolytic hysteresis, interrupter. See *hysteresis, *interrupter.—Electrolytic meter. in plus, a neter for trolytic hysteresis, interrupter. See *hysteresis, *interrupter.—Electrolytic meter, in phys., a meter for measuring an electric current by the weight of metal which is dissolved or deposited by the passage of the curelectrolytic
rent (or of a convenient fraction of it) through an electrolytic cell.—Electrolytic refining, a mode of puritication now applied on a very large scale and with great advantage to several of the metals, especially to copper, which is thus obtained for electrical conductors of a far higher degree of purity than would otherwise be possible, while notable quantities of gold and silver present in minute proportion are at the same time saved. The principle of the process is the decomposition of a salt of the metal to be refined, dissolved in water, by passing an electric current through it, the metal in question being deposited in a pure state on the negative electrode, while the acid constituent of the salt attacks and dissolves a slab or plate of the impure metal which forms the positive electrode, reproducing the salt. By suitable regulation of the current some impurities are not dissolved, while others, which pass into solution, are not deposited.—Electrolytic slime, the finely divided deposit of material left undissolved at the anode in electrolytic refining, as of copper. From it the precious metals are recoverable with profit, even when they have formed but a very minute proportion of the original copper.

Electromagnetic coupling, inertia, waves.

Electromagnetic coupling, inertia, waves.

See *coupling, etc. electrometallurgical (ē-lek "trō-met-a-ler'ji-Relating to or connected with eleckal), a. trometallurgy

electrometallurgist (ē-lek-trō-met'al-er-jist),

n. One who is versed in the art of electrometallurgy (which see).

electrometallurgy, n. 2. The process of extracting metals from their ores, or the manufacture of metals by the use of heat from an electric are.

electrometer, n.—Dolazalek electrometer, a quadrant electrometer of great sensitiveness used in the study of radioactivity. It has a very light needle of silvered paper suspended by a quartz fiber. It can be made to indicate a potential difference of 0.05 millivolt.—Ebert electrometer, an apparatus for observing the charge of electrons contained in the air at a given time and place. It consists of a clockwork aspirator which draws a definite quantity of air through the space between two metal cylinders fitting one into the other. If the capacity of the system and the quantity of air drawn through it at a given time are known, the quantity of electricity that has been contained in a cubic meter as a charge of electrons can be determined. It is especially adapted for use in balloon ascensions.

electromobile (ē-lek-trō-mē'bil), n. An electrie automeoile; a motor-car driven by electrie motors whose current is derived from electric storage-batteries or accumulators.

electromotive, a.—Contact electromotive force, in elect., the electromotive force due to the contact between two different metals. The existence of a true contact electromotive force which does not depend on chemical action is denied by many physicists.—Energy electromotive force, in electromotive force or component of electromotive force in phase tive force or con with the current

electromotivity (ē -lek "trē - mē - tiv ' i -ti), n. [electromotive + -ity.] The power of exciting electrical action.

The original positive current of a freshly excised ball has two factors: electromotivity of the cut end of the optic nerve and electromotivity of the disturbed retina.

Philos. Trans. Roy. Soc. (London), 1900, ser. B, p. 128.

electron, n. 2. In phys. chem., the definite charge of electricity which is associated with a univalent ion. Sometimes called an atom of electricity. See *electricity.—3. According to a recent hypothesis, a minute particle detached from an atom of a gas by particle detached from an atom of a gas by eertain agencies, as when the gas is carrying an electric current. The electron has a mass of something like one thousandth of the muss of an atom of bydrogen, and possesses (or consists of) a negative electric charge equal to that of the negative univalent ion of electrolytic conduction. In a gas at very low pressures, the electron constitutes the negative ion of gaseous conduction, while the atom from which the electron has been detached constitutes the positive ion. In gases at greater pressures, electrically neutral molecules become attached to the electron and to the atom from which the electron has been detached, and these complex systems constitute the ions of gaseous conduction at atmospheric pressure. In liquid electrolytes, according to this theory, an atom or radical from which one, two, or three electrons have been detached is a positive univalent, bivalent, or trivalent ion. An atom or radical to which one or more electrons have been attached constitutes a negative ion of the corresponding valence. In metallic conductors the electrons pass from an atom to an adjacent atom without producing electrolysis or chemical decomposition. The experimental basis of the hypothesis has been chiefly discovered by J. J. Thomson, with the aid of some of his pupils. certain agencies, as when the gas is carry-

These negative ions perhaps realize the conception of electrons due to Lorentz and Larmor. . . An atom plus an electron is a monovalent anion, an atom minus an electron, a monovalent cation. In metallic conductors the electrons can pass from one atom to the next, and thus allow a current to flow without chemical decomposition.

J. J. Thomson, Encyc. Brit., XXVIII. 16.

It may be convenient here to emphasize the dimensions of an electron as above specified, for the arguments in favor of that size are very strong, though not absolutely conclusive; we are sure that their mass is of the order one thousandth of the atomic mass of hydrogen, and we are sure that if they are purely and solely electrical their size must be one hundred-thousandth of the linear dimensions of an atom; a size with which their penetrating power and other behavior is quite consistent.

Assuming this estimate to be true, it is noteworthy how very small these electrical particles are, compared with the atom of matter to which they are attached. If an electron is represented by a sphere an inch in diameter, the diameter of an atom of matter on the same scale is a mile and a half. Or if an atom of matter is represented by the size of this theater, an electron is represented on the same scale by a printer's full stop.

Sir Oliver Lodge, in Pop. Sci. Mo., Aug., 1993, p. 291. Electron theory in phys. chem., the hypothesis, not yet fully developed, that the atom of any element consists of a definite (large) number of electrons, describing orbital and vibratory motions under the influence of the forces acting between them. Optical considerations led

bital and vibratory motions under the influence of the forces acting between them. Optical considerations led Larmor and Lorentz to adopt the hypothesis as a basis for mathematical studies, before J. J. Thomson isolated electrons (called corpusales by him) and found that the electrons produced in a vacuum-tube are identical in mass, whatever the gas and whatever the metal of the electrodes. That atoms of all elements are made up of different numbers of identical electrons is an attractive and valuable working hypothesis.

The electron theory fits and luminously explains Am The electron theory its and luminously explains Ampère's idea that magnetism is due to a rotating current of electricity round each atom of iron; and following these definite views of the existence of free electrons, has arisen the electronic theory of matter.

Sir W. Crookes, quoted in Science, June 26, 1903, p. 1001.

electronic (ē-lek-tron'ik), a. Pertaining to or of the nature of electrons. See **electron*, 2 of the nature of electrons. See *electron, 2 and 3.—Electronic charge, the number of electrons contained in a unit volume, as one cubic meter of gas or air. This increases rapidly with altitude above sea-level. The upper strata of air have high electric conductivity, as is shown by the amoral displays and heat-lightning. According to some authorities, the electric charge of the upper air is the effect of the violet rays of sundight; according to others, it is due to corpuscles emanating directly from the sun's atmosphere. The condensation and precipitation of aqueous vapor takes place on the negative nuclei more easily than on the positive; the former are therefore washed from the lower air down to the earth, thus leaving the positive charge to preponderate in the atmosphere. Victor Conrad computes the amount of electricity attached to one gram of water in a cumulus cloud as 0.028 × 10-8 of a coulomb.—Electronic theory. See *electron theory.

electron-trap (ē-lek'tron-trap), n. An arrangement by which plus and minus electrons may be separated from each other by taking advantage of the different velocities with which

electro-osmose (ē-lek-trō-os'mōs), n. See elec-

trical endosmosis, under endosmosis. electro-osmotic (e-lek"trō-os-met'ik), a. In phys. chem., producing, produced by, or connected with electric osmose.

electropath (ē-lek'trē-path), n. [A back formation from electropathy.] One who is skilled iu

the art of electrotherapy. electrophore (ë-lek'tro-for), n. [See electroph-Same as electrode.

electrophototherapy (ë-lek"trë-fë-të-ther'-a-pi), n. The treatment of disease by means of the electric light. Lancet, July 11, 1903, p. 104. electrophysics (ē-lek-trō-fiz'iks), n. Same as electrologu.

electropneumatic (ē-lek"trē-nū-mat'ik), a. Moved by electric and (then) pneumatic power.—Electropneumatic action, in organ-building, an action in which the original impulse from the console is conveyed by electricity, but the force exerted within the instrument (in opening valves, etc.) is derived from compressed air.—Electropneumatic organ, an organ with an electropneumatic action.—Electropneumatic organ, and the thermostate of the constant of

matic thermostat. See *thermostat. electroprocess (ē-lek'trē-pros es), n. The arts or manipulatious needed to produce an electro-

typed duplicate.

electroprognosis (ē-lek"trō-prog-nō'sis), n. A prognosis based upon the reactions obtained upon a trial application of electricity to diseased nerves or muscles.

electrorefine (e-lek"tre-re-fin'), v. t.; pret. and pp. electrorefined, ppr. electrorefining. To refine by means of electrolysis. A plate of the crude metal is made the anode in an electrolyte consisting of a salt of the same metal; when the current passes, the crude metal dissolves from the anode, and the pure metal, the same metal of the same metal is made the anode, and the pure metal, the same metal of the same metal by means of electrolysis. A plate of the crude metal is made the anode in an electrolyte consisting of a sait of the same metal; when the current passes, the crude metal dissolves from the anode, and the pure metal, if suitable conditions are maintained, is deposited on the

electrorefining (ē-lek'trō-rē-fī/ning), n. refining of a metal by means of electrolysis. electroreplica (ē-lek"trē-rep'li-kä), n. A metallic duplicate of an orginal produced by electrodeposition.

An electro replica of Tycho Brahe's quadrant, from the original in the British Museum, is deposited in the Smithsonian Institution. Smithsonian Rep., 1890, p. 728.

electroscope, n.—Lantern electroscope, an electroscope so constructed that it may be placed in the field of a projecting lantern and an enlarged image of the moving parts thus be thrown upon a screen for observation at a distance.—Radium electroscope, an electroscope, devised by Strutt, in which the charge is permanently maintained by the action of a small mass of radium, or in which the leaves of the instrument, thus charged, are discharged by contact, collapse, and are recharged by the radium at a regular rate indefinitely.

[electro- + Gr. στενός, narrow, + λίσις, dissolution.] Electrodeposition within the inter-stices of a permeable substance traversed by the current within an electrolytic cell

electrostenolytical (ē-lek"trō-sten-ō-lit'i-kal), Of, pertaining to, or by means of electro-

stenolysis.

electrostenolytically (ē-lek"trō-sten-ō-lit'ikal-i), adv. In an electrostenolytic manner or by an electrostenolytic process.

electrostriction (e-lek-tro-strik'shon), n. [electro- + LL. strictio(n-), compression.] Change in the dimensions of, or deformation of, a dielectric produced by the action of an electrostatic field

electrosurgical (ē-lek-trō-ser'ji-kal), a. lating or pertaining to the use of electricity in surgery: as, electrosurgical devices.

electrosynthesis (ë-lek-trō-sin' the-sis), n. Chemical synthesis effected by the aid of electrolysis

electrotactic (ē-lek-trō-tak'tik), a. [electro-taxis (-tact-) + -ic.] Of or pertaining to the locomotion of organisms in relation to electric currents; exhibiting electrotaxis.

electrotaxis (ệ-lek-trô-tak'sis), n. [NL., ζ electro- + Gr. τάξις, disposition]. The orientation or the locomotion of organisms or of cells iu relation to electric currents: a phenomenon first observed in vertebrates in the frog's tadpole, in 1885

electrotelethermometer (ē-lek "trō-tel "ē-thermom'e-ter), n. An apparatus consisting of a mercurial thermometer with platinum wires sealed into the glass at the bulb and at different points on the stem. These wires are connected with a switch, an alarm-bell, and a battery in such a manner that, when the mercury expands to a particular point corresponding to the position of the switch, the circuit is closed and the alarm rings. Sci. Amer., Sept. 12, 1903,

electrothanasia (ē-lek "trō-tha-nā' ziā), n. [electro-+ Gr. θάνατος, death.] Death caused by electricity.

electrotherapist (ē-lek-trō-ther'a-pist), n. Same as electrotherapeutist.

electrothermal (ē-lek-trē-thėr'mal), a. Relating to heat produced by electricity.—Electro-thermal detector. See *detector. electrothermic (ē-lek-trō-thèr'mik), a. Same

as *electrothermal. Engineering Mag., June, 1800

electrothermometer (ē-lek"trē-thèr-mom'eter), n. Au instrument for the measurement of temperature by electrical means; an electrical thermometer. electrothermy (ē-lek-trō-ther'mi), n. [electro-

+ Gr. $\theta \epsilon \rho \mu \eta$, heat, + $-y^3$.] The science of the electricity developed by heat. N. E. D.

electricity developed by near. A. E. D. electrotonus, ".— Physical electrotonus, an electrical change, analogous to physiological electrotonus, which takes place in a wire during the passage of an electric current.— Physiological electrotonus, an altered excitability of a nerve brought about as the result of the passage of a constant current, such that at the positive pole the excitability is diminished (region of snelectrotonus), while it is increased at the negative pole (region of catelectrotonus).

electrotropic (ē-lek-trō-trop'ik), a. [electro-+ Gr. $\tau \rho \sigma \pi \kappa \dot{\phi}_{c}$, of turning: see tropic.] Of or pertaining to the growth or bending of an organism under the influence of electricity; exhibiting electrotropism.

electrotropism (ē-lek-trot'rō-pizm), n. [Also by error or ellipsis electropism; $\langle clectrotrop(ic) + -ism. \rangle$ The growth or bending of an organism under the influence of electricity.

sheet of paper, is made usable for printing by the addition of a type-metal backing.

electrotypograph (ē-lek-trē-tī'pē-graf), n. A type-making and type-setting apparatus, invented by Meray-Rozar of Nuremberg, in which some operations are controlled by electricity. Its treasure of the second size of the second s tricity. Its types are cast singly.

The "Electrotypograph"... justifies automatically ... and offers the greatest facility for corrections. ... There are two distinct machines combined in one. One of these is a writing and the other a casting and composing

La Nature, as quoted in Sci. Amer. Sup., Aug. 30, 1902.

electrotypoplate (ĕ-lek-trō-tī'pē-plāt), n. An electrotype plate produced from types made and composed by the electrotypograph. electrovitalism (ē-lek-trō-vī'tal-izm), n. The doctrine of the electrical nature of nervous.

electrozone (ē-lek'trē-zōn), n. [electr(ie) + ezone.] A trade-name for a weak solution of common salt, as, for instance, sea-water, in which by means of an electric current sodium hypechlorite has been formed. It is antiseptic, and has been proposed as a material to be added in small proportion to a public water-supply in order to destroy bacteria or other micro-organisms.

electrum, n. 2. Native argentiferous gold in which the silver amounts to one third or more

which the silver amounts to one third or more. electuary-pot (ē-lek'ţū-ā-ri-pot), n. A vessel designed to hold an elixir or cordial, such as the majoliea drug-pots of Faenza. See alba-

elegante (el-e-gant'), n. [F. élégante, fem. of élégant, elegant.] A lady of fashion.

If my Waverley had been entitled "A Tale of the Times," wouldst thou not . . . have demanded from me a dashing sketch of the fashionable world, . . with a set of subordinate characters from the elegantes of Queen Anne Street East?

Scott, Waverley, i.

elem. An abbreviation of elementary.

eleme (el'ē-mi), n. [Also clemi; < Turk. eleme, elemeh, something sifted or selected.] A kind of Turkish fig: generally used attributively: as, eleme figs, selected figs (that is of superier collision) from Turkish. quality) from Turkey.

quality) from Turkey.

element, n., 1. (d) In math.: (2) any one of the different products of which a determinant is the sum. See determinant, 3. (j) In math., one of the indivisible constituents of a tissue, as a cell or ultimate fiber. (k) In pathol., an individual lesion among several the aggregation of which constitutes the anatomical disease, as a single pustule in the smallpox eruption. Lancet, April 4, 1903, p. 349. (l) In any complex mechanical structure, one of the simpler or irreducible parts: as, the elements of a machine, the elements of a sectional boiler.

3. The common division of the chemical elements, as at

machine, the elements of a sectional boiler.

3. The common division of the chemical elements, as at present known, into metals and non-metals is not based upon any chemical distinction of scientific value, but rather upon a more or less general consideration of physical properties of the elements in an uncombined state; hence the line between the two classes is arbitrarily drawn and is without entire uniformity of usage, certain elements, as arsenic, antimony, bismuth, and tellurium, being by some writers counted as metals, by others as non-metals. The following table furnishes a list of the elements as at present (1909) generally recognized by chemists, omitting those of imperfectly established character. The number is 83. The atomic weights given are those of the last table published by the International Committee on Atomic Weights.

Elements.	Symbols.	Atomic Weight 0 = 16
Aluminium	. A1	27.1
Antimeny	Sb	120.2
Argon	A	39.9
Arsenic		75.0
Barinm	Ba	137.37
Beryllium	. Be	9.1
Bismuth		208.0
Boron,		11.0
Bromine	Br	79.92
Cadmium	Cd	112.40
Cæslum	. Ca	132.81
Calcium	Ca	40.09
Carbon		12.00
Cerium		140.25
Chlorin		35.46
Chromium		52.1
Cobalt		58.97
Columbium		93.5
Copper	Cu	63.57
Dysprosium	Dy	162.5
Erbium	Er	167.4
Europium	Eu	152.0
Fluorin	F	19.0
Gadoliniam	. Gd	157.3
Gainum	, Lis	69.9
Germanium	Ge	72.5
Glueinum	G1	9,1
Gold	Au	197.2
Helium	He	4.0
Hydrogen	H	1.000
Indium	1n	114.8
Iodine		126.92
Iridium		193.1
Iron		55.85
Krypton	Kr	81.8
Lanthanum		139.0
Lead		207.10
Llthium		7.00
Lutecium		174.0
Magnesium		24.32
Manganese		54.93
Mercury		200,6
Molybdenum		96.0
Neodymium	. Nd	144.3
Neon		20.0
Nickel	Ni	58,68
Niebium		93.5
Nitrogen		14.01
0sminm		190.9
Oxygen	. 0	16.00
Palladinm	Pd	106.7
Phospherus		31.0
Platinum		195,0
Potassium	K	39,10
Praseodymium	l'r	140.6.
Radium	Ra	226.4
Rhodium	Rh	102.9

Elements.	Symbols.	Atomic Weights. O = 16.
Rubidium. Ruthenium. Samarium Scandium. Scandium. Selenium. Silicon Silver. Sodium Strontium Sulphur. Tantalum. Tentium. Tentium. Thallium Thallium Thorium. Thorium Thuinm. Tin. Titanium. Tin. Titanium. Tugsten. Uranium. Vanadium Vanadium Vanon Ytterbium (neoytterbium). Yttrium	Rb Ru Sm Se Se Si Ag Na Sr S Ta Trb Th Th Th Th YV V Xe Yb Y	85.45 101.7 150.4 44.1 79.2 28.3 107.82 23.00 87.62 32.07 181.0 127.5 119.0 204.0 232.42 168.5 119.0 48.1 128.0 89.0 65.7
Zirconium	Zr	90.6

Dry element, in elect., a battery element having the exciting fluid absorbed in a porous or spongy mass, as sawdust.—Element of an analytic function. An analytic function is defined by an aggregate of series composed of a primary series and its continuations; the separate as series are called elements of the analytic function, and the primary series is called the primary element.—Ended the primary element.—Ended the primary element, and the primary series is called the primary element.—Ended the primary element, and the primary element, in optics, an annular or zonal element of area upon a wave-front such that the difference of the distances from its outer and inner boundaries to a point, external to the wave, with respect to which the element is taken, is half a wave-length. Also called Huggers's zone. Let ABCD he a portion of the wave-front and op the line from o to the pole of the wave. It expects a series are equal to \$\frac{1}{2}\text{A}\text{, where }\text{\ell}\text{ is the wave-length, the zone included between the closed curves \$x_1\$ and \$x_2\$ is a half-period element. The diagonal constituents or elements from the top left-hand corner.—Natural system of the elements, the arrangement of the chemical elements according to the periodic law, by Mendelejeff and Lothar Meyer. See periodic law, under periodic.—Noble elements, the differentiated cells which constitute the functionating parts of organs, as distinguished from the connective-tissue cells which constitute the framework of the organs.—Null element, one whose addition to any other element a of the manifold yields the same element \$\text{\text{a}}\text{ the fin-supporting elements.}\$—Phonetic element, any distinguishable spoken sound.—Phonetic element, in physiol., an alimentary element which is destined for the formation of new tissue.—Radial elements, in infinitesimal strips perpendicular to an axis.

elementaloid (el-\varphi\text{-men'(ta-riz)}, v. t.; pret. and pp. elementarized, ppr. elementarizing, [elementarized, ppr. elementarizing, [element

elementarize (el-ē-men'ta-rīz), v. t.; pret. and pp. elementarized, ppr. elementarizing. [elementar(y) + -ize.] To confine or restrict (one's teaching) to elementary principles.

The very word passion is becoming obsolete in psychological literature, which on this subject elementarizes, repeats, is pedantic, or affectedly didactic.

G. S. Hall, Adolescence, 11, 59.

elementary, a. 4. Of the nature of an infini-

elementist (el-ē-men'tist), n. One who diseevers er expounds the elements of a subject; specifically [cap.], Euclid, the geometer.

The man and the book are, of course, Euclid and his Elements, but the book so overshadowed the man that not long after his day Euclid was regularly called the Elementist.

W. B. Frankland, Story of Euclid, p. 16.

elemi, n.—Luban elemi. Same as Oriental or African elemi. See elemi.—Mexican elemi, the oleorosin derived from Terebinthus Mexicana and T. Jorullensis. Also called copal blanco and copal de santo. See *copal. elemic (e-lem'ik), a. [elemi + -ie.] Pertaining to or derived from elemi.—Elemic acid, a crystalline acid, C₃₅H₄₆O₄, present in small quantities in elemi.

elenchus, n.—Socratic elenchus, the method of question and answer employed by Socrates in eliciting truth. eleolite, n. See clæolite.

eleonorite (el#e-ō-nō'rīt), n. [Eleonore (see der.) + -ite².] A variety of beraunite, first described from the Eleonore mine near Gies-

sen, Germany.

Elephant boiler, cent. See *boiler, *cent. elephanteer (el'ē-fan-tēr'), n. A mahout or

elephant-driver. elephantiac, a. II. n. A person suffering from elephantiasis,

elephantiasic (el-ē-fan-ti-ā'sik), n. Same as *elephantiac. elephantoid. a. 2. Pertaining to or having

elephantoid, α. 2. Pertaining to or naving the character of elephantiasis.—Elephantoid fever, elevation of temperature and other symptoms marking the onset of elephantiasis.

Elephantomyia (el^πe fan-tō-mi'yä), n. [NL. (Osten Saeken, 1859), < Gr. ἐλέφας (ἐλεφαντ-), elephant, + μυῖα, fly.] An extraordinary genus of timuli flice occuming in North Acrica of tipulid flies, occurring in North America and characterized by an extremely long pro-

Troops mounted on elephants. F. Hall. elephant's-ear, n. 2. In India, Siphonauthus hastata, a Himalayan shrub belonging to the verbena family. The name translates the native name hattee-kana, and refers to the shape of the leaves.—3. In the United States, a common name for the large-leaved Caladium Colocasia, planted for ornameut. elephant-shark (el'ē-fant-shärk), n. Same as

basking-shark. elephant's-tooth (el'ē-fants-töth), n. A toothshell, Dentalium.

elephant's-trunk (el'ē-fants-trungk), n. 1 The unicorn-plant, Martynia Louisiana.—2. The bastard bryony or china-root, Cissus sicyoides.

eleutherarch (e-lū'ther-ārk), n. [Gr. $i\lambda\epsilon i\theta\epsilon\rho\rho\rho_{c}$, free, + $i\rho\chi\phi_{c}$, a chief.] The chief of an imaginary secret society called the 'Eleutheri.' N. E. D.

Do not persevere in writing after you grow weary of your toil; . . . the swans and the *Eleutherarchs* are proofs that you were a little sleepy.

Shelley, in Contemporary Rev., Sept., 1884, p. 387.

eleutherism (e-lū'the-rizm), n. [Gr. ελείθερος, free, + -ism.] The eause of freedom or zeal in promoting it.

Eleutherognathi (e-lū-the-reg'na-thī), n. pl. [NL., Gr. ε΄/είθερος, free, + γνάθος, jaw.] Same as Acanthopteri or Acanthopterygii, a large suborder of fishes, commonly called the spinyrayed fishes.

eleutherorhabdic (e-lū"the-rō-rab'dik), a. [Gr. ἐλείθερος, free, + ράβδος, rod.] Relatively free from union with one another, as the gill-filaments provided with eiliated disks in certain lamelibranchs. See *synaptorhabdic. Lankester, Philos. Trans. Roy. Sec. (Lendon), ser. B, p. 154.

Eleutherozoa (e-lū"the-rō-zō'ā), n. pl. [NL., ⟨ Gr. ἐκεἰθερος, free, + ζῷου, animal.] A grade of echinoderms in which the theca, which may bo only slightly or not at all ealeified, is not attached by any portion of its surface, but is usually placed with the oral surface downward or in the direction of forward locomotion. It includes the Holothuroidea, Stelleroidea, and Echinoidea.

eleutherozoic (e-lū "the-rō-zō'ik), a. Of or

celer electric to the Electric top 2016, and pertaining to 20 is made. See elevate. In astrol., a planet is said to be elevated above another when it is nearer to the meridian. 2. In malh., containing high powers of the unknown or variable: said of an equation.

tesimal element or part.—Elementary integral elevate-reticulate (el'e-vat-re-tik'u-lat), a. Reticulate with elevated lines or carinæ, as the senipturing of the integument of certain coleopterous and hymenopterous insects. *Proc. Zool. Soc. London*, 1901, p. 155.

elevating-block (el'ē-vā-ting-blok"), n. The

sheave or block, in a cable or overhead tram-way system, over which the hoisting-rope passes, and by means of which the load is elevated sufficiently for it then to be conveyed on the eable by the earrier of which the block or sheave is a part.

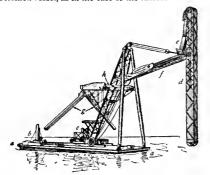
elevation, n. 9. In old music, a grace or embellishment consisting of a short upward run connecting two notes separated by a skip.

-Axis of elevation. See *axis1.

elevator, n. 3. In surg.: (b) An instrument

elevator, n. 3. In surg.: (b) An instrument for extracting the stump of a tooth. (c) Same as repositor,—4. (c) Any form of hoisting-machinery employing an endless belt (composed of link-belt chains, or of leather, rubber, or fabric) which carries buckets, brackets, or trays. Where buckets are used, the material (grain, sand, coal, phosphate, nails, small fish, etc.) is handled in bulk, each bucket being filled at the foot of the elevator and discharging its load at the top. Where brackets, arms, or trays are used, general freight (in packages, rolls, boxes, barrels, etc.) is handled by placing it on the brackets or trays by hand or by some form of feeder, and mhoading it by hand or by sutomatic dumping-or discharging-machines. While all are essentially alike, such

machines differ materially in form and spplication, and are given many different names, according to their construction or the uses to which they are put. They are often combined with conveyers.—Derrick-elevator, an apparatus for lifting grain stored in bulk in a vessel's hold and transferring it to lighters or into the bins of storage-clevators. The elevator proper is borne upon a frame on a flatbottomed vessel, as in the case of the marine derrick used



Derrick- or Grasshopper-Elevator.

a, a, hull of scow or lighter; δ , propelling-engine and steamboiler for ϵ , the elevator operating and adjusting engine; d, the bucket-elevator and its casing; ϵ , chute into which the buckets discharge; f, conveyer delivering to the spouts; f, discharge or loading spouts or chutes fed from f, conveyer receiving from f, and delivering to f.

for placing machinery in vessels. The trusa carrying the elevator has jointed members, so that the elevator can drop down through hatchways in the decks of the vessels to be unloaded. Hence another common name, grasshopper-elevator. Sci. Amer., Jan. 31, 1903, p. 75.—Elevator Eliza, n. See *Long Eliza, n. See *Long Eliza, repositor.

elevator-cage (el'e-va-tor-kaj"), n. The cage or inclosed ear by which passengers and freight are carried in an elevator. In mines, the sides are grated or pretected with bars only.

elevator-cup (el'ē-vā-tor-kup"), n. The metal receptacle attached to the chain or belt of a

bucket elevator: usually called bucket.

elevator-scales (el'eva-tor-skalz"), n. Plat-form-scales for weighing grain as it comes form-scales for weighing grain as it comes from an elevator. Such scales are usually automatic, receiving about 100 bushels as a load, recording the weight, and then emptying the grain into a storage-bin. Two hoppers work alternately, filling and emptying. elevator-shaft (el'ē-vā-tor-shaft"), n. In modern buildings, the inclosed space, of uniform height from top to bottom, in which au elevator-shart work along the production of the storage of the stora

tor-car moves up and down.

tor-car moves up and down.

Eleven rule, in bridge, a mathematical rule invented by R. F. Foster to enable the pone to determine how many cards in the leader's suit are out against him higher than the one led, when this is the fourth best. It is the following: Deduct from eleven the number of spots on the card led, and the remainder is the number of cards in the auth higher than the one led, which the leader does not hold. From the remainder thus found the pone deducts the number he holds himself, snd aces in the dummy, higher than the one led, and this second remainder, if any, is the number the dealer holds. For instance, the 7 is led, dummy lays down Q, 10, 5, and the pone holds A, 8, 6. Deducting the 7, led, from 11, 4 higher than the 7 are left, all of which are in sight, so that the dealer has no card higher than the 7, and the leader must hold K, J, 9, 7. Therefore, if dummy does not cover the 7, the dealer, if he knows the eleven rule, will of course avail himself of it and cover the 7 led with the 10 in dummy's hand, so as to force the pone to play higher and lead up to dummy's guarded queen, if he continues the suit.

elf-cup (elf'kup), n. A small stone perforated

elf-cup (elf'knp), n. A small stone perforated by the action of water at a waterfall.
elf-god (elf'god), n. The elfish god, that is, Cnpid. Tennyson.

Cnpid. Tennyson.

elfic (el'fik), a. [elf + -ic.] Of or pertaining to an elf; proper to an elf.

elfin, n. 3. An American lycænid butterfly of the genus Incisalia.—Banded elfin, a lycænid butterfly Incisalia niphon, occurring throughout the United States and found commonly in open spaces in pine woods. It is brown in color, with the under sides of the wings checkered with brown and white. Its larve live on pine-leaves.—Brown elfin, an American lycænid butterfly, Incisalia angustus, of dark-brown color, inhahiting the northern United States. Its food-plant is unknown.—Hoary elfin, Incisalia irus, a species occurring east of the Mississippi, feeding in the larval state on the fruit of the wild plum.

elfin-tree (el'fin-trē). [Tr. of G. zwerybauments.]

elfin-tree (el'fin-tre). [Tr. of G. zwergbaum (Schimper).] In phytogeog., an alpine type of tree with short, gnarled, often oblique or herizontal stem, and long serpentine branches bent in all directions, occuring mainly in the tropics. A. F. W. Schimper (trans.), Plant-Geog., pp. 704, 705.

tropics. A. F. W. Schimper (trans.), pp. 704, 705.

elfin-wood (el'fin-wud), n. A wood composed of elfin-trees, See *elfin-tree. A. F. W. Schimper (trans.), Plant-Geog., p. 704.

elf-owl (elf'oul), n. A diminutive species of owl, Micropalias whitneyi, found in the southwestern United States.

conditional vibration.

Elliptical vibration.

**coefficient.*

elliwife (el'wif), n. A dialectal variant of alewife.

wife.

elm, n. Of other varieties of elm (comprising some trees more or less closely related to the elm and a few belonging to different families but somewhat resembling elms:

eliasite (ē-li'a-sīt), n. [Elias, name of the mine of origiu, + .ite².] An alteration-product of the pitch-blende of Joachimsthal, Bohemia; a kind of gummite.

Elijah's cup. See *cup. eliminant, n. 2. In med., an agent which stimulates excretion.

Eliminative selection. See *selection. eliminator, n. 2. A combination of a separator for taking the water out of steam and a trap for automatically discharging the water from the collector.

littoral (e-lit'o-ral), a. [L. c, out, + litus, littus (littor-), shore, +-al.] Out from shore; that is, occurring in the sea near shore, at least below high water mark.

She finds that the plant Callymenia phyllophora is elittoral, and occurs in crevices in the rocky caverus where the tidal surge is strong. Only young plants were uncovered by low tides; mature plants were well beyond low tide line. Jour. Roy. Micros. Sac., April, 1905, p. 215.

elixir, n.—Brown-Séquard's elixir, a sterilized teaticular finid used in the treatment of mental and nervous diseases.—McMunn's elixir, a watery solution of opium of the same strength as landanum.

Elizabethan, a. II. n. One who lived during the Elizabethan period; especially a poet, or dramatist of that period.

Elizabethanize (é-liz-a-beth'an-īz), v. t.; pret. and pp. Elizabethanized, ppr. Elizabethanizing. To give an Elizabethan character to; pattern

after the style of the Elizabethan period. elk¹, n. 5. [cap.] A member of a benevolent and fraternal society known as the Benevolent

and Protective Order of Elks, organized in New York in 1868. Its membership is restricted to citizens of the United States.

elk-horn fern. See *fcrn¹.
elk-game (elk'gām), n. A ceremonial game of the Dakota Indians of North America, played with a ring and darts: similar to the hoop-and-pole game.

Elk River series. See *scries. elk-yard (elk'yard), n. A space cleared in the deep snow by the trampling of a small band of elk, within which they live and feed.

band of elk, within which they live and feed. Called, in America, moose-yard. See elk!. ellagitannic (e-laj-i-tan'ik), a. [ellagi(c) + tannic.] Pertaining to gallants and tannin. — Ellagitannic acid an acid substance resembling ellagic and tannic acid, but derived from the tannin of divi-divi and myrobalans rather than from gallants or sumae. Its empirical formula is C₁₄H₁₀O₁₀.

Elliott eye. See *cycl. Elliott's apparatus. See *apparatus.

ellipse, w.—Aberrational ellipse, the little ellipse which a star appears to describe annually on account of the aberration of light. Its major axis is always 41 acconds long and parallel to the ecliptic. Its minor axis varies with the star's latitude, that is, its distance from the ecliptic.—Ellipse of stress, a geometrical construction, devised by Rankine, for finding the atresses at a point within a solid in a state of strain. It is an ellipse whose center is at the given point, whose principal axes are the normals to the planes of principal stress, and whose principal stresses.

ellipsoid, n. 2. In anthrop., a cranium the norma verticalis of which has an ellipsoidal

norma verticalis of which has an ellipseidal form. G. Sergi, Var. of the Human Species, norm. G. Sergi, Var. of the Human Species, p. 27.—Fresnel's ellipseid, an ellipsoid whose semiaxes are taken proportional respectively to the maximum, minimum, and mean values of the light-velocity for a given biaxial crystal. See axes of light-elasticity, under axis1.—Irretational ellipsoid, an ellipsoid an oblate ellipsoid.

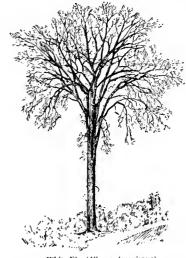
Elm-borer (Dularius brevilineus). (Packard, U. S. D. A.)

Ellipsoidal harmonic, structure. See Lamé's elm-butterfly (elm'but erfli), n. Any one of

Ellipsoidal harmonic, structure. See Lame's function, under function, and *structure.
ellipsone (e-lip'sōn), n. [ellipse + (cycl)one.]
A whirlwind in which the winds describe ellipses instead of circles. Fitz Roy. [Rare.? ellipsonic (e-lip-son'ik), a. Having the shape, motion, or property of an ellipse.
Elliptic spheroid, substitution. See *ellipsoid of revolution, *substitution.
Elliptical vibration. See *ribration.

elm-butterfly

those given below are among the most important.—
American elm. Same as white *elm.—Basket-elm.
Same as *cedar-clm.—Bastard elm, the hackberry, Celtis occidentalis. See hackberry, 2 (with ent).—Broadleaved elm. Same as witch-elm.—Cedar-elm.—See *cedar-clm.—Cork-elm. See *cork-elm.—Cedar-elm. See *cedar-clm.—Cork-elm.—Cedar-elm. See *cedar-clm.—Cork-elm.—Dutch elm, a form of the English elm with corky ridges on the branches: distinguished by some anthora as a species, Ulmus sub-erosa.—Dwarf elm of Siberia. See Ulmus.—Elm bark-beetie, elm flea-beetle, elm leaf-beetle, elm spanworm.—English elm, Ulmus campestris. See elm (with cnt). This tree was extensively planted in some American citics, especially Washington, by the English and Scotch gardeners, who apparently were not aware of the superior claims of indigenous species.—Palse elm. Same as bastard *elm.—Himalayan elm. See Ulmus.—Indian elm, the slippery-elm (which see).—Mountain-elm. (a) The Scotch elm. (b) The wing-elm or winged elm. See wahoo, 3.—Red elm. (a) The slippery-elm, from the red wood, by which it is distinguished from the white elm, snd well known among lumbermen. (b) The winged elm, Ulmus alata, so called in Florida and Arkansas. (c) Ulmus serotina, a tree of limited distribution on limestone hills and river-hanks in southern Kentucky and northern Alabama and Georgia, only recently distinguished from U. fulva, from which it differs in its much smaller fruit, in the absence of mucliage in the inner bark, and in other respects. The wood is reddish in color.—Sweet elm, the slippery-elm, from the rewet aromstic taste and smell of the inner bark.—White elm, Ulmus Americana, the most important of American elms. It aometimes reaches



White Elm (Ulmus Americana).

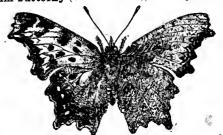
white Elm (Ulmus Americana).

a height of 120 feet and a diameter near the base of 10 feet, with 60 feet or more clear of limbs. The trunk then normally dividea up into a large number of more or less equal branches or subsidiary trunks, which diverge in graceful curves in sil directions, forming an inversely pyramidal or umbrella-shaped top of wide expanse and great beauty, the dense foliage furnishing a perfect shade. The wood is tough and difficult to split, but very durable and of great value in the arts. The tree ranges from Newfoundland to Florida and westward to the base of the Rocky Mountains. Rocky Mountains.

elm-heetle (elm'be"tl), n. 1. The elm bark beetle. See *bark-beetle.—2. A native American beetle, Monocesta coryli, of the family Chrysomelidæ,

feeds on elm-leaves in the more northern of the Southern States. elm-borer (elm'bor" er), n. Any one of several celeopterous insects whose larvæ

insects whose larvæ bore into elm-trees. Among them are the cerambycida Saperda tridentata, S. lateralis, S. vestita, Dryobius sex-maculatus, Dularius brevilineus, Neoclytus erythrocephalus, and N. capræa; the curculionid Magdalis armicollis; the buprestid Anthaxia viridicornis; and the scolytid Hylesinus opaculus.



Elm-butterfly (Polygonia progne). Natural size (Packard, U. S. D. A.)

several nymphalid butterflies whose larvæ feed on elm-leaves, as Euvanessa antiopa, Polygonia interrogationis, P. faunus, and P. progne.

elm-gall (elm'gâl), n. A gall upon the leaves of the elm.—Cockscomb elm-gall, a gall resembling in shape a miniature cockscomb, made on the leaves of elm by an aphidid, Colopha ulmicola.

elm-grass (elm'gras), n. See *grass. elm-moth (elm'môth), n. Any one of several species of moths whose larvæ feed on elm-leaves, notably Paleaerita vernata, known in the larval state as the spring canker-worm.

elm-scale (elm'skāl), n. An American diaspine

scale-insect, Chionaspis americana.

Elohimic (el-ō-him'ik), a. [Elohim + -ic.] Characterized by the use of the Hebrew word Elohim, 'God,' instead of 'Jahveh,' or 'Jahwè,' the proper name of God; Elohistie: applied to certain passages in the Hebrew scriptures: as, the Elohimic psalms; the Elohimic portions of Genesis; Elohimic doenments.

eloiner (ē-loi'ner), n. One who eloins; one who eauses an eloinment; for example, one who removes chattels so that they cannot be replevied.

E. lon. An abbreviation of east longitude. #elasticity. — Elasticity of elongation. See **elasticity. — Elongation strain. See **etrain! — Percentage of elongation. See **elongation **strain.

elongato-conical (ē-long-gā'tō-kon'i-kal), a. Shaped like an elongated cone.

elongato-ovate (ē-long-gā'tō-ō'vāt), a. Shaped like an elongated egg.

elvante. el which somewhat resembles a small ear of corn. See eut under squawroot.

elpasolite (el-pa'so-lit), n. [El Paso, a county in Colorado, + -lite for Gr. λίθος, stone.] A finoride of aluminium, potassium, and sodium, perhaps analogous to ervolite in composition:

found in El Paso county, Colorado.

Elpidia (el-pid'i-ā), n. [NL. (Théel, 1876).] The typical genus of the family Elpidiidæ. Elpidiidæ (el-

pi-dī'i-dē), n. m pl. [NL., < Elpidia + -idæ.] A family of deepsea holothurians of the or-

ans of the order Actinopoda. They have the body generally flattened ventrally, mouth more or less ventral, tentacles from 10 to 20, stone-canal single, respiratory trees absent or rudimentary, calcareous ring of 5 or 10 pieces, and the spicules of various shapes. The family contains about 20 genera, of which Elpidia is the typical one.

Ventral View of Elpidia glacialis, Th. a, anus; m, mouth; p, tube-foot; t, tentacle. (From Lankester's "Zoolngy.")

elpidite (el'pi-dit), n. [Gr. $\dot{\epsilon}\lambda\pi i c$ ($\dot{\epsilon}\lambda\pi i c$ -), hope, + - ite^2 .] A silicate of zirconium and sodium occurring in from white to brick-red masses, rarely in orthorhombic crystals: found in

sonthern Greenland.

softnern Greenland.

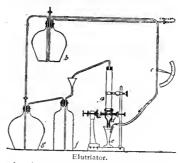
eltrot (el'trot), n. [Also altrot, heltrot, hilltrot, hilltrot, eldertrot, eldroot, eldrop, etc.; a not understood compound of E. dial. elt, yelt. var. of gilt, AS. gilte, a young sow, + rootl.]

1. The cow-parsnip.—2. The water-parsley.—3. The wild or eow parsley.—4. The wild earrot.—5. A stalk of certain plants, especially the wild parsley. [Prov. Eng. in all nacs.] uses.]

elntor (ē-lū'tor), n. [NL. *elutor, < L. eluere, wash out, < e, out, + -luere, lavare, wash: see lava.] A vessel in which tribasic calcium suerate, produced by the addition of lime to beet-root molasses, is washed with dilute aleohel in order to free it from impurities before it is decomposed by earbon dioxid and crystallizable sugar thereby recovered from it.

elutriator (ë-lū'tri-ā-tor), n. [NL. "elutriator, \(\) L. elutriator, wash out, rack off, \(\) eluere, wash out: see *elutor.] An apparatus for the analysis of finely divided solids, such as soils, by means of which the particles of different size and weight are senarated from each other size and weight are separated from each other by falling through water or a current of water. See cut in middle column.

eluvial (ệ-lū'vi-al), a. [eluvium + -all.] Of the nature of eluvium; formed by wind-drift or atmospheric weathering: as, eluvial accu-mulations. Nature, XXIII. 225.



a, container for sample: b and br, reservoirs for water; ϵ , stopcock to control flow of water; d, agitator; ϵ , receptacle for coarse particles; f, settling-vessel for fine particles.

eluvium (ē-lū'vi-um), n. [NL. *elurium, parallel to L. eluvio(n-), a washing away, < eluere, wash out: see *elutor. Cf. alluvium.] In gcol., an accumulation of dust and soil produced by decomposition of rocks in situ, or drifted by winds.

For atmospheric accumulations of this nature [loess] Trautschold has proposed the name eluvium. They originate in sith, or at least only by wind-drift, whereas alluvium requires the operation of water, and consists of materials brought from a greater or less distance.

Geikie, Text-book of Geol., p. 322.

elvanitic (el-va-nit'ik), a. [elranite + -ie.] Containing, resembling, or characterized by elvanite.

plicated method of painting, invented by Armand-Vincent de Montpetit in the eighteenth eentury, supposed to combine the effects of oil- and water-color.

elytriferous (el-i-trif'e-rus), a. + L. ferre, bear.] Bearing an elytrum: as, an elytriferous segment of certain polychætes.

trum, as in some polychætes. elytrous (el'i-trus), a. Resembling or suggesting the elytra of a beetle.

Elz. An abbreviation of Elzevir. Elzeviran, n. II. a. Noting a style of book-making practised by the Elzevir family. See Elzevir editions, under Elzevir.

E. M. An abbreviation (a) of Engineer of Mines;

(b) of the Latin equitum magister, master of the horse.

ema-fiber (ā'mā-fi*ber), n. The fiber of the kendir, Apocynum venetum. See *kendir.

emailloid (e-māl'oid), n. [F. *émailloide, < émail, enamel, + -oide, E. -oid.] A tumor which arises from the enamel of a tooth.

émail, enamel, + -oide, E. -oide.] A tumor which arises from the enamel of a tooth.

emajagua (ā-mā-hā'gwā), n. [Porto Rico.]
Same as *majagua, 2.

emanation, n. 5. Specifically, in radioactivity, an unstable gaseous disintegration-product spontaneously produced from a radioactive spontaneously produced from a radioactive substance. The radioactive elements thus far known to give off an emanation are thorium, radium, and actinium. The emanations are hert gases resembling in their chemical relations the gases of the argon group, but differing from these and from all other known chemical compounds in the fact that they are produced as disintegration-products continuously at a rate which is independent of the temperature and the chemical and physical state of the compounds from which they are formed and which are converted spontaneously into other and non-volatile disintegration-products at a constant rate. The existence of an emanation, which is produced only in very small quantities, is detected by means of its radioactive effects. The rate at which it is produced and at which it disappears by disintegration is determined from the change in the intensity of these effects, and it is by such observations that the emanations of radium, thorium, and actinium are distinguished from one another. The radium emanation differs from the others in that it is the first disintegration-product of that element, whereas with thorium and actinium the enamation in the ease of the former is the fifth, and in the case of the latter the third, disintegration-product to be produced. These three emanations differ greatly in the degree of Instability which they exhibit. The rate of decay (which measures the rate at which the radium emanation is converted into the next following and non-volatile disintegration-product) is comparatively slow, about 3.7 days being required to reduce its activity to one half; whereas the thorium emanation suifers the corresponding reduction in about one minute, and the actinium emanation in 59 seconds.

The properties of the emantions, which are in the main similar, have been most completely studied in the case of radium emanation. Its chemical inertness is shown by the fact that it will pass through tubes containing reagents which absorb all gases except those of the argon family, that it is unaffected by the electric spark in an atmosphere of oxygen, and that it may be kept in contact with incandescent magnesium or calcium for hours without loss. Both radium emanation and thorium emanation are capable of condensation at low temperatures, the point of injucratetion of the thorium emanation being 120°C. All that of the radium emanation —150°C. All three emanations are radioactive; wing off a-rays, and they possess the property of imparting temporary radioactivity to all substances with which they come in contact. This imparted radioactivity is of the same character, whatever the nature of the substance affected. The imparted radioactivity, or excited radioactivity, is ascribed to the formation, on the surface of the body made active, of a solid disintegration-product; and it has been found possible to remove this product by rubbing the surface with sandpaper, and to transfer the activity to the latter. The radioactive matter can also be dissolved by certain acids. However, it is not destroyed, but reappears on the substance in the substance of the dish after the acid has been evaporated. Thus, it appears that a film of radioactive matter is deposite unconstance with which the emanation. A series of changes of this sort has been traced, and the motact, and that this sective deposit consists of a series of changes of this sort has been traced, and the contact and that this sective deposit consists of a series of changes of this sort has been traced, and the motact and that this sective deposit consists of a series of changes of this sort has been traced, and the first of the substance. They are soluble in strong acids, and separated with the contact and the first of the series is known as the pracent substance.

The letter of the parapodial ridge bearing an elytrum: as, an elytriferous segment of certain polychetes.

elytrodema (el*i-trō-de*mā), n.; pl. elytrodemata (-ma-tā). [NL.] Edema of the submucous tissues of the vagina.

elytroncus (el-i-tron*kus), n.; pl. elytronci(-sī). [NL., ⟨ Gr. ἐνετρον, a sheath (vagina), + ὁγκος, a mass.] A tumor of the vagina.

elytrophore (el*i-trō-fōr), n. [Gr. ἐνετρον, a sheath, + -φορος, ⟨ φέρειν, bear.] A special part of the parapodial ridge bearing an elytrum, as in some polychætes.

emanium (e-mā'ni-um), n. [NL., irreg. (L. emanare, emanate.] A radioactive substance separated from pitchblende by Giesel. It was at first believed to be a distinct element, but was afterward shown to be identical with the actinium of Debierne (see *actinium, 2).

emarginate, r. t. 2. [An erroneous use of the word, as if 'to bring out the margin' (into view). The proper word would be "demarginate, parallel to delimitate, etc.] To render visible or conspieuous the boundary or margin of (compthing), specifically to bring out of (something); specifically, to bring out clearly the outlines of (objects under the mieroseope) by adjustment of the foeus and lighting.

emasculate, v. t. 4. In plant-breeding, to remove the anthers from a hermaphrodite flower in order to prevent self-fertilization. In case of monœcious plants, as Indian corn, the whole male inflorescence is removed. See *detasselina.

emasculative (ē-mas'kū-lā-tiv), a.

or serving to emasculate (in any sense).

emaux ombrants (ā - mō ' zōn bron'). [F., 'shading enamels.'] In pottery and tilc-making, enamels in which the design is modeled in intaglio and tinted glaze is poured in to a level with the surface. The different thicknesses of glaze produce the lights and shades of a picture, on the principle of lithophanes.

embarcadero (em-bär-kä-dã'rō), n.

embarcadero (em-bar-ka-da ro), n. [Sp., sembarcar, embark.] A wharf; a quay. [Spanish America and Philippine Is.]

Embayed mountain. See *mountain.

embedment (eur-bed ment), n. [embed + -ment.] 1. The act of embedding or the state of being embedded or firmly fixed in some surrounding mass.—2. The mason work, clay, consent or the libe in which conventioning. cement, or the like, in which something is or is to be embedded.

embelic (em-bel'ik), a. [Embelia + -ie.] ting an acid, an orange-colored crystalline principle, $C_9H_{14}O_2$ or $C_{18}H_{28}O_4$, obtained from the dark-red fruit of *Embelia Ribes*: said to be anthelmintic.

embira (em-bē'rä), n. [Tnpi embira, bark, embryoferous (em-bri-of'e-rus), a. [Gr. bast.] A name in Brazil of a number of trees εμβρνον, embryo, + L.-fer, bearing, < ferre, which yield bast-fiber, especially of Xylopia bear.] Inclosing or producing an embryo. which yield bast-fiber, especially of Nylopia frulescens and X. sericea. The name embira branea (white bast) is applied to X. grandiflora and Daphnopsis Brasiliensis and embira massi to Bombax pubescens, the

fiber of which is strong and resembles jute in color. emblematology (em-blem-a-tol'o-ji), n. εμβέημα(τ-), emblem, + -λογία, < λέγειν, speak.] The science of emblems; the study of the

origin and significance of emblems.

emblemist (em'blem-ist), n. [emblem + -ist.] A writer or inventor of emblems: as, "Quarles

A writer or inventor of emblems: as, "Quarles the Emblemist," Southey, Doctor, I. xlviii. embody, v. t. 3. To paint with body or solidity. See impasto. emboîtement, n. 2. In anat., the fitting of one bone, or assemblage of bones, into another, as a box fits within its cover. N. E. D. [Rare.] embole (em'hō-lē), n. [NL., \langle Gr. è\mu\]o\(\delta\eta\), insertion.] Same as emboly. embolism, n.—Air embolism, obstruction to the passer.

settion." same as the modism, obstruction to the passage of blood by the froth which results from the entrance of air into the circulation.—Bacillary embolism, obstruction in a small blood-vessel caused by an aggregation of micro-organisms.—Fat embolism, obstruction in a blood-vessel caused by fat-globules, a condition sometimes observed in cases of fracture of a long bone.

embolo (em-bō/lō), n. [Aboriginal name, southwest Africa.] The bluish, fleshy, edible fruit of Euclea Pseudebenus, a shrub or small tree of southwest Africa yielding the Orange

River ebony. See *Euclea, 2. embolus, n. 4. The terminal portion of the digital joint of the palpus of a male spider, containing an orifice near the tip through which the seminal fluid is collected and later ejected.

Palpus. . . . The embolus of the bulb has a stout erect sparspringing from the cavity below the apex of the lamina of the bulb, while the embolus itself is short, strongly curved, and conspicuously flanged on each side.

Proc. Zool. Soc. London, 1903, I. 161.

Embossed printing. See *printing.

embossing-machine, n. 4. A machine which stamps a figure or design on leather, such as alligator or seal, as it passes under or through the steel plates or rollers on which the figure or design has been cut.

embossing-press, n. 2. A press which has dies for embossing coins, jewelry, and silverware. The upper die is fixed to the top of the frame, and the lower die, carrying the blank, is moved upward against it nuder heavy pressure.

embouchement (on-bösh-mon'), n. [F., < em-

boucher, open into another body: see embouehure.] The opening of one vessel into another: as, the embouchement of the cloaca.
embouchure, n. 3. In vocalization: (a) The
position of the vocal organs in forming a tone.

(b) The particular character of the tone itself,
correctly at its beginning. Occasionally the

especially at its beginning. Occasionally the term is further defined as palatal, dental, etc., according to the apparent position of the center of resonance.

embouchure-tube (on-bö-shür'tūb), n. The cavities of the pharyox and mouth collec-

tively, when used in vocalization.

embowerment (em-bou'er-ment), n. [embower +-ment.] The act of embowering or of placing within a bower: as, the embowerment of Mrs. Pipehin. Dickens, Dombey and Son.

embrasure (em-brā'zūr), v. t.; pret. and pp. embrasured, ppr. embrasuring. [embrasure, n.] To furnish with embrasures, as a wall or

fort: used chiefly in the past participle.

embreastment (em-brest ment), n. [em-+breast+-ment.] A breast-like swelling on the surface of the ground. Coleridge. N. E. D. embrittle (em-brit'l), v. t., pret. and pp. em-brittled, ppr. embrittling. [em- + brittle.] To make brittle, or liable to break under sudden load or shock. This result will follow any cause which raises the elastic limit relatively to the ultimate resistance of the material, or which lowers its ductility. Hardening of steel in the tempering process does this.

Sudden cooling hardens and embrittles steel and cast ron. Encyc. Brit., XXIX. 574.

embrocado, n. 2. A brocaded fabric of gold, silver, and silk.

embryectomy (em-bri-ek 'tō-mi), n. [Gr. εμβρυον, embryo, + εκτομή, excision.] Removal of the embryo by an operation, in cases of extra-uterine pregnancy.

embryo, n.—Hexcanth embryo, a tapeworm embryo having six chitinoid hooks by which it bores its way through the wall of the alimentary canal of its host to enter the body cavity or to become encysted in the voluntary muscles.

embryoctonic (em/bri-ok-ton'ik), a. ing to embryoctony; destructive to the fetus in the uterns.

embryogenesis (em^{*}bri-ō-jen'e-sis), n. [NL., ζ Gr. ἐμβρου, embryo, + γένεσις, generation.] The generation of embryos, or development from embryos; embryogeny; the subject-matter of the science of embryology.

embryogenetic (em/bri-ō-jē-net'ik), a. Of or pertaining to embryogenesis. embryographer (em-bri-og'ra-fér),

who is versed in the science of embryography or embryology; an embryologist.

embryol. An abbreviation of embryology.

embryol. An abbreviation of embryology.

embryology, n.—Experimental embryology, the study of the development of eggs and embryos under artificial conditions. Among the many remarkable discoveries made by experimental methods in embryology are the following: that some unfertilized eggs may be made to develop in a normal or nearly normal way by treatment with certain inorganic substances; that perfect but diminitive embryos may be produced from the separated cells of an organism during its early stages of development; that a small nucleate fragment of an unfertilized egg may be fertilized and give rise to a diminutive embryo; and that the constituent cells of certain embryos may be shifted around with reference to one another without affecting the future history of development. the future history of development.

embryoma (em-bri-ō'mā), n.; pl. embryomata (-ma-tā). [NL., \langle Gr. $\dot{\epsilon}\mu\beta\rho\nu\sigma\nu$, embryo, + -oma.] A tumor composed wholly or in part of fetal tissues or structures.

Embryonic shield, variation. See *shield,

embryonoid (em'bri-on-oid), a. [embryon + -oid.] Resembling an embryo in form or structure.

embryopathology (em*bri-ō-pā-thol'ō-ji), n. [Gr. $\epsilon\mu\beta\rho\nu\sigma\nu$, embryo, + E. pathology.] The study of abnormal embryos or of pathological conditions traceable to defective development. embryophore (em'bri-ō-fōr), n. [Gr. $\epsilon^{\mu}\mu\beta\rho\nu\nu\nu$, embryo, + - $\phi o\rho o c$, < $\phi \dot{\epsilon} \rho \epsilon \nu \nu$, bear.] A cellular envelop inclosing the six-hooked oncosphere, A cellular or tapeworm embryo.

Embryophyta (em-bri-of'i-tä), n. pl. [NL. (Engler, 1892): see *embryophyte.] A great division of the vegetable kingdom, including all plants which possess an embryo proper, these being also the only ones which have vascullar tissues. It is therefore the equivalent of the vascular plants of other authors. The Embryophyta are subdivided by Engler into the Embryophyta asiphonogana and the Embryophyta siphonogana, the former of which is the same as the *Archegoniatæ, recognized by him as synonymous, while the latter is the same as the Phanerogamia or Spermatophyta.

embryophyte (em'bri-ō-fit), n. [NL. embryophytum, \langle Gr. $\dot{\epsilon}\mu\beta\rho\nu\nu\nu$, embryo, + $\phi\nu\tau\delta\nu$, a plant.] A plant generated by means of an embryo; a plant belonging to the group Embryophyta.

embryothlasis (em-bri-oth'la-sis), n. [Gr. $\xi \mu \beta \rho \nu \sigma \nu$, embryo, $+ \theta \lambda \acute{a} \sigma \wp$, break, $\langle \theta \lambda \ddot{a} \nu$, break.] In surg., the operation of breaking the bones of the fetus, in eases of difficult labor, to facilitate its removal.

embryothlast (em'bri-ō-thlast), n. Same as

embryothlasta.

embryotome (em'bri-ō-tōm), n. [Gr. εμβρυου, embryo, + -τομος, < ταμεῖν, cut.] An instrument for dismembering the fetus in embryotomy.

embryotroph (em'bri-ō-trof), n. [Gr. ἐμβρυου, embryo, + -τροφος, ζ τρέφειν, nourish.] In embryol., that which nourishes the embryo; the embryo. + food-yolk or deutoplasm.

embryotrophy (em-bri-ot'rō-fi), n. [Gr. εμ-βρυον, embryo, fetns, + -τροφια, < τρέφειν, nour-ish.] The nutrition or nourishment of the embryo.

embryulcia (em-bri-ul'si-ä), n. [NL., ζ Gr. Emilian, a. II. n. An inhabitant of the prov-ξμβρουολκία, ζ ξμβρουολκός, an obstetric forceps; ince of Emilia, Italy. see *cmbryulcus.] In surg. instrumental exsee *embryuleus.] In surg., instrumental extraction of the fetus.

embryulcus (em-bri-ul'kus), n.; pl. embryulei (-si). [NL., \(\lambda\) Gr. εμβρυουλκός, an obstetric forceps, \(\lambda\) εμβρυου, embryo, + ελκειν, draw.] A hook-shaped instrument used in the forcible extraction of the fetus.

Embryx (em'briks), n. [NL., (†) irreg. \langle Gr. $e\mu\beta\rho\nu\kappa\epsilon\nu$, bite at, bite.] A genus of deep-sea fishes of the North Paeific, belonging to the

family of Zoarcidæ.

emendate (ē-men'dāt), v. t.; pret. and pp.

emendated, ppr. emendating. [L. emendare (pp.

-atus), emend: see emend.] To remove errors and corrupt readings from (a text).

First, then, he compared, emendated, and transcribed the text of Scripturc.

J. H. Newman, Hist. Sketebes, III. v. 5.

ferre, for the rich green variety of tournalin found in Brazil. See tournalin.—Ecclesiastical emerald. Same as Brazilian **emerald.

emergence, n.—Grazing emergence, in optics, emergence of a ray of light from within a refractive medium in a direction such that the angle of refraction is nearly 90° and the ray, after leaving the denser medium, travels nearly parallel to the interface.—Path of emergence, in geol., the path followed by the undulations of an earthquake from the focus to the point of emergence.

Emergency brake. See *brake3.

n. One emerse (ê-mers'), v. t.; pret. and pp. emersed, ryography ppr. emersing. [L. emersus, pp. of emergere, emerge: see emerge.] To rise, or cause to rise, from a liquid: opposed to immerse.

The following rules express, with a considerable amount of accuracy, the number of tons required to immerse or emerse the ship one inch when floating at her load-draught.

White, Manual of Naval Arch., p. 7.

emersion, n.—wedge of emersion. See *wedge! emery (em'e-ri), v. t.; pret. and pp. emeried, ppr. emerying. [emery, n.] 1. To coat or cover with emery, as in making emery-cloth, emerypaper, or the like.—2. To rub or polish with emery or with emery-paper, emery-cloth, etc. emerylite (em'e-ri-lit), n. [emery + Gr. λίθος, stone.] In mineral., a silicate of calcium and aluminium better known as margarite (which see).

emery-surfacer (em'e-ri-ser"fā-ser), n. A surface-grinder; a machine in which a broad, solid emery-wheel is employed to finish a flat

surface. The work to be surfaced is fastened to a sliding table guided to move on a true plane surface, and passed underneath the revolving wheel.

emetatrophia (em"e-ta-tro fi-ā), n. [NL., ζ Gr. ἔμετος, vomiting, + -τροφία, ζ τρέφειν, nourish.] Wasting of the body resulting from the

persistent vomiting of food.

emetic-root (ē-met'ik-röt), n. The flowe spurge, Euphorbia corollata. See spurge² The flowering emetocatharsis (em#e-tō-ka-thar'sis), n. [NL.,

Combined vomiting, + κάθαρσις, purging.]
Combined vomiting and purging.
emetomorphine (em/e-tō-mor/fin), n. [Gr. ε̂μετος, vomiting, + E. morphine.] Same as grounderships.

apomorphine.

E. M. F. - Contact E. M. F. See contact **electro-motive force. emfasis, emfasize, emfatic. Simplified spell-

ings of emphasis, etc. emigrant, n. 2. In biol., one of a generation

of parthenogenetic insects which migrate from the plant upon which they were born to a plant of another kind upon which they multiply.

A winged parthenogenetic generation frequently appears, and then may migrate to a different plant there to reproduce itself, and in a later generation return to the original host. . . . These generations have been distinguished . . . as emigrants, alienocolæ, and remigrants.

Proc. Amer. Philos. Soc., 1903, p. 297.

emigrationist (em-i-grā'shon-ist), n. [emi-gration + -ist.] One who favors or advocates emigration—for example, as a remedy for dull times, overcrowding, or the like.

emigratory (em'i-gra-tō-ri), a. Migratory. [Rare.]

Emilia (ē-mil'i-ä), n. [NL. (Cassini, 1817), appar. from a personal name.] A genus of plants of the family Asteraceæ, allied to Senecio, but with simple involuere, no ray-Seneral, but with simple involucie, no ray-florets, and achenia with 5 acute ciliate angles. They are natives of Africa, tropical Asia, and Oceanica. They are of general interest only from the tassel-flower or lady's paint-brush, an old-fashioned garden annual known under a number of botanical names, being referred to both Senecio and Cacalia, but now distinguished as Emilia sagitata. It is an attractive plant of easy culture, bearing small scarlet or sometimes golden-yellow heads.

eminent, a. 5. In mineral., highly perfect: said of cleavage.

emission, n—Coefficient of emission. See \star coefficient.—Emission spectrum. See \star spectrum.—Selective emission, emission of light confined to certain regions of the spectrum; selective radiation.

emission-band (ē-mish'on-band), n. In optics, a band of light, or of infra-red or ultra-violet radiation, occupying a limited region of the spectrum. Emission-bands are distinguished from bright lines in the spectrum by the fact

that they are not monochromatic. emission-line (ē-mish'on-līn), n. One of the bright lines in the spectrum of an element:

opposed to absorption-line.

emissivity, n. Specifically—2. A physical constant by means of which the power of radiation of a body is quantitatively expressed. It

is the quantity of heat emitted per second by a square centimeter of the surface of the body when the difference of temperature between the body and its surroundings is one degree centigrade. Emissivity is frequently used as the equivalent of emissive power or coefficient of emission, which is the radiating power of the body as compared with that of an ideal black body at the same temperature.

emmensite (em'en-zit), n. [Emmens (see def.) A name given by Dr. Emmens of New York to a class of explosives proposed by him. The chief varieties were No. 35, for blasting, consisting of pieric acid with sodium and annonium nitrates; No. 259, for military and naval use, consisting of the same ingredients and dinitrobenzene; and No. 5, proposed as a substitute for gunpowder, consisting of pieric acid, sodium nitrate, and charcoal or flour.

emmer (em'er), n. [G. emmer, a dial. form of emmer (em'er), n. [G. emmer, a dial, form of amer: see amei-corn.] A species of wheat, Triticum dicocoum; amel-corn. Though commonly known as Russian spelt, it differs markedly from true spelt, having the heads much fiattened and very compact, the spikelets in two rows, almost always hearded, and usually two-seeded, and being much more hardy. It is produced in some quantity in Russia and several European countries, but the grain is used rather for grits, porridge, etc., than for bread. Varieties have recently been experimentally introduced into the United States. See amel-corn and gommer.

emoloa (ã-mō-lō'ā), n. [Hawaiian *emoloa.] A grass, Eragrostis variabilis, indigenous to the Hawaiian Islands. It grows in tutts from one to three feet high, and is distinguished from all other Hawaiian grasses by the roughness of its rachis and branches of the paniele. Also called halamato.

emolumentary (ē-mol-ū-men'tā-ri), a. [emolument + -aryl.] Productive of emolument or profit; financially advantageous.

emotion, n.—Asthenic emotion, in psychol., weakening, depressing, paralyzing emotion: thus, fear and anxiety are asthenic emotions. The distinction between sthenic and asthenic emotions is due to Kant.—Sthenic emotion, in psychol., emotion which is accompanied by heightened muscular innervation and the corresponding feelings of power or scrivity, such as joy or anger: op-posed to asthenic emotion.

Emotional memory. Same as *affective mem-

emotionalize (ē-mō'shon-al-īz), v. t.; pret. and pp. emotionalized, ppr. emotionalizing. To render emotional; infect with emotional exeitement; regard as a mere matter of emo-

A pious family, where religion was not emotionalized. Froude, Carlyle, I. v.

emperor, n. 4. [cap.] The trade-name of a standard quality of fine English drawing-paper made in sheets 72 by 48 inches.—Goatweed emperor, a nymphalid butterfly, Anea andria, whose lavra feeds on the goatweed: found in the western United feeds on the goatweed: found in the western United feeds on the goatweed found in the western United feeds on the goatweed found in the western United feeds on the goatweed found in the western United feeds on the goatweed found in the western United feeds on the goatweed found in the western United feeds on the goatweet found in the feeds on the goatweet found in the feeds on the goatweet found in the feeds on the goatweet feeds on the goa made in sheets 72 by 48 inches.—Goatweed emperor, a nymphalid butterfly, Anea andria, whose larva feeds on the goatweed: found in the western United States from Illinois to Texas.—Gray emperor, a nymphalid butterfly, Chlorippe celtis, whose larva feeds on hackberry.

empetraceous (em-pe-trā'shius), a. Belong-

ing to the plant-family *Empetraceæ*. **Empetrichthys** (em-pe-trik'this), n. [$\langle Gr. \dot{\epsilon}\nu$, in, $+\pi\dot{\epsilon}\tau\rho a$, rock, $+i\chi\theta\dot{\nu}c$, fish. [NL., The



Death Valley Fish (Empetrichthys merriami, Gilbert).

name alludes to the large pharyngeal bones.] A genus of pæeilioid fishes remarkable for the great size of the pharyngeal bones and teeth. E. merriami is found in the desert springs of Death Valley, California.

emphraxis (em-frak'sis), n. [NL., < Gr. εμφράσειν, shut up, < εν, in, + φράσσειν, fenee in, shut up.] Obstruction of a canal or duct by some morbid product.

emphysema, n.- Subcutaneous or surgical emphysema. Same as interstitial emphysema. empided (em'pi-did), n. and a. I. n. A member of the family Empididæ.

II. a. Of or belonging to the dipterons fam-

ily Empididæ.

Empiric function. See *function.

empiricistic (em-pir-i-sis'tik), a. [empiricist + -ic.] Same as empiristic.

An empiricistic psychology [of Bernardino Telesio], the singular completeness and consistency of which accounts for its wide influence on Italian philosophy.

Jour. Philos., Psychol. and Sci. Methods, May 26, 1904,

empirico-psychological (em-pir/i-kō-sī-kōloj'i-kal), a. Pertaining to or characteristic of empirical, as distinguished from speculative or philosophical, psychology.

The principle of psycholphysical parallelism has an emirico-psychological significance, and is thus totally different from certain metaphysical principles that have sometimes been designated by the same name.

W undt (trans.), Outlines of Psychol., p. 318.

empiriocritical (em-pir/i-ō-krit'i-kal), a. Of or pertaining to empiriocriticism.

empiriocriticism (em-pir"i-ō-krit'i-sizm), n. [Gr. ἐμπειρία, experience, + NL. criticismus, criticism.] The system of philosophy of Richard Avenarius (1843-96), founded on pure experience, that is, natural experience conceptperience, that is, natural experience concept-ually amplified, clarified, and completed. The only assumption of the system not given in experience is supposed to be that the motions of our fellow-men have the same interpretation as our own. This is one of the most important philosophical developments of the latter half of the nineteenth century, but is understood by few, owing to the difficulty of its author's principal treatise and his employment of a novel terminology, which is in-sufficiently explained.

sufficiently expanses.

Empirio-criticism... is the hypothesis of the inseparability of subject and object, or of ego and environment, in purely empirical, or a posteriori form.

Encyc. Brit., XXX. 668.

sufficiently explained.

emplastrum (em-plas'trum), n.; pl. emplastra (-trä). [L., ζ Gr. έμπλαστρον, plaster.] Same as plaster, 1.

empleomania (em-plā/o-mä-nē/ä), n. (empleo, employ, + mania, mania.] A mania for public employment; a thirst for public office and its opportunities for personal enrichment.

The empleomania, which is the dry-rot of Spain, as it threatens to become of the United States, supplies every leader with a momentarily devoted band of adherents.

Lovell, in The Century, Nov., 1898, p. 144.

empress, n.—Red empress, an old English collectors' name for Vanessa polychloros, more commonly known as the large tortoise-shell.

emprosthotonic (em - pros - thō - ton ' ik), a. [emprosthotonos + -ic.] Characterized by the tonic muscular spasm known as emprosthot-

warranty takes it at his own risk.

empyema, n.—Mastoid empyema, suppurative infamination of the nuconsmembrane which lines the cavities in the mastoid process.

Empyreal air. See *air I.

Emscherian (em-shē'ri-an), n. [G. Emscher,
or Emsche, a small river in west Prussia.] In
accolorativiscion of the Consideration geol., a division of the Senonian in western Europe, comprising the two Cretaceous substages, Coniacian and Santonian. It is preceded by the Turonian (Angoumian substage) and followed by the Campanian. In the Anglo-Parisian Basin it is characterized by Microster contestuding view (Coniacian) and the Campanian. In the Anglo-Parisian Basin it is characterized by Micraster cor-testudinarium (Conlacian) and

M. cor-anguinum (Santonian), and in southern France by Hipparites.

emu!, n., 2. (d) A name erroneously applied to the rhea, or Sonth American ostrich.

emu-apple (ē'mū-ap"l), n. A name of two Australian trees and their fruits: (a) Rancoping eightly (Corenia geolulus of F. von Musiller). ria acidula (Owenia acidula of F. von Mueller), belonging to the mahogany family, with fruits the size of a small peach, which are eaten by the colonists and aboriginals. (b) Same as

*bitter-bark, 1.
emu-bush (ē'mū-bush), n. A name of two
Australian shrubs or small trees, Stenochilus longifolius, of the family Myoporaeeæ, and Heterodendrum oleæfolium, of the soapberry family, whose leaves are greedily eaten by sheep, affording food when grass and other herbage are killed by drought and heat. Called also emu-

emulsifier (ē-mul'si-fi-èr), n. An agent, such as gum arabic, employed to effect the emulsification of a fixed oil.

ily Empiris style, a name applied, in the history of French decorative art, to the types developed during the supremacy of Napoleon L, especially by the Imperial architects Percier and Fontaine. Interesting examples of the empire style are illustrated in Percier and Fontaines "Recneil des Décorations Intérieures" (Paris, 1801). The empire style is contemporaneous with the classical school of Jacques Louis David. See French schools of *painting.

— The New Empire, the great bistorical period inaugurated in ancient Egypt on the expulsion of the lyksos or Shepherd Kings by Aahmes (Amasis), the founder of the eighteenth dynasty about 1700 B. C.

Empiric style, a name applied, in the history of French advised in the supremacy of French and the supremacy of the classical school of Jacques Louis David. See French schools of *painting.

— The New Empire, the great bistorical period inaugurated in ancient Egypt on the expulsion of the lyksos or Shepherd Kings by Aahmes (Amasis), the founder of the eighteenth dynasty about 1700 B. C.

Empiric style, a name applied, in the history of French advised silver bromide suspended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide suprended in gelatin. It is made by divided silver bromide suspended in gelatin. It is mulsion, in photog., finely divided silver chorologhom as the tromide silver chorolic silver bromide subsended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide suspended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide suspended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide subsended in gelatin. It is made by divided silver bromide subsended in gelatin. It is ma adding silveruitrate and a soluble bromide to warm gelatin, cooling the mass, and thoroughly washing the jelly. The mass is next worked into a state of fine division. All operations are conducted in a dark room.—Chloride mulsion, in photog., an emulsion consisting of silver chlorid suspended in gelatin: largelyused in the preparation of lanternsides. It is not so rapid in action as the bromide emulsion.—Chloriodobromide emulsion, in photog., finely divided silver chlorid, bromide, and iodide suspended in gelatin.—Chlorobromide emulsion, in photog., thely divided silver chlorid and bromide suspended in gelatin.—Col-

lodiobromide emulsion, in photog., finely divided silver bromide held in suspension in collodion. Used in the preparation of sensitive surfaces on glass or paper.—Golfodiobromoehlorid emulsion, in photog., finely disconsistent of the preparation of the prepara lodiobromide emulsion, in photog., finely divided silver bromide held in suspension in collodion. Used in the preparation of sensitive surfaces on glass or paper.—Collodiobromochlorid emulsion, in photog., finely divided silver bromide and silver chlorid held in suspension in collodion: used in the preparation of sensitive surfaces on glass or paper.—Collodiochlorid emulsion, in photog., an emulsion consisting of silver chlorid in a finely divided state held in suspension in collodion. Two varieties are made: one needing development when used, the other serving for 'printing-out.—Collodion-albumin emulsion, in photog., an emulsion consisting of collodion to which a small quantity of albumin has been added, together with zinc bromide and silver nitrate, to render it sensitive to light.—Collodion emulsion, in photog.: (a) Washed, a collodion sensitized by the use of zinc bromide, silver nitrate, and nitrie acid, and allowed to evaporate. The pellicle is washed with water, then with alcohol, and is afterward emulsified with ether and alcohol. (b) Unwashed, a collodion containing finely divided silver bromide held in suspension.—Gelatin emulsion, finely divided sensitive silver compounds suspended in gelatim.—Gelatinobromide emulsion, finely divided silver bromide held in suspension in gelatim.—Gelatinochlorid emulsion, in photog., finely divided silver bromide held in suspension in gelatin percentage of free silver nitrate is added the image is printed out by the action of light.—Kerosene emulsion, See kerosenesoap *cmulsion.—Kerosene-soap emulsion, an emulsion of kerosene and soap, used as a standard insecticide. The best formula is kerosene 2 gallons, whale-oil soap ½ pound, water 1 gallon. The soap, threly divided, is dissolved in boiling water and immediately added to the kerosene. The mixture is then violently agitated while hot mtil it has increased somewhat in bulk and has assumed the consistency of cream. It will keep indefinitely and should be diluted only when used. *Vearbook U.S. Dept. Agr., 1899, p. 1

emulsor (ē-mul'sor), n. [NL. *emulsor, < L. emulgere, milk out: see emulsion.] An apparatus for lifting water by an air-lift, that is, by foreing air down a tube and allowing it to escape at the mouth of a vertical discharge-pipe. As the air rises it carries water along with it.

emu-tree (ē'mū-trē), n. Same as *emu-bush. emydosaurian (em"i-dō-sâ'ri-an), a. and n. I. a. Relating to or having the characters of the Emydosauria.

II. n. A member of the order Emydosauria; a crocodilian.

en., enc. Abbreviations of encyclopedia.

enable, v. l.—**Enabling act**, an act or a statute which removes a restriction or disability and empowers a person or a corporation to do what he or it could not do.

enaction (e-nak'shon), n. [cnact + -ion.] The act of enacting or the state of having been enacted or made law; enactment.

enactory (e-nakt'ō-ri), a. [enact + -ory.] Of the nature of an enactment or of enactments; relating to enactments: as, bills enactory and declaratory.

enaena (ā-nā-ā'nā), n. [Hawaiian *enaena.] A composite plant, Gnaphalium luteo-album,

widely distributed over the warmer parts of the earth, with heads of brownish flowers. See Jersey livelong, under livelong². [Hawaii.] enalid (en'a-lid), n. [NL. Enalus, also Enhalus (L. C. Richard) (see def.) ($\langle Gr. iv, in, + \tilde{a}\lambda \zeta, sea \rangle, + -id^2$.] A plant with the œeological character of the genus Enhalus, family Vallisveriges.

neriaceæ. See sea-grass. enamel, n. 8. The firm white substance which enamel, n. 8. The firm white substance which covers the bony scales of some ganoid fishes.

—Bilston enamel, painted enamel on copper produced at Bilston, Staffordshire, England, in the latter half of the eighteenth century: usually consisting of small objects such as smif-boxes, patch-boxes, and trinkets. Compare Battersea enamel, under enamel.—Cluny enamel, pottery decorated with colored enamels by the method practised at Gluny and Longwy, France, and at other places. Outlines of the designs are first applied to the surface of the ware in black or dark color containing iron, which repels the enamels. The spaces between are then filled in with relief enamel colors, which, after firing, resemble cloisonné enameling, appearing as convex drops, raised in the center and thin at the edges. Also called Longwey enamel.—Longwy enamel. Same as Cluny *cnamel.

—Stanniferous enamel, in ceram, a thick, opaque glaze, of milky whiteness, containing oxid of tin; tin enamel. It resembles white-lead paint. This enamel is used on majolica and delf.—Tin enamel. Same as stanniferous *cnamel.

enamel-cell (e-nam'el-sel), n. One of the eells which are concerned in producing the enamel in the embryonic tooth; an adamantoblast or ameloblast.

enameling-furnace (e-nam'el-ing-fer" $n\bar{a}s$), n. A furnace used for vitrifying the enamel coating on metal, glass, or biscuit. The work is placed in a muffle, which consists of an arched chamber in the midst of a small furnace.

enameling-lamp (e-nam'el-ing-lamp), n. A

glass-blower's lamp with a blowpipe for performing some of the more delicate surface ornamentation on glass.

enamel-prism (e-nam'el-prizm), n. One of the microscopic rods, set side by side in close conformed. In section they are five- or six-sided. hence the term.

enamel-pulp (e-nam'el-pulp), n. The central encephalomalaxis (en-sef"a-lō-ma-lak'sis), n. portion of the enamel-organ lying between the [NL, \langle Gr. $i\gamma \kappa \epsilon \phi \alpha \lambda \sigma c \epsilon v$, brain, $+ \mu \alpha \lambda \alpha \delta c \epsilon v$, soften-cubical cells and the enamel-membrane which ing, $\langle \mu \alpha \lambda \alpha \sigma \sigma c \nu v$, soften, $\langle \mu \alpha \lambda \alpha \kappa \delta c v \rangle$, soft.] Same incloses the superior part of the dental papilla. enanthem (en'an-them). n. Same as enun-

cnanthematous (en-an-them'a-tus), a. Relating to or affected with an enanthema.

enanthylic, a. Same as a manthylic. enanthylic, enanthylic, i. Same as a manthylic. enanthylic. enanthylic. enanthylic. enanthylic. enanthylic. enanthylic. (Gr. εναντίος, opposite, + βίωσες, living.) The living together of organisms which mutually impede each other's development.

Enantioliparis (e-nan*ti-o-lip a-ris), n. [NL., ζ Gr. ἐναντίος, opposite, + NL. Liparis.] A genus of snail-fishes of the family Liparidæ,

found in the Antarctic Ocean.

found in the Antaretic Ocean.

enantiomorph (e-nan'ti-ō-môrf"), n. [Gr. ivar + -itis.] Inflammation of both the brain τioc , opposite, + $\mu o\rho \phi i$, form.] Noting the stereomeric isomer of a compound containing encephalopathic (en-sef-a-lop'a-thik), a. one or more asymmetric earbon atoms: thus, levorotatory lactic acid is the enantiomorph of the dextrorotatory acid, and vice versa. The word is also used of crystals.

enantiomorphism (e-nan"ti-ō-môr'fizm), 1. The property or condition of being enantiomorphous. Specifically—2. In crystal., the relation of similarity of form between crystals which are not superposable, so that one of two crystals differs from the other as it differs from its own image in a mirror. See enantiomor-

enantiomorphously (e-nan "ti - ō - môr'fus - li). adv. In an enautiomorphous manner: as, enantiomorphously related crystals.

enantiotropic (e-nan*ti-ō-trop'ik), a. [Gr. evarios, opposite, + -τροπος, < τρέπειν, turn.] In phys. chem., capable of transformation in opposite directions.

Sulphur is enantiotropic: if rhombic sulphur, which is stable below 96° C. is kept at a temperature above 96° C. but below its melting point, it is transformed into monoclinic sulphur; and if monoclinic sulphur, which is stable at temperatures between 96° C. and its melting point, is kept below 96° C., it is transformed into rhombic sulphur. H. C. Jones, Prin. Inorganic Chem., p. 172.

enantiotropy (e-nan-ti-ot'rō-pi), n. The state or condition of being enantiotropic. A. Find-

lay, The Phase Rule, p. 42.

Enargea (en-ār-jē'ā), n. [NL. (Banks, 1788), ζ Gr. ἐνάργεια, clearness, distinctness, ζ ἐναργής, clear, distinct.] A genus of plants of the family Liliueeæ. See Luzuriagu.

enarkyochrome (en-är'ki-ö-kröm), n. markyochrome (en-är'ki-ō-krōm), n. [Gr. $i\nu$, in, + $a\rho\kappa\nu\varsigma$, a net, + $\chi\rho\tilde{\omega}\mu a$, color.] In ueurol., a nerve-cell in which fine threads of chromatic substance connect the nodal points in the nuclear network or reticulum.

enate (ē'nāt), n. [L. enatus, pp. of enasci, be born, < e, out, + nasci, be born. Cf. agnate, cognate.] A relative on the mother's side.

enatic (ē-nat'ik), a. [enate + -ie.] Pertaining to or characteristic of a clan in which descent is reckoned from mother to children: opposed to agnatic, which designates clans in which descent is reckoned from father to children. Giddings, Prin. of Sociol., p. 167.

en axe (on aks), [F.] In or upon the axis: used in architecture. Thus, an entrance-door or a fireplace may be on the principal axis of the room, and is then said to be en axe.

en barbette (on bär-bet'). [F.] In barbette; so as to fire over the parapet. See barbette. encarditis (en-kär-dī'tis), n. Same as endocar-

ditis. encash (en-kash'), v. t. [en-1 + cash], after F. encaisser.] 1. To turn (a note, draft, or check) into eash; cash.—2. To convert into eash;

obtain in the form of cash; realize in cash. encelialgia, encelialgia (en-sē-li-al'ji-ā), n. [NL. encelialgia, ζ Gr. εγκείζια, the intestines, + ἀλγος, pain.] Pain located in any of the abdominal viscera.

encelitis, encœlitis (en-sē-lī'tis). n. [NL. en-ewlitis, ζ Gr. εγκοίλια, the intestines, + -itis.]
Inflammation of one or more of the abdominal

encephalin (en-set a-lin), n. [Gr. ἐγκέφαλος, brain, + -in².] Α derivative of cerebrin.

encephalodialysis (en-sef'a-lō-dī-al'i-sis), n. [NL., ζ Gr. ἐγκέφαλος, hrain, + διάλνσις, dissolution.] Softening of the brain. encephalolith (en-sef'a-lō-lith), n. [Gr. ἐγκέφαλος, brain, + λίθος, stone.] A concretion

φαλος, brain, + λίθος, ston within the brain-substance.

tact, of which the enamel of the teeth is encephalomalacosis (en-sef/a-lo-mal-a-ko'- encomienda (en-ko-mi-en'da), n. [Sp., a comsis), n. [NL., $\langle \text{Gr. } i \rangle \kappa \ell \phi a \lambda o \zeta$, brain, $+ \mu a \lambda a \kappa \delta \zeta$, soft, + -osis.] Same as encephalomalacia.

as encephalomalacia.

encephalomeningocele (en-sef #a-lō-mē-ning'gō-sēl), n. [Gr. $\dot{\epsilon}$) $\kappa\dot{\epsilon}\phi\dot{\alpha}$ / $o_{\rm c}$, brain, + $\mu\bar{\eta}\nu\iota\gamma\dot{\epsilon}$, membrane, + $\kappa\dot{\eta}/\eta$, tumor.] Protrusion, through a fissure of the skull, of brain-substance with a portion of the attached membranes.

encephalomeric (en sef a-lō-mer'ik), a. Of or relating to an encephalomere or brain-segment.

encephalometric (en-sef a-lo-met'rik), a. [Gr. έγκεφαλος, brain, + μέτρον, measure, + -ie.] In anat., relating to measurements of the brain. encephalomyelitis (en-sef"a-lō-mī-e-lī'tis), n.

[NL.. ζ Gr. εγκέφαλος, brain, + μυελός, marrow, + -itis.] Inflammation of both the brain and

pertaining to, or of the nature of encephalo-pathia, or disease of the brain.

encephalorachidian (en-sef″a-lō-rā-kid'i-an),
a. [Gr. ε) κέφαλος, brain, + ράχις, spine, + -id
+ -ian.] Same as cerebrospinal.
encephalorhachidian, a. See *encephalora-

encephaloscope (en-sef'a-lō-skōp), n. [Gr. ε΄γκέφαλος, brain, + σκοπεῖν, view.] A tubular device resembling a speculum, with a reflecting mirror or electric light attachment: nsed for inspecting the brain in operations on the cranium.

encephaloscopy (en-sef"a-los'kō-pi), n. [encephaloscope + -y3.] Examination (not necessarily visual) of the brain.

enchannel (en-chan'el), v. t.; pret. and pp. enchanneled or enchannelled, ppr. enchanneling or enchannelling. [en-1 + channel.] To confine within its proper channel. Enchanter's plant, the common vervain, Verbena offici-

Enchodontidæ (eng-kō-don'ti-dē), n. pl. [NL., ∠ Enchodus (-odont-) + -idæ.] A family of extinct teleost fishes whose rapacious habit is indicated by their powerful jaws and teeth. The species were without scales, but bore a scries of dorsal and lateral bony scrites. They are found only in Cretaceons rocks.

Enchodus (eng'kō-dus), n. [NL., ζ Gr. ἐγχος, a spear, + ὁδοις (οδοντ-), a tooth.] The typical genus of the Enchodontidæ.

enchondrosis (en-kon-dro'sis), n.; pl. enchondroses (-sez). [NL., ζ Gr. έν, in, + χόνδρος, cartilage, + -osis.] An outgrowth from car-+ χόνδρος, tilage; also, a tumor composed of cartilage, or chondroma.

enchyma (eng'ki-mä), n. [NL., ζ Gr. εγχυμα, an infusion: see enchymatous.] A liquid elaborated from chyme and used in the forma-

tion of the living cells and tissues. Enchytræidæ (eng-ki-trē'i-dē), n. pl. [NL., (Enchytræus + -idæ.] A family of limicolous Oligochæta, consisting of small worms having straight or curved setæ, sometimes a single pair of calciferous glands, a dorsal vessel in the anterior region, and usually a single pore on the præstomium. It contains Enchytræus, Pachydrilus, and several other genera found in fresh and salt water and in damp earth. Enchytræus (eng-ki-tre'us), n. [NL., \langle Gr. $i\nu$, in, $+\chi i\tau \rho a$, an earthen pot: see *ehytra*.] The typical genus of the family *Enchytræidæ*. *Henle*, 1837.

encinillo (en-thē-nēl'yō), n. [Sp., dim. of encind, oak. It resembles certain European species of oak.] In Porto Rico, an indigenous shrub of the spurge family, Drypetes ilicifolia.

encliticism (en-klit'i-sizm), n. [enclitic + -ism.] In gram., the tendency of a symbolic word to lose its according a stronger adjacent (like appropriate control of the stronger adjacent control of encliticism (en-klit'i-sizm), n. (like an enclitie) word. J. Earle, Philol. Eng. Tongue, ¶ 254.

encœlialgia, encœlitis, n. See *encelialgia, *encelitis.

encoffinment (on-kof'in-ment), n. [en-

coffin + -ment.] The act of placing a corpse in a coffin; coffining.

encoil (en-koil'), v. t. [en-1 + coil1.] To wrap or hold captive in, or as in, a coil. P. J. Bailey, Festus.

encolumn (en-kol'um), v. t. [cn-1 + column.]

To ornament with columns: as, encolumned world.

mission, charge, grant, \langle ML, in commendam: see commendam.] In a special use, an estate in Spanish America, comprising land and Indian inhabitants, granted to one of the early

military adventurers.

encorhelment (en-kôr'bl-ment), n. Corbeling (in the general sense of the projection of one mass or surface beyond the substructure) and the construction of it in masonry.

encounter, n.—**Molecular encounter**, in phys., a collision between two or more molecules of a gas, taking place during the translatory motion of each molecule, postulated by the kinetic theory of gases. See gas, 1.

postulated by the kinetic theory of gases. See gas, 1.

encranial (en-krā'ni-al), a. [Gr. iv, in, + κρανίον, skull, + -all.] Same as intracranial.

Encrinal limestone. See *limestone.

Encrinasteriæ (eng "kri-nas-tē'ri-ē), n. pl.

[NL., < Encrinus, + Gr. ἀστήρ, a star.] A subclass of the Asteroidea or starfishes. They are of paleozole age and characterized by the slternate meeting in the middle of the ambulaeral groove of the slightly inclined ossicles and by the position of the madreporite on the oral side of the disk.

Encrinite limestone. See *limestone.

Encrinite limestone. See *limestone.
encrinoid (eng'kri-noid), a. Pertaining to or
having the characters of the pelmatozoan
order Encrinoidea.

encurage, v. t. A simplified spelling of en-

encyclopedize, encyclopædize (en-sī'klō-pēdiz"), v. t.; pret. and pp. encyclopedized, -pædized, ppr. encyclopedizing, -pædizing. [encyclopedia + -ize.] To treat, describe, or arrange as in an encyclopedia, or with encyclopedic fullness, accuracy, and system: as,

to encyclopedize knowledge. end, n. 10. One length of a piece of woven woolen or cotton goods. In dyeing, 'goods given four ends' means that the piece is passed through the coloring-liquor four times.

11. In mining, that one of two vertical sets of joints in coal which shows the rougher surface. [Eng.] Geikie, Text-book of Geol., p. 660.—Both ends against the middle, a system of dealing at fare with prepared eards, so that if the end of the layout wins the middle shall lose, or vice versa.—Change of end, in cricket, the shifting of a bowler from one wicket to the other.—End-on tube. See *lube.—Law of heterogony of ends, in Wundt's psychology and ethics, the principle that "manifestations of will, over the whole range of man's free voluntary actions, are always of such a character that the effects of the actions extend more or less widely beyond the original motives of volition, so that new motives are originated for future actions, and again, in their turn, produce new effects." W. Wundt (trans.), Ethics, L. 330.—Open-end straight. See *straight.
endangiitis (en-dan-ii-ī'tis).n. [NL.. \(endan-11. In mining, that one of two vertical sets of

endangiitis (en-dan-ji-ī'tis), n. [NL., \(endan-gium + -itis. \)] Inflammation of the lining mem-[NL., \endanbrane of a lymphatic or blood-vessel.

endangium (en-dan-jī'um),n.; pl. endangia (-ä).
[NL., ζ (ir. ἐνδον, within, + ἀγγεῖον, vessel.]
Same as intima.

endaortic (en-dā-ôr'tik), a. [NL. *endaorta (Gr. ἐνδον, within, + ἀνρτή, aorta) + -ie.] Referring to the interior or the lining membrane of the aorta.

endaortitis (end-ā-ôr-tī'tis). n. [NL., (*endaorta + -itis.] Inflammation of the lining membrane of the aorta.

endarterial (end-är-te'ri-al), a. [Gr. $\tilde{\epsilon}\nu dov$, within, + $a\rho\tau\eta\rho(a$, artery, + -al.] Relating to the interior of an artery.

endarteritic (end"är-tē-rit'ik), a. Relating to or affected with endarteritis.

or affected with endarteritis. Same as *arteritis deformans.—Endarteritis obliterans, endarteritis of the smaller vessels, causing occlusion.—Endarteritis proliferans, a chronic degenerative process marked by an overgrowth of fibrous tissue in the inner layers of the arteries.

end-brush (end'brush), n. The terminal ramification of a motor nerve-fiber in the granular sole of a Doyère's elevation on the side of a

end-bud (end'bud), n. An organ consisting of a number of sensory cells, each bearing sensory hairs, compacted into a bud-like mass. Such organs are scattered over the surface of the body of fishes, but in mammals are confined to the mouth cavity and serve as organs of taste.

Allied to the sense organs of the lateral line are structures known as end buds.

J. S. Kingsley, Vert. Zool., p. 68.

encoffinment (on-kof'in-ment), n. [en-+coffin + -ment.] The act of placing a corpse end-chase (end'chās), n. End play; end moin a coffin; coffining. encoil (en-koil'), v. t. [en-1 + coil'.] To end-correction (end'ko-rek'shon), n. In wrap or hold captive in, or as in, a coil. P. J. phys., the correction to be applied in the determination of the thermal, electrical, or magnetic conductivity of a rod or of the magnetic conductivity of a rod or of netic flux within a coil or of the capacity of a cylindrical condenser, on account of the

effect of the ends of the rod or cylinder upon

the quantity to be computed.
endecanaphthene (en-dek-a-naf'thēn), n.
[Prop. heudeca-; < Gr. ενόεκα, eleven, + naphthene.] A colorless, liquid hydrocarbon. C₁₁H₂₂, found in Baku petroleum. It boils at 179-181° C.

endeiolite (en-dī'ṣ-līt), n. [Gr. ἐνδεια, want, lack, $+\lambda i\theta_{0\varsigma}$, stone. Analysis showed a large loss, assumed to be silica.] A rare mineral from southern Greenland, of uncertain composition but containing niobium, zirconium, cerium, iron, calcium, sodium, and probably silicon: it is allied to pyrochlore and occurs in chocolate-brown octahedrons.

endemia (en-de'mi-a), n. An endemic disease. endemic, a., 2. (b) In phytogeog., properly, confined to a particular region, whether indigenous or not: sometimes confused with indigenaus. Originally used (A. P. De Candolie, 1820) of genera whose species are all grouped in one region; later, also of species whose distribution is similarly limited. Compare *polydemic, *pandemic, and sporadic.

endemio-epidemic (en-de"mi-o-ep-i-dem'ik), denly assumes increased virulence and attacks

a large proportion of the population.

endemiological (en-dē'mi-ē-loj'i-kai), a. Pertaining or relating to endemiology.

endermically (en-der'mi-kal-i), adv. In med.,

by the endermic method of administering certain medicines, that is, by direct application to the skin.

end-game (end'gam), n. In chess, the third or last stage of a game, arising after the forces on both sides have been sufficiently diminished to make the pawns the paramount issue. other stages are the opening and the middle games.

endite (en'dit), n. [Gr. &voov, within, + -ite2.] One of the processes on the inner or mesial border of the leaf-like abdominal appendages of the branchiepod Crustaeea.

endive, n.—Sea-endive, any seaweed of the genus Haliseris, translating the genus name.

end-measure (end'mezh-ŭr), n. A measure of length which is defined by the distance between certain points in the surfaces of the ends of a bar, and not by the distance between lines engraved on the bar. Nature, Aug. 7, 1902, p. 350. end-moraine (end'mē-rān"), n. A terminal

end-motion (end'mō"shon), n. Axial motion; the motion of a part of a machine along the line of its shaft, as distinguished from its motion of rotation.

moraine

endoabdominal (en "dō-ab-dom'i-nal), a. ένδον, within, + L. abdomen, abdomen, + -all.] Situated or occurring in the abdomen.

endobiotic (en ' dō - bī - ot ' ik), a. [Gr. ἐνδον, within, + βίωσις, way of living: see biotic.] Living as a parasite within the tissue of the host, as Chrysophlyctis endobiotica in potato

Endobranchiata (en-do-brang-ki-a'tä), n. pl. [NL., ζ Gr. ἐνδον, within, + βράγχια, gills: see branchiate.] A group of regular Echinoidea, having the mouth and anus at opposite poles, the anus surrounded by the apical system of plates when they are present, and no external gills. It includes the orders Bothriocidaroida, Cystocidaroida, Cidaroida, Melonitoida, and Plesiocidaroida. Compare *Ectobranchiata.

endocannibalism (en-dō-kan'i-bal-izm), n. [Gr. ἐνδον, within, + E. cannibalism.] Cannibalism within the family; the custom of eating parents and relatives. Keane, Man Past and Present, p. 79.

Endocardial murmur. See *murmur.

endocarditis, n.—Infections or ulcerative endo-carditis, a septic form, marked by nlceration of the valves, leading to loss of substance and permanent impairment of function.—Plastic endocarditis, a form of endocarditis marked by a fibrinous exudate which causes adhesions of the valves to the neighboring parts.

endocellular (en-dō-sel'n-lär), a.

cell; intracellular.
Endoceras (en-dos'e-ras), n. [NL., < Gr. ἐνδον, within, $+\kappa \epsilon \rho a c$, hern.] A genus of Silurian nautiloid cephalopods of the family *Endo*eeratidæ, characterized by the development of the endocones inclosing a central canal, the endosiphuncle, and by the projection of the funnels from one septum apically toward the next.

Endoceratida (en/dō-se-rat'i-dä), n. pl. [NL., ⟨ Endoceras (-cerat-) + -ida.] A subdivision

of the order Nautiloidea of the tetrabranchiate Cephalopoda, characterized by large tubular siphuncles and a complete isolation, by the funnels, of the interior of the siphuncle from the interior of the camera.

endoceratite (en-dō-ser'a-tit), u. [As Eudo-eerus (-ut-) + -ite².] A member of the genus Endocerus.

endoceratitic (en -dō-ser-a-tit'ik), a. [endoceratite + -ie.] Having an endesiphen, as endogenous, a. 3. In geol., formed within a cephalopods.

endochylous (en -dō - kā 'lus), a. [Gr. ἐνδον, within, + χνλός, juice, moisture, + -ous.] In bot., placed inside the chlorenchyma: said of aqueous tissue which serves as a defense against physiological dryness, as in Cactaceæ and most other stem succulents. A. F. W. Schimper.

endoclinal, a. 2. In gcol., pertaining to or of the nature of an endocline.

Finally he proved that the complicated tectonics of the Silurian tableland, its endless overfolds, its endoclinal and exoclinal structures, can be unravelled by means of the graptolite zones.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 625.

Noting an endemic disease when it snd- endocline (en'do-klin), n. In geol., a fan-fold

of anticlinal type.

endocœle (en' dō-sēl), n. [Gr. ἐνδον, within,

+ κοϊλος. hollow.] The cavity in the endoderm; the archenteron.

In med., endocolitis (en dō-kō-li'tis), n. [NL., ζ Gr. ering eer- ἐνδον, within, + κόλον, colon, + -itis.] Inflammation of the lining membrane of the colon.

endocomplement (en-dō-kem'plē-ment), n. [Gr. èvôov, within, + E. eomplement.] A complement which occurs in the body of a cell, in contradistinction to complements which occur free in the serum.
endoconal (en-dō-kōn'al), a. [endocone +-all.]

Relating to an endocone.

endocorpuscular (en do kôr-pus kû -lär), a. [Gr. irdor. within, + NL. corpusculum, corpuscle, + -ar3.] Within a corpuscle, espe-

cially a blood corpuscle.

endocrane (en'dō-krān), n. Same as cadocranium.

endocranium, n. 2. The lining membrane of the skull; the dura mater.

endocrystallic (en "do-kris-tal'ik), a. [Gr. ενδον, within, +κρίσταλλος, erystal, +-ic.] In petrog., a term used by J. D. Dana (1894) to describe that form of metamorphism which may be referred te the effects of pressure in modifying the structure of crystals, as in the production of secondary twinning, or in fracturing them.

endocystitis (en'do-sis-ti'tis), n. [NL., < Gr. which there is a fibrinons exudste which forms a false embrane. Inflammation of the mucous membrane of the endometry (en-dom'e-tri), n. [Gr. ἐνδον, within, membrane.] urinary bladder or gall-bladder.

urinary bladder or gall-bladder.

endoderm, n.—Secondary endoderm, in embryot., a name for the endoderm cells which form the wall of the mesenteron or mid-gut in certain animals such as the insects, which have a primary endoderm in the form of vitellophags, or cells which are early set free into the yolk and aid in its assimilation by the growing embryo. endodontitis (en#dē-don-tī'tis), n. [NL., ⟨ Gr. ἐνδον, within, + ὀδοῦς (ὀδοντ-), tooth, + -itis.] Inflammation of the membrane which incloses the public every of a tooth.

the pulp-cavity of a tooth.

endoectothrix (en-dō-ek'tō-thriks), n. [Gr. $\dot{\epsilon}\nu dov$, within, $+\dot{\epsilon}\kappa \tau \dot{\phi}c$, without, $+\theta \rho i \ddot{\epsilon}$, hair.] That form of the fuagus eausing tinea or ringworm which produces its mycelium and spores both on the exterior and on the interior of the affected hairs.

The spores in this variety are arranged in chains with short jointed mycellum here and there; these elements being in more or less profusion either in or outside the shaft or they may occupy both localities—endo-ectothriz.

Buck, Med. Handbook, VII. 781.

endoenzyme (en-dō-en'zīm), n. [Gr. &rōov, within, + enzyme.] An intracellular ferment; a ferment which exercises its peculiar function within the cell.

endogamic (en dō-gam'ik), a. Same as endog-

amous.—Endogamic mating. See *mating. endogamy, n. 2. In bot., the fusion or coalescence of two or more female gametes.

the valves to the neighboring parts.

ndocellular (en-dō-sel'ū-lär), a. [Gr. ἐνδον, cence of two or more female gametes.

within, + L. cellula, cell, + -ar³.] Within a endogastric (en-dō-gas'trik), a. [Gr. ἐνδον, within, + γαστήρ, stomach. + -ic.] Situated within, + γαστήρ, stomach. + -ic.] Situated within the abdomen; coiled posteriorly, as the shell of Spirula. Compare *exogastrie. Encyc. Brit., XXX. 795.

endogenesis (en-dō-jen'e-sis), n. [NL., < Gr. ένδον, within, + γένεσις, origin, production.]
The production of or the giving rise to struc-

three from within: opposed to *cctogenesis.
endogenetic, a. 2. Formed directly from solutions, as a rock, whether from silicate solu-tions (igneous magmas), aqueous solutions,

or gaseous solutions (sublimation), including these formed through organic agencies.

Endogenetic rocks may also be called nonelastic, since they are never composed of fragments of older rocks, as are the clastic rocks, though they include regenerated rocks, or those in which the material of the older rocks has gone back to the original state of fusion or solution, from which it is then redeposited in a chamical way.

Amer. Geol., April, 1904, p. 229.

mass of rock or even within the earth itself: especially employed to describe the effects, in contact-metamorphism, produced in the intrusive rock itself, as distinguished from those in the walls. The common endogenous results are a dense or even felsitic or glassy texture due to the relatively quick chill.

endogeny (en-doj'e-ni), n. ndogeny (en-doj'e-ni), n. [Gr. ἐνδον, within, + -γενεια, < -γενης, -produced.] 1. Same as *en-dogenesis.—2. In sporozoans, sporulation tak-

dogenesis.—2. In sporozoans, sporulation taking place while the eyst is within the host. Compare *crogeny.—3. Same as endogamy.
endoglobular (en'dō-glob'ū-lār), a. [Gr. ενδον, within, + L. globulus, globule, + -ar³.] Situated or occurring within a blood-globule, especially an erythrocyte. Jour. Exper. Med., March 25, 1901, p. 473.
endognath (en'dog-nath), n. [Gr. ενδον, within, + γνάθος, jaw.] The inner branch of a gnathite or mouth-appendage in crustaceans. Proc.

ite or mouth-appendage in crustaceans.

ite or mouth-appendage in erustaceans. Proc. Zool. Soc. London, 1899, p. 705.
endognathal (en-dog'na-thal), a. [Gr. ἐνδον, within, + γνάθος, jaw, + -al.] Within the jaw.
endognathion (en-dog-na'thi-on), n.; pl. endognathia (-ä). [NL., < Gr. ἐνδον, within, + γνάθος, jaw.] Same as intermaxilla.
endolabium (en-dō-la'bi-um), n.; pl. endolabia (-ä). [NL., < Gr. ἐνδον, within, + L. labium, lip.] The tongue, lingua, or hypopharynx of an insect. It is placed inside the mouth and is attached to the labium.
endolemma (en-dō-lem'ä), n.; pl. endolemmata

endolemma (en-dő-lem'ä). n.; pl. cndolemmata (-a-tä). [NL., ζGr. ἐνόον, within, + λέμμα, scale.] In histol., a structureless membrane lying beneath the exolemma and inclosing the axis-cylinder in the tail of certain spermatozoa.

endomesoderm (en-dō-mes'ō-dērm), n. [Gr. ἐνδον, within, + μέσος, middle, + δέρμα, skin.] In embryoil, that portion of an embryo not yet differentiated into endoderm and mesoderm Same as *mescntoderm. proper.

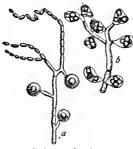
endometritis, n.—Exfoliative endometritis, in-damnation of the mucous lining of the nterus with the casting off of the superficial portion of this membrane.— Membranous endometritis, a form of inflammation in which there is a fibrinous exudate which forms a false

+ -μετρία, ζμέτρον, measure.] The determina-tion of the capacity of a cavity, especially that of the cranium.

endomorphic, a. Specifically—2. In petrog., having the character of those phases of contact-metamorphism which are developed within the intrusive rock. See *endomorphism.

endomorphism (en-dő-môr fizm), n. [Gr. ενδον, within, + μορφή, ferm, + -ism.] Iu petrog., changes brought about within the mass of an changes brought about within the mass of an intrusive igneous rock by contact with the intruded rock. The commonest modifications are in the crystallization of the intrusive rock, which is usually more finely grained, sometimes glassy, and often more porphyritic near the contact. Less often there are changes in the composition of the intrusive rock, resulting in some cases from differentiation within the igneous magma. In rare instances there has been a diffusion of material from the surrounding rock into the intruded rock. Also called endomorphic contact-metamorphism.

endomusia (en-dō-mū'zi-ā), n. [NL., < Gr. ενδαν, within, + μοῦσα, mnse.] In psychol., a endomusia (en-uç-ma 20-47, ... In psychol., a term suggested



Endomyces decipiens.

a, mycelium bearing chains of condia and chlamydospores, magnified too times; b, portion of mycelium bearing asci, magnified too times. (Drawn from Engler and Pranti's (Planzenfamilien.")

**Pflanzenfamilien.")

Indomyces (endomyces** (endomyces**), n. (ST.)

[NL. (Reess, 1870), Gr.

dom'i-sēz), n. [NL. (Reess, 1870), \langle Gr.

by Baldwin and

phasia, for 'in-ternal song,' that

is, for the men-

melodic imagery and which may

prompt to melo-

die expression.

Baldwin, Diet. of

Philos. and Psyehel., I. 564.

processes which constitute

Steut, on analogy of endo-

ένδον, within, + μνκής, fungus.] Ascomycetes, the type of the family Endomycetacea, having a loose mycelium bearing naked 4-spored asci at the ends of short, simple branches. So called from the fact that some of the species grow within the tissues of their host. E. deci-piens is a parasite of Armillaria mellea. According to Ludwig, certain species are concerned in producing the slime-flux of trees.

Endomycetaceæ (en-dō-mī-sē-tā'sē-ē), n. pl. [NL., \(Endomyces \) (Endomycet-), + -accæ.] A family of ascomycetous fungi named from the genus Endomyces. The asci are naked, that is, are not inclosed in an ascocarp, but are produced at the sides r end of the hypha

endomyocarditis (en dō-mī-ō-kār-dī'tis), n. [NL., ζ Gr. ἐrδοr, within, + uiç, muscle, + καρδια, heart.] Inflammation which involves both the lining membrane and the muscular substance of the heart.

endonomic (en -dō -nom'ik), α. [Gr. ἐνδον, within, + νόμος, custom, law.] Concerning or pertaining to the sort of selection which is due to the aptitude of a race for dealing with its environment.

This form of selection, determined by the aptitudes and habitudes of the species in dealing with the environment, I call endonomic selection.

T. Gulick, in Amer. Nat., Aug., 1904, p. 495.

endonuclear (en-do-nū'kle-ar), a. [Gr. ėvoav, within, + L. nucleus, a nucleus, + -aro. J Situated or occurring within the nucleus of the cell: opposed to *cetonuclear. nucleus, + -ar³.

endopelvic (en -dō-pel'vik), a. [Gr. ένδον, within, + L. pelvis, basin (pelvis), + -ie.] Situated or occurring within the pelvis.

endopericardial (en "dō-per-i-kar'di-al), a. [Gr. ενδον, within, + περικάρδιον, pericardium, + -al.] Relating to both the endocardium and the pericardium.

endophasia (en-dō-fā'si-ā), n. [NL., \langle Gr. $\dot{\epsilon}\nu\delta\sigma$, within, + $\dot{\phi}\dot{a}\sigma\iota$, speech.] In psychol., internal speech: a term proposed by Morselli for the arithmeter. endophasia (eu-dō-fā'si-ä), n. for the auditory or motor processes which constitute imagery of spoken words and which may prompt to verbal expression. Baldwin,

Diet. of Philos. and Psychol., I. 564.

endophasic (en-dō-fā'sik), a. [endophasia +
-ic.] Pertaining to endophasia or internal

A person may be gifted with an excellent visual imagination of objects or words, and may yet use in his processes of ideation only the auditive images of words. He makes use in this ease of a cerebral mechanism that connects the working of the intellectual centers with the sympathetic action of the endophasic center.

Amer. Inventor, May 1, 1904, p. 206.

endophragma (eu-dō-frag'mä), n. [NL.] Same as endophragm.—Endophragmal system, in some crustaceans, a kind of internal skeleton consisting of a segmental series of calcified plates, projections of the ventral and lateral regions of the thoracie exoskeleton into the interior of the body, so arranged as to form a row of lateral chambers in which the muscles of the limbs lie, and a sternal canal which contains the thoracic portion of the perrous system.

Endophyllaceæ (en-dō-fi-lā'sē-ē), n. pl. [NL., \(Endophyllum + -aceæ. \] A small family of rust-fungi, of the order l'redinales. named from the genus Endophyllum: characterized by having the teleutospores produced in a chain-like series.

Endophyllum (en-dō-fil'um), n. [NL. (Léveillé, 1825), Gr. évőov, within, + φελλον, leaf.] A genus of rust-fungi of the order Uredinales. They produce only teleutospores which form in chains and are surrounded by an accidinm-like peridium, more or less buried in the tissue of the host, whence the name. E. Sempervivi is parasitic on the leaves of Sempervivim.

endoplastron (en-do-plas' tron), n. [NL.] Same as entoplastron.

same as entoptastron.
endoplutonism (en-dō-plö'tō-nizm), n. [endopluton-ic + -ism.] In petrol., the theory which assumes the cooling of a molten earth.
endopluton-ic + -ist.] One who advocates the theory of an originally molten earth.

endopod (en'do-pod), n. Samo as endopodite. endoproct (en'do-prokt), n. One of the Endo-

Endopterygota (en dop -ter-i-gō'tä), n. pl. [NL, ζGr. ένδον, within, + πτερυγωτός, winged.] A superorder of insects whose wings, in the early stages, are developed within the body. It includes the Coleoptera, Diptera, Lepidoptera, endosmotic equivalent. See osmotic *equiva-

A genus of endopterygotic (en/dop-ter-i-go'tik), a. Pertaining to, or characteristic of, the Endoptery-

> endopterygotism (en/dop-ter-i-gō'tizm), n. development of wings in the early stages within the body, as with the Endopterygota.

> We have no evidence that any Endopterygota existed amongst Palacozoic insects, so that the phenomena of endopterygotism are comparatively recent.
>
> Encyc. Brit., XXIX, 502.

endopterygotous (en "dop-ter-i-gō 'tus), a. Pertaining to or having the characteristics of the Endonterugota.

endorachis (en-dor'a-kis), n. [Also endo-rhachis; < Gr. ἔνδον, within, + ράχις, spine.] The delicate membrane which lines the spinal

end-organ (end'ôr gan), n. In physiol., any specialized structure which forms the terminus of a path of nervous conduction: usually applied to the terminal organs at the periphery of the body.

The sensation which we isolate in the present experiment is the sensation whose peripheral end-organ is striped muscle, and whose stimulus is muscular contraction.

E. B. Titchener, Exper. Psychol., I. ii. 144.

endosarcode (en - dō - sār ' kōd), n. [Gr. ἔνδον, within, + σαρκώδης, σαρκοειδής, tleshy: see sar-code.] Same as endoplasm or endosarc.

endoscopy (en-dos'kō-pi), n. [Gr. ἐνδον, within, + -σκοπία, ζ σκοπεῖν, view.] Inspection of the interior of any eavity or canal of the body.

Therapeutic Gazette, Jan., 1999, p. S. Endosepsis (en-dō-sep'sis), n. [NL., & Gr. Endosepsis | Gazette | G ένδον, within, + σηψις, putrefaction.] excited by a poison formed within the organism: autotoxemia.

endosipho (en-dō-sī'fō), n. [NL., ζ Gr. ἐνδον, within, + σίφων, L. sipho, a pipe: see siphon.] In the extinct nautiloid cephalopods of the family Endoceratidæ, the contents of the ectosipho of the siphuncle as a whole.

endosipho-blade (en-dō-sī/fō-blād), n. [en-dosipho + blade.] In some of the extinct nautiloid cephalopods, as the Endoceratida, a membrane supporting the endosiphuncle and extending to the ectosipho.

endosiphocoleon (en[®]dō-sī-fō-kol'ē-on), n.; pl. endosiphocolea (-ā). [NL, ζ Gr. ἐνδον, within, + σίφων, pipe, + κολεός, sheath.] In some of the Silurian nautiloid cephalopods, as Endoceras, a flat, broad, conchiolinous tube extending from the protection of the blood of the control of the pipe of ing from the posterior end of the visceral sac (inclosed in the endosiphocone) toward the apex.

endosiphocone (en-dō-sī'fō-kōn), n. [NL., \langle Gr. $\dot{\epsilon}\nu\dot{\delta}o\nu$, within, $+\sigma\dot{\epsilon}\phi\omega\nu$, pipe, $+\kappa\ddot{\omega}\nu\sigma$, cone.] In paleon., the posterior conical continuation of the endosiphocylinder of the siphunele of certain Paleozoic Nautiloidea (Endoceratidæ). endosiphocylinder (en dō-sī-fō-sil'in-dèr), n.

[Gr. ενδον, within, + σίφων, a siphon, + κύλινδρος, a cylinder.] In some of the extinct nautiloid cephalopods (Endoceratida), a calcareous cylinder lining the anterior and wider part of the siphuncular tube.

endosiphofunicle (en "dō-sī-fō-fū'ni-kl), n. [NL., endosipho + L. funiculus, a little rope.] In certain extinct nautiloid cephalopods (Piloceras), one of the supporting cords which extend from the endosiphuncular structures to the ectosipho.

endosipho-sheath (en-d \bar{o} -s \bar{i} 'f \bar{o} -sh \bar{e} th), n. cndosipho + E. sheath.] In some of the Silurian cephalopods (Endoceratida), the membranous wall of the endosiphocone which becomes hardened by deposition of lime carbonate.

endosiphotube (en-dō-sī'fō-tūb), n. [Gr. $\dot{\epsilon}\nu\dot{\phi}o\nu$, within, + $\sigma\dot{\epsilon}\phi\omega\nu$, pipe, + L. tubus, tube.] See *endosiphuncle.

endosiphuncle (en-dō-sī'fung-kl), n. [Gr. ἐνδον, within, + NL. siphunculus, dim. of L. sipho, pipe.] An axial tube in the fossil nautiloid Cephalopoda, passing through the center of the siphuncle in forms with endosiphuncular organic deposits. Same as prosiphon, endosiphon, and *endosiphotube.

endosiphuncular (en/dō-sī-fung 'kū-lär), Situated within the siphuncle.

endosmosic (en-dos-mô'sik), a. An erroneous form for endosmotic.

endopterygote (en-dop-ter'i-gōt), a. and n. Endosphæraceæ (en #dō -sfē -rā' sē -ē), n. pl. I. a. Of or belonging to the superorder Endopterygota. [NL., \langle Gr. $\dot{\epsilon}\nu\dot{\delta}o\nu$, within, $\dot{+}$ Sphæraceæ.] A subfamily of the Protococcacæ, (which see). Endospora (en-dos'pō-rā), n. pl. [Gr. $\dot{\epsilon}\nu\dot{\delta}o\nu$, within, $\dot{+}$ $\sigma\pi\rho\rho\dot{a}$, seed (spore).] A group of

Sporozoa in which the spore-formation goes on during the growth of the trophozoite, and the spore mother-cells or pansporoblasts are cut off in the interior of the body. It includes the Myxosporidia, Sarcosporidia, and the Haplosporidia. Compare *Ectospora. Mesnil.

endosternitic (en/dō-ster-nit'ik), a. Of or pertaining to an endosternite.

endosternum (en-dō-stèr'num), n. [Nl., ζ Gr. ἐνόον, within, + στέρνον, breast-bone: see sternum.] Same as entosternum.

endostitis (cn-dos-ti'tis), n. [NL.. < endosteum + -itis.] Inflammation of the endosteum.

+ dis.] Inflammation of the endosteum. endotheliolysin (en-dō-thē-li-ol'i-sin), n. [en-dothelium + lysm.] A lysin, belonging to the class of cytotoxins, which causes the destruction of vascular endothelial cells, leading to the extravasation of blood. Also termed hemorrhagin.

endotheliolytic (en-dō-thē//hi-ō-lit'ik), a. Of or pertaining to an endotheliolysin: noting the action of an endotheliolysin.

The agglutinative hemolytic and endotheliolytic action of the blood serum. Jour. Med. Research, Oct., 1904, p. 359.

endotheliotoxin (en-do-the "li-o-tok'sin). n. [endothelium + toxin.] The antibody which results on immunization with endothelial cells.

Also endotheliolysin.

endotherm (en' dō-therm), n. [Gr. ἐνδον, within, + θέρμη, heat.] In chem., a compound substance in the formation of which from its constituents energy is absorbed, and in its decomposition energy (usually heat) is evolved.

Endothiodon (en-dō-thī'ō-don), n. [Gr. ἐνδοθι, within, + ὁδοίς (ὁδοντ-) tooth.] A genus of anomodont reptiles, comprising large animals

from the Karoo formation of South Africa, characterized by their palatal teeth, elongated muzzle, and terminal nares overhung by great nasalia endothiodont (en-dō-thī'ō-dont), a. Related

to or having the characters of *Endothiodon*. endothrix (en'dō-thriks), n. [Gr. $\dot{\epsilon}v\delta ov$, within, $+\theta \rho \dot{\epsilon}\dot{\epsilon}$, hair.] That form of the fungus eausing

tinea or ringworm which produces its myce-lium and spores within the shaft of the affected hairs.

endotoxin (en-dō-tok'sin), n. [Gr. &voov, within, + E. toxin.] A toxic substance set free during the process of bacteriolysis by means of immune sera against which the animal body does not appear to be capable of producing an antitoxin. These specific toxins are only liberated after or during the destruction of the microorganism.

endotrachea (en-dō-trā-kē'ä), n.; pl. endotracheæ (-ē). [NL., < Gr. ἐνδον, within, + τραχεία, trachea.] The inner layer of the tracheæ of insects. It consists of a membrane, part of which is thickened in such a way as to form chitinous transverse bands or a spiral strengthening which serves to hold the tube open. A. S. Packard, Text-book of Entom., pp. 432, 448.

endotrypsin (en-dō-trip'sin), n. [Gr. &voov, within, + E. trypsin.] An intracellular proteolytic ferment having the general character of trypsin.

endotryptase (en-dō-trip'tās), n. [Gr. ένδον, within, + E. tryptase.] An intracellular proteolytic ferment which has been found in yeast and which is capable of digesting and destroying zymase. Nature, Aug. 27, 1903, p. 385

endovasculitis (en-dō-vas-kū-lī'tis), n. [NL., ζ Gr. ἐνδον, within, + L. vasculum, vessel, +

itis.] Same as *endangiitis. Endozoa (en-dō-zō'ā), n. [NL., < Gr. ἐνδον, within, +ζφον, animal.] Same as Entozoa. endozoic (en-dō-zō'ik), a. Same as entozoic. end-point (end-point'), n. 1. In analyt, chem.,

the point at which a chemical reaction is completed without excess of either reagent. The pleted without excess of either reagent. The end-point is commonly determined by means of an indicator: for instance, when the amount of an alkali is to be determined by measuring the amount of acid required to neutralize it, litmus may be the indicator, and the end-point is known by the change of color of the litmus.

2. In function-theory, of an interval or path from x_0 to x, either of the points x_0 , x. Also called end-value, of the path.

end-port (end'port), n. In mach.: (a) The opening at either end of the face of the valve-

opening at either end of the face of the valveseat of a steam-engine, or the traverse of thevalve thereon, through which steam is admitted alternately to the erank-end and to the head-end of the cylinder. (b) In gas-engines, an opening through the wall of the cylinder which is uncovered by the travel of the piston just as it reaches the end of its stroke. Such. end-ports release the exhaust gases at the end of the stroke, particularly in the two-phase evele type of engine.

end-product (end'prod-nkt), n. The substance finally produced as a result of a series of chemical reactions.

end-reaction (end-re-ak'shon), n. In chem., a reaction easily recognized by the senses, as by a change of color, and which takes place only when some other reaction has been completed, thus serving to indicate that this latter is at an end. Thus, if a little yellow potassium obromate is added to a solution of sodium chlorid, and then a solution of silver nitrate is gradually dropped in, as soon as the precipitation of the chlorio as silver chlorid is complete a permanent red color makes its appearance, due to the formation of silver chromate.

end-rib (end'rib). In organ-building, the board

forming one end of a wind-chest.

end-stopped, end-stopt (end'stopt). a. Having a break or pause at the end of the line: applied to poetry.

At first Shakspere has his breaks and pauses at the end of the line—the verse is 'end-stopt'; gradually he more and more found pleasure in carrying on the sense from one line to another without a pause at the end of the line—the verse is 'rnn on,' and the hreaks and pauses occur with great frequency in some part of the line other than the end.

Dowden, Shakspere Primer, p. 39.

end-thrust (end'thrust). n. The push exerted end-thrust (end'thrust), n. The push exerted through the axis of a shaft in transmitting power, or in resisting the action of weights. In marine engines the propeller tends to force the shaft inboard by a force equal to that by which the boat is propelled; in driving through bevel gears the pressure is oblique to the teeth and causes end-thrust on both shafts; in vertical shafts, the weight of machinery (and perhaps the load) forces the shaft downward. The end-thrust is resisted by some form of thrust-bearing or by a ball bearing.

end-value (end'val"ū), n. 1. In the calculus, an upper or a lower limit. Thus in $\int_a^{\infty} f(x) dx$, the numbers a and b are the end-values of x. -2. In function-theory. Same as *end-point, 2.

end-wool (end'wul), n. Parts of a fleece of wool which are of little or no value

energesis (en-ėr-je'sis), n. [NL., ζ Gr, ἐνεργείν, be in action, show energy: see energy.) In reg. physiol., a term proposed by Professor Charles R. Barnes "to designate the disruptive processos by which energy is released." It has eesses by which energy is released." It has heretofore been included in respiration. See respiration, 4.

It will at least do no harm to propose that the terms seroble and anaerobic energesis be considered, to which fermentative energesis may be added if necessary.

C. R. Barnes, in Science, Feb. 17, 1905, p. 252.

energetic, a. 2. In phys., of or pertaining to energy or to the science of energeties.

It is used to find equations of motion from energetic ata. Nature, Jan. 29, 1903, p. 297.

energid (en'er-jid), n. [Gr. $\dot{\epsilon}\nu\epsilon\rho\gamma\delta\varsigma$, at work (see energy), + -id².] In biol., the cell-nucleus together with the cytoplasm which it influences or dominates: almost synonymous with cell. except that it does not include such structures

as the wall of the plant-cell. Sachs, 1892.

energism (en'er-jizm), n. [G. and NL. energismus; as energ-y + -ism.] Any theory Any theory of ethics which makes the summum benum to eonsist, not in the excitement of particular feelings, but in a particular state of mind considered as an activity. The term originated with F. Paulsen, and is employed by Thilly and other of Paulsen's disciples. The distinction upon which the definition turns is not between an external fact and an internal fact, nor between the state of mind of society and that of the moral agent himself, but is rather partly between a state which modifies all others and a possibly transient state, and partly between a state of mind regarded as a fact in itself and a state of mind regarded as a seeming, that is, as a sort of sign, possibly deceptive, of another state of mind. Perfectlonism seems to be nearly coextensive with the principal kind of energism. **Energopoda** (eu-ér-gop 'ō-dā), n. pl. [NIL, \langle Gr. $\varepsilon \nu \varepsilon \rho \rangle \delta \varepsilon$, active, $+ \pi o \delta \varepsilon$ ($\pi o \delta$), foot.] A superfamily of dipterous insects, in the classification feelings, but in a particular state of mind

family of dipterous insects, in the classification of Brauer, containing the families Asilida, Doliehopodidæ, Empidæ, Lonehopteridæ, and

(doubtfully) Phocidæ.

(doubtfully) Phocidæ.

energy, n.—Angular energy, the kinetic energy of rotation; the product of the moment of inertia of a rotating body into one half of its asgular velocity.—Apparent energy, in elect. Same as apparent *poeer.—Available energy, in thermodynam., that part of the energy of a system which can be employed for mechanical purposes.

J. W. Gibbs.—Bound energy, in thermodynam, the change of total energy, in an isothermal process, minus the change of free energy occurring in that process.—Condensational energy, energy stored in a medium as the result of work done in condensing or compressing it.—Curve of energy. See *curve.—Degradation of energy. See *degradation.—Doctrine of the dissipation of energy, the doctrine that in the processes of nature there is a tendency for energy to be converted into unavailable forms, so that while the total energy of the

From a theoretical point of view, it would be preferable if we would not base our calculation on the thermochemical value of the heat of reaction, but on Helmholtz's "free energy" of the reaction.

Electrochem. Industry, June, 1904, p. 213.

Intrinsic energy, the interval energy of a body or sys tem, due to its configuration, position and motion, or to the motion of its parts, as measured by the work it is capable of doing without the introduction of energy from other bodies.—Law, principle, or theory of specific nervous energy, in neurol., the doctrine that every sen-sory nerve is specific in function, so that, however stimu-lated or connected, it can, or could, mediate only such sensations as it gives rise to under normal conditions

In opposition to the principle of indifference of function, it is generally held, at the present time, that the law of specific energy, as it is termed, is an especially valuable asset of modern nerve and sense physiology. Nevertheless, the history of the law shows a gradual regression.

W. Wundt (trans.), Physiol. Psychol., I. 330. gression.

gression. W. Wundt (trans.), Physiol. Psychol., I. 330.

Law of equipartition of energy, the Boltzmaon-Maxwell law for the partition of energy in a gas; the law that in a gas the distribution of coergy will be such that every mode of vibration of its particles is equally favored.—Radial energy. Same as radiant energy. [Rare.]—Strain-energy method. See *strain!.—Thermal energy, that form of energy which manifests itself as heat; the lower form of energy into which the higher forms (kinetic energy, potential energy, etc.) tend to degenerate, and which is only in part recoverable into more available forms.—Traction energy. Same as tractive *effort.—Translatory energy, kinetic energy due to the motion of translation of a body or particle.

energy-meter (en'e'r-i'-i-ne⁶t'e'r). n. An appaenergy-meter (en'èr-ji-më"tèr), n. An appafor measuring and usually also for re-

eording the passage of power or energy through it. It records both the quantity of force and the time through which this force has been exerted: used in the sale of electric current to consumers and to determine expenditure of mechanical energy. enface (en-fas'), v. t.; pret. and pp. enfaced, ppr. enfacing. [en-1 + face (after endorse).]
To write, print, or stamp some mark or form of words on or across the face of (a note,

bond, certificate, map, or the like).—Enfaced paper, the name given to the bonds or certificates of certain India loans: so called because they are marked on the top, bottom, and left margins by a broad band impressed upon them from an enchased copperplate. Bithell, Counting-house Dict.

enfacement (en-fas'ment), n. [enface + -ment.] The mark or form of words written, printed or stamped on or across the face of a bond or note, etc.: such as "interest payable in London," or the like.

enfilade, n. Milit., (b) An infantry or artillery fire which sweeps a line of works or men from flank to flank.

enfranchise, v. t. 5. The feudal law, to free from the obligations of feudal tenure, as to

convert a copyhold estate into a freehold.

engage, r. t. 9. In construction, to fasten or
let into a wall for support, as to secure a
column to a wall. See engaged column, under column.

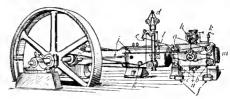
engagement ring. See *ring1. engarb (en-gärb'), v. t. [en-1 + garb.] To dress; attire; garb.

engastration (en-gas-trā' shon), n. [Gr. $\ell \nu$, in, $+ \gamma a \sigma \tau \dot{\eta} \rho$ ($\gamma a \sigma \tau \rho$ -), belly, + -a t i o n.] The placing of a fewl, as a stuffing, inside another fewl.

engenderment (en-jen'der-ment), n. [engender + -ment.] The act of engendering, procreating, or reproducing.

engin, n, and v. t. A simplified spelling of

universe remains constant in amount the proportion of it that is available for the production of work is continually diminishing. See correlation of energies.—Electro-chemical energy, in phys. chem., either electrical energy when it performs chemical work, or chemical energy when it is manifested as electrical energy.—Energy electroemotive force. See *electromotive.—Energy surface, that one of the themodynamic surfaces which has for its counted in the first such in the hot steam will impart heat and therefore greater ensoints that one defines the direction in which energy shall be transferred in the case of a given body, while their product defines the whole quantity of energy product defines the whole quantity of energy possessed by the body. The first factor is called the intensity-factor, the second the capacity-factor. If a small vessel of water its suspended in a larger, our knowledge of the whole energy of heat contained in the two masses of water, we know the direction in which the transferred. If, however, we know the direction in which the transferred in the two masses of water, we know the capacity-factor on the mass of the water. For volume-energy, as of steam or compressed air, the intensity-factor on the mass of the water. For volume-energy, as of steam or compressed air, the intensity-factor of the steam or air.—Free energy, in thermodynamic system whose diminition determines the maximum work which the system and the expacity-factor on the steam, or air.—Free energy in thermodynamic system whose diminition determines the maximum work which cannot be transformed into external work, Helmholtz to that part of the intensity-factor on the steam, or air.—Free energy in thermodynamic system whose diminition determines the maximum work which cannot be transformed into external work, Helmholtz to that part of the intensity-factor on the mass of the water decendence in the capacity-factor on the mass of the water decendence in the capacity-factor on the mass of the water decendence in the motor energy in t since it rejects its fluid at a lower temperature: and the discharge of condensed steam and warmed injection-water gives the boiler a supply of pre-heated feed-water.—Cerliss engine, a fon-valve engine having cylindrical rock-

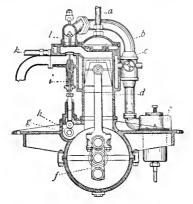


Corliss Engine.

Corliss Engine.

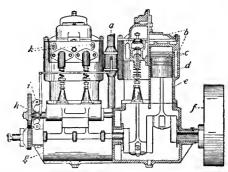
a, steam inlet-valves; \(\delta\), exhaust outlet-valves; \(\epsilon\), wrist-plate actuating the four valves; \(\delta\), governor controlling point of release or trip of valves \(\alpha\). \(\delta\), rods from governor to tripping-flatches or -levers; \(\epsilon\), dash-pots acting as air-springs to close \(\alpha\) quickly and by compression of air prevent shock in closure; \(\alpha\), either resting on governor driving-belt and by its weight-forcing the arms and balls up in the governor-belt breaks or runs-off: \(\alpha\), hand-control throtte-valve in the pipe from boller; \(\delta\), rolls from eccentric causing wrist-plate \(\epsilon\) to oscillate; \(\delta\), oil-pump to force lubricant at intervals into cylinder and valve casings; \(\delta\), dash-pot to diminish oscillation of the governor-bulls, or the "hunting" of the governor up and down its spirifle; \(\mu\), over or head of the steam-cylinder; \(\eta\), outlet for exhaust-pipe.

ing-valves to open and close the ports alternately. The inlet- and exhaust-valve being separate, the latter are opened to their full extent at each stroke, while the former are opened only so much as the governor permits. All the valves are actuated from a disk or wrist-plate which receives motion from the eccentric, though the inlet-valves are disconnected from this plate by a trip and closed by a dash-pot. The advantages of the Corliss engine are the small clearance spaces, the large port areas, and the sharp cut-off; the latter easily variable by the governor through a wide range as the load varies, while the point of release of exhaust and the point of cloaure which causes compression are constant. The eogine was promoted by George II. Corliss of Providence, Rhode Island.—Coupled engine. (a) A duplex or twin engine, two cylinders actiog through their mechanism on one crant-pin or on one revolving shaft. (b) A locomotive which has two or more pairs of driving-wheels coupled together by side or parallel rods.—Diagonal engine, an engine so set that the direction of the piston's travel is neither horizontal nor vertical; an inclined engine,—Explosion engine, internal-combustion engine so named because early forms of the internal-combustion motor used mixtures of gas and air which were explosive and detonated when set on fire. The modern engine, with compression, does not detonate, but a true ignition takes place at constant volume, and little or no noise is andible aside from that due to the power. When the ignition takes place outside the cylinder, and without doing work against the piston, the free expansion of the same mixture is compression, does not detonate, but a true ignition takes place at constant volume, and little or no noise is andible aside from that due to the power. When the ignition takes place outside the cylinder, and without doing work against the piston, the free expansion of the same mixture is noisy, because the air receives the inpact of the expanding gases.—Fan engine, an ecgioe which drives a fan or rotary blower, usually directly connected on the common revolving shaft.—Hot-water engine. Same as fireless becomotive. See becomotive.—Hydro-oil engine, an internal-combustion engine in which water in equal quantities to that of the oil which constitutes the fuel is drawn into the cylinder on the aspiration stroke. The water is atomized by the air which enters to furnish oxygen for combustion, and a complete mechanical onixture of water and oil-vapor is onade. On ignition the water-vapor becomes steam, tending to keep down the teoperature and pressure of the mixture and to absorb heat during expansion. The presence of the water-vapor diminishes the volume of fuel-vapor in a given cylinder, and diminishes the dauger of pre-ignition on compression. The principle is specially adapted to the use of crude petroleum as fuel, since the retarded combustion and lower temperatures mitigate mechanical difficulties from the varying volatility of the elements in unrefined oil.—Inside-connected engine, a locomotive in which the driving mechanism is so constructed that the crunks are formed in the driving axles of the front pair of wheels and therefore come within the frames. The cylinders are also between the frames, under the smoke-box. This type was much used in Europe and was followed in early American practice, but the greater convenience and accessibility for adjustment and repair of the outside-connected type soon made this latter form standard in the United States.—Internal-combustion engine, any engine in which the pressure for driving the piston is obtained by burning



Internal-combustion Engine (sectional view).

a, water-outlet; b, vapor-pipe; c, throttle-valve; d, connecting rod; e, carbureter; f, crank-shaft; g, cam-shaft; h, cam; i, exhaust valve; k, water-inlet; l, induction-valve.



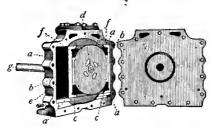
Internal-combustion Engine (side view)

a, inlet pipe for fuel mixture; b, water-jacket; c, piston-rings; d, piston; ι, cylinder; f, fly-wheel; g, base-chamber; h, half-speed wheel; ι, governor-gear; k, holes for sparking-plugs.

or exploding a mixture of oxygen and fuel in the cylinder of the engine, as in a gas-, gasolene, or oil-engine. See *motor and *cycle.—Inverted-cylinder engine, a vertical engine having an inverted cylinder. From its use, also called the steam-hammer pattern. Most marine screw-engines are now built in this way.—Liquid-fuel engine, an internal-combustion engine which uses a liquid, such as gasolene, for fuel, as distinguished from an engine which uses gas or a solid for fuel.—Multicylinder engine, an engine having more than two steam-cylinders.—Nigger engine, an engine intended for rough and heavy work out of doors or in exposed places where little care can be taken of it. It is usually cheaply made, and without finish or polished surfaces except where unavoidable.—Outside-connected engine, the usual American form of simple locomotive engine, in which the cylinders are outside of the frames, and their pistons are connected by rods, also ontside the frames, to pins outside of the driving-wheels.—Quadrant engine, a form of steam-engine mechanism in which the piston was rectangular in shape and was pivoted on one edge which coincided with the axis of a geometric cylinder. The opposite edge was free to move through an arc of such cylinder, which was usually a quadrant or 90°. The other two edges fitted the two heads steam-tight, and the piston oscillated through 90° as the steam was admitted alternately on its opposite faces. The motion was transmitted through connecting-rods from the axis by means of vibrating arms which worked like half-beams of a beam-engine.—Quarter-crank engine, an engine in which the angle between the cranks, which work in paira, is 90°, or a quarter of the complete circle. Locomotives are made with their cranks quartered, so as to have one cylinder always at its most advantageous crank-angle when the other is at or near its dead-center. Blowing or compressing engines are often similarly designed, with one cylinder laways at its most advantageous crank-pile. Then the maximum resistance of the or exploding a mixture of oxygen and fuel in the cylinder

piece receiving its compression in a pass when being passed back over the top of the middle roll. For heavy and massive sections, such as an ingot or bloom, the lifting of the piece requires a mechanical lifting table, but to install this diminishes the labor cost while increasing only the first cost and repair-account. The reversing engine will be more approved when the rolls are of large diameter. In England such reversing engines were often geared to the rolls, perhaps three to one, and were reversed by a Stephenson or Joy link-motion operated by a stephenson or Joy link-motion of two-cylinder design, simple or compound, with cranks quartering, or at 90 degrees apart.—Rotative engine, a term commonly used in specifications to distinguish the ordinary engine with comecting-rod and crank from an engine in which the reciprocating movement is not converted into circular motion, as in pumps of the direct-acting type.—Saddle-tank engine. Same as saddle-tank locomotive.—Series-expansion engine, a compound or multiple-expansion engine, a compound for multiple-expansion engine in which the steam expands in steps or stages in a series of cylinders.—Side-beam engine, a form of beam-or lever-engine in which the working-beam is placed at the side of the vertical cylinder instead of above it, as is more common. For symmetry of the stresses there are usually two of these side-beams, one on each side of the cylinder. This form of engine was once used widely for side-wheel warvessels, but it is now out of use.—Simple engine, a form of engine was once used widely for side-wheel warvessels, but it is now out of use.—Simple engine, a form of the engine, which consists of a pair of quarter-spheres hinged to a disk along diameters at right angles with each other, and inc

426



Square Engine.

a, exterior casing of the steam-cylinder; b, b, first piston, sliding horizontally in casing a: c, c, second piston, sliding vertically in piston b: a, crank-pin, receiving motion from the combined effort of b and c: c, space receiving steam to impel b: f, space receiving steam to impel c: f, shaft to take off the power.

of the piston is equal to the diameter of the cylinder. (b) A form of engine in which the crank is driven by the pressure on two rectangular pistons, the second of which traveraes in a suitable recess in the first. This double motion enables the pistons to follow the angular displacement of the crank without the use of connecting-rods, and gives a square section to the case irclosing the two pistons.—Sulphur-dioxid engine, an engine in which the vapor of sulphur-dioxid engine, an engine in which the vapor of sulphur-dioxid (802) is used in place of the vapor of water. This is done for the purpose of utilizing the low boiling-temperature of 802 and perhaps its smaller cylinder-condensation at the temperatures at which it is operated. But the material has to be purchased or manufactured, and its odor is objectionable, while no economy in its use has been demonstrated.—Surgical engine, an apparatus similar to the dental engine, used by surgeons in certain operations on bone.—Tangye engine, an engine having a bed-plate of the design flist proposed by C. T. Porter, of the United States, and adopted in England by Tangye Brothers. The cylinder is overinung at the back end of the bed to allow of free expansion by heat, and the front part curves downward in front of the cylinder to carry the guides and give free play to the sway of the connecting-rod. The bed-plate thus consists of two parts only, and the metal is disposed so as to give rigidity and mass and present a pleasing effect to the eye by its lines.—Thermodynamic engine, an engine which derives its motive power from rise in temperature or increase and diminution of intrinsic or heat energy in the medium which it employs: applied to hot-air and gas-engines, often to distinguish them from steam-engines, although by strict definition the last belong also in the same class.—Three-cylinder engine, an engine designed to proper twin screws, one on each side of the keel of a vessel. Such an engine is usually, in effect, two engine, so that each screw and shaft may be d

Many small gas-engines are built on this plan, as by it each cylinder gives an impulse to the crank for each revolution of the latter, while in the four-cycle engine two revolutions take place for each impulse. In the form shown, the working piston acts the form shown, the working piston aets as a valve and no others are required. The piston uncovers the exhaust outlet at the end of the stroke before it uncovers the inlet port leading from the combustible mixture. The return of the piston compresses The return of the piston compresses the charge, and the Igniter fires it. See internal combustion *motor.—Vacuum-engine*, an engine in which the power in the cylinder results from the presence, on the negative side of the cylinder, of a tension of vapor less than that of the atmosphere, while on the positive or pressure above the atmosphere alone, atmosphere alone, atmosphere alone, atmosphere and the compression of the atmosphere alone, atmosphere alone, atmosphere alone, atmosphere and the internal compression and the atmosphere alone, atmosphere, at

Two-cycle Engine.

a, working-end ofcylinder; \(\ella, \) inclosed crank-case filled with slightly compressed apprated and combustible mixture of air and gasified fuel; \(\ella, \) working-piston; \(\ella, \) inlet-port for mixture from crank-case; \(\ella, \) igniter, or spark-plug; \(\ella, \) f, exhaust-port and pipe; \(\ella, \) inlet for air and fuel; \(\ella, \) defector to prevent inlet mixture from crossing over to exhaust-port before the piston has closed the latter on its return stroke; \(\ella, \) connecting-rod; \(\ella, \) crank and crank-shaft.

above the atmosher orossing over to exhaust-port before the piston has closed the latter on its return atmosphere alone, stroke; f., connecting-rod; k., crask and its exerted. Hence crank-shaft. the power comes from the vacuum or absence of pressure opposed to the motion of the piston. Very low pressure condensing steam-engines would be of this class, but modern engines have always the positive pressure much above the atmosphere. The Newcomen atmospheric engine was of this type.—Vibrating-piston engine, an engine whose reetangular piston is free to move around a fixed hinge-joint on one of its sides, so that the piston moves in its casing as a door swings upon its hinges. It is no longer used. See quadrant *engine.

—Waste-heat engine, an engine which utilizes as a source of heat the discharge of a primary motor. In such engines steam may be made by conducting the hot exhaust discharge of gas-engines under a boiler; or the waste heat of the boiler-furnace gases may be used to superheat and mix with the steam from the boiler; or the exhaust from a large-engine at high pressure may be used to operate a second smaller engine with a lower pressure-range.—Wollaston's engine at the discharge of illustrate the expansive force of steam.

engine-cycle (en'jin-sī'kl), n. The various phases attending one complete revolution of

Two-cycle Engine,



engine-cycle (en'jin-sī'kl), n. The various phases attending one complete revolution of the crank of an engine, including admission, expansion, exhaust, and compression. In some engines, particularly gas-engines, two revolutions are sometimes needed for a complete cycle. See *cycle.

engines, particularly gas-engines, two revolutions are sometimes needed for a complete cycle. See *cycle.

engineer, n.— Cadet engineer, formerly the title of a student at the United States Naval Academy who entered the corps of engineer officers of the navy: now abolished.—Chemical Engineer, a degree given to graduates of a technical or engineering school for special knowledge of the scientific laws and the rules of practice concerned with the manufacture of chemical products. Abbreviated Ch. E.—Civil engineer, (a) See engineer, 1.

(b) The title of an officer of the corps of civil engineers of the United States Navy. See *corps2.—Forest Engineer, a degree given for a course in the study of forestry. Abbreviated F. E.—Hydrographic, engineer, (a) An engineer skilled in hydrography; a hydrographer. (b) An official grade of governmental engineering officers in some countries, as in France.—Sanitary engineer, an engineer skilled in the relation (and application) of the principles of public sanitation to engineering works and public improvements; one who is competent to design, construct, and operate public works as adds to public sanitation.—Topographic engineer, an engineer skilled in topographic surveying and mapping; a topographer.—Traveling engineer, an expert locomotive engineer sent out by railroad companies to inspect the locomotives and to instruct engine-drivers and firemen in their duties.

to instruct engine-drivera and firemen in their duties.

engineering, n.—Agricultural engineering. See rural *engineering.—Chemical engineering, a department of manufacturing in which the productive processes are chemical reactions, or depend upon the laws of chemistry,—Dynamic engineering. See engineering.—Rural or agricultural engineering, the science and the art of producing and maintaining a farming plant, including the laying out of the farm, fencing, drainage, irrigation, the construction of buildings, and the provision of machinery, also the construction and care of roads.—Sanitary engineering, that division of civil engineering which deals with the relation (and application) of the principles of public sanitation to engineering works and public improvements.—Steam engineering, that department of engineering which deals with the generation and distribution of energy by means of steam-power.—Topographical engineering. Same as topographical surveying (which see, under surveying).

engine-frame (en'jin-frām), n. The structure

which connects, or ties together, the various parts of an engine. It is usually a heavy iron casting connecting the cylinder to the shaft-journals and supporting the weight of practically all the parts of the engine.

engine-pit (en'jin-pit), n. A cleaning-pit; a pit made between the rails of a railroad-track to allow room for partition and a railroad-track

to allow room for getting underneath a locometive to clean or repair it. The pits are usually as wide as the distance between the tracks

permits, and about 3 feet deep.
engine-stop (en'jin-stop), n. A device for closing, either automatically or by hand, the steamrug, either automatically or by hand, the steam-valve of an engine in case of accident. One form consists of a falling weight with an electrical release which may be operated automatically, if the engine runs too fast, from the breakage or loss of the governor-belt, or may be operated from any one of a number of stations in case of

an accident in a remote part of the works.

engine-telegraph (en'jin-tel"ē-grāf), n. An apparatus used in large steam-vessels to send apparatus used in large steam-vessels to send signals from the bridge or other station of the executive officers to the engine-room. One disl is placed at the transmitting and another at the receiving end. A pointer on each dial is actuated by an operating handle at the other instrument. The connection between them is made by chains and wires, or is electric or pneumatic. The right-hand half of the dial is for orders ahead, and the left hand for orders astern. The usual arrangement is to place the order 'Stop' in the center, and others are 'Stand by,' 'Quarter-speed,' 'Half-speed,' 'Full-speed' (ahead or astern as the case may be). The telegraph is also connected with a bell-sounding device.

englacial (en-glā'shial), a. [en- + glacial.] Being within a glacier: used, in geol., with reference to detritus earried within the ice of a glacier or ice-sheet: as, englacial drift.

a glacter of ree-sheet: as, englacial attrict.

The water which descended into the ice from its surface through crevasses, or through smaller cracks or pores, had a various course. It is possible that it was sometimes concentrated into streams which had longer or shorter courses within the ice itself. On one of the Aiaskan glaciers at the present time, an englacial stream appears at the surface of the ice, issuing from an ice tunnel, pursues a superglacial course for a short distance, and plunges again beneath an ice arch and pursues for an undetermined distance an englacial course.

R. D. Salisbury, Geol. Surv. of New Jersey, 1891, p. 87.

Englander, n.—Little Englander, in recent English politics, an opponent of colonial extension or of territorial aggrandizement.

Englerophoenix (eng'lér-ō-fē'niks), n. [NL. (Kuntze, 1891), < G. Engler (Adolph Engler, director of the Berlin Botanical Garden) + Gr. φοῖνιξ, palm.] A genus of palms. Maximiliana.

English, I. a.—English cholera. See *cholera.— English schools of painting, See *painting.—English yellow. See *yellow.

II. n.— Reverse English, in billiards, a stroke which twists the cue-ball on the side opposite to the direction in which it should go after taking the first

enshion.

englobe (en-glob'), v. t.; pret. and pp. englobed,
ppr. englobing. [en-+ globe.] 1. To inclose
as in a globe: as, "youthful energy englobed
within the bosom of the young." See inglobe.

-2. Specifically, to absorb or take within
the substance of a white blood-globule, amœba, or other single-celled body.

Red blood corpuscies are often englobed by this amœba [in amœbic dysentery], as are also micrococci and bacilli.

Encyc. Brit., XXXI. 536.

englobement (en-glob'ment), n. [englobe + ment.] The process of englobing.

It is difficult to explain this difference except on the ground that the englobement of parasites in the liver is more active at certain periods of the cycle, or occurs intermittently, and that the destruction of englobed parasites may be completed very rapidly, 1. e. within a few hours.

**Jour. Exper. Med., Feb. 5, 1902, p. 155.

englyn (en'glin), n. [Also englin, < W. englyn, pl. englynion.] In Welsh poetry, a stanza (new always a quatrain) of a certain metrical structure. N. E. D. engouement, engoument (än-gö-men'), n. [F.,

\[
 \left(\text{engouer}, \text{ be choked in gorging.} \]
 Infatuation;
 \[
 \text{an unreasoning fendness.} \]

The young lady . . . had never received kindness except from this old spinster and her brother and father: and she repaid Miss Crawley's engoûment by artiess sweetness and friendship.

Thackeray, Vanity Fair, xxxiv.

engr. An abbreviation of engraving.
engraver, n. 2. A tool used in engraving;
a triangular red of steel, of different widths, with a plow-shaped point, pushed forward to make a furrow on the surface of wood or

metal that is being engraved. engraver-beetle (en-grā'ver-bē"tl), n. Any beetle of the family Scolytidæ. Also called

bark-beetle.

engraving, n. The taking of impressions from raised or incised seals has always been practised by civilized people. The goldsmiths of the Middle Ages and Renaissance in Europe used engraving in the decoration of their work, and were accustomed to take impressions.

sions from their designs. Such impressions have been traced to the twelfth century. Among the earliest examples of engraving, properly so called, on metal are about three hundred prints in the dotted style (manière cribiée) in which black spots are relieved against white and white spots against black, which date from about 1450 A.D. The practice of engraving was encouraged by the use of niello in the decoration of metals. (See niello.) Undoubtedly frequent impressions were taken from niello designs. For making plates to print upon paper, copper and later steel were substituted for other metals. Engraving on copper was extensively practised by the great artists of the Renaissance, as Pollajuolo, Mantegna, Botticelli, and Marcantonio Raimondi in Italy, and Martin Schonganer and Albert Dirier in Germany. In France engraving on copper found its first development in the illustration of hooks, as in the architectural series of Jacques 1. Androuet Du Cerceau. In the seventeenth century the largest development of engraving on metal, occurred about the powerful personalities of Rembrandt and Rubens. The influence of Rubens, especially, brought about the culmination of the art. After this period, engraving on copper and steel became universal throughout modern civilization. The special contribution of England to the art of engraving on metal was the development of mezzotint, which was, however, invented in Holland in the middle of the seventeenth century. Wood-engraving was brought perfection by the large school of German artists of the Renaissance grouped about the court of the Emperor Maximilian 1. The chief of them was Albert Dürer who may still be considered the greatest master of the Renaissance grouped about the court of the Emperor Maximilian 1. The chief of them was Albert Dürer who may still be considered the greatest master before the holds and the portions of the surface not touched by the painters of the quattrocento and cinquecento. The father of the modern art of wood-engraving is Thomas Bewick of Newcastle Such impressions have been sions from their designs.

engreen (en-grēn'), v. t. [en-1 + green.] To ever or clethe with green: as, to engreen the hills. J. S. Blackie.

engroove (en-gröv), v. t.; pret. and pp. engrooved, ppr. engrooving. [en-1 + groove.] 1. To fit into a groove. Tennyson. —2. To Channel: as, "a narrow glone engreened with slid.

intensify; that imparts added force: as, an enhancive sentence, or expression. Also enhan-

enhemospore (en-hem'ō-spōr), n. [Gr. $\dot{\epsilon}\nu$, in, + $al\mu a$, blood, + $\sigma\pi\sigma\rho\dot{a}$, seed (spore).] In the division of the malarial parasite within a red blood-corpusele, one of the nucleated segments into which the protoplasmic body of the parasite separates. On the breaking up of the corpuscle the segments are set free and then invade fresh corpuseles.

enhydritic (en-hī-drit'ik), a. [enhydrite + -ie.]

Of or pertaining to an enhydrite.

enjewel (en-jö'el), v. t.; pret. and pp. enjeweled, enjewelled, ppr. enjewelling, enjewelling. [en-1 + jewel.] To bejewel.

To lone lake that smlles. In its dream of deep rest, At the many star-isles That enjewel its breast.

Poe, Al Aaraaf, ii.

en l'air (on lar). [F.] In the air; unsupported: said of the flank of a line of battle which does not rest on an impassable obstacle. enlarge, v. t. 8. To cause (a horse) to spread his legs wider apart, so as to prevent him from interfering.

To enlarge your horse you should prick him with both heels, or sid him with the calves of your legs, and bear your hand outwards.

T. Wallis, Farrier's Dict.

To enlarge an estate, to give to the tenant of a particular estate another estate in the same property superior to that already held.—To enlarge the pocket.

enlife (en-lif'), v. t.; pret. and pp. enlifed, ppr. enlifing. [en-1 + life.] To impart life to; enliven.

What music slept enchanted in each stem,
Till Pan should choose some happy one of them,
And with wise lips enlife it through and through.

Lowell, Invita Minerva, st. 5.

enneacontahedral (en"ē-a-kon-ta-hē'dral), a. [enneacontahedron + -al.] Having 90 faces. enneacontahedron (en"ē-a-kon-ta-hē'dran), n.

ensellure [Gr. *ἐννεάκοντα, assumed form for the actual ένευ $\dot{\gamma}$ κοντα, ninety, + $\dot{\epsilon}\delta\rho a$, seat, base. [A polyhedron of 90 faces.

enneaeteric (en 'e-a-e-ter'ik), a. [Gr. ἐνναἐτηρος, nine years old, ζ ἔννέα, nine, + ἔτος, a year.] Containing or consisting of nine years: as, an

enneaeterie period. Grote.

Enneagynia (en ê-a-jin î-a), n. pl. [NL., Gr. ivvéa, nine, + viv, female (style).] In the Linnæan artificial system of botanical classification, an order in any of the first thirteen classes characterized by having flowers with

enneaphyllous (en-ē-af'i-lus). a. [Gr. ἐννέα, nine. + φίλλον, leat, + -ous.] Having nine leaflets: said of a compound leaf.

Enneapla (en «e-ap lä), n. [Gr. $\hat{\epsilon}vv\hat{\epsilon}a$, nine, + - $\pi\lambda \delta o_0$ (neut. pl. $-\pi\lambda \tilde{a}$), -fold. Cf. Hexapla.] An edition of the Old Testament ascribed to Origen, containing nine versions of the Scriptures

gen, containing nine versions of the Seriptures in parallel columns. Only a single reference is found to the work and there is doubt as to its existence.

ennearctic (en-ē-ārk/tik), a. [Gr. ἐν, in, + E. Nearctic.] Confined to the Nearctic region.

ennomoclon (e-nem'ō-klōn), n.; pl. eunomoclones (-klō'nez). [Gr. ἐννομος, lawful, regular, + κλών, a twig.] In the terminology of the spicular elements of the sponges, a four-rayed spicule, in which one arm is shortened and inspicule, in which one arm is shortened and inflated.

Enochic (e-nek'ik), a. [Enoch + -ic.] Of er pertaining to the patriarch Enoch, the seventh from Adam, whose alleged prophecies (as re-corded in the apocryphal Book of Enoch) are supposedly quoted in the Epistle of Jude, supposery quoted in the Episcie of Juley verse 14.—Enoche literature, the literature that has grown up around the apocryphal Book of Enoch, mentioned by the early Christian fathers and later writers, but first made definitely known in Europe through three copies of an Ethiopic version of it brought from Abyssinia by Bruce, the African traveler (1730–94), and translated into English in 1821.

enol (en'ōl), n. [Appar. fer *henol, < Gr. iç (ċr), one, +-ol.] One of several empeunds centaining the unsaturated alcoholic group—CH:COH—. These compounds pass more or less readily into the isomeric or tautomeric group—CH₂.CO—, which is called the ketone form.

enolic (e-nol'ik), a. Of or pertaining to an enol

enophite (en'ō-fīt), n. [Gr. έν, in, + όφις, sernel: as, "a narrow glen, engrooved with sliding water," R. D. Blackmore.

Enhanced line. See *line².

Enhancive (en-han'siv), a. [enhance + -ive.]

That tends or serves to enhance, heighten, or Enophrys (e-nef'ris), n. [NL., < Gr. iv, in, + -ive.]

Enophrys (e-nef'ris), n. [NL., < Gr. iv, in, + -ive.]

οφρύς, brow.] A genus of sculpins of the



Enophrys bison. (From Bull. 47, U. S. Nat. Museum.)

North Pacific, characterized by the long unbranched preopercular spine. E. bison is the buffale-sculpin of the Puget Sound region. enophthalmia (en-of-thal mia), n. [NL.] A

more correct form for enophthalmus. enoplan (en-op'lan), a. and n. I. a. Relating or pertaining to the Enopla.

or pertaining to the Enopla.

II. n. One of the Enopla.
enorganic (en-ôr-gan'ik), a. [Gr. ἐν, in, + δργανον, organ.] Existing as a permanent attribute of the organism.
en plein (oň plan). [F.] In roulette and other banking games, flat upon any number.
en prise (oň prēz). [F.] In ehess, in a position to be taken: as, a piece or pawn may be put or left en prise.

or left en prise.

enroll, v. t. 4. In law, to engress; to prepare in proper legal form; also, specifically, to make a legislative bill ready for the consideration of the Executive .- Enrolled bill. See *bill3.

ens. An abbreviation of ensign.

Ens legis (L., a being of the law), in law, a thing created by law, as a corporation.

ensanguin, v. t. A simplified spelling of en-

ensellure (an-se-lür'), n. [F., < enseller, saddle, < en, in, + selle, saddle: see sell².] In anthrop., a strongly marked curve of the dorselumbo-sacral region. Deniker, Races of Man,

ensemble, n.—Grand ensemble, in statistical mechanics, an ensemble of systems, in which the various systems are composed of particles of various kinds and in which the systems differ both in phase and in the number of particles which they contain.

enterprendict (en-tar-throt'ik), a. [Gr. ἐντός, within, + ἀρθρον, joint, + -ot-ic.] Same as interacticular.

enterprendiction (en-tar-throt'ik), a. [Gr. ἐντός, within, + ἀρθρον, joint, + -ot-ic.] Same as interacticular.

A grand ensemble is therefore composed of a multitude of petit ensembles. J. W. Gibbs, Statistical Mech., p. 190. Microcanonical ensemble, an ensemble of systems, in statistical equilibrium, such that all the systems have the

In a microcanonical ensemble of systems the energy (E) is constant, but the kinetic energy $(E_{\rm p})$ and the potential energy $(E_{\rm p})$ vary in the different systems. J. W. Gibbs, Statistical Mech., p. 116.

Petit ensemble, an ensemble of systems in which the systems differ only in phase. J. W. Gibbs.—Time ensemble, the "ensemble of phases through which a single system passes in the course of time." J. W. Gibbs, Statistical Mech., p. 169.

II. a. In music, same as concerted: as, an

ensemble passage or work.

ensepulcher, ensepulchre (en-sep'ul-ker), r. t.; pret. and pp. enseputchered, euseputchered, ppr. enseputchering, enseputchering. [en- + seputcher.] To entomb; bury, Pollok. ensient (en-si-ent'), a. In law, same as encount (which see

ceinte (which see).

cente (which see).

Ensign halyards. See *halyard.
ensign-fly (en'sin-fli"), n. Any parasitic hymenopterous insect of the family Evaniidæ. Comstock, Manual of Insects, p. 626.
ensilage, v. t. 2. To make into silage; to ensile.—3. To affect by feeding silage, as encilaged with

silaged milk.

The erops ensilaged should contain no more water than can be retained in the cells of the plant, etc.

M. Miles, Silos, Ensilage, and Silage, p. 80.

ensilage-cutter (en'si-laj-kut"er), n. A large power-machine having revolving cutters fed by hand, or by a self-acting feed-table that by hand, or by a self-acting feed-table that moves the corn-stalks, etc., to the cutters. Since silos are now lofty cylindrical bins placed above ground, ensilage-cutters are fitted with conveyers for delivering the cut ensilage at the top of the bins. These may be belt-and-bucket elevators of the ordinary type, or pneumatic conveyers, consisting of sheet-metal pipes through which the cut ensilage may be blown by a blast from a fan placed at the side or end of the cutter. These conveyers may be fixed in one position or pivoted at the bottom. Ensilage-cutters are sometimes fitted with splitting and shredding appliances for splitting corn-stalks and reducing the material more completely than is possible by cutting alone.

ble by cutting atone.

ensilate (en'si-lāt), v. t.; pret. and pp. ensilated, ppr. ensilating. [ensile + -ate².] To ensile. [Rare.] N. E. D.

ensilation (en-si-lā'shon), n. [ensile + -ation.]

The making into and preserving as silage. [Rare.]

The life of the plant under the restricting conditions of nsilation. Nature, Oct. 22, 1885, p. 606.

ensilist (en-si'list), n. [ensile + -ist.] One who constructs or uses silos for the storing of fodder

En-Soph (en-sof), n. [Heb., the infinite, lit. 'no end.'] In cabalistic doctrine, the Deity, prior to the creation of the universe, from entero-enterostomy (en "te-rō-en-te-ros'tō-which the ten attributes forming the Adam mi), n. [Gr. ἐντερον, intestine, + ἐντερον, in-Kadmon emanated. See *Sephiroth, *Adam

enspell (en-spel'), v. t. [en-1 + spell¹.] To east a spell upon; charm; fascinate; enchant. enstatitic (en-stā-tit'ik), a. [enstatite + -ie.] Pertaining to, resembling, or containing enstatite.

ent., entom. Abbreviations of entomology. entacmæous (en-tak-mē'us), a. [Gr. ἐντός, within, + ἀκμαῖος, adj., ζἀκμή, point: see acme.] In actinians, having the tentacles of the inner longer than those of the outer cycles. Trans.

Elinean Soc. London, Zool., Oct., 1902, p. 299.
entacoustic (en-ta-kös'tik), a. [Gr. ἐντός, within, + ἀκουστικός, of hearing.] Relating to or originating within the organ of hearing.

entailable (en-tā'la-bl), a. [entail + -ablc.] Capable of being left in fee-tail; also, often Tentail + -ablc. used with reference to any property that is

capable of being left by will.

Ental valve. See *valve.

entapophysial (en-ta-po-fz'i-al), a. Of or pertaining to an entapophysis. See *cntapophysis.

entapophysis (en-ta-pof'i-sis), n. [Gr. ἐντός, within, + ἀπόφνσις, apophysis.] An internal apophysis; an apophysis that projects internally, as with many arthropods.

The wall of the assophageal portion of the foregut [in spiders]. . . is supplied with a well-developed post-eere-hral sucking-apparatus lying on the upperside of the entosternite and worked by powerful lateral muscles which attach it to this plate, and by a dorsal muscle which passes from its chitinous dorsal wall through the aortic space of the "stomach" to the median entapophysis of the earapace.

Proc. Zool. Soc. London, 1902, p. 185.

of larvæ in the intestine, and the morbid state resulting therefrom.

enteropexy (en"te-rō-pek'si), n. [Gr. εντερον, intestine, $+\pi \tilde{p} \tilde{\xi} \iota g$, attachment.] In surg., an operation for the attachment of a portion of the intestine to the anterior abdominal wall.

enterophthisis (en"te-rof'thi-sis), n. [NL., <

enterproduction (enterprise of the lumerus enterproduction). The first enterprise of the lumerus and above the condyle: as, the enterproduction for amen, a for amen so situated, found in the humeri of many mammals and very characteristic of the cats .- 2. Relating to the internal epicoudyle or entepicondyle.

entepicondyle (en-tep-i-kon'dil), n. [Gr. $i\nu$ - $\tau \delta c$, within, $+\kappa \delta \nu \delta \nu \lambda \delta c$, condyle.] The process or projection just above the inner condyle of

enteraden (en-ter'a-den), n. [Gr. ἐντερον, intestine, + ἀδίν, a gland.] An intestinal gland. enteradenitis (en-te-rad-e-nī'tis), n. [NL., \langle enteraden + -itis.] Inflammation of the intestinal glands.

enterectasis (en-te-rek'ta-sis), n. [Gr. ἐντερον, intestine, + ἐκτασίζ, extension.] Distention of

the intestines with gas.

enterelcosis (en'te-rel-kō'sis), n. [Gr. ἐντερον, intestine, + ἐλκωσις, ulceration.] Ulceration Ulceration of the mucous membrane of the intestines. entero-anastomosis (en"te-rō-a-nas"tō-mō'-

sis), n. [Gr. ἐντερον, intestine, + ἀναστόμωσις, anastomosis.] Intestinal anastomosis.

entercentesis (en"te-rō-sen-tē'sis), n. [NL., ζ Gr. ἔντερον, intestine, + κέντησις, puncture.]
In surg., operative puncture of the bowel.

enterocholecystostomy (en "te-rō-kol"ē-sis-tos'tō-mi), n. Same as enterocholecystotomy. enterocleisis (en "te-rō-klī'sis), n. [NL., ⟨ Gr. ἐντερον, intestine, + κλείσις, κλήσις, a closing, ⟨

κλείειν, close.] Obstruction of the bower.

enteroclysis (en'te-rok'li-sis), n. [NL., ζ Gr. incss.] Religious frenzy.

enthasis (en'thla-sis), n. [Gr. ενθλασις, a dent caused by pressure, ζ ενθλάν, dent by pressure, ζ ενθλάν, erush.] A comminuted depressed fracture of the skull.

washing out the large intestine. Med. Record, July 18, 1903, p. 107.

enteroclysm (en'te-rō-klizm), n. [Gr. ἐντερον, intestine, + κλυσμός, drenching, < κλύζειν, drench.] Same as *cnteroclysis.

enteroccele, n. 2. A body-eavity or coolom which arises as a diverticulum from the digestive cavity of the embryo. Parker and Haswell, Zoology, I. 359. Enteroccelic pouch. See *ponch. enteroccolostomy (en "te-r\(\tilde{0}\)-r\(\tilde{0}\)-k\(\tilde{0}\)-los 't\(\tilde{0}\)-mi), n. [Gr. \(\tilde{v}\)-r\(\tilde{0}\)-coology, intestine, + \(\sigma\) \(\tilde{0}\)-coology, colon, + \(\tilde{0}\)-coology, mouth 1. In every, the establishment of pages.

mouth.] In surg., the establishment of an artificial communication between the colon and some portion of the small intestine.

testine, $+ \kappa i \sigma \tau i c$, bladder (cyst).] Cystic tumor of the intestine.

entero-enterostomy (en'te-rō-en-te-ros'tō- or enteron.

mi), n. [Gr. ἐντερον, intestine, + ἐντερον, in- entobronchium (en-tō-brong'ki-um), n.; pl. testine, + στόμα, mouth.] The operative for- entobronchia (-ā). [NL., \langle Gr. ἐντός, within, + mation of a permanent communication between two originally non-continuous portions of the intestine. Med. Record, Feb. 28, 1903, p. 352.

enterograph (en'te-rō-gráf), n. [Gr. ἐντερον, intestine, + γράφειν, write.] A medical instrubella intertion of the peristaltic movements beckbone: specifically applied by Owen to

enterograph (en'te-rō-graf), n. [Gr. ἐντερον, intestine, + γράφεν, write.] A medical instrument for recording the peristaltic movements

tine.

enterokinase (en'te-rō-kin'ās), n. [Gr. ἐντερον, intestine, + E. kinase.] A kinase found in the intestinal mucous membrane, which renthe intestinal mucous membrane, which renthe nancreatic trypsin physiologically actions are the papereatic trypsin physiologically actions of the tibia.

entocœle (en'tō-sēl), n. [Gr. ἐντός, within, + κοϊλος, hellow.] The portion of the cœlenteron or gut-cavity of a hexactinian polyp inclosed control of the tibia. tive. Similar bodies probably occur elsewhere in the mammalian organism, and have also been noted in bacteria and in snake-venom.

enteromere (en'te-rō-mēr), n. [Gr. ἐντερον, intestine, + μέρος, part.] A segment of the intestinal tract in the embryo.

enteromyiasis (en'te-rō-mī-i-ā'sis), n. [NL., Gr. ἐντερον, intestine, + μνῖα, fly.] Presence (Gr. ἐντερον, intestine, + μνῖα, fly.] Presence (within, + κόνονλος, condyle, + -αr³.] Relating

of larvæ in the intestine, and the morbid state

Gr. $\ell\nu\tau\epsilon\rho\sigma\nu$, intestine, + $\phi\theta\ell\sigma\nu$, consumption: see phthisis.] Intestinal tuberculesis.

sce phthisis.] Intestinal tuberculesis.
enteroplegia (en'te-ro-ple'ji-ā), n. [NL., ζ Gr. ἐντερον, intestine, + πληγή, stroke.] Paralysis of the muscular coat of the intestine, enteropneust (en'te-rop-nüst), n. In zoöl., a worm-like animal belonging to the group En-

teronneusta.

enteroptosis (en-te-rep-tō'sis). n. [NL., ζ Gr. ἐντεμια, intestine, + πτῶσις, falling.] Prolapse or sinking down of the intestines, and usually of some or all of the other abdominal viscera, due to want of tone in the abdominal wall. Also called Glénard's disease.

the humerus; the internal epicondyle or epi-trochlea. See ent under epicondyle. Gr. ἐντερον, intestine, + ῥηξις, rupture.] Rup-enteraden (en-ter'a-den), n. [Gr. ἐντερον, in-

rials formed within the intestine.

enterospasm (en'te-rō-spazm), n. [Gr. ἐντερον, intestine, $+ \sigma \pi a \sigma \mu \ddot{o}_{\varsigma}$, spasm.] Spasmodic colic. enterostomy (en-te-ros'tō-mi), n. [Gr. ἐντερον, iutestine, + στόμα, mouth.] Formation, by a surgical operation, of a permanent opening into the intestine. Same as enterotomy, 2.

enterotome (en-ter'ō-tōm), n. [Gr. εντερον, intestine, + -τορος, \langle ταμείν, eut.] A portion of the embryo of vertebrates containing those structures which later develop into the digestive tract. [Rare.] enterozoic (en#te-rō-zō'ik), a. Of or pertaining to the Enterozoa.

Enthelminthes (en-thel-min'thez), n. pl. [NL.]

Same as Enthelmintha.

entheomania (en the o-ma ni-a), n. [NL., ζ Gr. ἐνθεος, inspired, frenzied, + μανία, madness.] Religious frenzy.

of the nature of or containing an enthymeme; incompletely stated: as, an enthymematic syllogism.

Palpable enlargement of the pylorus, in infants a few weeks old, has now come to be recognized as a definite clinical and pathological entity.

Therapeutic Gazette, Feb. 15, 1903, p. 141.

enterocyst (en'te-rō-sist), n. [Gr. ἐντερον, in- entoblast, n. 2. In embryol., one of the blastomeres or segments of the egg which takes part in forming the wall of the intestine, or enteron.

ment for recording the permitted for the intestines.

enterohematin (en''te-rō-hem'a-tin), n. [Gr. ἐντερον, intestine, + aiμα(τ-), blood, + -in².] A red pigment found in the so-called livers of entochoroidea (en-tō-kō-roi'dē-ā), n. [NL., choroidea.] The posterior layer of the choroid.

Gr. ἐντερον, intestine, + al. [Gr. ἐντερον, intestine, posterior layer of the choroid.] Situated on the choroide in the choroid. heel-bone: specifically applied by Owen to the innermost of the ridges or projections on the posterior face of the proximal end of the tarsometatarsus of a bird.

entocnemial (en-tok-ne'mi-al), a. [Gr. ἐντός, within, + κνήμη, tibia, + -al.] Situated on the inner side of the tibia.

within each pair of mesenteries; the intra-mesenterial space: opposed to *exocœle. Trans. Linnean Soc. London, Zool., Oct., 1902,

entocondylar (en-tō-kon'di-lār), a. [Gr. ἐντὸς, within, + κόνονλος, condyle, +-ar³.] Relating to the entocondyle, or inner articular face of such a bone as a femur: contrasted with *ectocondylar.—Entocondylar cavity, the cavity or depression receiving the entocondyle, as in the tarsometatarsus of a bird.

entocondyloid (en-tō-kon'di-loid), a. [ento-condyl-ar + -oid.] Relating to the inner side

or portion of a eondyle, or such an articula-tion as that of the distal end of the humerus. entoconid (en-tō-kon'id), n. [Gr. ἐντός, with-in, + κῶνος, cone, + -id².] The postero-internal cusp of a lower molar. See cut under *tooth.

entocornea (en-tō-kôr'nē-ä), n. [NL., < Gr. evroc, within, + NL. cornea, cornea.] Same as membrane of Demours or Descemet (which see, under membrane).

entocranial (en-tō-krā'ni-al), a. [Gr. ἐντός, within, + κρανίον, eranium, + -al.] Same as

endocranial.

entocyst (en'tō-sist), n. Same as endocyst. entoglossum (en-tō-glos'um), n: pl. entoglossa (-ä). [NL., \langle Gr. $\dot{\epsilon}\nu\tau\delta_{\zeta}$, within, + $\gamma\lambda\bar{\omega}\sigma\sigma a$, toigue.] The foremost bone of the hyoid apparatus of a bird, lying in the substance of the torque $\dot{\epsilon}$ really approach of a raise $\dot{\epsilon}$ the tongue: really composed of a pair of bones properly known as ceratohyals.

Entognathi (en-tog'na-thi), n. pl. [NL., ζ Gr. εντός, within, + γνάθος, jaw.] A proposed group of thysanurous insects including the Campodeidæ, the Japygidæ, and the various families of Collembola.

entohyal (en-tō-hī'al), n. [Gr. έντός, within, + hyal(oid).] One of a chain of median bones in the lower part of the gill-arches in fishes: same as basibranchial. Starks, Synonymy of the Fish Skeleton, p. 518.

Entoloma (en-tō-lō'mā), n. [NL. (Quélet, 1882), 〈 Gr. ἐντός, within, + λωμα, fringe.] A genus of agaries having reddish or pinkish angular spores, a somewhat fleshy stem and pileus, and no volva er annulns. The species are widely distributed, occurring in fields and woodlands.

Entomacrodus (en-tō-mak'rō-dus), n. [NL., Gr. ἐντομος, cut in, + ἀκρος, at the extremity,
 + ὁδοίς (ὁδοντ-), tooth.] A genus of small blennies of the tropics, differing from Salarias in the presence of the long canines.

entomeric (en-to-mer'ik), a. Pertaining to or

of the nature of an entomere.

entomesoblast (en-tō-mes'ō-blast), n. έντός, within, + μέσος, middle, + βλαστός, germ.] A layer or cluster of embryonic cells which have not yet been differentiated into entoblast and mesoblast proper.

entometatarse (en-tō-met'a-tärs), n. [Gr. έντός, within, + Ε. metatarsus.] The internal face of the tarsometatarsus of a bird. Owen.

[Rare.]

Entomidæ (en-tom'i-dē), n. pl. [NL., < Entomis + -idæ.] A Paleozoic family of ostracode crustaceans, characterized by short, strongly convex, subequal bivalve tests with a depression near the middle of the dorsal

region.

entomion (en-tō'mi-on), n.; pl. entomia (-ä).

[NL., ⟨ Gr. ἐντός, within, + ὡμος, shoulder.]

In craniom., the anterior point of the mastoid angle of the parietal bone. Von Török.

Entomis (en'tō-mis), n. [NL., ⟨ Gr. ἐντομός, a gash, ⟨ ἐντομός, cut in.] The typical genus of the family Entomidæ.

Entomoconchidæ (en "tō-mō-kong'ki-dē), n. pl. [NL., < Entomoconchus + -idæ.] A family of Carboniferous ostracode crustaceans, characterized by subglobose, somewhat inequivalve shells, with a truncate front edge and a slit on the central portion of the margin.

Entomoconchus (en'tō-mō-kong'kus), n. [NL., ζ Gr. ἐντομος, cut in, + κόγχη, a shell.] The typical genus of the family Entomoconchidæ.

Entomophila (en-tō-mof'i-lā), n. pl. [NL., ζ Gr. ἐντομον, insect, + φίλος, loving.] A group of hymenopterous insects (according to Ashmead's classification) having the hypopygium entire, the prenotum not extending back to the tegulæ, and the tarsi slender. It includes entosolenian (en'tō-sō-lō'ni-an), a. [Gr. ἐντός, the families Crabronidæ, Pemphredonidæ, Bembecidæ, tarridæ, Trypozylonidæ, Philanthidæ, Nyssonidæ, Sphecidæ, and Ampulicidæ.

entomophilous, a. 2. In phytogeog., parasitic on insects: said of a class of fungi. Pound

and Clements.

Entomophthoraceæ (en"tō-mof-thō-rā'sē-ē),
n. pl. [NL., \(\) Entomophthora + -aceæ.] A n. pl. [NL., \ Entomorphism in a control family of phycomyeetous fungi named from the genus Entomophthora. See Entomoph-

(en "tō-mof-thō-rā' entomophthoraceous shius), a. Belonging or pertaining to the Entomophthoraeeæ.

Entomophthorales (en "tō-mef-thō-rā'lēz), n. [NL., \ Entomorphthora + -ales.]

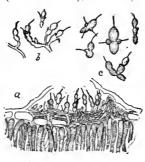
order of entomogenous fungi containing the single family Entomophthoraceae. See Entomophthoreæ

Entomophthorineæ (en "tō-mof-thō-rin" ē-ē), n. pl. [NL.] Same as *Entomophthorales. entomophthorous (en-tō-mef'thō-rus), a. Per-

taining to or caused by a fungus of the genus Entomophthora.

A view of grasshoppers dead or dying from entomophthorous disease.

L. O. Howard, in Yearbook, U. S. Dept. Agr., 1901, p. 460. Entomosporium (en "tō-mos-pō'ri-um), n. [NL. (Léveillé, 1858), ζ Gr. ἔντομον, insect, + σπορά, seed (spore).]



Entomosporium maculatum.

a, section of leaf, through a disease-spot, showing a fruit pustule of the fungus containing spores in different stages of development; b, young spores, showing nethod of development and attachment to the inycelium; c, mature spores, all highly mag-nified. (Drawn from Report of U. S. D. A.)

leaf-blight of the pear and quince. See leaf-*blight. entomostegous (en - tō-mos' tē-gus), a. Belonging the Entomostega

A genus of parasitic fungi of the order Sphæropsidahaving

black flattened

pyenidia with-

out ostiola. The spores usually become four-celled and furnished with slender ap-

pendages. E. mac-ulatum causes the

a division of Foraminifera; characterized by having the cells subdivided by transverse partitions. entomostomatous (en"tō-mos-tō'ma-tus), a.

Belonging to the Entomostomata, siphonebranchiate gastropods which have the lip of the shell notched.

entophthalmia (en-tof-thal'mi-ä), n. Gr. $i\nu\tau\delta\varsigma$, within, + $i\phi\theta\alpha\lambda\mu\dot{\alpha}$, ophthalmia.] Inflammation of the inner structures of the eveball.

entopic (en-top'ik), a. [Gr. $\dot{\epsilon}\nu\tau\sigma\sigma\sigma\varsigma$, in or of a entotentacle (en-to-ten'ta-kl), n. place, $\langle \dot{\epsilon}\nu$, in, + $\tau\delta\sigma\sigma\varsigma$, place.] Being or within, + NL. tentaculum, tentacle occurring in the proper place: as, entopic gestions the radially arranged tentacles of the radially arranged tentacles of

 entoplasm (en'tō-plazm), n. [Gr. ἐντός, within,
 + πλάσμα, anything formed.] Same as endoplasm.

entoplastral (en-tō-plas'tral), a. [entoplas $tr\text{-}on + -al^{1}$.] Relating to the entoplastron, the bone in the plastron of a turtle that cerresponds to the interclaviele of other reptiles.

entoptoscope (en-top'tō-skōp), n. [Gr. ἐντός, within, + $\delta\pi\tau(\iota\kappa\delta\varsigma)$, of seeing (see *optie*), + $\sigma\kappa\sigma\pi\epsilon\bar{\iota}\nu$, view.] An instrument employed in testing the transparency of the media of the A beam of light enters the eye through a minute eye. A beam of light enters the eye through a minute hole in an opaque diaphragm, and any opacities in the lens or humors of the eye are projected as distinct shadows on the retina.

entoretina (en-tō-ret'i-nā), n.; pl. entoretinæ (-nē). [NL., ⟨Gr. εντός, within, + NL. retina.] The inner layer of the retina.

entorganism (ent-ôr'gan-izm), n. [Gr. $i\nu\tau\delta\varsigma$, within, + E. organism.] An internal parasite. entosclerite (en-tō-sklē'rīt), n. [Gr. $i\nu\tau\delta\varsigma$, within, + $\sigma\kappa\bar{\rho}\eta\rho\delta\varsigma$, hard, + - ite^2 .] A sclerite that is entirely internal, having no external portion, as the prophragma or mesophragma of an insect. Proc. Zool. Soc. London, 1902, p. 174.

tum. Annals and Mag. Nat. Hist., Feb., 1903, p. 147.

gena globosa. Compare *eetosolenian. Smithsonian Rep. (Nat. Mus.), 1897, p. 306.

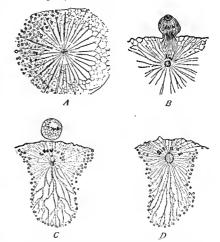
entosphenal (en-tō-sfē'nal), n. [Gr. $\dot{\epsilon}\nu\tau\delta\epsilon$, within, $+\sigma\phi/\nu$, a wedge, $+-al^{1}$.] A bone in fishes anterior to the bones above the myodome: same as basisphenoid. Starks, Synonymy of the Fish Skeleton, p. 512.

Entosphenus (en-tō-sfe'nus), n. [NL., ⟨ Gr. εντός, within, + σφήν, wedge.] A genus of lampreys running in the rivers from California northward on the Pacific slope. E. tridentatus is the common large lamprey of the Pacific

Control on to the control of the con

Entosphenus tridentatus. (From Bull, 47, U. S. Nat, Museum.)

entosphere (en'to-sfer), n. [Gr. έντός, within, + σφαίρα, a ball.] In cytol., the inner or medullary zone of the centrosphere of the cell. Ziegler, 1899.



Centrosome and aster in the polar mitoses of Unio. (Lillie).

A, aster of the first polar figure, central granule (centrosome) surrounded by medullary (entosphere) and cortical (ectosphere) cones; R, late anaphase of second polar mitosis, radial entosphere bounded by continuous membrane; C, D, prophases of second mitosis, fornation of central spindle within and from the substance of the old entosphere. (From Wilson's "The Cell.")

entostosis (en-tos-tō'sis), n. [NL., $\langle Gr. \dot{\epsilon} \nu \tau \delta c$, within, $+ \dot{\sigma} \sigma \tau (\dot{\epsilon} o \nu)$, bone, + - o s i s.] Same as enostosis or endostosis.

entotentacle (en-tō-ten'ta-kl), n. [Gr. ἐντός, within, + NL. tentaculum, tentacle.] One of the radially arranged tentacles which arise later than the exotentacles and from the en-

to coles of a eeral polyp. entothorax (en-tō-thō raks), n. [Gr. $\dot{\epsilon}\nu\tau\delta\varsigma$, within, + $\theta\dot{\omega}\rho a\xi$, thorax.] A chitineus process, probably an elaborate inward fold of the integriment, which projects upward in a forked manner from the sternum. Also ealled aponhusis.

Entotrophi (en-tot'rō-fi), n. pl. [NL., < Gr. εντός, within, + τροφός, feeder, nurse: see trophi.] Same as *Entognathi.

entotrophous (en-tot'ro-fus), a. to or having the characteristics of the Entot-

rophi or Entognathi.

entotympanic (en * tō - tim - pan ' ik), a. [Gr. ἐντός, within, + τίμπανον, drum: see tympanim.] Situated or occurring within the drum of the ear.

entozoal (en-tō-zō'al), a. [entozo-on + -al¹.] Caused by the presence of Entozoa: as, an entozoal disease.

entozoölogically (en"tō-zō-ō-loj'i-kal-i), adv. From the point of view of an entozoölogist,

or regarding entozoölogy.

entrain¹, v. t. 2. To earry along mechanically by the flow of another fluid at high velocity. Thus water may be carried through a pipe with steam at such a rate that it cannot be precipitated and attach itself to the walls of the pipe, but must move with the steam into the engine-eylinder or other vessel into which the pipe delivers. Sci. Amer. Sup., Dec. 27,

entrain² (en-trăn'), v. [en-1 + train¹.] I. trans. To put aboard a train.

II. intrans. To go aboard a train. entrainer (en-tran'er), n. A device for saturating a current of gas or steam with liquid: usually a hollow or pocket for collecting a liquid in such a way that it will be picked up

entrainment (en-train ment). n. The act of entraining; specifically, the catching up and conveying away by live steam of minute drops of water from a boiler or of particles of sugar from an evaporating-pan or other vessel from which steam is exhausted.

entrance¹, n. 7. In phoneties, the initial enzymatic (en-zi-mat'ik), a. [Irreg. < enzym movement in producing a sound; the 'attack' + -atic. The proper form is enzymic.] Reor on-glide. Scripture, Exper. Phonetics, p. lating to an enzym or ferment; enzymic. 429.—8. In music of a concerted sort, the enzymation (en-zi-ma'shon), n. [enzym + point at which or the effect with which any at the beginning of a piece or passage.—Pupil of entrance, same as *entrance-pupil and interfusion *disk (which see). Jour. Roy. Micros. Soc., June, 1904, p. 283. one of the parts begins, especially when not

- -

Entrance-cone in Sea-urchin's Egg. (Magnified.)

Egg. (Magnified.)

A, sperm-head before entrance; n, nucleus; m, middlepiece and part of the flagellum; B, C, sperm-head immediately after entrance, showing entrance-one; D, rotation of the sperm-head, formation of the sperm-ster about the middlepiece; E, casting off of middlepiece; E, casting off of middlepiece, centrosome at focus of the rays. The changes figured occupy about eight minutes. (From Wilson's "The Cell.")

entrance-cone (en'trans-kon), n. bryol., the conical protrusion of the surface protoplasm of the egg at the point of entrance of the spermatozoon.

entrance-pupil (en '-trans-pū"pil), n. In a trans-pū pil), n. In a lens system, the circular space corresponding in size and position to the image which is formed of the stop by that portion of the system which lies between the stop and the object. See interfusion *disk.

entrancing (en-trans'-ing), p. a. That ening), p. a. That entrances or transports with delight or won-

der: as, entrancing music; an entrancing tale. entrechat (on-tr-sha'), n. [F., \langle It. intrecciata (sc. eapriola), a complicated caper, pp. entrechat (on-tr-shä'), n. of intreceiare, complicate, $\langle in, in, + treceia, plait, tress.]$ A leap in ballet-dancing, during which the performer strikes his heels together several times.

"Mr. Edgeworth excelled me so much" [said the stranger], "that I sat down upon the ground, and hurst out a crying; he could actually complete an entrechat of ten distinct beats, which I could not accomplish."

Edgeworth, Memoirs, II. vi.

entrée, n. 5. An old dance resembling the polonaise, or the music for it.

polonaise, of the music for it.

Entropy leakage, a lowering of the value of the entropy factor in the expansion of a heat-medium, and a consequent lowering of the intrinsic energy of the medium, without a corresponding useful expenditure of mechanical energy to overcome a resistance. The heat-energy of the medium is dissipated without doing work, as the water is wasted which leaks from a mill-dam.—Principle of the increase of entropy, the principle (due to Clausius) that, owing to the inequalities in temperature between different points, the entropy of the miverse continually tends to increase.—Unit of entropy, the *claus (which see).

which see).

entry, n.—Catchword entry. See *catchword.—
Entry sign, in music: (a) In a canon that is but partly written out, a mark indicating the point at which the imitating part is to begin. (b) A sign from a conductor to a singer or player to begin.—Table of double entry, a table having two arguments, as, for example, a multiplication table. It may or may not be arranged so that one argument is entered at the top and the other at the side. As long as the quantities in the table vary with two independent quantities, or appellations, to be entered, it remains a table of double entry, however arranged. Tables of triple, quadruple, etc., entry would be possible; but they are little used, since any table of N + 1 arguments can be replaced by N tables of double entry, though a larger number will often be convenient. A table of double entry cannot be reduced to a table of single entry.—Writ of entry, in common larg, a writ which lies in favor of one having a right of entry to recover possession of of one having a right of entry to recover possession of lands wrongfully withheld.

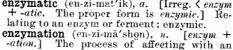
entry-clerk (en'tri-klerk), n. A clerk whose business is to make entries in the proper book or books; in common usage, a clerk in a mer-cantile establishment who keeps a book of original entry in which all purchases and sales are recorded in the order of their occurrence. entry-word (en'tri-werd), n. The word under which a book is listed or entered in a cata-

logue Entyloma (en-ti-lo'mä), n. [NL. (De Bary, 1874), < Gr. ἐντυλοῦσθαϊ, to grow hard, < ἐν, in, + τίλος, a callus.] A genus of parasitic fungi + \(\tau \)i\(\text{i/so}\)c, a callus. A genus of parasitic fungi of the order \(Ustilaginales\). The mycellum is intercellular and not gelatinous as in most smut-fungi. The spores are intercalary or terminal, usually forming groups in the tissue of the host, but not separating from it. Some of the species produce gall-like swellings, and many bear simple conidia. About 70 species have been described. \(E. Physatidis\) is common on species of \(Physatis\) enucleate, \(v. t. \) 3. In \(cytol.\), to deprive (the cell) of its nucleus; to demucleate.

enuf, a., n., adr., and interj. A simplified spelling of enough.

Env. Ext. An abbreviation of Envoy Extraor-

enzoöty (en-zô'ō-ti), n. [Gr. $\dot{\epsilon}\nu$, in, + (epi)-A contagious disease of animals, such as infections abortion of eattle, confined to small localized regions.



enzym.—Oxidizing enzymation, the so-called to-bacco *fermentation (which see). Also oxidizing enzy-

enzymic (en-zim'ik), a. Relating to or of the Eoplacophora nature of an enzym.

enzymol (en'zi-mol), n. [enzym + -ol.] A proteid ferment used in place of hydrogen peroxid as a wash for the ulcerated surface of the pharynx.

enzymology (en-zi-mol'ō-ji), n. [MGr. ἐνζυμος, leavened (seo enzym), + -λογία, < λέγειν, speak.]

The study of enzyms. enzymosis (en-zi-mō'sis), n. [enzym + -osis.] Fermentation by non-organized ferments

E. O. A game of chance, in which the appropriation of the stakes is determined by the falling of a ball into one of several niches

marked E or O respectively. N. E. D.

eo- (ē'ō). [Gr. ψως, dawn: see coccne, etc.]
In petrog., specifically, a prefix used before the names of rocks, chiefly volcanic, to indicate the name of rocks and the name of rocks are not the name of rocks. cate that they were erupted in geologically ancient time as distinguished from Tertiary or recent time. Its use was suggested by O. Norden-skjöld in 1893. The resulting terms are eobasalt, eo-

or recent time. Its use was suggested by 0. Nordenskjöld in 1893. The resulting terms are cobasalt, codacite, corhyolite, etc. **Bocardide** (ē-ō-kär'di-dē), n. pl. [NL. Eocardia, the type genus, +-idæ.] A family of small fossil rodent mammals, containing species of the genera Helomys, Phanomys, Palæocarida, etc., from the Santa Cruz formation (Miocene)

of Patagonia. Ameghino, 1891. **Bocicada** (ē"ō-si-kā'dā), n. [NL., ζ Gr. ηως, the dawn, + L. cicada, cicada.] A genus of the Cicadidæ or harvest-flies occurring in the

Jurassie lithographie slates of Bavaria.
eodemotic (ē"ō-dē-mot'ik), a. [Gr. ἡως, dawn, + demotic,] Pertaining to the dawn of demotic (civil as contrasted with tribal) organization of society.

On comparing the method classes with the periods and on comparing the method classes with the periods and culture-grades, it is found that archaic trephining was chiefly prehistoric and exclusively ecdenactic, but that neoteric trephining persists, at least vestigially, among backward representatives of civilized peoples.

Rep. Bur. Amer. Ethnol., 1894-95, p. 18.

eohistoric (ē"ō-his-tor'ik), a. Pertaining to the dawn of history: as, eohistoric times; cohistoric man

eolation (ē-ō-lā'shon), n. [L. Eolus, the wind-god, + ation.] In geol., the process of earth-sculpture by wind; the scouring of exposed formations by wind-driven dust and sand, the chiseling of cliffs and modeling of beaches by wind-driven waves, and the modification of existing features by transportation and deposition of rock material by wind.

colith ($\tilde{e}'\tilde{\phi}$ -lith) n. [Gr. $\tilde{\eta}\tilde{\phi}c$, dawn, $+\lambda \tilde{\iota}\theta oc$, a stone.] A rudely chipped flint implement (or what appears to be such) regarded, from its workmanship, as older than the paleoliths. Eoliths are found in the oldest Quaternary deposits of Europe. Keane, Ethnology, p. 74.

eolithic (ē-ō-lith' ik), a. Pertaining to or characterized by the presence of coliths.

eolotropic (ē"ō-lō-trop'ik), a. [colotrop-y + -ic.] Characterized by colotropy; having a different structure in different directions: opposed to isotropic. An eolotropic medium shows dif-lerent elastic properties according to the direction of the stress, and, when transparent, exhibits double refraction. eolotropy (ē - ō -lot' rō-pi), n. [Gr. αἰολος, changea ble, shifting, + -τροπος, ζτρέπειν, turn.] Difference of structure in different directions. Doubly refracting crystals are eolotropic, and isotropic bodies, when twisted or subjected to longitudinal or shearing stress, show a temporary colotropy.

Bodies . . . whose electro-magnetic properties merge into those of isotropic non-conductors as the eolotropy disappears. H. Hertz (trans.), Electric Waves, p. 203.

eon, n. 3. The largest division of geologic time: used by J. D. Dana especially in dividing the archæan into astral and archæozoic eons.

eonial, æonial (ē-ō'ni-al), a. Seme as eonian. eophone (ē'ō-fōn), n. [Gr. ηως, dawn, the east, the orient. $+\phi\omega\nu_n$, sound. The intended meaning seems to be 'that which orients, or fixes the direction of, the sound.'] An apparatus for ascertaining at sea the direction or bearing of a source of sound-waves. It consists of a pair of trumpet-shaped receivers pointing in the same direction and mounted on opposite sides of a separating screen. From these condensing-receivers tubes lead downward and are attached to the two ears of the observer. The screen and trumpets are mounted on a short vertical mast free to be turned so that the edge of the screen can point in any direction. When the observer receives by trial the most intense vibration of the air, then both mouthpieces and the screen between them are pointed to the source of sound. Used in thick weather or at night.

at night.

Eoplacophora (ē / ō-pla-kof ′ ō-pla-kof ′ ō-pla, n. pl. [Gr. / μ΄σ, dawn, + π'λάξ (πλακ-), plate, + -φορος, < φερείν, bear.] A suborder of the polyplacophorons chitons. It is characterized by having the tegumentum coextensive with the articulamentum, or the latter projecting in smooth insertion-plates, and by having posterior gills. One of its two families is Paleozoic, the other Tertiary and recent.

Eopsetta (ē-op-set'ā), n. [NL., $\langle \text{Gr. } \dot{\eta} \omega_{\zeta}, \text{dawn, } + \ddot{\psi} \dot{\eta} \tau \tau a, \text{ a flat-fish.} \rangle$ A genns of flounders closely allied to Hippoglossoides, found on the coast of California. E. jordani, the single known species, is frequently sold as English sole.

eorhyolite (ē-ō-rī'ō-līt), u. [eo-+ rhyolite.] In petrog., a geologically ancient rhyolite.

Eosaurus (ē-ō-sâ'rus), n. [NL., $\langle \text{Gr. } \dot{\eta} \dot{\omega}_{\mathcal{C}}, \text{ dawn, } + \sigma a \tilde{\nu} \rho_{\mathcal{O}}, \text{ a}$ lizard.] A genus of stegocephalous Amphibia represented

only by detached amphieœlous vertebræ from the Coal-measures of Nova Scotia.

Eoscorpius (ë-ō-skôr'pi-ns), n. [NL., ζ Gr. ήως, dawn, + σκορπίος, a scorpion.] A genus of fossil scorpions from the Carboniferous rocks of Illinois.

Eosebastes (ĕ"ō-sē-bas'tēz). n. (NT. / Gr. ήως, dawn, - (Th.) (Th Eoscorpius (ē-ō-skôr'pi-ns), n.

Eosebastes ($\tilde{e}''\tilde{o}$ -s \tilde{e} -bas't \tilde{e} z), n. [NL., \langle Gr. $\tilde{\eta}\omega_{c}$, dawn, + Sebastes.] A subgenus of the genus Sebastodes, including the red rockfishes of the coast of California.

Of the coast of Cantornia.

Eosin B, BN, or BW, a coal-tar color of the xanthene type, the sodium salt of dibron-dinitro-fluorescein. It is applied like eosin, but gives bluer pinks. Also called eosin searlet.—Eosin J. Same as *erythro-sin.—Eosin S or BB, a coal-tar color of the xanthene type, the potassium salt of the ethyl ether of tetrabrom-fluorescein. It is insoluble in cold water, but readily soluble in alcohol, and for this reason it is often called spirit-soluble eosin. Its application is the same as that of eosin.—Eosin scarlet. Same as *eosin B, BN, or BW.—Eosin 10B. Same as phloxin.—Methyl eosin. Same as erythria, 1.

eosinophil, a. II. n. A lencocyte which stains only with the acid dyes, such as eosin. Also called acidophil and oxyphil.

eosinophilia (ē"ō-sin-ō-fil'i-ä), n. Gr. -φιλία, ζφιλείν, love.] The presence in the blood of eosinophil lencocytes in markedly increased numbers. R. C. Cabot, Clinical Exam. of the Blood, p. 116.

eosinophilic (ē " o - sin - o - fil 'ik), a. Same as cosinophil.

eosinophilous (ē'ō-si-nof'i-lus), a. [eosinophil + -ous.] Staining readily and intensely in eosin; of or pertaining to an eosinophil.

eosium (ē-ō'si-nm), n. [NL., irreg. ⟨Gr. ἡως, dawn (aurora), +-ium.] A name suggested by Berthelot for the recently discovered atmospheric gas krypton.

eosolate (ē- \tilde{o} 's \tilde{o} -lāt), n. [cos(in) + -ol + -atel.]A salt of sulpho-acids of the aliphatic creosote esters. Calcium eosolate is a gray, gritty powder, with slightly pungent ethereal odor and somewhat acrid leathery taste: used in diabetic affections. Silver eosolate is used in gonorrhea, and quinine eosolate in malaria

Eotrochus (ē-ot'rō-kus), n. [NL., ζ Gr. ἡως, dawn, + NL. Trochus, a genus of gastropods.]
A genus of platypodous Moltusea, characterized by turbinate, widely umbilicate shells which have flat whorls and concave base, and which sometimes carry agglutinated foreign particles. The genus was described from Silurian rocks.

epacme (ep-ak'mē), n. [Gr. επί, upon, + ἀκμή, acmc.] A stage in the ancestral or phylogenetic history of a group of organisms, such as a family or a genus or a species, before the perfection of development, or aeme, is reached. Jour. Roy. Micros. Soc., Oct., 1903, p. 616. [Rare.]

epagomenic (ep/a-go-men'ik), a. Same as epagomenal.

epanorin (ep-a-nô'rin), n. [NL. epanora (see def.) + -in².] A yellow compound contained



a, collecting-cone for sound - vibrations; b, screen to separate the sound-waves coming to each cone from different directions and to reflect these

each cone from dif-ferent directions and to reflect those coming obliquely; c.c. ear-tubes con-necting each cone separately to one of the operator's ears,d.suspeoding-spring to carry weight of c, clamp to press the tube-outlets against the ears; f, revolving mast carrying col-lecting-cones and screen; E, hand-

in the lichen Lecanora epanora. It in needles, melting at 131-132° C.

Epanorthidæ (ep-a-nôr'thi-dē), n. pl. [NL. (Ameghino, 1889), < Epanorthis, the type genus, + -idæ.] A family of mammals, comprising small species, known from fragmentary remains in the Santa Cruz formation (Miocene) of Patagonia, and placed with the diprotodont marsupials.

epanorthotic (ep "an-ôr-thot'ik), a. Of the

eparchæan (ep-är-kē'an), a. [Gr. $\dot{\epsilon}\pi i$, upon, + same as ϵ -phetic, 2. E. archæan.] Situated above the recognized archæan: applied to a group of rocks which contain no fossils and are not yet accepted as Paleozoic, but which apparently are later in age than the true archæan. Dana, Manual of adult condition; adulthood; the ephebic stage: archæan: applied to a group of rocks which contain no fossils and are not yet accepted as Paleozoic, but which apparently are later in age than the true archæan. Dana, Manual of Geol., p. 446.—Eparchæan interval, the time-interval between the formation of an archæan rock and the next overlying one. As first used by A. C. Lawson it was restricted to Precambrian time, but it has had a wider significance in the writings of others. Science, N. S., Feb. 20,

eparchate (ep'ark-at), n. [eparch + -ate3.]

Same as eparchy. Schaff.
eparchial (ep-ärk'i-al), a. Of or pertaining to an eparchy. Schaff.

oparcuale (ep-är-kū-ā'lō), n.; pl. eparcualia

-li-ä). [Gr. ἐπί, upon, + L. arcus, arch.] The independent ossification from which the neural

spine is developed; the supradorsal of Gadow. eparitoi (e-par'i-toi), n. pl. [Gr. ἐπάριται or ἐπαρίται.] A picked body of hoplites created in Arcadia, in ancient Greece, after the foundation of Megalopolis in 370 B. c. They probably formed a considerable troop.

Epaxial actinophores. See *actinophore. epeirogenetic, epeirogenic. Same as *epirogenic.

epembryonic (ep-em-bri-ou'ik), a. upon, + embryonic.] Of or pertaining to stages in the life of an organism later than the

embryonic stages. Hyatt, Biol. Lect., 1899, p. 132. [Rare.]

éperlan (ā-pār-lon'), n. [F., OF. esperlanc, esperlan, esperlcn, etc., < MLG. sperlink = E. sparlingl.]. The European smelt, Osmerus

eperlanus, found along the shores of northern Europe, and esteemed as a food-fish. eph.. See epi.. Eph., Ephes. Abbreviations of Ephesians. Ephebaceæ (cf-ē-bā/sē-ē), n. pl. [NL., < Ephebe

+ -aceæ.] A family of gymnocarpous lichens named from the genus Ephebe.

ephebarch (ef'ē-bārk), n. [Gr. ἐφήβαρχος, < ἐφηβος, a boy, + ἀρχός, leader.] In Gr. antiq., an overseer of youth: a kind of magistrate whose precise duties are not now known.

ephebastic (ef-ē-bas'tik), a. Of or pertaining to ephebasty: having characters which belong to the mature growth-stage of a colony. ephebasty (ef'ē-bas-ti), n. [Gr. ἐφηβος, mature,

+ ἀστν, city.] lu paleon., the condition of having attained mature growth, as a colony of

corals; the stage of mature growth. **Ephebe**² (e-fē'bė), n. [NL. (Fries, 1825), \langle Gr. $i\pi i$, upon, $+ \hat{\eta}\beta\eta$, youth, \rangle pubescence, in allusion to the pubescent thallus.] A genus of licheus having the thallus small and branched and composed chiefly of the algal element. The apothecia are small and round. The species are few and occur on wet rocks

Ephebeitic (e-fē-bē-it'ik), a. ic.] Of or pertaining to ephebeitis. [Rare.]

Many of the phenomena are those of over-accentuation of processes normal at puberty, which I have for years called ephebeitic.

G. S. Hall, Adolescence, I. 308.

ephebeitis (e-fe-be-i'tis), n. [NL., \langle Gr. $\epsilon \phi \eta \beta \epsilon \iota a$, man's estate, + -i tis (implying inflammation).] The fever of maturing youth. [Rare.]

When the youth takes the helm of his own being, he navigates a choppy sea. . . . He must strive, fight, and storm his way up, if he would break into the kingdom of man. . . . Many an impulse seeks expression, . . . which will never be heard of later. Its function is to stimulate the next higher power. . . Never is it so true that nothing human is slien from each individual, as in this fever of ephebeitis.

G. S. Hall, Adolescence, H. 89.

ephebiate (e-fe'bi-āt), n. [Gr. ἐφηβεια, man's estate, + -ate³.] In Gr. antiq., the period of of birds; beteroccolous. Wicland, 1899. adolescence in boys or the period of ephebic **ephor**, n. 2. In modern Greece, an overseer education.

It crystallizes **ephebic**, a. 2. Of or pertaining to the adult **ephoric** (e-for'ik), a. [ephor + -ic.] Same as stage of individual development or ontogeny, ephoral. senile stages.

> [The] ephebic stages give the differentials elahorated in the ontogeny at the acme of the evolution of the stock.
>
> Hyatt, Biol. Lect., 1899, 132.

> The ephebic stages begin with the assumption of characters of lowest taxonomic rank (varietal).
>
> Amer. Jour. Sci., Jan., 1903, p. 12.

nature of or characterized by epanorthosis; ephebolic (ef- \tilde{e} -bol'ik), a. [Gr. $\tilde{e}\phi\eta\beta oc$, youth, given to epanorthosis. + $\beta o\lambda \dot{\eta}$, a throw, east (ef. metabolic, etc.).] eparchæan (ep-är-ke'an), a. [Gr. $\tilde{e}\pi i$, upon, + Same as *ephebic, 2.

used in the classification of the stages of ontog-

ephectic (e-fek'tik), a. and n. [Gr. ἐφεκτικός, able to hold baek, < ἐπέχειν, hold baek, < ἐπί, to, unto, + ἐχειν, hold.] I. a. Holding the judgment in check.

II. n. One who suspends judgment.

All these men were called Pyrrhoneans from their master; and also doubters, and sceptics, and ephectics, or suspenders of their judgment, and investigators, from their principles. And their philosophy was called investigatory from their investigating or seeking the truth on all sides; and sceptical from their being always doubting (σεὐπομαι), and never finding; and ephectic, from the disposition which they encouraged after investigation, I mean the suspending of their judgment, epoche; and doubting, because they asserted that the dogmatic philosophers only doubted, and that they did the same.

Diogenes Laertius (trans.), Lives of the Philosophers [p. 405.]

Here too the Eparitoi must have had their quarters; and ltwas their duty, in case of an hostile assault, to defend the sonthern circuit of the walls.

J. B. Bury, in Jour. Hellenic Studies, XVIII. 18.

By the defending of Ephedra distachya and other species of Ephedra distachya and other species of Ephedra.

species of *Ephedra*. It is mydriatic. **ephedrismos** (ef-ē-dris'mos), n. [Gr. ἐφεδρισμός, lit. 'sitting or riding upon (another's back),' $\langle \dot{\epsilon} \phi \epsilon \delta \rho i \zeta \epsilon \nu \rangle$, sit or ride upon another's back, $\langle \dot{\epsilon} \phi \epsilon \delta \rho i \zeta \epsilon \nu \rangle$, sitting upon, $\langle \dot{\epsilon} \pi i$, upon, $+ \dot{\epsilon} \delta \rho a$, a A Greek game in which a stone was set up at a given distance and balls were epibenthic (ep-i-ben'thik), a. thrown at it. hrown at it. The player who failed to hit the stone was blindfolded and made to carry the victor to the stone.

This is also the ease with the group illustrating the oftrepeated theme of the *Ephedrismos* or Encotyle.

M. B. Huish, Greek Terra-cotta Statuettes, p. 123.

ephelkustic (ef-el-kös'tik), a. [Gr. έφελκυστις, attracted, drawn after, < ἐφέλκυσις, power tracted or appended: applied to the letter ν (n) when, for the sake of euphonious utterance, it is appended to a word ending in a vowel and followed by another beginning with a vowel.

ephemeranthy (e-fem'e-ran-thi), n. [Gr. ἐφή-μερος, of the day, fleeting, + ἀνθος, flower.] In bot. the phenomenon of lasting only one day or less: referring to flowers or, chiefly, their corollas. F. E. Clements.

Ephemerida (ef-ē-mer'i-dā), n. pl. [NL.] The Ephemeridæ considered as of ordinal rank.

ephemeromorphic (e-fem e-rō-môr fik), a. [Gr. ἐφήμερος, of the day, + μαρφή, form.] Of or pertaining to the ephemeromorphs; of or pertaining to a form of organic life that is transitory and unstable—in particular, a form of life which, being definitely neither plant nor auimal, has no permanent place in nature;

ephemeromorphous. [Rare.] **Ephemeroptera** (e-fen-e-rop'tō-range), n. pl. [NL., ζ Gr. ἐφήμερος, of the day, + πτερόν, wing.] In entom., the Ephemeridæ considerations of the consideration of the con

ered us an order. ephete (ef et). n. [Gr. ἐφέτης, a commander, a magistrate, $\langle \dot{\epsilon}\phi\dot{\epsilon}\dot{\nu}a\dot{\epsilon}$, send to, command, $\langle \dot{\epsilon}\pi\dot{\epsilon}$, to, + $i\dot{\epsilon}\nu a\iota$, send.] In Gr. antiq., a criminal

ephetic (e-fet'ik), a. [ephete + -ic.] Of or

pertaining to the office of ephete.
ephippial, a. 2. Having or carrying a broodcrustaceans.

ephippic (e-fip'ik), α. [Gr. ἐφίππιαν, a saddle-cloth (taken for 'saddle'), + -ie.] Saddle-shaped; specifically, having the ends of the vertebral centra concave in one plane and convex in the other, as are the cervical vertebræ

or superintendent of public works.

ephoral

contrasted with the adolescent and the Ephraimite (e'frg-im-it), n. 1. In Old Test. hist., a member of the tribe of Ephraim, one of the 12 tribes of Israel.—2. A nickname for pieces of 8 groschen struck at Berlin by Frederick the Great about 1759: so called from one of the directors of the mint.

ephydriad (e-fid'ri-ad), n. [Gr. ἐφνδριάς (-αδ-), of the water (sc. $\nu i \mu \phi \eta$, nymph), $\langle \hat{\epsilon} \pi l$, upon, $+ \hat{\nu} \delta \omega \rho$, water.] A water-nymph. L. Hunt. [Rare.

ephydrid (ef'i-drid), a. Of or belonging to

the dipterous family Ephydridæ.

ephydrogamic (ef″i-orō-gam'ik), a. [Gr. ἐπί, upon, $+i\delta\omega\rho$, water, $+\gamma\delta\mu\rho\varsigma$, marriage, +-ie.] Hydrophilous, with the pollination occurring on the surface of the water.

ephyrula (ef-ir'ū-lä), n.; pl. ephyrulæ (-lē). NL.] A young acraspedote medusa newly set

free from the scyphistoma. epial (ep'i-al), n. [F. épial (Geoffroy), \langle Gr. $\varepsilon\pi$ i, upon, + -al.] In ichth., the neural spine; the spine in which the neural arch ends. Starks, Synonymy of the Fish Skeleton, p. 524. epialid, hepialid (ē-, hē-pī'a-lid), n. and a. 1. n. A member of the family Epialidæ (Hepialidæ).

II. a. Of or belonging to the lepidopterous.

family Epialidæ (Hepialidæ). epiandrium (ep-i-an'dri-um), n.; pl. epiandria (- \ddot{u}). [NL., $\langle Gr. \dot{e}\pi i$, to, $+ \dot{a}v\eta\rho$ ($\dot{a}v\delta\rho$ -), male.] In the Arachnida, the opening of the male genital organs.

Epibaterium (ep "i-bā-tē 'ri-um), n. [NL. (Forster, 1776), in allusion to the climbing habit, < Gr. επιβατήριος, of or for climbing, nabit, (Gr. επιβατήριος, of or for elimbing, (επιβατέριος, of our for elimbing, (επιβατέριος, of our for for elimbing, for plants of the family Menispermaceæ. They are usually twining shrubs with axillary panieles of small flowers, but the leaves not peltate as in some related genera. There are about 30 species, widely distributed, chiefly in the tropical and subtropical regions of the Old World. One species, E. Carolinum (Cocculus Carolinus of Linnens), occurs in the southern United States, and another, E. diversifolium (Cocculus diversifolius of de Candolle), extends from Texas to Arizona and Mexico.

epibenthic (ep-i-ben'thik), a. [epibenthos + -ic.] Living upon or in the bottom of the continental shelf or littoral zone of the ocean; of or pertaining to epibenthos. or pertaining to epibenthos. See *cpibenthos,

*benthos, *benthonic.

Everywhere, however, the *epibenthic* fanna is exposed to certain definite convironmental conditions, as compared with a deeper fauna. *Encyc. Brit.*, XXXIII. 933.

thos, or deep-sea fauna and flora—namely, those that live in the sea-bottom of the continental shelf or littoral zone, and those that are attached to its surface, and those that creep or run over its surface, considered collectively. See *benthos.

The fauna of this zone [continental shelf or littoral zone], generally very well characterized, may be distinguished as the epibenthos. Encyc. Brit., XXXIII. 933.

epiboulangerite (ep"i-bö-lan'jèr-it), n. [epi-+ boulangerite.] A lead sulphantimonate, Pb₃Sb₂S₈, occurring in dark bluish-gray to black masses. It is perhaps derived by alteration from boulangerite. epibranchial, n. -2. In ichth., one of the upper

epibranchial, n. ·2. In ichth., one of the upper bones of the gill-arches. They lie just above the angle of each arch, between the superior plaryngeals (which they support) and the ceratobranchials below. epibranchiale (ep*i-brang-ki-ā'le), n.; pl. epibranchialia (-li-ā). [NL., nout. of *epibranchialis, < Gr. ἐπί, upon, + βράγχα, gills: see branchial.] In ichth., the uppermost of the three pieces of the gill-branches (branchialia) in the gill-apparatus.

in the gill-apparatus.

Epibulia (ep-i-bū'li-ä), n. [NL.] The typical genus of the family Epibulidæ. Eschscholtz, 2829.

magistrate in Athens, especially one who tried cases of murder.

**Epibulidæ* (ep-i-bū'li-dē), n. pl. [Nl., < Epibulidæ* (ep-i-bū'li-dē), n. pl. [Nl., < E

epicheilous, a. See *cpichilous.
epichilous (ep.i-ki'lus), a. [Gr. ἐπιχειλής,
on or at the lips, ⟨ἐπί, upon, + χείλος, lip.] Of
or pertaining to the lip or buccal segment: specifically applied to earthworms having the

prostomium separated from the buccal ment by a complete groove. Also epicheilous. Proc. Zool. Soc. London, 1901, p. 199. Epichloë (e-pik'lō-ē), n. [NL. (Tulasne, 1865), ⟨ Gr. ἐπί, upon, + χλοή, grass, verdure.] A genus of parasitic fungi of the order Hypocreales, having the perithecia embedded in a smooth, bright-colored, fleshy stroma which is at first covered with a conidial layer. The asci are cylindrical and contain 8 hyaline filliform spores. The

are cylindrical and contain 8 hyaline fillform spores. The species are mostly parasitic on grasses, as the name indicates. E typhina frequently attacks the cultivated grasses, Poa pratensis, blue-grass, and Phleum pratense, timothy. epichondrosis (ep"i-kon-dro'sis), n. [NL., < Gr. ἐπί, upon, + χόνδρος, eartilage, + -osis.] A growth of cartilage upon the periosteum, such as that producing the antlers of a deer.

Epichondrotic growths preponderate, with multiple and broadened bases.

Proc. Zool. Soc. London, [1902, I. 218.

epichordal, a. 2.

Noting a type of ver- b tebræ, found in some Batrachia, in which the cartilaginous elements from which the centra of the vertebræ are developed are suppressed on the ventral side of the notochord, as in Pipa, Bombinator, and Alytes.

The epichordal feature is not necessarily indicative

of relationship.

H. Gadow, Amphibia and
[Reptiles, p. 20.

epichorion (ep-i-kō'rion), n.; pl. epichoria (-ä). [Gr. $\varepsilon\pi\ell$, upon, + $\chi\delta\rho\iota\sigma\nu$, the membrane that incloses the fetus.] In embryol., that portion of the uterine mucosa incloses the egg in

One-half natural size.

a, cavity of uterus; \(\cdot\), decidua
vera; \(\cdot\), dorsal wall of uterus; \(\delta\), decidua
vagina; \(\cdot\), os uteri; \(\cdot\), cervix
uteri; \(\cdot\), villi projecting from
wall of blastodermic vesicle; \(\delta\),
uterine glands; \(\cdot\), cavity of
ovum or blastodermic vesicle; \(\delta\),
uterine glands; \(\cdot\), cavity of
ovum or blastodermic vesicle; \(\delta\),
decidua serotina; \(\delta\), epichorion; \(\mu\), ventral wall of uterus.
(From Marshall's "Vertebrate
Embryology,") which folds over and mammals. **epichrosis** (ep-i-krō'sis), n. [NL., < Gr. επίχρωσις, a surface stain, < επιχρωννίναι, color on the surface, $\langle i\pi i, \text{upon}, + \chi \rho \omega nviva, \text{color.} \rangle$ Cutaneous discoloration, as in chloasma,

A longitudinal section of the human uterus with an ovum in situ estimated as about the thir-

teenth day. (After Kollman.) One-half natural size.

freckles, etc. epichysis (ep-i-ki'sis), n.

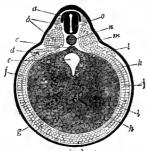
epichysis (ep-i-ki'sis), n. [NL., \ Gr. επίχνους, a pouring in, also a pitcher, \ επίχεῦν, pour in, \ επί, on, in, + χεῖν, pour.] In Gr. arehæol., a pitcher for wine, etc.; a beaker.
epiclastic (ep-i-klas'tik), a. [Gr. ἐπί, upon, + κλαστός, broken, + -ie.] In petrog., noting detrital, surficial rocks made up of fragments

of preëxisting rocks. Teall, 1887. epiclavicle (ep-i-klav'i-kl), n. 1. In ichth. same as supraclavicle (which see).—2. A bone of the shoulder-girdle of stegocephalian amphibians extending dorsally from the clavicle; bling the epidermis. the clithrum.

epicnemial (ep-ik-në'mi-al), a. [epienemis + -all.] Relating to the superior and anterior portion of the tibia.—Epicnemial process, the long, npwardly directed process on the superior part of the tibia, particularly pronounced in grebes and loons. epicnemis (ep-ik-nē'mis), n. [NL., $\langle \epsilon \pi i, \text{upon},$

+ κνημη, tibia.]
A small sclerite sometimes found at the of base the tibia in some Araehnida. which does not appear to have séparate mo-

epicœloma (epi-sē-lō'mā), \hat{n} . [Gr. $\hat{\epsilon}\pi\hat{\iota}$, upon, + κοίνωμα (τ-), a hollow, cavity: ealoma.] The portion of the coloma, or trne body-cavity, nearest the notochord the vertebrate embryo. Also epicalom.



m. epicæloma.

Transverse section across the middle of the length of a frog embryo. Magnified.

the length of a frog embryo. Magnihed, a, dorsal root of spinal nerve; b, meso-blastic somite; c, submotochordal rod; d, archinephrie duct; c, intestinal region of mesenteron; f, splanchnocele; gc, epilast; h, yolk-cells; n, mesoblast; f, splanchnopleuric layer of mesoblast; f, schinephrie duct; m, myoccele or epicceloma; n, notochord; o, spinal cord. (From Marshall's "Vertebrate Embryology.")

epicontinental (ep"i-kon-ti-nen'tal), a. [epi-+ eontinental.] In geol., resting upon a con-tinent: said of shallow seas formed by the submergence of continental areas in certain geological periods. Chamberlin and Salisbury, Geol., I. 11.

epicostal (ep-i-kos'tal), a. [Gr. ἐπί, upon, + l. costa, rib, + -al¹.] Lying upou a rib. epicotyleal (ep'i-kot-i-le'al), n. [Gr. ἐπί, upon, + κοτὲλη, cup, + -al¹.] In ichlh., the metapterygoid, one of the lateral bones of the head of fishes. Starks, Synonymy of the Fish Skel-

A growth of earthage upon.

A growth of earthage upon.

epichondrotic (ep'i-kon-drot'ik), a. [epichon-drosis(-ot-)+ie.] Relating to a growth of earthage upon the periosteum or perichondrium.

min antiers of deer are epichondrotic growths.

epicrisis, n. 3. A secondrosis(-ot-)+ie.] Relating to a growth of earthage upon the periosteum or perichondrium.

epicrisis, n. 3. A secondrosis(-ot-)+ie.] In geol., noting a crystalline structure or character which is superimposed for often in regional metamorphism) upon an Geikie. Text-book of older sedimentary one. Geikie, Text-book of Geol., p. 802.

epicurrent (ep'i-kur-ent), n. [Gr. ἐπί, upon, + L. currens, current.] A stream or current at the surface of the sea, such as the Gulf Stream. Haeckel (trans.), Planktonic Studies, p. 625.

epicycle, n. 2. (b) In mod. astron., sometimes used for the geocentric path of a planet, or its path relative to the earth regarded as fixed. epicyclic, a. II. n. A curve which is the path of a point P describing uniformly a circular orbit relatively to a point Q which itself has a uniform circular motion about O. If the angular velocities have the same sign, the epicyclic is direct; if opposite, retrograde.

epidemicity (ep-i-dē-mis'i-ti), n. [epidemic + ity.] The condition of being epidemic. Encyc. Brit., XXVII, 468.

epidemiographist (ep-i-dē-mi-og'ra-fist), n. writer on the subject of epidemics. N. E. D. epidendral (ep-i-den'dral), a. [Gr. $\dot{\epsilon}\pi\dot{i}$, upon, + $\delta\dot{\epsilon}\nu\dot{\delta}\rho\sigma\nu$, tree, + $-al^{1}$.] Growing on trees: applied chiefly to epiphytes: as, au epidendral orchid

epidendric (ep-i-den'drik), a. Same as *epidendral.

epiderma (ep-i-der'mä), n.; pl. epidermata (-ma-tä). [NL., \langle Gr. $\dot{\epsilon}\pi\dot{\iota}$, upon, + $\delta\dot{\epsilon}\rho\mu a$, skin.] A cutaneous excrescence, such as a

epidermatic (ep#i-der-mat'ik), a. Same as epidermie.

epidermatous (ep-i-der'ma-tus), a. Pertain-

[NL., $\langle Gr. i\pi i \chi v \sigma i \sigma \rangle$] ing to or affecting the epidermis. Epidermic globes. Same as epithelial pearls (which see, er, $\langle i\pi i \chi e i v \rangle$, pour in, r.] In Gr. archwol., method, under epidermic.

epidermin (ep-i-der'min), n. [epidermis + -in².] An emollient consisting of equal parts of white wax, acacia, glycerin, and water, employed as a vehicle for exhibiting skin-medication.

epidermoid, a. H. n. A tumor composed of

cells resembling those of, or derived from, the

bling the epidermis. epidermol'i-sis), n. [Gr. $\varepsilon \pi \iota \delta \varepsilon \rho \mu(i\varsigma)$, epidermis. + $\lambda \iota \sigma \iota \varsigma$, loosening.] A loosening of the epidermis from the next underlying layer of the skin.

epidermoma (ep'i-dèr-mō'mā), n.; pl. epider-momata (-ma-tā). [Gr. ἐπιδερμ(ις), epidermis, + -oma.] A cutaneous excrescence or outgrowth, such as a wart.

epidermosis (ep″i-der-mō′sis), n.; pl. epidermoses (-sēs). [Gr. $\dot{\epsilon}\pi\iota\delta\epsilon\rho\mu(\dot{\iota}\zeta)$, epidermis, + moses (-ses). [Gr. $\epsilon\pi\iota\delta\epsilon\rho\mu(ic)$, epidermis, + -osis.] A disease of the skin which affects

chicfly the superficial layer, or epidermis. epidiabase (cp-i-dī'a-bās), n. [epi-+diabase.] In petrog., a diabase the augite in which has been changed to amphibole, uralite, or hornblende: applied to rocks previously called epidiorite. Issel, 1892.

epidiascope (ep-i-dī'a-skōp), n. [Gr. ἐπί, upon, + διά, through, + σκοπεῖν, view.] An upon, + διά, through, + σκοπεῖν, view.] An instrument for the optical projection of the epigynum (e-pij'i-num), n.; pl. epigyna (-nā). images of opaque bodies on a screen by means of reflected or transmitted light. It consists of a lantern-box containing a powerful arc-light, a water-tank for removing heat-rays, and a scries of mirrors beneath and above the objective. Nature, Feb. 19, 1903, epididymectomy (ep-i-did-i-mek'tō-mi), n. epigyny (e-nij'i-ni), n. [epigyn-ous + -yS.] in bot, the character of being epigynous; the correlle and stowers that the character of the store of the top of the store of the stor

epididymectomy (ep-i-did-i-mek'tō-mi), n. [NL. cpididymis + Gr. ἐκτομή, excision.] Excision of the epididymis. Jour. Trop. Med., Jan. 15, 1903, p. 25.

epididymite (ep-i-did'i-mīt), n. [Gr. $\dot{\epsilon}\pi\dot{\iota}$, upon, + E. (eu)didymite.] A silicate of beryllium

and sodium, HNaBeSi₃O₈, occurring in colorless twinned orthorhombic crystals of tabular habit: found in southern Greenland. has the same composition as eudidymite, but differs from it in crystallization.

epidotiferous (ep[#]i-dō-tif'e-rus), a. [epidote + L. ferre, bear.] Containing epidote; epi-[epidote

epidotization (ep"i-dō-tī-zā'shon), n. [epidote + -ize + -ation.] In petrog., that form of metamorphism which is accompanied by the formation of epidote, usually at the expense of the ferromagnesian minerals, but also from the feldspars in some instances.

epidural (epi-dū'ral), a. [epi-+dura (mater) + -all.] Situated upon the dnra mater: as, the epidural space, an interval between the periosteum which lines the spinal canal and

the dura mater of the spinal cord.

epifocal (ep-i-fô'kal), a. [epi-+focal.] Lying about the focus; arranged with reference to the focus; near the focus; specifically, above the seismic center or focus of an earthquake.

When this material is volcanic it is almost invariably magnetic, and we perceive in its sudden rearrangement causes which should produce magnetic effects within an epifocal district.

Encyc. Brit.. XXVII. 608

epifolliculitis (ep'i-fo-lik-ū-lī'tis), n. [NL., \langle Gr. $\epsilon\pi i$, upon, + NL. folliculus, follicle, + -itis.] Inflammation of the hair-follicles of the scalp.

the scalp.

epigamic (ep-i-gam'ik), a. [Gr. ἐπί, upon, +
γάμος, marriage.] Relating to the mating of
animals: as, epigamic colors, those worn by
males during the mating period and supposed
to attract the females. E. B. Poulton, Colors
of Animals, p. 338.—Epigamic character, any
characteristic of color, markings, structure, or conduct
which serves to attract or excite the other sex during the
courtship of animals, such as the song of birds, the drumming of the grouse, the plumage of the peacock, etc.—Epigamic coloring. See *coloring.

Epigastric angle, fold, fossa, zone. See
*angle3, *fold1, *fossa, and abdominal regions,
under abdominal.

epigenetic (ep"i-jē-net'ik), a. [epigenesis, af-

epigenetic (ep'i-jē-net'ik), a. [epigenesis, after genetic.] 1. Of, pertaining to, or produced ter genetic.] by epigenesis.

He criticises the ideas of progress and of the unity of history, and contends for an epigenetic as distinguished from an evolutionary view of the origins of civilisation.

Mind, XII. 629.

2. In phys. geog., a term applied to those rivers whose courses have been determined by the slope of a once overlying series of strata, now removed by erosion so as to disclose rock-structures of another arrangement; superposed; inherited.

epigenist (e-pij'e-nist), n. [epigen(y) + -ist.] One who accepts the doctrine of epigenesis as opposed to evolution in the sense of preformation: same as epigenesist.

epigenite (e-pij'e-nīt), n. [Gr. ἐπιγενής, growing after, + -ite².] A sulpharsenate of copper and iron occurring in steel-gray prismatic crystals: found near Wittichen, Baden.

epiglottitis (ep[#]i-glo-ti'tis), n. [NL., \langle epi-glottis + -itis.] Inflammation of the epiglottis. epignath (ep'ig-nath), n. [Gr. $\dot{\epsilon}\pi i$, upon, + $\gamma v \dot{a}\theta o c$, jaw.] In Isopoda, an epipodite usually consisting of one article affixed to the external margin of the protopodite or basal part of a maxilliped.

epigonal (e-pig'ō-nal), a. Characteristic of or pertaining to an epigone. See epigone¹. epigraf, n. and v. t. A simplified spelling of

emgraph. epigramme (ep-i-gram'), n. [F. épigramme: see cpigram.] A small fillet of game, poultry, lamb, or other delicate meat prepared and served as an entrée.

epiguanine (ep-i-gwä'nin), n. One of the

epigyne (ep'i-jin), n. [Gr. ἐπί, to, + γινή, female.] The female aperture or vulva in arachnids. Proc. Zool. Soc. London, 1900, p. 387.

growth of corolla and stamens on the top of

the ovary.

Apart from this, botanists are generally agreed that the concrescence of parts of the flower-whorls . . . is an indication of advance, as is also the concrescence that gives the condition of epigyny. Encyc. Brit., XXV. 440.

epihypocycloidal (ep"i-hī-pō-sī-kloi'dal), a. [epi- + hypocycloidal.] In math., having a generating rolling curve of such a form that the portion of the profile without the primitive circle is epicycloidal, while that within it is hypoeveloidal.

epilaryngeal (ep "i-lā-rin' jē-al), a. [Gr. $\varepsilon\pi i$, upon, $+\lambda \acute{a}\rho\nu\gamma\xi$, larynx, + -e-al.] Above the

larynx; falsetto.

epilate, v. t.-Epilating forceps. See *forceps.

epilatory (ē-pil'a-tō-ri), n. [L.e, out, + pilus, hair, after depilatory.] Same as depilatory. epilemma (ep-i-lem'ä), n.; pl. epilemmata (-matä). [Gr. επ', upon, + λέμμα, scale.] The fine, transparent sheath of a terminal nervefibril.

epilemmal (ep-i-lem'al), a. Of or pertaining to the epilemma. Jour. Exper. Med., March 25,

1901, p. 506.

epilepsy, n.—Cursive epilepsy, epilepsy in which the prodromes take the form of an impulse to run.

— Diurnal epilepsy, a form of epilepsy in which the attacks occur only or chiefly during the daytime.—Focal epilepsy. Same as cortical epilepsy.—Laryngeal epilepsy. Same as laryngeal *vertigo.—Nocturnal epilepsy. a form of epilepsy in which the paroxysms occur only at night, and usually during sleep.—Psychic epilepsy, a form of epilepsy attended with mental derangement.

Epileptic cry. See *cry. Epileptic status a morbid condition marked by almost continuous epileptic seizures, the Intervals between which are passed in a state of coma

epileptoid, a. II. n. A person who is prone

to have epileptic seizures.

epilobe, n. 2. In bot., a plant of the genus Epilobium. Also applied to Chamænerion angustifolium, the great willow-herb, long ineluded in Epilobium.

epilog, n., and v. i. A simplified spelling of epilomie.

epilogismt, n. 2. Something added; an epi-

epilogist (e-pil'ō-jist), n. [cpilogue + -ist.]
The writer or the speaker of an epilogue.

The epilogist says that missing sections of the tale will be lost unless he finds time to treat then; this is a confession that the pretended book of the Grail (assumed according to the usual mediaval fletion) has no existence outside of his inner consciousness.

Jour. Amer. Folk-lore, Jan.-March**, 1902, p. 55.

epimagmatic (ep-i-mag-mat'ik), a. [epi-+ magmatic.] In petrog., noting those minerals in igneous rocks which have been formed since the solidification of the magma: not pyrogenetic. Such minerals are often called secondary minerals. See secondary, 4.

epimere (ep'i-mēr), n. [Gr. $\varepsilon \pi i$, upon, + $\mu \epsilon por$, part, portion.] 1. In $\epsilon mbryol$., a portion of the mesodermal wall of the epieceloma in the vertebrate embryo. See cut under

*epiceloma.—2. In zoöl., same as epimeron.
epimorphosis (ep*i-môr-fô'sis), n. [Gr. ἐπί,
upon, + μόρφωσις, forming, < μορφοῦν, r., form,
< μορφή, form.] The regeneration of a piece
or fragment of an organism by cell-proliferation at the cut or injured surfaces: a more eommon form of regeneration, distinguished from *morphallaxis.

repimysium (ep-i-mi/si-nm), n. [NL., erroneously formed from Gr. $\dot{e}\pi\dot{i}$, upon, $+\mu\bar{\nu}\varsigma$ ($\mu\nu$ -), musele.] The connective-tissue sheath of a

muscle

epimyth (ep'i-mith), n. [NL. epimythium, ζ Gr. ἐπιμίθου, ζ ἐπί, upon, + μίθος, fable. Compare affabulation.] The moral appended to a fable or story.

epimythium (ep-i-mith'i-um), n.; pl. cpimythia (-ä). [NL.] Same as *cpimyth.

Such are the repetition in cursive of a fable . . . and of an epimythium.
D. C. Hesseling, in Jonr. Hellenic Studies, XIII. 296.

epinephridial (ep"i-nef-rid'i-al), a. [Gr. $\epsilon\pi i$, upon, + NL. nephridium + -all.] Of or pertaining to the spaces above the renal organ or nephridium. See the quotation under *periqonadial.

epinephrin (ep-i-nef'rin), n. [Gr. $\dot{\epsilon}\pi\dot{\iota}$, upon, + $\nu\epsilon\rho\rho\delta\varsigma$, kidney, + $-in^2$.] 1. A term introduced by J. J. Abel to designate the active blood-pressure raising principle of the adrenal glands. See also *adrenalin.—2. The preprietary name of a preparation made from the suprarenal capsule, which possesses marked

hemostatic properties.

epineural, a. 2. Lying upon or over a nerve.

- Epineural canal, in some echinoderms, one of the canals which run between the nervous system and the adjacent body epithelium.

Epinnula (e-pin'ū-lā), n. [NL., < L.ē-, out, + pinnula, dim. of pinna, fin.] A genus of seom-

in the West Indies

epinotum (epi-no'tum), n.; pl. epinota (-tä). [Nl., ζ Gr. επί. upon, + νωτος, back.] Same as metanotum. Biol. Bulletin, May, 1904, p. 258. epionychium (ep*i-ō-nik'i-um), n.; pl. epiony-chia (-ā). [NL., \langle Gr. $\dot{\epsilon}\pi i$, upon. + $\dot{\delta}vv\bar{\epsilon}$ ($\dot{\delta}vv\chi$ -), nail.] The membrane which eovers the nails of the fetus.

epiopticon (ep-i-op'ti-kon), u.; pl. epioptica (-kä). [NL., < Gr. επί, upon, + ὁπτικός, optic.] The second of the three ganglionic swellings in each of the optic ganglia of an insect. A. S. Packard, Text-book of Entom., pp. 253, 254. epiostracum (ep-i-os'tra-kum), n. [NL., < Gr.

epiostracum (ep-i-os'tra-kum), n. [NL., \langle Gr. $\epsilon \pi i$, upon, $+ \delta \sigma \tau \rho a \kappa o \nu$, shell.] The outer layer in the integument of Acarina. It consists of a single layer of cells, rounded or conical on the outer side and flat on the inner side. These cells form the papillæ with which the soft parts of the body are often coated.

epiotic, n. 2. One of the outer or lateral pair of the supratemporal bones in the cranial roof of the stegoeephalian Amphibia, regarded as bones of dermal origin. - 3. In ichth., a lateral, posterior paired bone of the cranium, usually forming a blunt projection. It lies at the side of the supraoccipital behind the parietal, and articulates below with the exoccipital. The upper limb of the post-temporal is attached to it.

epiparasite (ep-i-par'g-sīt), n. [Gr. $\hat{\epsilon}\pi\hat{\iota}$, upon, agents, or with a powder.

II. n. A substance which causes a blister when applied to the skin; blister-plaster; a

vesicatory.

Epiph. An abbreviation of *Epiphany*

epiphallus (ep-i-fal'us), n.; pl. epiphalli (-i). [NL., < Gr. έπί, upon, + φαλλός, phallus.] lu [NL., $\langle \text{Gr. } \hat{\epsilon}\pi i, \text{ upon, } + \phi a \lambda \lambda o c, \text{ pnamus.}]$ in growth.] Any disease of the skin. some pulmonate gastropods, an enlargement epiphyseolysis (ep-i-fi-sē-ol'i-sis), n. [NL., $\langle \text{of the vas deferens, which does not enter the penis directly, but is continued beyond the apex of that organ and frequently bears a long plind duet. The flagellum. Proc. Zool. Soc. six + itis.] Inflammation of an epiphysis.$ of the vas deferens, which does not enter the penis directly, but is continued beyond the

Loudon, 1897, p. 447.

epiphenomenal (ep"i-fē-nom'e-nal), a. [epi-phenomenon + -all.] Pertaining to or of the

nature of an epiphenomenon.

The spiritual becomes the "epiphenomenal," a merely incidental phosphorescence, so to say, that regularly accompanies physical processes of a certain type and complexity,

Enege. Erit., XXX1, 88.

From the standpoint of naturalism's world described in such terms is epiphenomenal.

J. Ward, Naturalism and Agnosticism, ii.

epiphenomenalism (ep"i-fē-nom'e-nal-izm), n. [epiphenomenal + -ism.] The doctrine that conscionsness, or mind, is an added or secondary phenomenon (epiphenomenon); the doctrine that conscionsness is the incidental result of the phenomena of neural structure and of neural activity according to the laws of mechanics. According to this view, freedom and responsability are illusions or a routine, having no more real relation to conduct than has the sound of the bell to its tolling or the whistle of the engine to its movements. The aim of science is held to be the objective study of a material universe, into which our minds must not be thrust as part of the problem, which is complete and intelligible only when considered objectively and as separated from our minds by a chasm that is intellectually impassable. Sensible knowledge is held to consist of phenomena or appearances which are produced in our minds by a natural world that in itself is, and always must be, atterly unknown and unknowable; and as the human brain is part of the phenomenal world of appearances in our minds, critical epiphenomenalism resolves itself into the assertion that our minds are the by-products of appearances in our minds, produced by we know not what.

How does enightnownenalism arise? By immediate neural activity according to the laws of me-

How does epiphenomenalism arise? By immediate inference from the fundamental thesis of parallelism, the denial of causal relations between mental and physical. If the volition is not the cause of its movement, then consciousness is inefficient. If the physical world is a closed circle, then the mind is a more epiphenomenon on the roof of things but looking helplessly down. Everything goes on exactly as if it were not present. It is therefore, so to speak, a potential absentee. If it were an actual absentee, the world would be no different.

C. A. Strong, Why the Mind has a Body, p. 80.

epiphenomenalist (ep#i-fē-nom'e-nal-ist), n. [epiphenomenal + -ist.] One who holds consciousness to be an epiphenomenon. See *epiphenomenalism. C. A. Strong, Why the

Mind has a Body, p. 83. epiphenomenalistic(ep"i-fē-nom"e-nal-is'tik), a. Partaking of the character of epiphenomenalism. C. A. Strong, Why the Mind has a Body, p. 350.

broid fishes of the family Gempylidæ: found epiphenomenon, n. 2. A phenomenon which is secondary to another or others; a phenomenon which is a sort of by-product in no wise affecting other phenomena. The term is used especially to describe consciousness as conceived by Dr. Shadworth Hodgson, who thinks that not only is consciousness without effect upon the brain, but that one idea is without effect upon other ideas.

The human soul Herbart conceived to be such a real, its various presentations and mental processes being but passing *cyciphenomena* of its simple underlying existence. These *epiphenomena* he attributed to the interaction of the reals.

II. Nichols, Cosmology, § 121.

To say that consciousness is an anna or rephenomenon of the organism, which itself is but a mechanical automaton, is to shirk the difficulty, not to face it.

J. Ward, Naturalism and Agnosticism, 11. 37.

Specifically -3. In psychol, theory, a collateral

product of a given set of conditions; a phenomenon which accompanies the effect of a given cause, but which itself has no place in the chain of cause and effect.

They [psychical changes] are called collateral products or "*epiphenomena*" to obviate the charge of materialism, and to conform to the interpretation of the conservation of energy that we have just discussed.

Encyc. Brit., XXXII. 68.

4. In neurol., a supererogatory phenomenon; something added after the plan of the work is complete.

The cortex cerebri [is] the most important portion of the brain from a psychical point of view, though from the physiological standpoint it may seem rather an *cpiphe-*nomenon or afterthought. *Buck*, Med. Handbook, H. 273.

Epiphenomenon hypothesis. See \star epiphenomenalism. epiphonematical (ep "i-fō-nē-mat'i-kal), a. [epiphonema(t-) + -ie + -all.] Of the nature of an epiphonema.

epiplylly (ep'i-fil-i), n. [Gr. $\varepsilon\pi\ell$, upon, $+\phi\ell\ell\lambda\sigma\nu$, a leaf, $+-y^3$.] The occurrence of epiphytes upon leaves. Kearney, Contrib. National Herb., V. 436.

epiphyma (ep-i-fi'ma), n.; pl. epiphymata (-ma-tä). [NL., \langle Gr. $\epsilon\pi$ i, upon, + $\phi\bar{\nu}\mu\sigma$, a growth.] Any disease of the skin.

sis + -itis.] Inflammation of an epiphysis.

epiphyte, n., 1. Schimper classifies epiphytes as follows: (a) protocopiphytes, comprising the little-homogeneous species which are compelled to obtain nourishment from the surface of their support and directly from atmospheric sources; (b) hemi-epiphytes, which germinate and pass through their carliest stage on trees, but which later become connected with the ground by their roots; (c) nest-epiphytes, consisting of species which by appropriate devices collect large quantities of humus and water; (d) tank-epiphytes, in which the root system is developed only as an anchoring apparatus or is entirely suppressed, so that the whole process of nutrition is carried on by the activity of the leaves.

epiphytism (ep'i-fi-tizm), n. [epiphyte + -ism.] The character or habit of being epiphytie.

epiphytotic (ep'i-fi-tot'ik), a. [Gr. ἐπί, npon, + φντόν, plant, + -otic (as in epizootic).] In

+ $\phi v r \delta v$, plant, + -otic (as in epizootic).] In bot., noting an epidemic of a plant-disease. epiphytous (ep"i-fi'tus), a. Same as epiphytic. epiplankton (ep-i-plangk'ton), n. [NL., ζ Gr. επι, upon, + NL. plankton.] The animals and plants which float or swim at the surface or above the hundred-fathom line, considered collectively and in contrast with the dwellers in deeper water; the pelagic plankton (which see, under *plankton).

The epiplankton of the open sea is described as oceanic; consists almost entirely of holoplanktonic forms and neir larvæ.

Encyc. Brit., XXXIII. 936. their larvæ.

Limnitie epiplankton, the animals and plants which float or swim at or near the surface of fresh water.— Neritie epiplankton, the floating or swimming animals and plants of the waters near the coast.— Oceanic epiplankton, the floating and swimming organisms of the high sea.

epiplanktonic (ep'i-plangk-ton'ik), a. [epi-plankton + -ie.] Of or pertaining to epi-plankton; floating or swimming in the water at the surface or above the hundred-fathom

line; pelagic. See *planktonic. epiplasmic (ep-i-plaz'mik), a. [epiplasm +

-ic.] Of or pertaining to the epiplasm.

epiplastral (ep-i-plas'tral), a. and n. [epi-plastron + -al¹.] I. a. Of or pertaining to the epiplastron.

II. n. One of the pair of bones which lie behind the entoplastron bone of the plastron of the *Chelonia*, or turtles. Together these bones form the epiplastron. See the cuts under

Chelonia and plastron.

epipleur (ep'i-plör), n. [Gr. ἐπί, upon, +
πλευρά, the side.] A cavity in Amphioxus,
surrounding the pharynx at the sides and below, into which the respiratory stream of from which it escapes through the atrial pore.

epipleural, n. 2. Same as epipleura, 1. epiploenterocele (e-pip* $l\bar{o}$ -en'te-r \bar{o} -sel), u. [Gr. $\epsilon\pi\iota\pi\lambda oor$, omentum, + $\epsilon\nu\tau\epsilon\rho or$, intestine, + $\epsilon\nu\lambda\eta$, a tumor.] Hernia of a loop of intestines. tine and portions of the omentum.

epiplopexy (e-pip'lō-pek-si), u. [Gr. $\epsilon\pi i\pi\lambda oon$, omentum. + $\pi i\xi u$, fastening.] Attachment, by a surgical operation, of the omentum to the anterior abdominal wall in order to cause anastomosis between the blood-vessels of the

epipod (ep'i-pod), n. Same as epipodite. epipodal (e-pip'ō-dal). a. Same as epipodial. epipodium, n. 2. In some Echinoidea, a raised ring surrounding each pair of pores on each primary ambulaeral plate.

pipolize (e-pip'ō-līz), v. t.; pret. and pp. epipolized, ppr. epipolizing. [Gr. ἐπιπολή, a surface, + -ize.] To render fluorescent. See epipolized.

epipterygoid (ep-ip-ter'i-goid), a. and u. I. a. Situated upon or above the pterygoid bone.

- Epipterygoid bone, a rod-shaped bone articulating with the pterygoid bone.

II. n. 1. In herpet., a cartilage-bone, de-

veloped in somo reptiles, which abuts on the superior face of the pterygoid.—2. In ornith., a hook-like process developed on the inner edge of the pterygoid near its articulation with the quadrate.

epipygium (ep-i-pij'i-um), n.; pl. epipygia (-ä). [Gr. $\epsilon \pi i$, upon, $+ \pi v \gamma \eta$, the buttocks.] The last dorsal segment of an insect's abdomen: applied especially to the aculeate Hymenoptera. Proc. Zool. Soc. London, 1901, p. 236. epirhizous (ep-i-ri'zus), a. [Gr. ɛˈπi, upon, +

epirizous (ep-1-17 zus), a. [er. επι, upon, τ-ρίζα, root.] Growing on roots. epirogenic (e-pi-rō-jen'ik), a. [Gr. ἡπειρος, a eontinent, + -γενης, -producing.] Continent-making; in geol., pertaining to movements by which wide changes of level have occurred without special orogenic results; noting continent-making movements or the up-and-down movements or oseillations of continental areas. G. K. Gilbert, 1890.—Epirogenic physiography, land-features controlled and limited largely by epirogenic disturbances which give rise to cycles of change: a term proposed by W. H. Hobbs, together with the contrasted term orogenic physiography, which emphasizes the importance of earlier structural features and orogenic disturbances in controlling surface-contour. Science, Oct. 23, 1903, pp. 588, 539.

epirogeny (ē-pī-roj'e-ni), n. {Also epeirogeny; ζ Gr. ηπειρος, the mainland, a continent, + -γενεια, continental oscillation of level. See *diastro-phism. Geikie, Text-book of Geol., pp. 392,

the sponges, the canals which earry water from the exterior of the body inward to the flagellate chambers; the inhalant canals: contrasted with aporrhysa, or exhalant canals, which are the conduits carrying water from the flagellate chambers inward to the paragastral eavity.

Epis., Episc. Abbreviations of Episcopal. episarcine (ep-i-sär'sin), n. [Gr. $2\pi i$, upon, + $\sigma \acute{a} \rho \xi$ ($\sigma a \rho \kappa$ -), flesh, + $-i n e^2$.] A basic substance, C4H6ON3(?), possibly belonging to the pyrim-

by some under the name of nedering a reversion of a physical specific point of the normal exerctions.

Science, March 6, 1903, p. 381.

Limit to a modified embryonic condition.

Science, March 6, 1903, p. 381.

Epistemological parallelism. See *parallelism.

episclera (cp-i-sklē'rä), n. [NL., < Gr. ἐπί, upou, + σκληρός, hard: see sclere.] The superficial layer of the sclerotic.

episclerotitis (ep-is-klē-rō-tī'tis), n. [NL., ζ Gr. ἐπί, upon, + sclerot-ic + -itis.] Same as

episcerius,

episcopality (ē-pis-kō-pal'i-ti), n. [episcopal + -ity.] 1. The essence of the episcopacy.—

2. The office of bishop.—3. The dignity or bearing of a bishop. N. E. D.

episcopation (ē-pis-kō-pā'shon), n. [NL. *epis-copatio(n-), < LL. episcopatio, the a bishop, < episcopus, bishop.] The act of consecrating to the episcopal office; the being made a bishop.

water passes through the gill-openings and episcope (ep'i-skop), n. A form of projectionlantern, for opaque objects, in which reflected light is used: a simplified form of *epidiascope. See *lantern.

episcopolatry (ē-pis-kō-pol'a-tri), n. [Gr. ἐπισ-κοπος, bishop. + λατρεια, worship.] Worship of bishops; blind devotion to the episcopal system in church organization. N. E. D.

Those Englishmen who, in the violence of their recoil from Preshyterianism and Congregationalism, have cherished proclivities in the direction of Episcopolatry."

Ch. Times, Dec. 22, 1882, p. 915.

episcotister (ep″is-kō-tis′tèr), n. [Gr. ἐπισκο-τίζειν, darken, ζὲπί, upon, + σκοτίζειν, make dark, ζ σκότος, darkness.]

In psychophys., an instrument devised by H. Aubert for the accurate graduation of intensity ation of intensity of light. In its original form the episcotister consists of two similar disks of blackened brass from each of which four octants have been eut out. The disks are pierced at the center for mounting upon a color-mixer. The nearer or outer disk is furnished with a retaining-rim and with a retaining-rim, and is graduated, over 45 degrees of its periphery, in units of one degree. When the episcotister is rotated before a source of light, the light is dark-



ened to a degree which can be measured in terms of the angular value of the black sectors. The construction of the episcotister may be widely varied, to suit different conditions.

A small motor was attached to the stimulus-lantern, and an episcotister was mounted upon it.

J. W. Baird, Carnegie Inst. Pub., xxix. 60.

episematic (ep"i-sē-mat'ik), a. [Gr. ἐπί, upon, to, + \(\tilde{\eta}_{\eta}\), and the constant is, to, + \(\tilde{\eta}_{\eta}\), and is, to, + \(\tilde{\eta}_{\eta}\), and is special means of recognition: applied to characteristics or animals which, when displayed, serve as recognition-marks for the guidance of other individuals of the species .--Episematic coloring. See ★coloring.

episioplasty (ep-i-sī'ō-plas-ti), n. [Gr. ἐπίσειον, the region of the pubes, $+\pi\lambda a\sigma\tau \delta c$, $\langle \pi\lambda \delta a\sigma\sigma\epsilon \nu v$, form.] Operative restoration of a defect in the vulva.

episiotomy (ep"i-sī-ot'ō-mi), n. [Gr. ἐπίσειον, the region of the pubes, + -τομια, < ταμεῖν, eut.] In surg., incisions into the labia during childbirth, made to relieve dangerous stretching of the perineum.

epispadiac (ep-i-spā'di-ak), a. and n. I. a. Relating to or affected with epispadias.

phism. Geikie, Text-door of the phism. Generally of t

episplenitis (ep"i-splē-nī'tis), n. [NL., \langle Gr. $\ell\pi i$, upon, $+\sigma\pi\lambda/p$, spleen, + -itis.] Inflammation of the peritoneal covering of the spleen. epistapedial (ep"i-stā-pē'di-al), α. [Gr. ἐπί, upon, + NL. stapedius (see stapes) + -all.] Lying upon or relating to the stapes: as, the epistapedial cartilage, a branch of cartilage running from the columella to the tympanum. epistasis, n. 2. An arrested or stationary condition in the ancestral history of a group of organisms.

Epistasis is a modified form of the process emphasized by Boas under the name of neotenia, a reversion of a phylum to a modified embryonic condition.

Science, March 6, 1903, p. 381.

 $\langle Gr. \hat{\epsilon}\pi i, episternal, a. II. n. In ichth., the lower me$ dian bone in the hyoid arch. Also called urohual.

[NL., < episternum, n. 6. In spatangoid sea-urchins, Same as the third pair of plates on the ventral face of the posterior interradius.

epistolite (e-pis'tō-līt), n. [So called in allusion to its flat rectangular form and white color; [So called in allu- $\langle Gr. \dot{\epsilon} \pi \iota \sigma \tau \circ \lambda \dot{\eta}, \text{letter, } + -ite^{1}. \rangle$ A rare mineral, consisting essentially of the silicate, niobate, and titanate of sodium with water, occurring in silver-white tabular crystals with pearly luster: found in southern Greenland.

epistoma, n. (d) The anterior part of the

cephalic doublure of the Trilobita, sometimes isolated by the sutures.

epistomian (ep-1-stō'mi-an), a. Of or pertaining to an epistoma.

epistroma (ep-i-strō'mā), n. [LGr. ἐπίστρωμα, trappings, ⟨Gr. ἐπιστορεννύναι, spread over, ⟨ἐπί, over, + στορεννέναι, spread.] A varied form of ornamentation of the echinoid test, which arises early during postlarval development, and which is due to the deposit of calcareous substance on the plates.

epit. An abbreviation (a) of epitaph; (b) of epitome.

epitactic (ep-i-tak'tik), α. [Gr. ἐπιτακτικός, ζ έπίταξες, eommand, injunction, $\langle \hat{\epsilon}πετάσσευ, \text{ put}$ upon as a duty, $\langle \hat{\epsilon}πi, \text{ upon}, + τάσσευ, \text{ order, arrange.}]$ Of the nature of an injunction or eommand.

The eategorical form involves an epitactic meaning.

Whewell, Elem. of Morality, Preface, p. 16.

epitaf, n. and v. A simplified spelling of epitaph. epithecal, a. 2. Situated on the outside of the body, as the radial water-vessels of a starfish.

Compare *hypothecal.

Epithelial cancer. See *cancer.—Epithelial pearl or nest. Same as onion *body.

epithelioglandular (ep-i-thē/li-ō-glan'dū-lär) a. Relating to the epithelial cells of a gland or of its duct. Nature, April 24, 1902, p. 604. Epithelioid cell, in histol., a cell resembling an epithelial cell in shape.

epitheliolysin (ep-i-thē-li-ol'i-sin), n. [epithelium + lysin.] A lysin which is the product of immunization with epithelial cells and is antagonistic toward them.

epitheliomuscular (ep-i-thē/li-ō-mus'kū-lär), Concerning or pertaining to epithelial cells with muscular processes.

epitheliotoxin (ep-i-thē"lī-ō-tok'sin), n. [epi-thelium + toxin.] A cytotoxin produced by immunization with epithelial cells and toxic for the homologous cells.

for the homologous cells, epithelium, N.—Anditory epithelium, See *auditory.—Cubical epithelium, epithelium composed of cells having a more or less cubical shape. This variety grades into columnar epithelium—Glandular epithelium, any epithelium consisting of glandular or secreting cells.—Sensory epithelium, an epithelium which gives rise to sensory cells, such as that which forms the essential layer of the organs of the special senses.

epithelization (ep-i-thē-lī-zā'shon), n. [epi-thelium + -ize + -ation.] Conversion into epithclium.

Epithetosomatidæ (ep-i-thet/o-so-mat'i-de), n. pl. A family of gephyreans, peculiar in having a hollow proboscis

whose lumen opens into the body-cavity, and a series of pore-like openings which lead from the exterior to the same cavity. The typical and only genus is The Epithetosoma.
epithyme (ep'i-thīm), n.

[NL.epithymum.] The lesser or thyme-dodder, Cuseuta Epithymum. See dodder1 (with cut).

epitokal (e-pit'o-kal), Of or pertaining to an epitoke; sexual: as, the epito-kal region of the palolo. Nature, April 21, 1904. p. 582.

epitoke (ep'i-tōk), n. production, $+\tau \delta \kappa \sigma_s$, irth, $\tau \delta \kappa \sigma_s$, birth, production.] The sexual portion of polychætous worms, as the palolo. See *atoke.

epitomatory (ē-pit'ō-ma-tō-ri), a. [epitomate + tō·ri), a. [epitomate + -ory.] Of the nature of an epitome; epitomized. epitonic (cp-i-ton'ik), a.

[Gr. ἐπίτονος, stretched, < έπιτείνειν, stretch, ζ έπί, upon, + τείνειν, stretch.] Stretched; overstrained. G. Meredith.

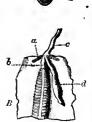
epitoxoid (ep-i-tok'soid), n. [epi- + toxoid.] A toxoid which has a less A (From "Cambr ural History.")

marked affinity for the corresponding antitoxin

than has the toxin proper.

epitoxonoid (ep-i-tok'sō-noid), n. [epi-toxonoid.] A toxonoid which has the least affinity for the corresponding antitoxin.





A. Epithetosoma nor-vegicum. a, a, right and left slits leading to the pores; b, mouth; c, pro-bocis. B, The same ani-mal opened dorsally, a, pores; b, esophagus; c, proboscis; d, brown tube. (From "Cambridge Nat-ural History.")

epitrachelion (ep"i-tra-kē'li-on), n.; pl. epispirachenion (εβ Ι-tra-κε II-qn), h., p εριτακα h-qn), h-qn εριτακα h-qn (εβ Γ-tra-κε II-qn), h-qn εριτακα h-q rion, or deacon's stole.

Epitrapezios (ep[#]i-tra-pē'zi-os), a. [Gr. ἐπιτραπέζως, at table, 〈 ἐπί, at, + τράπεζα, table.]
An epithet of Hercules; specifically, noting a
table-statue of Hercules seated, in bronze, which was made by the Greek sculptor Lysip-pus and presented by him to Alexander the Great. It was afterward owned by Hannibal and by Sulla. In the time of Domitian it had passed to the collection of a Roman amateur poet named Vindex. It is described by Martial and Statius. A plaster cast in the Ecole des Beaux Arts, Paris, taken from an original now lost, is supposed to represent the statue.

epitrichial (ep-i-trik'i-al), a. [epitrichium + -all.] 1. Of or pertaining to the epitrichium. -all.] 1. Of or pertaining to the epictic and -all.] 1. Of or pertaining to the epictic and -all in the structure of larger cells representing the most superficial layer of the epidermis in the human embryo of the

epitympanic, a. 2. Situated upon or above

the tympanim.—Epitympanic bone. See tympanic, a. 2. Situated upon or above eq. An abbreviation of equity.

panic, n, 2.— Epitympanic bone. See tympanic, n, 2.— Epitympanic space. Same as *attice', 3. equal, a.— Identically equal, congruent; the same epitympanium (ep-i-tim'pa-num), n. [NL., < in everything but place or name.

Gr. επί, upon, + τέμπανον, a drum: see tympa-equalizer, n. 3. In a wide sense, any form of balanced bar designed to equalize irregular. epitympanum (ep-i-tim'pa-num), n. [NL., ζ Gr. ἐπί, upon, + τίμπανον, a drum: see tympa-num.] The attic of the tympanum.

epityphlitis (ep'i-ti-fli'tis), n. [NL., (*epi-typhlum (⟨ Gr. ἐπί, upon, + τυφλός, blind: see cæcum) + -itis.] Same as appendicitis.

epivertebral (ep-i-vèr'tē-bral), a. and n. [epi-tertebral.] I. a. Situatèd upon or above a vertebra.

vertebra.

II. n. Same as neural spine (which see, under neural). S ton, p. 524. Starks, Synonymy of the Fish Skele-

epizoicide (cp-i-zō'i-sīd), n. [epizoa + L.-cida, eædere, kill.] An agent which destroys ex-ternal animal parasites.

epizygal (e-piz'i-gal), a and n. [Gr. $\dot{\epsilon}\pi l$, upon, $+\zeta \nu j \dot{\nu} p$, a yoke, $+-\dot{a}l^{2}$.] I. a. Having reference to the upper pinnule-bearing of two arm-segments in the Crinoidea, which meet transversely

in a rigid suture and form a syzygy, constituting physiologically but one segment.

II. n. An epizygal segment.

E-plan (é-plan), n. In arch., a plan according to which three main structures of approximation. mately equal importance are connected, with usually a smaller one projecting into the court of honor between the main wings, the shape of the whole being like that of the letter E.

Compare *L-plan.

epoch, n. 5. In the mechanics of vibration, a term introduced into the equation for a simple harmonic motion in cases where time is not narmonic motion in cases where time is not reckoned from the instant when the vibrating particle has reached its greatest positive elongation. The equation then becomes $x = a \cos{(t \omega + e)}$, in which e is the epoch. The epoch is the angle traversed by the point of reference in the interval between the era of reckoning and the instant of greatest elongation.—Chellean epoch. See *\$\phi\$chelean.—Diluvian, forestian epoch, in \$geol\$, a name given by some glaciologists to the second interglacial epoch of Europe, represented by the lignites of Switzerland and Great Britain. It intervened between the Saxoniao or second glacial epoch and the Polandian or third glacial epoch.—Interglacial epoch of the engenture in the glacial period, when the ice retired. These intervals are recognized by intercalations in the boulder-clay of stratised beds of sand, gravel, and clay, often containing plant-remains or marine or fresh-water shells.—Mecklenburgian epoch | Mecklenburg in north Germany|, in \$geol\$, a subdivision of the Pleistocene er glacial period, of northern Europe. It is equivalent to the fourth glacial epoch, and is evinced in the ground-moraines and terminal moraines of the last great Baltic glacier, which reach their southern limit in Mecklenburg.—Nsudeckian epoch | Mecklenburgian epoch | Meck reckoned from the instant when the vibrating particle has reached its greatest positive elon-

tended to the low grounds of Saxony. It is preceded by the Norfolkian or first interglacial epoch and followed by the Helvetian or second interglacial epoch.—Scanian epoch (1. Scania, Scandinavia, Sweden), in geol., a subdivision of the Pleistocene or glacial period of northern Europe. It is equivalent to the first glacial epoch, and is represented enly in the south of Sweden (Scania), which was overridden by a great Baltic glacier.—Terrace epoch, in geol., a subdivision of the Pleistocene or glacial period of North America. It is regarded by American geologists as equivalent to a part of the Champlain period, and is characterized by a great abundance of terraces of fluviatile, lacustrine, and marine origin.

eponym, v. 4. The archon eponymus at Athens (see archon); also, one of certain Assyrian

(see archon); also, one of certain Assyrian functionaries who gave their names to the years during which they held office.

Eponymic disease, a disease which bears the name of a person, usually of the one who discovered or first accurately described it, as *Bright's* disease.

epsilon, n. 2. In math., a quantity which a proaches zero when the independent variable approaches a certain limit fixed for it by the conditions of the particular problem or discussion.

epsomite (ep'so-mīt), n. [Epsom + -ite².] See stylolite.

strains, as in the buffers of a car-platform or the springs used to keep a car-vestibule closed under the swaying of the cars when in motion. -4. A box or tank, loosely filled with sand, coke, sawdust, or other cleansing material, through which the gas from a producer is passed to make its quality uniform.

equalizing-gear (ē'kwal-ī-zing-gēr"), n. Any device for making each of the driving parts do its proportionate share of the work; in motor-vehicles, the differential gear.

equalizing-lever (ē'kwal-ī-zing-lev"er), n. lever to which the two adjacent ends of the springs of a locomotive are attached. It insures the equal distribution of the weight of the engine between the springs, no matter how the track-surface may depart from a true plane; this mitigates shocks and maintains equal tractive effect on the driving-wheels so as to lessen the tendency to slip on defective alinements.

equalizing-machine (ē'kwal-ī-zing-ma-shēn"), n. In wood-working, a machine for sawing off the ends of blanks of hubs, spokes, handles, etc., to make them of equal length preparatory to turning them in a lathe or treating them in some other machine. The simplest machine is a sliding saw-table provided with a length-gage, on which the black is cut one end at a time. The better and more common types have two circular saws adjustable to positions for blanks of different lengths, and fitted with some form of feed-table for bringing the blanks to the saws. Sometimes called equalizing says.

equalizing-pipe (ē'kwal-ī-zing-pīp"), n. A pipe which connects two or more pipes in such a manner as to permit a free flow from one to the other, thus maintaining an equal pressure in all of them.

equate, v. I. trans. 4. To join by the sign of equality. - Equating motion. Same as *jack-in-a-box

It intrans.—To equate for curves, (a) In rail-road construction, to diminish the slope of grade of a rail-road while passing around a curve, in order to compensate for the increased tractive resistance due to the curve, so that the total tractive resistance on the curve shall be the same as on a straight portion of track having the original grade. (b) In the preparation of the running schedules for trains, to make an allowance of an imaginary increase in length of line, on account of and as an equivalent of the retardation due to curves.—To equate for grades, in the preparation of the running schedules for railroad-trains, to make an allowance of an imaginary increase in length of line, on account of and as an equivalent of the retardation due to grades.

equation, n. 4. It is to be noted that a chemical

equation, n. 4. It is to be noted that a chemical equation, n. 4. It is to be noted that a chemical equation, used to represent the results of a chemical change under certain conditions, does not of itself imply that such results necessarily occur; this can be established only by actual experiment, and the equation merely furnishes a brief form of statement of what the experiment has shown to be true.—Annual equation, a periodic variation of the motion of the moon owing to the variation of the sun's distance, in consequence of which as the earth moves from perihelion to aphelion the length of the month becomes shorter, the moon's angular motion being accelerated, while the reverse effect takes place as the earth returns from aphelion to perihelion. The effect, equal to a little more than 11 minutes, was discovered by Tycho Brahe about 1590.—Beltram's equation, an equation analogous to Laplace's equation for a plane. It is of the form

$$\frac{\partial}{\partial u} \left(\frac{\mathrm{G}}{\frac{\partial \phi}{\partial u} - \mathrm{F}} \frac{\partial \phi}{\partial v} \right) + \frac{\partial}{\partial v} \left(\frac{\mathrm{E}}{\frac{\partial \phi}{\partial v} - \mathrm{F}} \frac{\partial \phi}{\partial u} \right) = \circ;$$

where $H = \gamma' EG = F^2$, and u, v are variables determining the position of a point on a surface such that the square of its linear element $ds^2 = E du^2 + 2 F du dv + G dv^2$. Beltrami, Opere Matematiche, I. 325.—Brightness

equational
equation, in psychot-optics, the subjective match of two impressions in regard to brightness or luminosity. A typical brightness equation would be given with the matching of two grays. The term is, however, generally reserved for the matching (in respect of brightness) of a color with a color, or of a color with a gray.—Consistent equations, simultaneous equations.—Cyclotomic equation, an equation related to the partition of the perigon, such as $(x^m-1)/(x-1) = o$, where n is prime.—Dimensional equation, in phys., a formula or equation indicating the manner in which the fundamental units of any system of physical measurements enter into a derived unit or quantity.—Equation of acceleration. See $\bigstar acceleration$.—Equation of energy. Benoting kinetic energy by E(K), and potential energy by E(P), we may write the energy equation $-[E(P) - E_0(P)] = E(K) - E_0(K).$

 $-[E(P) - E_0(P)] = E(K) - E_0(K).$

energy equation $-[E(P)-E_0(P)]=E(K)-E_0(K).$ In words: The total energy of the system, or the sum of the kinetic energy and the potential energy, is a constant quantity.—Equation of equilibrium, an equation expressing the conditions under which the parts of a dynamical system will remain at rest. The complete specification of the conditions of equilibrium usually demands a set of such equations.—Equation of force, an equation expressing the dimensions of the derived entity force (P) in terms of the fundamental entities, mass, length, and time: $[P] = [M][L][T]^{-2}$ —Equation of state, the law $f(p, k, \theta) = \alpha$, connecting the pressure (p), volume (r), and temperature (θ) defining the change of state of a homogeneous liquid or gaseous substance.—Equation of the equinoxes, the difference between the mean and apparent places of the equinoxes, arising from the variation in the force which produces their precession. This force is a maximum when the sun passes the solstices, and disappears at the time of the equinoxes.—Equations of the transformation, the equations which express r and r in terms of r and r, or inversely, when a point transformation replaces P(x, y) by P(x, y).—Equation time-piece, a timepiece which shows the difference between mean and apparent solar time. (Now obsolete.)—Equivalent equations, equations such that every root of either is also a root of the other.—Exact differential equation, an equation in which has to do only with the very nature of the operations involved, and not at all with the particular numbers operated with. Thus the equation (n+b) + c = n + (b + c) expresses the fact that addition is an associative operation.—Fractional equation, one containing an expression in which an unknown or variable is centained in a

expresses the fact that addition is an associative operation.—Fractional equation, one containing an expression in which an unknown or variable is centained in a denominator; for example, $\frac{2}{x}+1=0$.—Galoisian equation, for a domain R, an irreducible equation of prime degree whose roots are all rational functions of two of the roots.—Gas equation, the equation pr=R θ , where p is pressure, v volume, θ temperature, and R a constant.—Gauss's equation,

$$x(1-x)\frac{d^2y}{dx^2} + \left\{c - (a+b+1)x\right\}\frac{dy}{dx} - aby = 0,$$

where a, b, c are constants, and x is the independent variable.—Graph of an equation. See $\star graph$.—Green's equation,

$$\iiint \nabla u \;.\; \nabla v \mathrm{d}v = \iint \mu \nabla v \;. \mathrm{d}\sigma - \iiint v \nabla^2 v \mathrm{d}v,$$

an equation useful for problems in gravitation, hydrodynamics, and electrostatics.— Hypergeometric equation. Same as $Gauss^*s \star equation$.— Incompatible equations, equations having no solution whatever in common: for example, x+y=4 and 2x+2y=9.—Inconsistent equations, incompatible equations.— Integral expressions so far as concerns the unknown or variable. (b) In the calculus, an equation which contains no differentials.—Irrational equation, an equation which contains no differentials.—Irrational equation, an equation which contains an indicated root of an unknown or variable.—Lanlace's spherical harmonic equation. variable.—Laplace's spherical harmonic equation. Same as Laplace's principal equation. See Laplace's equation.—Metacyclic equation, of degree p, an equation whose group for a domain R is the metacyclic group of degree p.—Octic equation, an equation of the eighth degree.—Poisson's equation,

$$\frac{\partial^2 \mathbf{V}}{\partial x^2} + \frac{\partial^2 \mathbf{V}}{\partial y^2} + \frac{\partial^2 \mathbf{V}}{\partial z^2} = \frac{1}{\kappa} \frac{\partial \mathbf{V}}{\partial t} = 4\pi\rho,$$

where κ is a constant; x, y, z are the coordinates of a point in space; t denotes the time; ρ is a function of x, y, z; and Y may denote temperature, petential, etc.—Primitive of a differential equation, an integral equation which satisfies a differential equation.—Radical equation, an irrational equation—Reflection equations, in optics, equations from which the phase and intensity of the reflected ray may be computed from the angle of incidence and the index of refraction of the mirror. The two best-known forms of such equations are those of Fresnel and of Neumann.—Symmetric equation, an equation which is unchanged by interchange of the unknowns or variables.—Tidal equations, equations which are involved in the theory of the tides.—To reduce an equation, see \pm reduce.—Van der Waal's equation, an equation which represents the relation between volume and pressure of a gas with much better approximation than the law of Boyle and Gay-Lussae. The law of Boyle may be written pv = RT; where p is the pressure exerted by a gram-molecule of the gas when its volume is v, T is the absolute temperature, and R is a constant. To the pressure, p, Van der Waal adds the attraction of the molecules of the gas on one another, represented by $\frac{\sigma}{v^2}$, and he subtracts on one another, represented by $\frac{a}{v^2}$, and he subtracts

from the volume, v, that part of this volume which is so occupied by the molecules that it is not left free for their motion. The equation becomes $\left(p+\frac{q}{v^2}\right)\left(v-\beta\right)=\mathrm{RT}$,

where a and β are constants depending on the properties of the gas in question.—Vertical equation, the equation of a conic referred to a vertex as origin.—Zonal equation. See *zonal.*
equational, a. 2. Operating with equations: as, equational logic.

equationally (ē-kwā'shon-al-i), adv. As an equidiagonal equation or as equations: in the form of equations: by use of equations.

equationism (ē-kwā'shon-izm), n. [equation equidimensional (ē"kwi-di-men'shon-al), + ism.] The principle of solving problems [L. æquus, equal, + dimensio(n-), dimensional equationally.

equationally.

equator, n.—Hydrometeoric equator, the line which divides regions in which the rainfall varies with the slight movement of the equatorial helt of calms and attending winds; the pluviometric equator. This line varies not only with the variation of the winds, but also with the orography, and is often determined by the presence of an elevated ridge trending nearly east and west. Supan's hydrometeoric equator bends south of the astronomical equator on the east of the continents, and north on the west.

Dr. Supan draws a line of the superior the second continents.

west.

Dr. Supan draws a line, the hydrometeoric equator, dividing regions experiencing the rainfall conditions of the northern winter half-year from regions which have those of the southern summer half-year and vice versā. This bends south of the astronomical equator in the east, and north in the west, of the continents, which may be interpreted, in the present writer's opinion, as a monsoonal phenomenon. Geog. Jour. (R. G. S.), XIII. 64.

soonal pinenomenon. Geog. Jour. (K. G. S.), AIII. 64.

Meteorological equator, the region on the globe near the geographic equator, which corresponds to the belt of calms, midway between equal opposing winds, and with reference to which the general circulation of the atmosphere is approximately symmetrical.

equatorial. I. a. 2. In crystallog., of or pertaining to the horizontal or lateral plane.

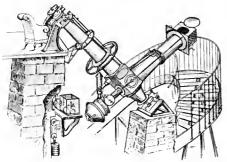
Equatorial acceleration of the sup. See *accel-

pertaining to the horizontal of lateral plane.

-Equatorial acceleration of the sun. See *acceleration.—Equatorial belt of low pressure. See *pressure.—Equatorial crystal, a crystal in which the principal axis of symmetry is perpendicular to the equatorial plane of symmetry.—Equatorial horizontal parallax. See *parallax.—Equatorial mounting, the mechanical part of an equatorial telescope, consisting of the stand, axes, circles, driving-clock, etc., with their appendages.—Equatorial symmetry. See *symmetry.

metry.

II. n.—Elbow equatorial, or (F.) équatorial coudé, an equatorial so arranged that by the use of two



Équatorial Coudé of the Paris Observatory.

plane mirrors the observer is able to view an object in any part of the heavens by looking down the polar axis from a fixed position. It has great advantages and some drawbacks.—Twin equatorial, two telescopes, which may be of different sizes and forms, attached to the same equatorial mounting. In some cases the two tubes are firmly connected; in others they are independent as to their motion in declination.—Universal equatorial, an equatorial so constructed that its mounting and driving-clock can easily be adjusted to suit any latitude.

equatorward (ē-kwā'tor-ward), adv. [equator + -ward.] In the direction of the equator; with motion toward the equator.

equianchorate (ē-kwi-ang'kor-āt), a. and n. [L. equus, equal, + anchora, prop. ancoru, anchor, + -atcl.] I. a. Having similar anchorate processes at each end. See anchorate. II. n. An equianchorate sponge-spicule.

equiangular, a.—Mutually equiangular, having the angles of the one equal respectively to the angles of the other, taken in the same order.
equiangularity (ē"kwi-ang-gū-lar'i-ti), n. The

condition or quality of being equiangular.

Equianharmonic quadrangle. See *quad-Equianharmonic quadrangle.

equiarcal (ē-kwi-ār'kal), n. [For *equiarcual, L. æquus, equal, + arcus, bow (are), + -al¹.] A line which cuts off, on a system of curves, equal ares measured from the

equiarticulate (ē"kwi-ār-tik'ū-lāt), a. [l. æquus, equal, + articulus, joint, + -atel.]

1. Alike in the number and arrangement of articulations.—2. Having joints of equal length, as the legs of some crustaceans.

equiaxial (ē-kwi-ak'si-al), a. [L. æquus, equal, + axis, axis, + -all.] Having axes of equal length. Buck., Med. Handbook, II. 320. equicellular (ē-kwi-sel'ū-lār), a. [L. æquus, equal. + cellula, cell, + -ar³.] Composed of an aggregation of similar cells, as some colonial protozoans.

equicross (ē'kwi-krôs), a. [L. æquus, equal, E. cross1, a.] Having equal cross-ratios.

equidiagonal (ê#kwi-dī-ag'ō-nal), a. [L. equus, equal, + E. diagonal.] With equal diagonals.

[L. æquus, equal, + dimensio(n-), dimension, + -all.] Having equal dimensions: used especially in description of the grain of rocks. equidistant, "- Equidistant projection.

[NL. *aquidistantia, equidistance, + -al¹.] A curve, in Bolyai's non-Euclidean geometry. coplanar with a straight line, perpendiculars to which from all points of the curve are equal.

In the Euclidean geometry all points equidistant from a straight line are on a straight line. In this non-Euclidean geometry all points equidistant from a straight line are on a curve called the equidistantial.

Science, March 11, 1904, p. 404.

Equidistantial surface, in Bolyal's geometry, the locus of points on one side of a plane from which perpendiculars to that plane are equal.

equielliptic (6°kwi-e-lip'tik), u. [L. æquus, equal, + Nl. ellipticus, elliptic.] Of equal elliptic eccentricity.

equiglacial (ē-kwi-glā'shal), a. [L. æquus, equal, + glaeies, ice, + -al¹.] Being in the same condition as regards ice.—Equiglacial lines, lines drawn by Hildebrandsson connecting those points on the earth's surface at which the condition of the ice-formation is the same as to thickness or amount on any colors due to the the same as given day in the year.

equigraphic (ē-kwi-graf'ik), a. [L. equal, + Gr. -γραφια, ζγράφειν, write.] Homolographic; noting a method of map-projection in which equal areas of the earth's surface are reduced to equal areas on the map.

equilarcenous (ek-wi-lär'sg-nus), a. [L. equus, a horse, + E. larcenous.] Given to horse-stealing. [Humorous.]

equilateral, a.— Mutually equilateral, having the sides of one equal respectively to the sides of the other taken in the same order.

equilateralness (ē-kwi-lat'ėr-al-nes), n. condition or quality of being equilateral.

equilibration, **.—Artificial equilibration, in sociol., adjustment to environment by artificial means or intelligent choice, as opposed to the equilibration brought about by natural selection. L. F. Ward, bynamic Sociol., 11. 484.—Law of equilibration, the law, formulated by Spencer, that in society, as throughout the cosmos, a group or aggregate highly charged with energy transforms a neighboring group or aggregate less highly charged.

equilibristic (§*kwi-li-bris*(tik), a. [equilibrist+-ic] Of or characteristic of an equilibrist.

-ic.] Of, or characteristic of, an equilibrist;

balancing. equilibrium, n., 1. In phys. chem., the equilibrium of a thermodynamic system is said to be indifferent if it is not disturbed by changing the mass of some or all its phases. If a system consists of a liquid and of its vapor, at a certain temperature, and at the pressure of the vapor saturated at that temperature, we may, without changing temperature or pressure, condense a certain mass of vapor or evaporate a certain mass of liquid, and the system will he in equilibrium indifferently in every one of the states through which it is made to pass. The same is true of a system consisting of a hydrated salt and of a solution of the or evaporate a certain mass of liquid, and the system will he in equilibrium indifferently in every one of the states through which it is made to pass. The same is true of a system consisting of a hydrated salt and of a solution of the hydrated salt, at the temperature at which the solid salt and the solution have the same composition; a certain amount of the solid may be dissolved or precipitated, but the system is indifferently in equilibrium in every one of the states through which it is made to pass.—Absorptiometric equilibrium, See *absorptiometric.—Atmospheric equilibrium, the tendency of the force of gravity to produce motion in any portion of the atmosphere, either horizontally or vertically, relatively to the earth's surface. In static equilibrium there is no tendency to move in any direction. In thermal equilibrium there is no tendency to move so far as the temperature influence is concerned. The equilibrium of mixed gases is disturbed by the fact that dry air is denser than moist air, the former sinking under the influence of gravity and being driven equatorward under the influence of centrifugal force more energetically than the latter. These conditions give rise to problems in thermal-gravitational and thermal-centrifugal equilibrium, or in general thermodynamic or convective equilibrium, In thermal-gravitational equilibrium three stages are recognized: (1) Stable equilibrium there stages are recognized: (1) Stable equilibrium there stages are recognized: (1) Stable equilibrium there stages are recognized: (1) Stable equilibrium, when the decrease of temperature with altitude in the surrounding still air is less than the adiabatic rate in moving air, or one decree Fahren-heit for each 183 feet. In this case a mass of air at any nized: (1) Stable equilibrium, when the decrease of temperature with altitude in the surrounding still air is less than the adiabatic rate in moving air, or one degree Fahren-heit for each 183 feet. In this case a mass of air at any height in the atmosphere has a tendency to return to its original level when it has once been displaced. (2) Interest of temperature in still air is exactly equal to the adiabatic rate in moving air, and a disturbed mass stays in its new location. (3) Unstable equilibrium, when the vertical gradient of temperature in still air is greater than the adiabatic rate in moving air. In this case the mass of air when once started in vertical motion continues to rise or fall as the case may be, because the thermodynamic change in its own temperature is less than the change actually existing in the surrounding atmosphere. A thunder-storm, with its ascending currents and formation of tall cumuli, illustrates unstable equilibrium.—Chemical equilibrium, the state of a chemical system in which the concentrations of the acting substances remain unchanged. If the transformation is irreversible, equilibrium comes when one or more acting substances are consumed; if the transformation is reversible, equilibrium is attained when a given substance is decomposed

and reproduced at the same rate.—Convective equilibrium, the tendency or liability of a mass of air to ascend or descend in the atmosphere because of buoyancy. In stable convective equilibrium the ascending and descending masses return to their initial levels because the rate of rium, the tendency or liability of a mass of air to ascend or descend in the atmosphere because of buoyancy. In stable convective equilibrium the ascending and descending masses return to their initial levels because the rate of cooling due to expansion, or warming due to compression, exceeds the gradient in the quiet air. In unstable convective equilibrium ascending masses continue to descend because their changes of temperature and density are less than those in the quiet air about them. In indifferent convective equilibrium with the strata into which they come, because their changes of temperature coincide with those of the quiet air through which they pass.—Criterion of equilibrium, a simple law or rule, based upon a study of the conditions of equilibrium of a system, by means of which the question whether equilibrium exists in any given case may be decided. Gibbs has shown that in an isolated system the energy of which is constant, thermodynamic equilibrium exists when the entropy is constant or increasing.—Equation of equilibrium, in phys. chem., a state of equilibrium not a system, the entropy of which is constant, equilibrium exists when the entropy of which is constant, equilibrium exists when the entropy of which is constant, equilibrium produced in the equilibrium, in phys. chem., a state of equilibrium not capable of prediction by thermodynamics in its present development. All the equilibriums predicted by thermodynamics can be verified by experiment, but many cases of equilibrium, in equilibrium; otherwise, a genuine false equilibrium. If water is cooled ten degrees below the freezing-point, according to thermodynamics and the water remains unchanged as liquid water. This is an apparent false equilibrium; otherwise, a genuine false equilibrium. If water is cooled ten degrees below the freezing-point, according to thermodynamics of own the water remains unchanged as liquid water. This is an apparent false equilibrium; of we water water exactly similar character, formed. (2) The equilibrium of a liqu equilibrium-ring (ē-kwi-lib'ri-um-ring), n.

balancing-ring; a metal ring placed on the back of a slide-valve, or in the casing of a steam-chest, to keep the steam-pressure from acting over an area on the back of the valve equal to the area of the exhaust-port. This so relieves the valve of pressure that it is practi-cally balanced. The ring is usually placed in a recess and kept tight by placing springs behind it.

equilibrize (ē-kwil'i-briz), v. t.; pret. and pp. equilibrized, pp. equilibrizing. [equilibr(ium) + izc.] To bring into a state of equilibrium or equipoise; balance or cause to balance.

equilobate (ē-kwi-lō'bāt), a. [L. æquus, equal, + lobus, lobe, +-ale².] Having lobes equal size, as the tails of some fishes.

equimolecular (ē'kwi-mō-lek'ū-lär), a. [L. æquns, equal, + NL. molecula, molecule, + -ar³.] Having or containing an equal number of molecules.— Equimolecular solutions, in phys. chem., solutions in which equal volumes contain the same number of molecules of the two dissolved substances, that is, solutions which contain quantities of the two dissolved substances which are in the ratio of their molecular weights.

equinate (ek'wi-nāt), v. t.; prep. and pp. equinated, ppr. equinating. [equine + -ate¹.] To inoculate with glanders.

equinocavus (ek-wi-nok'a-vus), n. [NL., < Locations, of a horse, + cavus, hollow.] Same as *talipes equinocavus.

Equinoctial year. See *year.

[NL., < L. equinovarus (ek/wi-no-va'rus), u. quinus, of a horse, + varus, bent.] Same as talipes equinovarus.

equinox, n.—Equation of the equinoxes. See **equation.—Mean equinox, the point on the equator which is determined by correcting the true equinox of the date for the equation of the equinox and the nutation.
equinus (ē-kwī'nus), n. [NL.. < L. equinus, qf a horse: see equine.] Same as talipes equinus.

Eremurus

equipartile (ē-kwi-pār'til), n. [L. æquus, equal. + pars (part-), part, +-ilc.] One of the divisions between which stand equipostiles. Biometrika, Aug., 1902, p. 386. equipartition (ē'kwi-pār-ti'shou), n. [L. æquus, equal, + partitio(n-), partition, distribution.] In phys., the distribution of energy throughout a medium, consisting of molecules in motion, in accordance with the law of the in motion, in accordance with the law of the partition of energy. See *energy.

Equipartition of energy is supposed to establish itself within a small fraction of a second.

Lord Rayleigh, in Nature, LXXII. 54.

equiped (ē'kwi-ped), u. and n. [Also equipede; L. æquus, equal, + pes (ped-), foot.] I. a. Having legs of equal length: said of some II. n. One of the chilopods whose legs, save

the last pair, are of approximately equal length; a member of the Equipedes of Kirby.

equipment, n.—Bureau of Equipment. See *burcau.
equipoise (ē'kwi-poiz), r. t.; pret. and pp.
equipoised, ppr. equipoising. [equipoise, n.] 1.
To bring into a state of equipoise or balance;
hold in equipoise.—2. To counterbalance.
equipostile (ē-kwi-pos'til), n. [L. æquus,
equal, + (?) post, after, +-ile.] An object,
value, or term in a series or array corresponding to values of an argument in arithmetical

ing to values of an argument in arithmetical progression. Biometrika, Aug., 1902, p. 390. equipotent (ē-kwip'ō-tent), a. [L. æquus, equal, + potens, powerful: see potent.] Equal in power.

In power.

Equipotential function. See *function.—Equipotential system, a system of forces such as is represented by certain animal ova or adult lower animals, like Tubularia or Clavellina, each portion of which has the same prospective potency in development or regeneration, that is, is capable of responding adaptively to a number of conditions.

equipotentiality (ē'kwi-pō-ten-shi-al'i-ti), n.
The quality of being equipotential.
equiprobabilism (ē-kwi-prob'a-bil-izm), n.
[L. æquus, equal, + probabilis, probable, +
-ism.] The opinion in moral theology that where the reasons for either of two opposed courses of action are equally balanced, a man

may use his liberty to follow either. equiradial (ē-kwi-rā'di-al), a. [1 equal, + radius, spoke (radius).] [L. æquus, equal, +

equal radii,

equal radii,
equiradiate (ē-kwi-rā'di-āt), a. [L. æquus,
equal, + NL. radiatus, radiate.] Having radii
of equal length, as certain sponge-spienles.

Proc. Zool. Soc. London, 1900, p. 129.
equirotal, a. II, n. A vehicle, invented in
the early part of the nineteenth century, having wheels of uniform size and the hody inited.

ing wheels of uniform size and the body jointed in the middle, the forward portion turning with the front axle.

Equisetales (ek-wi-sē-tā'lēz), n. pl. [NL., < Equisetum + -ales.] An order of pteridophytic plants of the class Equisetinese, containing the family Equisetace only, which see for characters.

Equisetineæ (ek-wi-sē-tin'ē-ē), n. pl. Equisetine (ek-wi-se-tin'e-e), n. pl. [NL., & Equisetum + -ineæ.] A elass of eryptogamie plants of the phylum Pteridophyta. It embraces the orders Equisetales and Calamariates. Engler now uses the name Equisetales for this group, calling the order Euquisetales, a change of doubtful propriety. equisized (e'kwi-sīzd), a. [L. æquus, equal, + E. sized.] Of the same size.

The two Rhomboidea are abent equisized.

Proc. Zool. Soc. London, 1897, p. 290.

Equitable assignment. See *assignment. equitative (ek'wi-tā-tiv), a. [equitate + -ive.] If or pertaining to equitation or horsemauship.

equitensal (ē-kwi-ten'sal), n. [L. æquus, equal, + tens(io(n-)), tension, + -all.] A line which cuts a system of tense lines so that the

which cuts a system of tense these so that the tensions at the crosses are all equal.

Equitinæ (ek-wi-tī'nē), n.pl.[NL., \ Eques (Equit-) + -inæ.] A subfamily of drumfishes typified by the genus Eques: ealled ribbon-fishes from their lengthwise black stripes. equiv. An abbreviation of equivalent.

equivalence, n. 2. In chem., eapability of mutual replacement, in chemical combination, of definite quantities of different substances: thus, there is equivalence between approximately 18.07 parts of aluminium, 40.1 of caleium, 46.1 of sodium, and 55.9 of (ferrous) iron in combining with the same fixed quantity of oxygen. equivalent. I. a. 3. In geom.: (b) Said of two polygons if they can be cut into a finite number of triangles congruent in pairs.—5. In

chem., applied to the respective quantities of

placing each other in combination with a fixed stances are said to be equivalent to each other. Stances are said to be equivalent to can be equivalence, 2.—Equivalent by completion, in geom., said of two polygons if it is possible so to annex equivalent polygons to them that the two polygons so composed are equivalent.—Equivalent equations, focus, illumination, lens, projection, sets. See

composed are equivalent.—Equivalent equivalent focus, illumination, lens, projection, sets. See Acquivalent, etc.

II. n. 3. See Acquivalence, 2.—Electrochemical equivalent of an element, in phys. chem., the weight in grams of that element which, in electrolysis, is transformed from the ionic to the non-ionic condition, or conversely, by the passage of the nnit quantity of electricity, or one coulomb. If this equivalent is known for any one element, it thereby becomes known for all other elements by the third of Faraday's laws of electrolysis. Silver is the element selected for the experimental determination, and the value adopted for its electrochemical equivalent by the International Cengress of Electricity at Chicago, in 1893, is 0.001,118 gram. This number is perhaps too small by about one part in a thousand. If we divide this equivalent by the atomic weight of silver and multiply by the equivalent weight of any other element, we obtain the weight of the second element which would he deposited by the passage of one coutlomb of electricity. For instance, the atomic weights of silver and of copper being 107.93 and 63.6, and the equivalent weight of copper being half its atomic weight, we have \$\frac{31.8}{107.93} \times 0.001,118 gram equals the electrochemical equivalent weight of

being half its atomic weight, we have \$\frac{\text{O17.93}}{107.93} \times 0.001,118 gram equals the electrochemical equivalent weight of cupper, or 0.000,328 gram. — Mechanical equivalent of light, the numerical quantity which expresses in ergs, or other units of mechanical energy, the value of a unit of light. It we take as the unit of light that which produces an illumination of one lux, we may define the mechanical equivalent of light as the energy in ergs of the light-giving ether-waves received in one second upon one square centimeter of surface at a distance of one meter from a source of light having an intensity of one hefuer. The first attempt to estimate the mechanical equivalent of light (although not in precisely the above terms, which are of more recent origin) was made by Julius Thomsen in 1865. He determined in absolute measure the radiation from an incandescent body, as a gas or oil-flame; then filtered out the infra-red rays by interposition of a cell of water, and measured the transmitted light. On account of the incomplete adiathermaney of the cell, his values are, however, subject to a large correction. Measurements by more refined methods have since been made by Tumlirz and by Angström. (See *\frac{\text{witeneny of a source of light.)}{\text{ Angström found the luminous energy received by a square centimeter of surface at a distance of one meter from the flame of a Hefuer lamp to be 20.6 × 10 8 gram-calories per second, or, in mechanical units, 8.63 ergs per second. The composition of light from various sources, as gas-flames, the electric arc, or the sun, differs, and the effect of radiation upon the eye varies greatly with the wave-length. The huminosity is a maximum for rays in the middle of the spectrum and diminishes rapidly toward the red and violet. The mechanical equivalent should therefore depend on the composition of the light. From Angström's value it is possible to compute that of all other sources of light that have been spectrophotometrically compared with the Hefner thame. T gram equals the electrochemical equivalent weight

Source of light,	Ergs per second per square centi- meter for one lux.
Untreated earbon at 1,000° C. Untreated carbon at 1,400° C.	29.0 9.14
Glow-lamp at 2,000° C.	7.26
Hefner lamp	8.63
Petroleum-flame	8.69
Gas-flame	0.13 to 7.70
Acetylene-flame	7.12
Zircon-light	7.17
Llme-light	7.21 to 5.89
Arc-light	5.89 to 5.79
Welsbach light	4.50 to 4.39
Sunlight	4.85
Daylight (from sky)	5,53

The energy in ergs given in the above table does net include the total energy received at the surface by radiation, but only that portion which is capable of affecting the eye—in other werds, ef producing illumination. The amount of energy falls off rapidly as the temperature ef the source rises. It is less for a given temperature in the case of treated carbon surfaces, as in the incandescent-lamp filament, than with untreated carbon, and still less in the case of light obtained from incandescent oxids. Thus the ergs of luminous energy per centimeter per second, corresponding to an illumination of one lux, are less for the Welsbach mantle and for the magnesium flame than for the electric arc, although the temperatures for the former sources are much lower.—Osmotic equivalent, that quantity of any substance which, if centained in a given volume of solution, will produce the same osmotic pressure as a standard quantity of some other substance when contained in the same volume of solution.—Principle of kinesthetic equivalents, in psychol, the principle that "for each of our intentional actions we must have some way of thinking abeut the action, of remembering how it feels, looks, etc.; we must have somehing in mind equivalent to the experience of the mevement." J. M. Baldwin, Story of the Mind, p. 20.—Saponification equivalent, in chem., the quantity of an alkali: usually expressed in the form of the number of grams of the oil saponified by 56.1 grams of caustic potash or 40 grams of caustic soda. Saddler, in capacity for heat, to a given body; the mass of a given body multiplied by its specific heat.

different substances which are capable of re- equivoluminal (e"kwi-vo-lu'mi-nal), a. Equal as to volume: of equal cubical content.

quantity of some particular substance. These equivote (ē'kwi-vōt), n. [L. æquus, equal, + mutually replaceable quantities of such sub-votum, wish (vote).] A tie in voting, an equal

number of votes being east on each side.

equoid (e'kwoid), a. [L. equus, horse, + -oid.]

Resembling or having the characters of the Equidæ, or horse family; horse-like.

eq. v. A simplified spelling of err.
era, n. 4. In grod., a division of geologic time
which, according to the recommendation of
the International Congress of Geologists, is to be regarded as of highest rank, corresponding be regarded as of highest rank, corresponding to the stratigraphic term group. See $group^1$, 3(b).—Lithic era, the first half of J. D. Dana's azoic con, during which there was a solid crust on the earth, but the temperature was too high to permit condensation of the vapors as oceans. It was followed by the oceanic era.—Oceanic era, according to the classification of the early stages in the earth's history, that era of the azoic con in which the atmospheric waters were condensed into an ocean over all the sphere or in an oceanic depression, with finally some emerging lands cooled from molten rock. The temperature of this ocean is conceived to have been about 5,000° E. at the beginning of the period, and rock. The temperature of this ocean is conceived to have been about 5,000° F. at the beginning of the period, and before its close the action of the ocean waters had caused the deposition of sediments which formed the earth's supercrust.—Psychozoic era, the present age, or the age of man, as distinguished from former geological ages before the appearance of man.

eradicator (ē-rad'i-kā-tor), n. 1. One who roots up or roots out and destroys.—2. An agricultural implement or machine used in uprooting.

erasion, n. 2. In surg., the removal of morbid

tissue by scraping.

Brasmianism (e-raz'mi-an-izm), n. [Erasmian, adj. (¿Erasmian), + -ism.] The religious system of the scholar and humanist Erasmus (1466of the scholar and humanist Erashius (1400-1536). He anticipated Luther in affirming the Bible to be the true source of theology. He condemned the subtleties of the scholastic systems; emphasized the meral elements of Christianity; and satirized the faults of the clergy, but refused to follow Luther, remaining in the communion of the Roman Catholic Church. The term is applied, therefore, to the attitude of men who protest against error, but compromise with existing institutions.

Brastianize (ē-ras'tian-īz), v. [Erastian + ize] I trung To make to accord with Erassianize (in the control of the contro

-ize.] I. trans. To make to accord with Erastianism.

H. intrans. To favor Erastianism.

E-rays. See *ray1.
erbin (êr'bin), n. [Also erbine, < erb(ium) + -in^2.] Same as erbia.

erdmannite (erd'mau-īt), n. [Named after O. Erdmann, a German chemist.] A complex mineral substance near allanite in composition, but perhaps only a mixture: obtained from Norway.

Erdmann's float, reagent. See *float, *reagent. erecting-shop (e-rek'ting-shop), n. A building or room in which engines or machines are assembled, as the parts are completed, to insure that all the parts will fit properly. Such a shop is provided with foundations, base-plates, benches, cranes, and ether conveniences, according to the character of the machines to be erected.

erection, n. 10. In astrol., the construction of a scheme or figure of the heavens.

By erection of her figure, 1 gest it.

B. Jonson, Alchemist, iv. 4.

erector, n. 3. A workman employed to put in place the steel part of buildings, bridges, or ships.—4. A machine, such as a derrick, used to place material in position in any structure. eremian (e-re'mi-an) α. [Gr. ἐρημία, a descrt, a solitude, ζ ἐρῆμος, solitary.] Of or pertaining to the desert.—Eremian subregion, in zoögeog., a division er subregion embracing northern Africa, northern Arabia, the greater part of Persia and Afghanistan, and the desert region of central Asia from the steppes of southern Russia to Manchuria.

Eremochæta (e-rē-mō-kē'tā), n. pl. Eremocnæta (e-rē-mō-kē'tā), n. pl. [NL., ζ Gr. ἐρῆμος, solitary, + χαίτη, bristle.] In the classification of Östen-Sacken, a superfamily of dinterous insects including of dipterous insects, including the families Stratiomyidæ, Tabanidæ, Acauthomeridæ, and Leptidæ.

eremochætous (e-rē-mō-kē'tus), a. Belonging

to or characteristic of the superfamily Eremo-chæta. Cambridge Nat. Hist., Vl. 446. eremomeline (er ē-mom'e-lin), n. One of the group of African birds known as Eremomelinæ. eremophobia (e-rē-mō-fō'bi-ä), n. [NL., ζ Gr. ερῆμος, solitary, + -φοβια, ζ φοβεῖν, fear.]

Morbid fear of being alone.

Eremurus (er-ē-mū'rus), n. [NL. (Bieberstein, 1818), ζ Gr. ἐρῆμος, solitary. + οἰρά, tail, stalk. The name alludes to the leafless flower-stalk and raceme.] A genus of plants of the family Liliaceæ. There are about 18 species, natives of the mountains of western and central Asia. Several are

cultivated for their striking habit and great flower-stalks crowned with showy white, rose-colored, or yellow flowers. The leaves flowers. The leaves rise from the root in a dense clump or rosette; the flowers have 6 segments, usually withering on the stalk, 6 sta-mens, and a 3-par-titioned and 3-cornered ovary. titioned and 3-cornered ovary. Among the garden species are E. robus-tus, E. Himalaicus, and E. spectabilis. The best known is E. robustus, which often sends up a stalk 8 feet high bearing re-ored flowers. rose-col-

erepsin (e-rep'- \sin), n. [L. erep-(tus), pp. of eri-



Eremurus spectabilis. One fourth natural size

pere, snatch away, $+ \cdot s - + \cdot in^2$.] A ferment discovered by O. Cohnheim in the intestinal mucosa, which is capable of causing the cleavage of acid albumins and albumoses into crystalline end-products of proteolytic digestion, but which is without effect upon the native albumins. It acts in neutral or feebly alkaline media. A similar terment has apparently been found also in the vegetable world.

Erethizontidæ (er $^{\#}$ ē -thi-zon 'ti-dē), n. pl. [Erethizon(t-) + -idæ.] The American porcupines of the genera Erethizon and Coendoo (Syntheres), considered as constituting a family, a view generally held by American zoologists. O. Thomas, 1897. See cut under porcupine.

or thomas, 1891. See cut under porcapine.

eretmologist (er-et-mol' η-jist), n. [*eretmology (Gr. έρετμός, oar, + -λογια, ζ λέγεν,
speak) + -ist.] One who is skilled in the
science of rowing; a professional oarsman. [Humorous.]

ergal (ér'gal), n. [G. ergal, < Gr. èpyov, work, + -all.] In phys., potential energy: a word introduced by Clausius. It is that portion of the total energy of a system which diminishes as work is done by the system, and it corresponds, therefore, to the negative value of the force-function and also to Helmholtz's term free energy.

ergasiomania (ėr-gas"i-ō-mā'ni-ä), n. A restless desire, amounting at times to an insane impulsion, to be continually at work; also, a desire on the part of a surgeon to operate at every opportunity, whether or not the operation is indicated or justifiable.

ergasiophobia (er-gas"i-ō-fō'bi-ä), n. [NL., ζ Gr. ἐργασία, work, labor, + -φοβια, ζ φοβεῖν, fear.] An excessive disinclination, which may amount to an insane aversion, to work; also, excessive timidity, on the part of a surgeon, and fear to perform an operation even

when it is urgently indicated.

ergastic (er-gas tik), a. [Gr. ἐργαστικός, able to work, working, ⟨ ἐργάζεσθαι, work, ⟨ ἔργον, work.] Being the result of biologic activity: a term applied to rather stable substances formed by the activity of the cell-cytoplasm. A. Meyer, 1896.

ergastoplasm (ér gas tō-plazm), n. [Gr. $\epsilon\rho\gamma a\sigma\tau$ - $(\kappa\delta\epsilon)$, able to work, + $\pi\lambda a\sigma\mu a$, anything formed.] The more active portion of the protoplasm which forms the fibrillar structures of the cell: nearly the same as kinoplasm (Strasburger) and ergoplasm (Davidoff). Garnier,

ergastoplasmic (er-gas-tō-plas'mik), a. or pertaining to ergastoplasm. Nature, March 12, 1903, p 455.

(la). [L., an accommodated form (as if dim.) of an Italian Gr. *έργαστρου, < Gr. έργάζεσθαι, work, labor: see *ergastic.] In Rom. antiq., a prison for slaves attached to a Roman villa or farm; a house of correction.

ergatandrous (er-ga-tan'drus), a. [Gr. εργάτης, a worker, + ἀνήρ (ἀνδρ-), male, + -ουs.] Having worker-liko males: said of certain ants.

ergatandry (ér-ga-tan'dri), n. [Gr. $\epsilon\rho\gamma\dot{\alpha}\tau\eta c$, worker, + $\dot{\alpha}\nu\dot{\eta}\rho$ ($\dot{\alpha}\nu\delta\rho$ -), male, + - y^3 .] In entomol., the condition of certain male ants

which fail to develop wings and resemble the worker-ants in form.

ergatogyne (er'ga-tō-jin), n. [Gr. $\dot{\epsilon}\rho\gamma\dot{\alpha}\tau\eta\varsigma$, the fungus Ustilago Zee, which transforms the kernel of corn worker-like aspect due to the absence of wings and wing muscles an ergatoid female.] A female ant of ergotinic (ergō-tin'ik), a. ergotinic (ergō-tin'ik), a. [ergot + $-in^2 + ic$.] Perergatogyne (er/ga-tō-jin), n. [Gr. εργάτης, worker, + γινή, female.] A female ant of worker-like aspect due to the absence of wings and wing-muscles; an ergatoid female.

ergatogynic (er "ga - tō - jin 'ik), a. Same as *ergatogynous. Biol. Bulletin, May, 1904, p. 252

ergatogynous (er - ga - toj 'i - nus), a. [Gr. iρ) άτης, a worker, + γυνή, female, + -ous.] Having worker-like females: said of certain

ergatoid (er'ga-toid), n. and a. [Gr. έργάτης, worker, + είδος, form.] I. n. A wingless although sexually competent ant of either sex. The females are really secondary queens. Cambridge Nat. Hist., VI. 140.

II. a. Having the characteristics of an ergatoid.

ergatomorphism (er'ga-tō-môr'fizm), n. [er-gatomorph-ic + -ism.] The resemblance of certain male and female ants to workers, through a failure to develop the wings and their musculature.

erg-nine (erg' vin), n. A practical unit of work or energy equal to 1×10^9 ergs. See ergten. [Rare.]

ergogram (èr'gō-gram), n. [Gr. ἐργον, work, + γράμμα, anything written.] A record of muscular work; a tracing obtained by means of the ergograph. See *ergograph.

The ergogram pictures a very specific form of fatigne and shows a very wide range of individual differences.

G. S. Hall, Adolescence, I. 150.

ergograph (er'gō-grāf), n. [Gr. εογου, work, + γράφειν, write.] An instrument for recording muscular work; a recording dynamometer or ergometer: used especially in the study of muscular fatigue. The work recorded by the ergographs ordinarily employed is that done by a single finger pressing against a spring or pulling against a weight. In Mosso's instrument, the earliest form of the ergograph, there are three principal parts: the padded arm-rest, with arm-straps and brass tubes which hold the unused fingers in position; the weights, attached to a cord which passes over a pulley to a finger-cap adjusted to the lifting finger; and the recording carriage, which moves between metal guides with the movement of finger and spring, and carries a writing-point by which the ergogram or work-record is traced npon the smoked surface of a kymograph drum. An ergograph of this type is termed a weight ergograph. In other forms of the instrument, the compression of a spring replaces the pull-up of the weight: *pring* ergograph* have been devised, for example, by Cattell and Binet. In yet other forms, among which Menmann's ergograph may be mentioned, there is no graphic record; the recording carriage and kymograph are replaced by a work-adder.

This greatly increased range of individual variation in or ergometer: used especially in the study of

This greatly increased range of individual variation in early puberty was no less marked in vital capacity and in resistance to fatigue as teated by the ergograph.

G. S. Hall, Adolescence, 11. 151.

ergographic (er-gō-graf'ik), a. [ergograph + -ie.] Kelating to, or obtained by means of, the ergograph.

He studied the effect on the ergographic curve of drink-ing-water, and of the injection of cocaine and caffeine. Stud. Yale Psychol. Lab., VIII. 104.

ergology (ér-gol'ō-ji), n. [Gr. ἔργον, work, + -λογια, ζ λέγειν, speak.] Physiology and psychology considered dynamically, as the performance of work.

ergometric (er-gō-met'rik), a. Of or pertaining to the ergometer or the results shown by it; recorded or furnished by the ergometer: as, an ergometric diagram; ergometric measure-

ergonomy (er-gon'ō-mi), n. [Gr. ἐργον, work, + νόμος, distribution.] Physiological division of labor. Haeckel (trans.), Wonders of Life, p. 35.

ergophobia (er-gō-fō'bi-ä), n. [NL., \langle Gr. $\hat{\epsilon}\rho\gamma\sigma\nu$, work, + - $\hat{\phi}o\betaia$, \langle $\hat{\phi}o\beta\epsilon\bar{\imath}\nu$, fear.] A morbid aversion to labor. Compare \star ergasiophobia N. Y. Times, Oct. 17, 1903.

ergastulum (ér-gas'tū-lum), n.; pl. ergastula ergoplasm (ér'gō-plazm), n. [Gr. ἔργσν, work, (lä). [L., an accommodated form (as if dim.) of + πλάσμα, anything formed.] The active protoplasm which arises from the achromatic

protoplasm which arises from the achromatic portion of the germinal vesicle of the egg and produces, wholly or in part, the first polar spindle. Davidoff, 1889. ergosterin (er-gos te-rin), n. [ergo(t) + Gr. $\sigma \tau \epsilon \rho \epsilon \delta \rho$, solid, $+ -in^2$.] A colorless compound, $C_{26}H_{40}O.H_{2}O$, contained in ergot of rye. It erystallizes in pearly leaflets or in pointed needles, melts at 154° C., and boils at 185° C. under 20 millimeters pressure.

taining to or derived from ergot.—Ergotinic acid, a poisonons aubstance found in ergot, but probably not concerned in the production of the clinical picture of ergotism.

ergotism², n. 2. Logical reasoning; ratiocination.

The ratiocination or ergotism

of the logicians is only one kind of reasoning and one little used by the ordinary mind. L. F. Word, Pure Sociol., p. 462.

ergotization (er'gō-tī-zā"- a,Cornergot(UstilagaZez), shon), n. [ergotize + fected kernels are enormous-ation.] The act or pro-lyincreased in size (reduced); b, spore (enlarged), c, geressor affecting with the minating spore (enlarged). ergotization (ėr'gō-tī-zā"-

ergatoid.
ergatomorphic (er "ga - tō - môr ' fik), a. [Gr. cess of affecting with the poison of ergot.
έργάτης, a worker, + μορφή, form, + -ic.] Of or pertaining to ergatomorphism; having the ergotol (er 'gō-tōl), n. [ergot + -ol.] A liquid preparation of ergot two and a half times as the United States Pharmacopæia fluid extract

Brian, a. II. n. In geol., a major group of geological units comprising the Marcellus, Hamilton, Genesee, Portage, and Chemung divisions as used by the original New York divisions as used by the original New York geologists. The term was applied by Dawson to the entire Devonian system as represented in New York and Canada as a more appropriate term, but it is now restricted to that part of the Devonian which is represented by the Marcellna and Hamilton shales.

Ericales (er-i-kā'lēz), n. pl. [NL. (Lindley, 1833), < Erica + -ales.] An order of dicotyledonous sympetalous plants characterized by regular flowers, usually free stamens as many or the lobes of the corolly

or twice as many as the lobes of the corolla, and a compound ovary. It embraces 8 families, of which Ericaceæ is the most important. See Diapensia ceæ and Epacridaceæ.

erichthoid (e-rik'thoid), a. [erichthus + -oid.]
Of or pertaining to an erichthus: as, an erichthoid larva.

erichthus (e-rik'thus), n. [NL., irreg. \langle Gr. $\eta\rho\iota$, early, $+i\chi\theta\iota\varsigma$, fish.] A late larval stage of a stomatopodous crustacean, as the mantis-shrimp, in which the full number of segments and of limbs of the adult animal is reached.

ericineous (er-i-sin'ē-us), a. Same as erica-

ericinol (e-ris'i-nōl), n. [$cric(olin) + -in^2 + -ol.$] A colorless, volatile, oily compound, $C_{20}H_{26}O$, prepared by the action of dilute ericinol (e-ris'i-nöl), n.

ericolin (e-rik'ō-lin), n. [L. erica, heath, + -ol + -in².] A very bitter, brown, resinous compound, $C_{34}H_{56}O_{21}$, found in several plants of the heath family, in Arctostaphylos Uvaursi, and in Ledum palustre.

ericophyte (e-rik'ō-fit), n. [L. erica, heath, + Gr. φυτόν, plant.] In phytogeog., one of a class of plants, typified by the genus Erica, which are adapted to live on the soil of heaths

when are adapted to live on the soil of neaths and peat moors. Eneyc. Brit., XXV. 432. Ericsson gun. See *gun. Ericymba (er-i-sim'bä), n. [NL., ⟨ Gr. ἐρι-, much-, + κύμβη, a cun, bowl.] A genus of small minnows found in the Mississippi valley, distinguished by the silvery mucous cavities on each side of the head. E. buccata is the common species.

Erie blue, Erie Canal china, Erie clay. See *blue, etc.

erikite (er'i-kīt), n. [Named after Erik the Red, the discoverer of Greenland.] A silicate and phosphate of the cerium metals and sodium, with also aluminium and thorium. occurs in complex orthorhombic crystals of a brownish color, in southern Greenland. erinaceine (er-i-nā'sē-in), n. A hedgehog of

the subfamily Erinaceinæ.

erinite (ē'rin-īt), n. [Erin + -ite2.] A basic copper arsenate occurring in green mammillary crystalline forms: from Cornwall, but earlier supposed to come from Ireland, hence the name.

Eriobotrya (er"i-ō-bōt'ri-ä), n. [NL. (Lindley, 1821), in allusion to the lanate inflorescence, \langle Gr. $\dot{\epsilon}\rho\iota\sigma\nu$, wool, $+\beta\sigma\prime\eta\nu$ c, a bunch of grapes.] A genus of plants of the family Malace. They are small trees with evergreen leaves, racemose-paniculate inflorescence covered with woolly hairs, thick 5-toothed ealyx, crenulate petala, and 3-5 seeds, one in each compartment of the fruit. There are about 10 species, natives of eastern Asia. The loquat, Eriobotry'a Japonica (Photinia Japonica of Gray), sometimes errone-



ously called Japanese plum and Japanese mediar, is practically the only representative of this genus grown in the United States. It is hardy in the Gulf States, where it is grown for the small, acid, yellow, plum-like fruits. The flowers are white and are borne in terminal clusters late in the season; the fruits mature in the following spring. spring.

(er"i-ō-kâ-lā'shius), eriocaulaceous Of, pertaining to, or having the characters of the plant family Eriocaulaceæ.

eriocome (er'i-ō-kōm), n. [NL. eriocomus, ζ Gr. εριον, wool, + κόμη, hair.] A woolly-haired person: a member of a division of mankind, the eriocomy characterized by described. the eriocomi, characterized by fleecy hair, like that of the Melanesians and negroes. Deni-

ker, Races of Man, p. 40. eriocyanine (er"i-ō-si'a-nin), n. [Gr. εριον, wool, cyanine.] An acid coal-tar color of the triphenylmethane earbinol type. It dyes wool a

bright blue in an acid bath.

erioglaucine (er*i-ō-glā'sin), n. [Gr. ἐριοι, wool, + γλανκός, greenish blue, + -ine².] An acid coal-tar color of the triphenylmethane type. It dyes wool and silk greenish-blue shades in an acid bath.

shades in an acid bath.

eriometer, n.—Young's eriometer, an instrument used in measuring the diameter of the rings of color seen when a bright light is examined through a mass of small particles or fine fibers. It consists essentially of two glass plates between which the fibers are placed and an aperture in a sliding-screen through which the eye may view the bright light. If the angular diameter of the colored ring is observed a numerical table gives the corresponding linear diameter of the particles. A corresponding graduation may be inscribed on the instrument so that the numerical tables need not be used.

eriometric (er*i.ō-met'rik), a. Of or pertain-

eriometric (er"i-ō-met'rik), a. Of or pertaineriometric (er"i-ō-met'rik), a. Of or pertaining to an eriometer; obtained by the eriometer.

—Young's eriometric scale. In the eriometer, as constructed by Young, the first red-snd-green ring is made to cover a given circle by moving the sliding-tube to and fro, and an index shows the diameter of the particles. On the arbitrary scale used by him, I is equivalent to a diameter of 0.00003 of an inch, and the other scale numbers represent simple multiples of these: 3, the size of the particlea observed in a thin layer of milk; 3.5, the apores of Lycoperdon boxista; 32, lycopodium seed or apores; 46, diameter of coarse wool.

erionite (cr'i-on-īt), n. [Irreg. (Gr. Folger)]

erionite (er'i-on-īt), n. [Irreg. ⟨ Gr. έριον, wool, + -ite².] A hydrated silieate of aluminium, ealcium, sodium, and potassium, oecurring in aggregates of wool-like fibers in cavirance of suminer or sense.

eriophorous (er-i-of'ō-rus), a. [Gr. ἐριοφόρος, wool-bearing, ζ ἐριον, wool, + - φορος, ζ φέρειν, bear.] Wool-bearing; cottony; flocculent.

eriophyllous (er-i-of'i-lus), α. [Gr. εριον, wool, + φύλλον, leaf.] Having woolly leaves.

Eritrean (ā-rē-trē'an), a. [It. Eritrea + -an.] Of or pertaining to the Italian Red-Sea colony of Eritrea: as, Eritrean currency; Eritrean defenses.

erizo (ā-rē'thē), n. [S. Amer. Sp., so named from the prickly, bur-like fruit, \Sp. erizo, \L. ericus, hedgehog. See urchin.] In Venezuela and Colombia, the tibourbou, Apeiba Tibourbou. erizo (ā-rē'thē), n. See *tibourbou.

erl, n, A simplified spelling of earl.
erlan (er'lan), n. [Erla, Craudorf, Saxouy, +
-an.] In petroy., a fine-grained metamorphic rock composed chiefly of augite, with some feldspar, quartz, and other minerals. Also called (in German) crlanfels. Breithaupt.

erly, adv. and a. A simplified spelling of early. erm. In her., an abbreviation of ermine. ermin, n. and v. t. A simplified spelling of

ermine.

ernest, n., a., and v. t. A simplified spelling of

 Ernestine order. See *arder.
 Ernogrammus (ér no-gram'us), n. [NL., < Gr. ερνος, a sprout, + γραμμή, a line.] A genus of blennies found in Japan, remarkable for the branching lateral lines.

erodent, n. II. a. Producing erosion; erosive. erodible (e-ro'di-bl), a. [crode + -ible.] In geol., yielding to erosive action; subject to the destructive processes of surface agencies.

Eros, n. 3. In astron., No. 433 of the asteroid group, discovered photographically by Witt, at Berlin, in 1898, and for a time provisionally referred to as D. Q. Its orbit is much smaller than that of any other minor planet, its mean distance from the sun being less than that of Mars. Its period is 643.11 days. At times it can approach the earth within about 13,000.000 miles (nearer than any other member of the solar system), and thus furnishes perhaps the most precise of all methods for finding the solar parallax. At these rare approaches it may nearly reach the limit of naked-eye visibility, but it is usually observable only in large telescopes, its diameter being not more than t5 or 20 miles. At certain times there are regular variations in its brightness from which an axial rotation in 5 hours 16 minntes is inferred.

erosible (ē-rō'si-bl). a. [L. crosus. does not of erosible (c-rō'si-bl). a. [L. crosus. does not of erosibl

erosible (ē-ro'si-bl), a. [L. erosus, pp. of ero-

439 dere, erode, + -ible.] Capable of being eroded: as, an erosible rock.

In some parts the tufa is traversed by vertical veins of a harder and less easily erosible rock.

Geog. Jour. (R. G. S.), X. 478.

erosion, n.—Cycle of erosion. See *cycle 1.—Erosion column. See *column.—Glacial erosion, the erosion produced by glaciers and subglacial streams. The erosion produced by glaciers and subglacial streams. The erosion produced by glaciers and subglacial streams. The erosion is coming to he more and more accepted by geologists. See corrie, comba, fiord, hanging *colley, rock-basin.—Head erosion. Same as head-water *crosion.—Head-water erosion, the erosion of a valley-head or escarpment so that it is worn back in a direction opposite to the flow of its stream. Also retrogressive erosion.—Retrogressive erosion. Same as head-water *crosion.—Sheet-flood erosion, crosion accomplished by sheets of running water, as distinct from streams. J. Il'. McGee, in Bulletin Geol. Soc. Amer., VIII. 88.—Table-land of erosion. Flat strata forming a land area are often carved into valleys by running water. Without appreciable tilting they may then he depressed beneath the sea and the valleys may be filled with new sediments which do not differ in dip, although nsually contrasted in kind with the old. The stratigraphic break between the two is called unconformability by erosion.—Wind-erosion, the wearing away and transportation of rock material by the wind.

of rock material by the wind.

He particularly commended to geologists the study of wind-erosion of snow hardened by pressure and low temperature. . . One could see the structure change from form to form under one's very eyes, and thus quickly gain such an insight into the processes of wind-erosion as in the case of more stubborn rock, could only be obtained by prolonged study.

Athenwum, Dec. 7, 1901, p. 778.

erosional (ē-rō'zhon-al), a. [erosion + -al1.] Of, pertaining to, or produced by erosion.

The terraced character of the outlet at Horseheads was also described, and the opinion expressed that the broader terrace is an erosional and not a constructional (floodplain) feature, and that it represents the outlet of Lake Newherry at its principal stage.

Science, Jan. 2, 1903, p. 26.

erosodentate (ē-rō/sō-den'tāt), a. [L. erosus, eroded, + dentatus, toothed.] Having irregular tooth-like projections; specifically, in bot., dentate with crose teeth.

erosodenticulate (ē-rō"sō-den-tik'ū-lāt), o. [L. erosus, eroded, + denticulus, dim. of dens, tooth, + -atel.] Having small, irregular,

ring in aggregates of wool-like fibers in cavi-ties in a rhyolite tuff: found at Durkee, Oregon. eroticism (e-rot'i-sizm). n. [erotic + -ism.] [erotic + -ism.] due prominence of sexuality or the sexual emotions; in pathol., excessive sexual desires. eroticist (e-rot'i-sist), n. One affected with eroticism.

eroticomania (e-rot"i-kō-mā'ni-ā), n. [NL., < Gr. ερωτικός, erotic, + μανία, madness.]

as erotomania. erotism (e-rot'ism), n. A condition marked by erotic tendencies; eroticism.

erotogenic (er "ō-tō-jen'ik), a. Exciting sexual

erotology (er-ō-tol'ō-ji), n. [Gr. έρως (έρωτ-), sexual love, + -λογια, < λέγειν, speak.] The study of the phenomena of sexual love.

erotometer (er- \tilde{o} -tom'e-ter), n. [Gr. $\ell \rho \omega \varsigma$ ($\ell \rho \omega \tau$ -)

sexual love, + μέτρον, measure.] or gage of sexual love. G. S. Hall, Adolescence, II. 132.

erotopath (e-rot'ō-path), n. [A back-formation from erotopathy.] One who is dominated by perverted sexual ideas. Alien. and Neurol., Feb., 1903, p. 72.

erotopathia (er* δ -t δ -path'i- \ddot{a}), n. [NL., \langle Gr. $\delta \rho \omega \sigma$ ($\delta \rho \omega \tau$ -), sexual love, + $\pi \dot{a} \theta \omega \sigma$, disease.] Perversion of the sexual instinct. Amer. Jour. Psychol., XIII. 328. erotopathic (er"ō-tō-path'ik), a. Relating to

or suffering from erotopathia; erotic. Alien. and Neurol., Feb., 1903, p. 75. erotopathy (er"ō-top'a-thi), n. Same as *crotopathy

topathia.

erotopsychic (er/o-top-si'kik), a. [Gr. έρως $(\dot{\epsilon}\rho\omega\tau$ -), sexual love, + $\psi v\chi\dot{\eta}$, mind.] Same as *crotopathic.

fielders to put out an opponent when he has the opportunity; a misplay by which a runner

Eryops

secures a base.—Average error. See *method of average error.—Clock error. See *clock2.—Defendant in error, a party to an action, either plaintiff or defendant in the court below, who is opposed to the plaintiff in error in the appellate court. See plaintiff in *error.—Error of a planet, the difference between its observed and its calculated position.—Error of expectation, fatigue, habituation, in psychophys. variable errors, incidental more especially to work by the gradation methods. The error of expectation may make a change of judgment come either too soon or too late, according as the expectation is directed upon change or miformity of the stimuli; the errors of fatigue and habituation delay the change of judgment beyond the normal point. The errors can be avoided by a fitting disposition of the series: in certain cases the error of expectation, may, perhaps, for all practical purposes, be eliminated by treating it as a constant error; that is, by repeating the series with reversal, and taking the average result.—Fechnerian time-error, in psychophys., a constant or systematic error, due to temporal arrangement, which may be climinated by performing the experiment twice over,—once in the time-order ab, and once in the time-order ba,—and by averaging the result of the two experiments to a single value.—Law of frequency of error. Same as law of error. See error, 5.—Method of average error. See *method.—Plaintiff in error, in law, a party to sn action, either plaintiff or defendant in the court below, who sues out in sn appellate court, a writ of error, to review proceedings upon which the error is alleged.—Probable error of an event. See *coefficient of variability.—Space error, in psychophys., a constant or systematic error, due to spatial arrangement, which may be eliminated (like the Fechnerian time-error) by repeating the experiment with reversal of spatial conditions, and averaging the two results.—Station error, in geod. and astron., the difference between the position of a point on the earth's s

error (er'or), v. t. In law, upon an appeal, to reverse the judgment or other determination of the court below, on account of error in its

proceedings. [Rarc.] ersæiform (èr-sē'i-fôrm), a. [NL. Ersæa (†) + L. forma, form.] Resembling or having the structure of the Ersæidæ; composed of three medusoids, a sterile, a fertile, and a special nectoealyx. Compare *eudoxiform.

ersæome (er-se'om), n. [Gr. ερσαίος, dewy (ερση, dew), + -ome.] One of the two main forms of cormidium in hydrozoans, consisting typically of a hydrophyllium, a gastrozoid with a tentaele, one or more medusoid gonophores, and generally a nectocalyx.

and generally a neetocaly...

erthen, erthling, erthly. Simplified spellings of earthen, earthling, earthly.

erubim (e-rö'bēm), n. pl. [Heb. 'erūbīm, pl. of 'erūb, mixture, combination.] Among the Jews, eertain devices to get around the strict observance of the Sabbath rules, when eireum-stances make such observance difficult or imstances make such observance difficult or impossible. The strict follower of rabbinical injunctions must not go out on the Sabbath beyond a certain distance. In order to establish the legal boundaries the rabbis have ordained that certain catables may be deposited beyond the limit on the day preceding the Sabbath or festival, so as to make it appear that the place where the food is deposited is one's domicile, extending thereby the limit for one's movements.

These lumwritten codes of modesty] are like psychic garments with changing fashions, but erotology well understands that sometimes to ignore their existence is derivative win.

G. S. Hall, Adolescence, 11. 118. ciformis, \(\sigma \) eruca, a caterpillar, \(+ \) forma, form.]
A group of flies of the family Tipulidæ, having eaterpillar-like larvæ: supposed to be the most primitive of existing Diptera. Phalacrocera is an example.

erucic (e-rö'sik), a. [L. eruca, a sort of colewort.] Noting an acid, a colorless compound, C₂₂H₄₂O₂, contained, in combination with glycerol, in white and black mustard-seed oil. It erystallizes in long slender needles, melts at 33-34° C., and is readily converted into the isomerie brassidie acid.

erucin (e-rő'sin), n. [eruc(ic) + -in².] The glycerin ester of erucie acid, found in rapeseed oil.

erugatory (e-rö'ga-tō-ri), a and n. [NL.*cru-gatorius, \langle L. erugare, free from wrinkles, \langle e, out, + ruga, wrinkle.] I. a. Having the property of removing wrinkles.

11. n. A remedy used to eradicate wrinkles. eruption, n.— Cone of eruption. See *cone.— Massive eruption, the protrusion of lava without the formation of a volcanic cone. Compare *fissure-eruption. Geikie, Text-book of Geol., p. 342.— Subaérial eruption, outbreaks of lava or tuff upon the land, as contrasted with those beneath the sea.

Eruptive center, vein. See *center1, *rcin.
Eryops (er'i-ops), n. [NL., (†) irreg. ⟨ Gr. ἐρὑειν, draw out, + ὑψ, faee.] A genus of stegocephalian reptiles from the Permian rocks of North America, having an elongated triangular skull with somewhat tangring snout relatively email. with somewhat tapering snout, relatively small

indistinct sutures.

erysipeloid (er-i-sip'e-loid), n. and a. [cry-sipel-as + -oid.] I, n. A chronic intlammation of the skin resembling erysipelas, occurring sometimes in persons who have been brought into contact with the skins of wild animals,

into contact with the skins of whice ammans, either living or recently dead.

II. a. Resembling crysipelas.

Erysiphaceæ(er°i-si-fā'sē-ē), n. pl. [NL., ⟨Erysiphe + -acce.] The family of fungi typified by the genus Erysiphe. See Erysipheæ.

Erythea (er-i-thē'ā), n. [NL. (Watson, 1880), ⟨Gr. Ερίθεια, one of the Hesperides.] A genus

of palms. They have fan-shaped leaves, slender, naked trunks, perfect flowers in large, decompound panicles, and for fruit a black globose drupe. There are two species, are decompound panicles, and for foundalupe Island, off the western coast of Mexico. Of Guadalupe Island, off the western coast of Mexico. Both species are cultivated out of doors in favored localities of southern California.

erythran (er 'i-thran), n. [Gr. ἐρυθρός, red, + -an.] A colorless liquid compound,

HOCHCH2OCH2CHOH,

prepared by the long boiling of erythrol with dilute sulphuric acid. It boils at 154-155° C. under 18 millimeters pressure.

erythrarsin (er-i-thrän'sin), n. [Gr. $\epsilon \rho \nu \theta \rho \delta \epsilon$, red. + ars(enic) + $-in^2$.] A red pigment, C₄H₁₂O₃As₆, formed, in very small quantity, by the oxidation of eacodyl.

erythrasma (er-i-thras mā), n. [NL., \langle Gr. $epv\theta\rho\dot{\rho}\dot{\rho}$, red, $+-a\sigma\mu a$, a termination.] A contagious skin disease, running a chronic course, due to the presence of a vegetable parasite, Microsporon minutissimum.

erythrin, n. 3. A coal-tarcolor of the xanthene type, prepared by the methylation of eosin. It dyes silk a bluish red with a red fluorescenee. Also called primrose.—Erythrin X, an acid coal-tar color. Same as *ponceau 5R.
erythrism, n. 2. In anthrop., redness of hair,

generally combined with light complexion .-In zool., the assumption of red in animals, in place of their ordinary coloration.

Erythrism is particularly common among the Mungooses and is responsible for a large number of the untenable species which have been formed in that group.

Proc. Zool. Soc. London, 1886, p. 77.

erythroblast, (e-rith ro-blast), n. [Gr. ἐρυθρός, red, $+\beta \lambda a \sigma \tau \delta c$, germ.] One of the colored ameboid cells found in the marrow of the bones and supposed to give rise to the red blood-cor-

erythroblastic (e-rith-rō-blas'tik), a. Of or

pertaining to erythroblasts.

erythrocentaurin (e-rith/ro-sen-tâ/rin). [Erythr(æa) centaur(ium) (see def.) + -in².] A neutral, bitter, glucoside-like body, $C_9H_{14}O_5$, formed in Centaurion Centaurium (Erythræa

Centaurium of Persoon).

Erythrochæte (er″i-thrō-kē′tē), n. [NL. (Siebold and Zuccarini, 1846), ⟨ Gr. ἐριθρός, red, + NL. chæta, bristle, ⟨ Gr. χαίτη, mane. The allusion is to the color of the pappus in the type species.] A genus of plants of the family Asteracies. A genus of plants of the family Asteraceæ, closely related to Senecio. There are about thirty species, chiefly Asiatic. One species, the leopard-plant, a variety of E. Kæmpferi (Senecio Kæmpferi of De Candolle), is well known in cultivation. It is ealled by gardeners Forfugium. It is grown in the North as a foliage pot-plant, and was at one time a favorite windowing ardeu subject. From Washington southward, it is hardy in the open. The plant has large orbicular-cordate leaves, blotched and spotted with yellow, white or rose-colored patches. A form with glancous-green leaves edged with ereamy white is known as silver-leaf.

erythrochroic (e-rith-rō-krō'ik), a. Of or relat-

ing to erythrochroism.

erythrochroism (e-rith-rō-krō'izm), erythrochroism (e-rith-rō-krō'izm), n. [Gr. $\dot{\epsilon}\rho\nu\theta\rho\delta\varsigma$, red, + $\chi\rho\sigma a$, eolor, + -ism.] Same as erythrism

erythroclastic (e-rith-rō-klas'tik), a. [Gr. ερνθρός, red, + κλαστός, ζ κλᾶν, break, + -ie.] Relating to destruction of the red blood-cells. erythrocyte (e-rith'rō-sit), n. [Gr. ἐρυθρός, red, +κύτος, a hollow (a cell).] A red blood-corpuscle as distinguished from a white or colorless

erythrocytolysis (e-rith $^{\prime\prime}$ rō-si-tol'i-sis), n. [NL., \langle Gr. $\iota\rho\nu\theta\rho\delta\varsigma$, red, $+\kappa\iota\tau\sigma\varsigma$, a hollow (a cell), $+\lambda\iota\tau\sigma\iota\varsigma$, dissolution.] Destruction of the protoplasm of the red blood-corpuseles.

erythrocytolytic (e-rith "rō-sī-tō-lit'ik), a. or pertaining to erythrocytolysis or the destruction of red blood-cells by hemolysins.

erythrocytorrhexis (e-rith*rō-sī-tō-rek*sis), n. [Gr. ἐρπθρός, red, + κύτος, a hollow (a cell), + ρῆξις, rupture.] Rupture of an erythrocyte or red blood-cell.

round orbits, and rugose eranial bones with erythrocytoschisis (e-rith"ro-sī-tos'ki-sis), n. [Gr. $i\rho\nu\theta\rho\delta\varsigma$, red, $+\kappa i\tau u\varsigma$, a hollow (a cell), + $\sigma\chi i\sigma\iota\varsigma$, eleaving.] Division by fission of a red blood-corpuscle.

erythrocytosis (e-rith"rō-si-tō'sis), n. [NL., \langle Gr. $i\rho n\theta \rho \delta c$, red, $+\kappa i\tau \sigma c$, a hollow (a eell), + -osis.] The formation of erythrocytes, or red blood-corpuscles

erythrodermatitis (e-rith/ro-der-ma-ti'tis), n. [NL., \langle Gr. $i\rho \nu \theta \rho \delta c$, red, + $\delta \epsilon \rho \mu a(\tau -)$, skin, + itis.] Inflammatory redness of the skin.

erythrogen (e-rith rō-jen), n. [Gr. ἐρυθρός, red, + -γενής, -producing.] 1. A fatty, green crystalline compound, said to occur in certain specimens of pathological bile.—2. A substance, possibly a chromogen, found in flowers. erythrogenic (e-rith-rō-jen'ik), a. [Gr. εριθρός,

red, $+ -\gamma \epsilon \nu \eta \epsilon$, -producing, $+ -i\epsilon$.] Producing or giving rise to red blood-corpuscles. erythroglucin (e-rith-rō-glō'sin), n. [Gr. $\epsilon \rho \nu \theta \rho \delta \epsilon$, red, $+ \gamma \epsilon \nu \kappa i \epsilon$, sweet, $+ -in^2$ (see *glucin).] Same as *erythrot.

cm).] Same as *crythrot.
erythrogranulose (e-rith-rō-gran'ū-lōs), n.
[Gr. ἐρνθρός, red, + E. granulose.] À variety
of soluble starch which is colored red by iodine.
erythrol (er'i-thrōl), n. [Gr. ἐρνθρός, red, +-ol.]
The correct name (by regulation) for erythrite.
erythroleinic (er"i-thrō-lō-in'ik), a. [erythro-

lem + -ic.] Noting an acid coloring-matter of unknown composition contained in archil or orchil.

erythrolysin (er-i-throl'i-sin), n. + -in²l Alvein white. ysin (er-i-throl'i-sin), n. [crythrolysis A lysin which is specially directed against the red corpuseles of the blood. The term hemotysin is more generally used, although strictly speaking it would comprise the leucolysina as well as the erythrolysins.

erythrolysis (er-i-throl'i-sis), n. [NL., \langle Gr. $\epsilon \rho \nu \theta \rho \delta \rho_{s}$, red, $+ \lambda \ell \sigma \iota \rho_{s}$, dissolution.] The destruction of red cells by means of specific cytolysins. See also *eruthrolusin.

erythromelia (e-rith-rō-mē'li-ā), n. [NL., ζ Gr. ερυθρός, red, + μέλος, limb.] A neurosis characterized by redness of the skin on the exterior surfaces of the extremities.

erythrophage (e-rith rō-tāj), n. [Gr. ἐρνθρός, red, + φογείν, eat.] A phagocyte which destroys the red blood-globules.

erythrophilous (er-ith-rof'i-lus), a. [Gr. ἐρυθρός, red, + φιλεῖν, love, +-ous.] Readily staining in a red dye, such as erythrosin: said of cells: opposed to *cyanophilous.

erythrophleine (e-rith-rō-flē'in), n. [Eryth-rophle·um + -ine².] A crystalline poisenous alkaloid, C₂₈H₄₃O₅N (?), contained in the bark of Erythrophleum Guineense: a local anesthetic and heart socious. and heart-poison. It is used by the natives of the west coast of Africa as an arrow-poison.

erythrophobia (e-rith-rō-fō'bi-ä), n. [NL., < Gr. $\epsilon\rho\nu\theta\rho\delta\varsigma$, red, + $-\phi\rho\beta\iota a$, $\langle \phi \rho\beta\epsilon\bar{\iota}\nu$, fear.] morbid aversion to the color red.

erythrophore (e-rith rō-fōr), n. [Gr. $\epsilon \rho r$ red, + -φόρος, bearing, $\langle \phi \epsilon \rho \epsilon \iota \nu$, bear.] [Gr. έρυθρός, red chromatophore of algæ.

erythropia (er-i-thrō pi-ā), n. [NL., \langle Gr. $\dot{\epsilon}\rho v$ - $\theta \rho \dot{\epsilon} c$, red, $+ \dot{\omega} \psi$ ($\dot{\omega} \pi$ -), eye.] Red vision: a condition in which all objects appear to be tinged with red.

erythroplate (e-rith'rō-plāt), n. In photog., a plate impregnated with erythrosin and used in the orthochromatic process.

erythropsia (er-i-throp'si-ä), n. [NL., \langle Gr. $\hat{\epsilon}_{p}\nu\theta\rho\hat{\epsilon}_{c}$, red, $+\delta\psi\epsilon_{c}$, view.] Same as *erythropia. erythropsin (er-i-throp'sin), n. [Gr. $\hat{\epsilon}_{p}\nu\theta\rho\hat{\epsilon}_{c}$, red, $+\delta\psi\epsilon_{c}$, view, $+\cdot in^{2}$.] Same as rhodopsin. erythroretin (e-rith-rō-rē'tin), n. [Gr. $\hat{\epsilon}_{p}\nu\theta\rho\hat{\epsilon}_{c}$, red, $+\hat{\rho}_{p}\tau\epsilon_{p}\eta$, resin.] One of the resinous substantial surface are required from the constalling surface. stances remaining after the crystalline substances have been removed from rhubarb extract. *Buck*, Med. Handbook, VI. 974.

erythrose (er'ith-rōs), n. [Gr. ἐρυθρός. red, + -ose.] A sugar, HOCH₂CH(OH)CH(OH)CHO, belonging to the group known as tetroses.

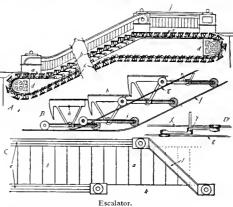
is closely related to erythrol. erythrosiderite (e-rith-rō-sid'e-rīt), n. [Gr. $\epsilon p \nu \theta \rho \delta c$, red, $+ \sigma \iota \delta \eta \rho i \tau \eta c$, of iron (see *siderite*).] A hydrous chlorid of potassium and ferric iron, found as a red deliquescent coating on the lava found as a red deliquescent coating on the lava of Vesuvius after the eruption of April, 1872. erythrosin, erythrosine (e-rith'rō-sin), n. [lrreg. ⟨ Gr. ἐριθρός, red, + -in².] Å coal-tar color of the xanthene type, the sodium or potassium salt of tetra-iodofluorescein. It dyes wool and silk bluish red or pink in a slightly acid bath. Also called erythrosin B, erythrosin D, cosin J, pyrosine B, and iodeosine B.—Erythrosin BB. Same as *phloxin P.—Erythrosin G, a coal-tar color of the xanthene type, the sodium or potassium salt of di-iodofluorescein. It dyes wool and silk yellow, red, or pink in a slightly acid bath.

Also called dianthine G, pyrosine J, and iodeosine G.— Erythrosin plates, in photog, sensitized plates stained with the red organic dyestuff crythrosin to increase their sensitiveness to the longer wave-lengths of the spectrum. erythrotoxin (e-rith-rō-tok'sin), n. [Gr. ἐρν-θρός, red, + E. toxin.] Same as *erythrolysin. erythrozinkite (e-rith-rō-zing'kīt), n. [Gr. ἐρνθρός, red, + E. zine, zink, +-ite².] Probably a manganesian variety of the zine sulphid wurtzite: from Siberia.

erythrozym (e-rith'rō-zim), n. [Gr. ἐρυθρός, red, + ζύμη, ferment.] A peculiar ferment of erythrozym (e-rith'rō-zim), n. the nature of an enzym occurring in madderroot. It possesses the power of decomposing rubian, yielding several products the most important of which is alizarin. The formula assigned to it by Schunck is $C_{56}H_{34}N_2O_{40}+C_{40}$.

erythruria (er-ith-rö'ri-ä), n. [NL., ζ Gr. ἐρυθρός, red, + ὁὐρον, urine.] The passing of red urine. Usually hematuria or hemoglobinuria. Esbach's albuminimeter. See *albuminimeter.

Esbach's albuminimeter. See *albuminimeter. Secalator (es'ka-lā-tor), n. [F. *escalateu, < Nl. *scalator, < Ml. scalare, elimb a stair: see scale3, v.] A moving stairway. It is essentially a conveyer, employing two chains which form an endless belt that travels on a double track, passing over two large sheaves, one below the floor at the foot of the stairway and one under the floor at the head of the stairway. The links of the chains support the treads and risers of a flight of steps, each pair supporting one tread and one riser. When the tracks are level, as at the landings of the stairway, the treads and risers travel on two pairs of wheels. riscr. When the tracks are level, as at the landings of the stairway, the treads and risers travel on two pairs of wheels, each pair moving on one trsek, and the treads form a continuous platform, the risers hauging below out of sight. Where the tracks are inclined they separate, one pair of wheels following the upper track and the other the lower track; the treads separate and the risers fill the spaces between the steps, thus forming a continuous traveling stairway. In operation the belt travels over the lower sheave up the stairway and turning downward over the second sheave. the stairway and, turning downward over the second sheave, returns with the treads and risers hanging below until they are again reversed in turning upward over the lower sheave. The two landings are thus traveling horizontal walks, and the stairway is a series of steps continually moving upward. The passenger steps upon the lower platform and stands still, the steps lifting him until the upper platform is reached, where he walks off upon the floor. At the side of the casing an endless hand-rail travels upward at the same speed as the stairway. Very large escalators have two stairways, one carrying passengers up and the other down. A single escalator, having steps three feet wide, has a capacity of six thousand passengers an hour. See *conveyer. the stairway and, turning downward over the second aheav



A: a, escalator operating as a horizontal apron-conveyer; b, escalator operating as an elevator; c, conveyer returning inverted and idle; d, d, sheaves over which conveyer truns, one being a live sheave giving motion to the conveyer; c, traveling hand-rail. B: f, lower track; g, upper track; h, frame supporting one tread and riser; i, four-wheel truck supporting frame, first pair on level position, others with forward pair of wheels on lower (inside) track, rear pair on upper (outside) track. (See D, showing wheels and tracks.) C: a, treads traveling horizontally; b, treads ascending; f, preventer or guard, guiding passenger off to h, second-story floor; c, travelng hand-rail. D: f, lower rail; g, upper rail; l, track and wheels.

escalin (es-ka-lan'), n. [F., $\langle D. schelling, E. shilling:$ see shilling.] A name of various senting: See smitting.] A finine of various coins: (a) A coin of Haiti, equal to 6 sols, and later to 15 sols. (b) A silver coin of Liège, equal to \(\frac{1}{2}\) florin or 10 stivers. (c) A silver and billon coin, equal to 3 stivers, struck for a long period in the Low Countries. (d) A copper coin atruck, by Russia, for Prussia, 1759-61. (c) A coin of Basel the one forty-fifth of a rix-dollar.

Escalloniaceæ (es-ka-lô-ni-ā'se-ē), n. pl. [NL. (Dumortier, 1829), < Escallonia + -aceæ.] A family of dicotyledonous choripetalous plants of the order Rosales, typified by the genus Escallonia (which see), included by many authors in the Saxifragaceæ. 1t includes 25 genera of trees and shribs, mostly natives of the southern hemisphere. Hea (which see) is the only genus which occurs is the street of the southern hemisphere. isphere. Itea (which in the United States

escambron (es-käm-brōn'), n. [Sp. escambron, buckthorn (Rhammus sp.).] A name of several plants armed with spines, especially the eat'sclaw, Pithecolobium Unguis-cati, called escambron colorado; Pisonia aculeata, the cockspur; and Volkameria aculeata, called escambron blanco. [Porto Rico.]

may be permitted to escape from the canal, either automatically or under direct control.

escapee (es-kā-pē'), n. An escaped person: used particularly with reference to convicts who have escaped from penal settlements, or

who have escaped from penal settlements, or have escaped and been recaptured.

escape-head (es-kāp'hed), n. A device by which an escape is operated. See *escape, 11.

escapement, n. 3. In pianoforte-making, that part of the action which provides that the hammer, after striking the string, shall instantly recoil, whether or not the key is released. The escapement is called double when the mechanism The escapement is called double when the mechanism admits of giving a second blow without fully releasing the key.—Vertical escapement, a form of clock escapement in which the escape-wheel is on a vertical axis, the rest of the train having horizontal axes: also called the crown-and-verge escapement, since the change from horizontal to vertical axes is usually made by a crown-wheel having teeth on the edge of the cylinder.

escapement-anchor (es-kāp'ment-ang"kor), n. In clockwork, the two arms of the detent or pawl which engage with the teeth of the escape-wheel, so as to allow only one of its teeth to pass at each oscillation of the pendulum or balance-wheel. The shape given to these two arms so as to envelop a part of the arc of the escape-wheel resembles that of the flukes of an anchor.

escape-pipe (es-kāp'pīp), n. An exhaust-pipe; the pipe through which steam escapes from an engine or a blow-off valve.

escape-way (es-kāp'wā), n. The channel through which the water is discharged from an escape. See *escape, 11. escape-wheel (es-kāp'hwēl), n. The last

wheel in the mechanism in clock- and watchwork by which the power of spring or weight is released or allowed to escape, by the catch and release of detent elements controlled by the timed swing of the pendulum or the os-cillation of the balance-wheel.

ters of, or resembling, the Escharina.
eschrolalia (es-krō-lā'li-ā), n. [NL. *æschrolalia, ζ Gr. αἰσχρός, shameful, + λαλεῖν, speak.]

Obscenity in speech.

escigenin, æscigenin (ē-sij'e-nin), n. [æsci(n-ic) + L. -qen-, produce, + -ic.] A compound, C₁₂H₂₀O₂, formed from escinic acid, escoclitis (es*ō-kō-lī'tis), n. [NL., ⟨ Gr. ἐσω, a glucoside found in horse-chestnuts. It is within, + κόλον, colon, + -itis.] Same as

a crystalline powder insoluble in water.

escinic, æscinic (ē-sin'ik). a. [L. æsc(ulus), horse-chestnut, + -ine + -ie.] Obtained from horse-chestnuts.—Escinic acid, an acld, C₂₄II₄₀O₁₂, which is also a glucoside: found in horse-chestnuts.

esciorcein, æsciorcein (ē-si-ôr'sē-in), n. [ws-eu(letin) + oreein.] A substance, C₉H₇NO₅, resembling orcein, formed by the action of ammonia on para-esculetin.

ammonia on para-esculeum.

escoba (es-kō'bā), n. [Sp. eseoba, broom, <
L. seopa, broom.] A name, in many countries settled by the Spanish, of tough-stemmed undershrubs used for making temporary brooms for sweeping the floor or ground about a house, especially of species of Sida and stants resembling them. In Parts Rice, Sida plants resembling them. In Porto Rico, Sida and acuta is called escoba blanca, or white broomweed; S. rhombifolia, escoba colorada, or red broomweed; and S. ulmifolia, escoba dutce, or sweet broomweed. These weeds are also called escobilla. See Sida, 1.

escobilla (es-kō-bil'yä), n. [Sp., dim. of escoba,

broom.] Same as *escoba.

escobita (es-kō-bē'tā), n. [Sp. escobita, a little whisk-broom, dim. of escoba, a broom.] In California, one of two species of the plantgenus Orthocarpus, the name referring to the brush-like inflorescence. O. densiforus is the common escobita, O. purpurascens the purple escobita; the latter is also called pink paint-brush. See *\u00e1owirs-clover.

escolar (es-kō-lār'), n. [Sp., a scholar, a copy. student: appar. first with reference to the esophagoscopy (ē-sof-a-gos'kō-pi), n. black escolar, called also domine (see *domine): in allusion to the 'black robe.'] A Cuban name for a scombroid fish of elongate body and swift movements, especially the species esophagospasm (ē-sof'a-gō-spazm), n. Same Ruvettus pretiosus.

especially Craniolaria annua, belonging to the neck into the esophagus. family Martyniaceæ, and in Mexico to a esophagotome (ē-sō-fag'ō-tōm), n. A knife composite plant, Pinaropappus roscus, the used for the performance of esophagotomy. roots of which are used medicinally and are offered for sale in the markets. In Spain the name is applied to Scorzonera Hispanica and Reichardia pieroides. See black salsify, under salsify, and Scorzonera.

escribano (es-kri-ba'nō), n. [Sp., a writer, a notary: see scriven.] A Cuban name for the fish ealled in English halfbeak (Hemiramphus

2. A gold coin of Chile, of the escudo, n.

value of five pesos, equal to \$1.825. esculetic (es-kū-let'ik), a. [esculet(in) + -ic.] Derived from esculetin.—Esculetic acid, an acid, $C_6H_2(OH)_3CH:CHCO_2H$, formed by boiling esculetin with a solution of barium hydroxid.

esculic (es-kū'lik), a. [escul-in + -ic.] Derived from esculin.—Esculic acid. Same as *sapogenin.
esculotannic (es"kū-lō-tan'ik), a. [L. æsculus,
horse-chestnut, + E. tannic.] Tannic, and denoise-enesting, + E. anime.] Table, and derived from the horse-chestnut.—Esculotannic acid, a variety of table acid or table having the composition $C_{26}H_{24}O_{12}$, and found in the bark, leaves, and other parts of the horse-chestnut.

Escurial lace. See *lace.

escutcheon, n.—Saeral escutcheon, a name given by Mivart to the slightly raised shield-shaped tigure (apex backward) on the posterior portion of the dorsal face of the sacrum of parrots. The term is of limited application, since in most birds this portion of the sacrum is smooth.

escape-way (es-kāp'wā), n. The channel escape-way (es-kāp

eserine-pilocarpine (es "e-rin-pi-lo-kär'pin),
n. A combination of the alkaloids eserine (physostigmine) and pilocarpine: used in the treatment of horses for colic, and as a purge

in herbivorous animals.

eshreen (esh-rēn'), n. [Ar. 'ishrīn, twenty, < 'ashar, ten.] A coin of modern Egypt, the 20faddah piece

escarole (es-ka-rōl'), n. Blanched endive: a salad vegetable. Also escarolla. eschar, n. 2. Same as slongh², 2. escharine (es'ka-rin), a. Having the characters of the composition of the bandage. See *bandage. See esmeralda (es-me-räl'dä), n. [Amer. Sp. use of Sp. esmeralda, emerald: see emerald.] A name applied by Spanish Americans to different fishes of the genus Gobius.

esmeraldaite (es-me-ral'da-it), n. [Esmeralda (see def.) + -ite².] A hydrated ferric iron, Fe₂O₃.4H₂O, occurring in black masses with vitreous luster: from Esmeralda county, No-

colitis.

esofagus, n. A simplified spelling of esophagus.
Esophageal pouch. See *pouch.
esophageatomy (ē-sof-a-gek'tō-mi), n. [Gr.
οἰσοφάγος, esophagus, + ἰκτομή, excision.] Exeision of the esophagus, in part or as a whole.
esophagism (ē-sof'a-jism), n. [esophagus + -ism.] Spasmodic narrowing of the esophagus.

esophagoblast (ë-sō-fag'ō-blast), n. [Gr. oἰσοφάγος, gullet, + βλαστός, germ.] A name given to each of three large ectodermal cells which, in certain annelids like *Thalassema*, give rise to the esophagus or gullet of the larva.

esophago-enterostomy (ē-sof a-gō-en-te-ros'tō-mi), n. A surgical operation for establishing direct communication between the csophagus and the small intestine, shutting out the stomach which may or may not be wholly or partially excised.

esophagoplasty (ē-sō-fag'ō-plas-ti), n. [Gr. οἰσοφάγος, gullet, + πλαστός, < πλάσσειν, form.] Plastic surgery of the esophagus.

esophagoscope (ē-sō-fag'ō-skōp), n. [Gr. οἰσοφάρος, esophagus, + σκοπεῖν, view.] An instrument which enables an observer to obtain a view of the mucous membrane of the esoph-

esophagoscopic, a. Relating to esophagos-

οἰσοφάγος, esophagus, + -σκοπία, < σκοπείν, view.] Examination of the interior of the esophagus by means of the esophagoscope.

as æsophagospasmus.

escapado (es-kā-pā'dō), n. [Sp.] An escaped prisoner. Mayne Reid. escape, n. 11. The outlet or gate in an irrigation or other hydraulic work by which water gation or other hydraulic work by which water especially Craniolaria annua, belonging to the escape, n. 12. The outlet or gate in an irrigation or other hydraulic work by which water especially Craniolaria annua, belonging to the esophagus. [Graniolaria escape] escorzonera (es-kôr-thỗ-nā'rā), n. [Sp. escorzonera (es-kôr-thỗ-nā'

esophagus, n.—Posterior esophagus, in certain gasteropods, as *Triton*, a narrow tube connecting the crop with the stomach.

esophoria (es-ō-fō'ri-ä), n. [NL., < Gr. ἐσω, withir, + -φορια, ζ-φορος, ζ φέρειν, bear.] A condition, depending upon imbalance of the eye-muscles, in which there is a tendency to convergence of the visual axes less pronounced than in actual squint or esotropia.

esophoric (es-ō-for'ik), a. [\(\) esophor-ia + \(\) -ie.] Relating to or characterized by esophoria.

Esopus grit. See ★grit2.

esotropia (es-ō-trō'pi-ä), n. [NL., \langle Gr. $\delta \sigma \omega$, within, + - $\tau \rho \sigma \pi \sigma c$, \langle $\tau \rho \delta \pi \epsilon \iota \nu$, turn.] An exaggerated esophoria amounting to convergent

espada (es-pä'dä), n. [Sp., a sword.] 1. A professional bull-fighter whose duty is to kill the bull with the sword. See also matador.— 2. The swordfish.

2. The swordfish.

espagnolette (es-pän-yo-let'), n. [F., < espagnol, Spanish, + -ette.] A fastening for a
double easement-window or light double door.

A round rod reaching from top to bottom of the casement
is fixed to the outer valve or fold. When both folds are
shut the rod is turned upon itself, and hooks at the top
and bottom take hold of fixed pins in the head and sill of
the frame.

esparcet, n.—False or wild esparcet, Astragalus bisulcatus a common leguminous plant of the western



False or Wild Esparcet (Astragalus bisulcatus). One fourth natural size.

United States, congeneric with the principal loco-weeds, yet not only innocuous, but of growing importance as a forage-plant and capable of being made to grow densely like clover and alfalfa, so as to be cut as hay.

espec. An abbreviation of especially.

Esperanto (es-pe-ran'tō), n. [Name transferred to the language from the pseudonym of its inventor, Dr. Esperanto, whose real name is Samenhof or Zamenhof, of Warsaw. The pseudonym Esperanto is a word of the artificial pseudonym Esperanto is a word of the artificial language so called, meaning 'hoper' or 'hoping person,' being a noun (in -o) from the participial adjective (in -a) esperanta, hoping, present participle (in -anta) of the verb (in -i) esperi, to hope, $\langle F. espérer, \langle L. sperare, hope: see esperanee.] The name of a recent 'universal language' constructed, like Volapük, by$ arbitrary reduction and manipulation of words and forms taken from existing European languages, and the adoption of a simple and reg-ular inflection. The general aspect of the language as printed is that of a shrunken composite of Latin, Spanish, and French, with

a Polynesian spelling.

esphera (es-fă'rā), n. [Pg., a sphere: see sphere.] A gold eoin of Portugal, struck under Emanuel I. (1495-1521) for the colonies.

espinillo (es-pē-nēl'yō), n. [Sp. espinillo, a dim. of espino, thorn-tree, \(\) espina, thorn: see dim. of espino, thorn-tree, cespina, thorn: see spine.] In Spanish countries, a small thorn-bearing tree. In Uruguay and Argentina especially Acacia Cavenia, a shrub or small tree with immerous heads of yellow thowers closely resembling the widely spread A. Farnesiana, but having long conspicuous white stipulary spines. Like many other trees of the mimosa family, its legumes are rich in taunin. They are known commercially as quirinca-pods (which see). It shares with A. Farnesiana the name aroma, from the aromatic fragrance of its flowers. espino

(Fagura Clava-Herculis). esponja (es-pōn'hā), n. [Sp., sponge: see sponge.] In Porto Rice and Spanish America, the sponge-gourd. See Luffa.

espundia (es-pön'di-ä), n. [Sp., an uleer in horses.] The Bolivian name for a skin-disease, horses.] said to be a lupus, peculiar to the lower eastsaid to be a hippus, pecunar to the lower east-ern valleys and lowlands of western South America. It is not contagious, but may be-come mortal through neglect and excesses. Many attribute it to the sting of an insect.

Espy's dew-point method, rule, theory of *cloud, *rule1, See altitude of a storms.

*storms. See altitude of a *cloud, *rule1, *storm.

*essence, n., 7.—Within the last few years knowledge of the true chemical nature of the essences or essential oils, which ocenr in great variety in the vegetable kingdom, and to which the odors, tastes, and medicinal effects of many plants are due, has been greatly increased. Instead of single substances, these essences are found to consist of hydrocarbons, alcohols, aldehydes, and esters, often of special character and variously mixed with one another; and among the notable achievements of modern organic chemistry have been not only the successful study of these materials of natural origin, but also, in a number of cases, their artificial reproduction.—Essence de Boulogne, a trade-name for a solid bleaching material made by passing chlorin gas over crystallized carbonate of soda. Also known as chlorozone.—Essence of ananas. Same as ethyl butyrate (which see, under butyrate).—Essence of beef, the juice of beef, prepared in various ways for invalids.—Essence of cajeput. (a) An alcoholic solution of oil of cajeput. (b) The French designation for oil of cajeput.—Essence of girofie. Same as oil of cloves.—Essence of miaoull, the essential oil of the leaves of Melaleuca viridiylora, from New Caledonia. It is a mixture consisting of terebenthene, eucalyptol, and unidentified terpene hydrocarbons, and is said to be analogous to oil of cajeput.—Essence of manga, a colorless dextrorotatory oil obtained from the peel of sweet oranges. It contains terpenes and other substances and has its rotatory power largely affected by changes of temperature.—Vinegar essence, vinegar of extra strength, containing as much as 12 or 14 per cent. of acetic acid: sometimes made by removing a part of the water of ordinary vinegar by evaporation. Also known as double vinegar.

Essenize (e-se'niz), v. t.; pret. and pp. Essenized, porr. Essenized.

Essenize (e-sē'nīz), v. t.; pret. and pp. Essenized, ppr. Essenizing. [Essene + -ize.] To teach, or incline toward, the doctrines and practices of the Essenes.

essential, a. 5. In geol., noting those minerals of any species of rock which establish its character and which must be mentioned in its definition: contrasted with *aecessory. Gcikie, Text-book of Geol., p. 89.—Essential graphs. See *graph.—Essential singular point. See *point1

Essex (es'eks), n. A breed of black hogs, of small size, named from Essex, England, where the breed had its origin: valued chiefly for rapid growth and early maturity.- Essex lion.

essexite (es'ek-sīt), n. [Essex county, Massachusetts, + -ite².] In petrog., a phanerocrystalline rock intermediate in composition between diorite, gabbro, and nephelite-syenite. It contains labradorite and some orthoclase, occasionally nephelite, together with pyroxene, barkevikitic hornblende, olivin, and biotite. Sears, 1891.

essexitic (es-ek-sit'ik), a. [essexite + -ic.] In petrog., having the chemical or mineral characters of essexite.

essoinee (e-soi-ne'), n. [A.F. essoignié, pp. of essoignier: see essoin, v.] In law, a person whose excuse for absence from court is allowed.

essoin-roll (e-soin'rol), n. In law, a list of the essoins and the date to which the court is

est., estab. Abbreviations of established.

establish, v. t. 8. In systematic biol., to give technical publication to; fix by publication in the nomenclatorial sense. See *publication, 5.

—To establish a suit. See *suit.

estadia (es-tā-dē'ā), n. [Sp. estadia, < cstar, be, < L. starc, stand.] In Sp. law, the period during which the charterer of a vessel, or the party who is bound to receive the cargo, must pay demurrage by reason of his delay in carrying out his contract.

estanco (es-tan'kō), n. [Sp., a monopoly, a monopoly store.] A place or store where articles included in the government monopoestanco (es-tan' $k\bar{o}$), n. lies are sold. [Philippine Is.]

estate, in.—Customary estate, in Eng. taw, an estate which originated and existed according to the custom of the manor in which it was held.—Dominant estate. Same as dominant tenement (which see, under dominant).

—Estate by dower, the estate in real property which a widow takes by dower. See dower? 2.—Fast estate, a term sometimes used for real estate. Peal estate. See real 1.—To enlarge an estate. See ★enlarge.

ester, n.—Acetoacetic ester. See *acetoacetic.—Ester number, in chem., the quantity of a neutral fat or oil required to saponify a fixed quantity of an alkali. If there is no free fatty acid present, the ester number is the same as the *saponifection **equivalent. In the case of a natural fat which contains both neutral fat and free fatty acid, the ester number is the difference between the total saponification equivalent and the saponification equivalent of the free fatty acid. Also known as ether value.—Lauric ester, an ester of lauric acid. Sometimes the term is used, specifically, for the ethyl ester, CH₃(CH₂)₁₀COOC₂H₅, prepared by the action of ethyl alcohol and hydrochloric acid on lauric acid. It melts at — 10° C. and boils at 260° C.—Ortho ester. See *orthoester.—Orthocarbonic ester, a colorless liquid, C(OC₂H₅)₄, prepared by the action of sodium ethylate on trinitrochloromethane (chloropicrin). It has an aromatic odor and boils at 158–159° C.
esterification (es-tér-i-fi-kā'shon), n. In or-

esterification (es-ter-i-fi-kā'shon), n. ganic chem., the preparation of esters (ethercal salts) from alcohols and acids or certain of their derivatives. If the free alcohol and acid are employed, water is also formed, the reaction being represented thus: ROH + $110 \text{COR'} \rightarrow \text{ROCOR'} + \text{H}_2\text{O}$.

The acid esters of mono-, di-, tri-, and tetra-methyl succinic acids have been prepared and their esterification constants and electric conductivities determined. Rep. Brit. Ass'n. Advancement of Sci., 1902, p. 586.

esterify (es-ter'i-fi), v. t.; pret. and pp. esterified, ppr. esterifying. [ester + -i-fy.] To form an ester from. Jour. Phys. Chem., May, 1905,

Esth. An abbreviation of Esther. See Century Cyclopedia of Names.

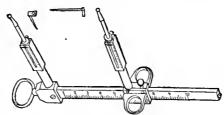
esthesioblast, æsthesioblast (es-thē'si-ō-blast), n. [Gr. $ai\sigma\theta\eta\sigma\iota\varsigma$, sensation, + $\beta\lambda a\sigma\tau\delta\varsigma$, germ.] In neurol., a sensory cell in the integument of an animal, which serves to collect sensations from the external world.

esthesiogenic, a. 2. Producing or conditioniug sensation or perception: as, an esthesiogenic agent, esthesiogenic factors.

esthesiogenous (es-thē-si-oj'e-nus), a. Esthesiogenic.

esthesiomania, æsthesiomania (es-thē"si-ō-mā'ni-ä), n. [NL., \langle Gr. $ai\sigma\theta\eta\sigma\iota\varsigma$, feeling, + $\mu avia$, madness: see mania.] A moral sense so perverted, or simple eccentricity so extreme, as to constitute the borderland or even a mild degree of insanity.

esthesiometer, n. The instrument is made in a great variety of forms, all based, however, upon the simple com-



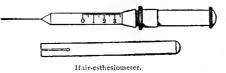
Griesbach's Dynamometrical Esthesiometer.

pass pattern. In certain recent instruments the points are attached to rods which press against spiral springs inclosed in the metal tubes which form the legs of the compasses, and a scale is marked upon the front surfaces of the tubes. It is thus possible to read off the amount of pressure exerted in any given application of the points to the cutaneous surface; and the exthesiometer may be used not only to measure the limen of dual impression, equivalences of tactile extent, etc., but also to test the pressure-sensitivity, the depth of sleep, etc. See the extract,

One of the latest departures of the experimental psychologist consists in prodding people with a pointed instrument when they are asleen to find out how much exitation is required before they begin to move, and how much it takes to wake them up. . . The instrument employed is called a Griesbach esthesiometer, . . . and may be used with either a sharp or blunt point. It measures the stimulus necessary to induce subconscious reaction, and that applied at the waking-point.

Nature, June 5, 1902, p. 137.

Hair-esthesiometer, in psychophys., an instrument for the determination of the stimulus limen of



punctual pressure. The hair-esthesiometer, devised by M. von Frey, consists of a hair (human or horse-hair) set in a metal handle, and adjustable in length by a setscrew. When the length of hair has been found to whose stimulation a pressure-spot first responds, the

pressure constant of the hair is determined by means of a balance, and the limen is expressed in terms of gram-millimeters. E. B. Titchener, Exper. Psychol., II. i. 16.

esthesiometric, æsthesiometric (es-thē-si-ō-met'rik), a. In psychol., pertaining to the esthesiometer or to its use: as, the esthesiometric compasses (the esthesiometer), the esthesiometric method.

esthetic, a. 5. In pathol., having sensation: as, "a patch of æsthetic skin." Philos. Trans. Roy. Soc. (London), ser. B, 1898, p. 64. estheticist, æstheticist (es-thet'i-sist), n.

estheticist, æstheticist Same as estheticiun.

estheticokinetic, æstheticokinetic (es-thet/ikō-ki-net'ik), a. In physiol., relating to sensation and motion; both sensory and motor.

esthetology, æsthetology (es-thē-tol'ō-ji), n.
[Gr. aiσθητός (see esthetic) + -λογια, ζ λέγειν,
speak.] The science of esthetics, particularly

spear. I the science of esthetics, particularly in reference to the forms of art in different types of culture. J. W. Powell, in 18th An. Rep. Bur. Amer. Ethnol., p. xxvi.

Esthonycidæ (es-thō-nis'i-dō), n. pl. [NL. prop. *Esthonychidæ, < Esthonyx, the type genus, + -idæ.] A family of Tillodontia, comprising animals of moderate size, whose remains occuping the Wesstell Lawre Property. comprising animals of moderate size, whose remains occur in the Wasatch, Lower Eocene, of the western United States. Like the other tillodonts, these animals resembled the rodents, ungulates, and carnivores, having incisor teeth like rodents, and molars suggesting those of ungulates. Cope, 1883. estimator, n. 3. A weighing-scale adapted to the estimating of the quantity of material in a gross (or other number) of articles by weigh-

a gross (or other number) of articles by weighing a single article. A drop-forging or other article is placed on the scale-pan, and the sliding weight on the beam is moved until it balances the article, when it indicates, by the marks on the beam, the total weight of the desired number of the same kind of article.

estivation, n.—Indeterminate estivation, estivation in which the parts do not come into contact in the bud; open estivation.

estivator, æstivator (es'ti-vā-tor), n. An animal which becomes and remains dormant during the summer.

estivo-autumnal, æstivo-autumnal (es'ti-vo-a-tum'nal), a. Relating to both summer and â-tum'ual), a. Relating to both summer and autumn; specifically, designating a grave form of malarial fever occurring in the late summer and the autumn. Energe. Brit., XXX. 484.
Estlander's operation. See *operation.
Estonioceras (es-tō-ni-os'e-ras), n. [NL., irreg. ⟨ Estonia, Esthonia, a province of Russia, + Gr. κέρας, horn.] The typical genus of the Estevice restriction.

Estonioccratidæ.

Estonioceratidæ (es-tō-ni-os-e-rat'i-dō), n. pl. [NL. Estonioceras (-at-) + -idæ.] A family of Lower Silurian tetrabranchiate cephalopods having coiled or curved shells with biangular section in youth and triangular section in later stages

estragol (es'tra-gol), n. [estrag(on) + -ol.] A colorless liquid, CH3OC6H4CH2CH: CH2, contained in oil of estragon from Artemisia Dra-cunculus L. It boils at 215-216° C. and is used for flavoring pickles. Also called paramethoxyallulbenzene.

estramazone (es-tram'a-zon), n. Same as stramazone.

Being eager to punish him, I made an estramazene.

Scott, The Monastery, xxvii.

Estrangelo (es-tran'ge-lō), n. [Also estranghelo; Syriac estrangelo, 'gospel character.'] An anciont form of the Syriac alphabet.

The brush of the Chinese determined the direction downwards and from right to left, as for painting. The ancient Syriac estranghelo was also written in the same way, but from left to right. Deniker, Races of Man, p. 142.

estrapado (es-tra-pā' $d\bar{o}$), n. Same as strappado. estremadurite (es-tre-ma-dö'rīt), n. [Estrema-dura (see def.) + -ite².] Phosphorite or massive apatite, mineral calcium phosphate, as

found in Estremadura, Spain.

estriate (ë-stri'āt), a. [NL. cstriatus, < L. e-, out, + striatus, striped.] Not striate; not possessing striæ: said of the surface of many insect sclerites. Annals and Mag. Nat. Hist.,

In Porto Rico and Spanish America, the sponge-gourd. See Luffa.

Estuarine series. See *serics. esurience, esuriency (ë-su ri-ens, -en-si), n.

The state or quality of being esurient. Colc-

No pretext beyond the fact of esurience and the sense of ability is suggested for the villany of Subtle, Dol, and Face.

Swinburne, Ben Jonson, i. 40.

e. t. An abbreviation (a) of electric telegraph;
(b) [eap.] of English translation.
eta, n. 2. In elect., a symbol for eoefficient of magnetic hysteresis. See magnetic *hysteresis.
et al. An abbreviation (b) of the Latin et alibi, 'and elsewhere.'

eta-palm, n. Same as ita-palm. Etcheminian (cch-e-min'i-an), n. [Etchemin, a river of Canada, also name of a tribe of Indians.] In geol., a subdivision of the rocks of the Canadian Atlantic, regarded by some American geologists as Precambrian and by others as correlated with the Lower Cambrian. others as correlated with the Lower Cambrian. It has a thickness greater than 1,200 feet, and is underlain by the Huronian and evertain by the Cambrian beds with Protolenus. Its characteristic fauna consists of Hypothithides, Entomostraca, small phyllocarids, and horny brachiopods, and it is claimed that the Olenellus of Lower Cambrian fauna has been found in it.

etching, n. 4. In photog., a plate, as of copper, coated with a substance sensitive to light, which often every supersurface and development is such

which after exposure and development is subjected to the dissolving action of a chemical, such as nitric acid, which attacks the bare metal .- Typographic etching. See the extract.

The invention of Palmer's process called at first Glyphography, about the year 1844; this was afterwards perfected, and used to a considerable extent under the name of Dawson's Typographic Etching.

Encyc. Brit., XXIX. 411.

Zinc etching, in photog., any one of several reproduction processes in which a zinc plate is etched after having been subjected to photographic treatment.

Etclis (et'e-lis), n. [NL., \langle Gr. $\ell \tau \epsilon \lambda \iota \zeta$, an un-



(From Bulletin 47, U. S. Nat. Museum.)

identified fish.] A genus of brilliantly colored fishes of the family Lutianidæ, allied to the snappers, but more elongate and swifter in movement. The color is bright crimsom. E. oculatus occurs in the West Indies and is known there as cachucho; E. evurus is found in Hawaii.

ethane (eth'an), n. [eth(er) + -ane.] A color-less, odorless gas, CH₃CH₃, found in illumi-nating gas and in crude petroleum, and prepared by the action of hydrogen on ethylene, acetylene, or ethyl iodide, and by the action of water on zinc ethyl. It boils at -93° C. Also called methylmethane, dimethyl, and ethyl hydrid.

ethelism (eth'el-izm), n. [Gr. ἐθέλ-ειν, be willing, + -ism.] A form of voluntarism. [Rure.] ethenic (ē-then'ik), a. [ethene + -ie.] pertaining to ethene or ethylene. Of or

ethenoid (eth'e-noid), a. [ethene + -oid.] In organie ehem., having two atoms of carbon in the molecule doubly linked, as in ethylene, H_H>C:C< H_I.

ethenyl (eth'e-nil), n. [ethene + -yl.] A trivalent radical, CH3C ←.

ether 1, n.—Aran's ether. Same as *ethylidene chlorid. Compound spirit of ether. Same as *ethylidene chlorid. Compound spirit of ether. Same as *ethylidene chlorid. Compound spirit of ether. Same as *ester number.—Fruit-ether, the trade-name of certain esters possessing finity aromas, some of which occur in fruits. They are chiefly compounds of ethyl, butyl, and amyl alcohols with acetic, propionic, butyric, and valeric acids: for example, isoamyl-propionate, C₅ll₁10COC₂H₅, has an odor of pineapple, and isoamylacetate, C₅ll₁10COC₁H₅, bhat of pears. They are largely used for the manufacture of fruit-syrups, essences, etc.—Hydrobromic ether, ethyl bromide, C₂ll₅Er.—Hydrocyanic ether, a colorless ethereal fluid, C₂ll₅CN, miscible with water, alcohol, and ether: because of its extremely poisonous nature not used in medicine.—Quiescent ether, ether the position of which in space is unaffected by the movement of bodies through it. In the theory of light, the luminiferous ether is supposed either to be carried along by bodies moving through space or to remain stationary and undisturbed by the motion of bodies. The ether of the latter hypothesis is called the quiescent ether.—Sallcylic naphthyl ether. Same as *betol.—Spirit of vitriolic ether, the pharmaceutical name for ordinary ether. Mso called sulphuric ether. The correct chemical term is diethyl ether.—Suphur ether. Same as *thylidene chlorid.

Ethereal Sulphates, Same as conjugate *sulphulates.

Ethereal sulphates. Same as conjugate *sul-

etherene (ô 'ther-en), n. [ether + -ene.] A little-used name for ethylene. Other synonyms are ætherin, æthylene, etherin, ethene, and

etherion (ē-thē'ri-on), n. [NL., ζ Gr. αἰθέριον,

Brush in 1898, and described by him as a gas of density only one-thousandth that of hydrogen and having a much greater conducting power for heat, as present in the earth's atmosphere, and as perhaps extending throughout interstellar space. Sir W. Crookes has shown that etherion is probably nothing more than highly rarefied vapor of water.

etheromania (ē-ther-ō-mā'ni-ā), n. [Gr. alθήρ, ether (air). + $\mu avia$, madness.] Addiction to the use of ether as an intoxicant.

etherous (\bar{e}' the-rus), a. [ether + -ous.] Of

the nature of ether.

ethical, a. 2. In a special sense, relating to medical ethics or in accord with the code of rules which guides physicians in their relations to one another and to their patients.—Ethical culture, dualism. See *culture, *dualism. ethician (e-thish'ian), n. [ethic + -ian.] A

student of ethics; a writer on ethics.

At a moment when ethicians . . . are coming to perceive the social bases of morality, one would not lay a straw in their way. Yet it is well to recognize that, after all is said, ethics is more than a mere wing of sociology. E. A. Ross, in Amer. Jour. Sociol., May, 1903, p. 773.

ethicism (eth'i-sizm), n. [ethie + -ism.] Ethical quality or spirit; tendency to meralize.

Ethical quality or spirit; tendency to moralize.

The literature of those great men was . . . the Socinian graft of a Calvinist stock. Their faith . . . was Unitarian, but their art was Puritan. So far as it was imperfect— . . it had its imperfections—it was marred by the intense ethicism that pervaded the New England mind for two hundred years, and that still characterizes it. . . . They . . pointed the moral in all they did.

B. D. Howells, in Harper's Mag., Nov., 1895, p. 867.

ethico-political (eth"i-kō-pō-lit'i-kal), a. Relating to both ethics and politics: as, the ethico-

lating to both ethics and politics: as, the ethico-political system of Confucius.

ethidene (eth'i-dēn), n. [eth(er) + -id + -ene.] Same as *ethylidene.

Ethiopian, I. a. 2. In anthrop., relating to the negroid race which inhabits Africa (Blu-menbach).—3. In zoögeog., pertaining or be-longing to the region constituted by the whole of Africa and Arabia south of the tropic of Cancer, together with Madagascar, Mauritius,

Bourbon, Rodriguez, and the Sevchelles.

II. n. 3. In anthrop., one of the Ethiopian race.

ethmoid. I. a.—Ethmoid crest, fossa. See ★crest,

II. n.—Lateral ethmoid in ichth., the prefrontal, a bone lateral to the ethmoid. Starks, Synonymy of the Fish Skeleton, p. 509.

ethmoiditis (eth-moi-di'tis), n. [ethmoid + -itis.] Inflammation of the mucous membrane which lines the cavities in the ethmoid bone.

ethmolysian (eth-mō-lis'i-an), a. [Gr. $i\beta\mu\delta c_s$, a strainer, $+\lambda i\sigma a_s$, opening, +-an.] In echinoids, having the pores of the water-vascular system and the plate in which they open extending backward until they separate the two posterolateral genital plates. Compare *ethmophraet.

ethmophract (eth'mō-frakt), a. [Gr. ήθμός, a strainer, + φρακτός, < φράσσειν, inclose.] In echinoids, having the pores of the water-vaseular aperture situated only in the right anterior corner of the apical system. Compare *ethmolysian.

ethmophysal (eth-mō-fi'sal), n. [Gr. $i\theta u \delta c$, a strainer, $+ \phi v \sigma a$, a bellows, $+ -a l^{1}$.] In iehth., the nasal, a small lateral bone above the olfactory organ. Starks, Synonymy of the Fish Skeleton, p. 520.

ethmosphenoidal (eth/mō-sfē-noi'dal), a. [eth-mo(id) + sphenoid + -all.] Relating to the ethmoid and sphenoid bones: as, the ethmosphenoidal suture.

Ethnic psychology, psychopathology, race, society. See *psychology, etc. ethnicist (eth'ni-sist), n. [ethnic+-ist.] Same

as ethnologist.

ethnicize (eth'ni-sīz), v. i.; pret and pp. ethnicized, ppr. ethnicizing. [ethnie + -ize.] To tend toward or favor ethnic or pagan ideas or practices.

There were two errors which the new-born Christianity There were two errors which the new-born Christianity had to guard against, . . . a relapse into Judaism on the one side, and against a mixture with paganism and speculations borrowed from it, and a mythologizing tendency, on the other. Accordingly the earliest heresies, of which we have any trustworthy accounts, appear either as judaizing or as ethnicizing (hellenizing) tendencies.

K. R. Hagenboch (trans.), Illat. of bottrines (revised by [Henry B. Smith, 1861), I. 54.

[In an earlier edition (1847), quoted in N. E. D., the word is ethnizing.]

ethnicopsychological (eth/ni-kō-si-kō-loj'i-kai), a. Relating to ethnic psychology.

neut. of αἰθέριος, of the ether: see ethereal.] A ethnize (eth'nīz), v. i.: pret. and pp. ethnized, supposed new element announced by C. F. ppr. ethnizing. [Gr. εθνος, nation, + -ize.] ppr. ethnizing. [Gr. εθνος, nation, + -ize.] Same as *ethnicize.

ethnobotanical (eth/nō-bō-tan'i-kal), a. Relating to the uses of plants among aborigines or primitive races.

In May, 1899, Dr. Walter Hough was detailed to carry on ethno-botenical researches in Mexico, in connection with certain explorations by the Division of Botany. Smithsonian Rep., 1899, p. 65.

ethnobotany (eth-nō-bot'a-ni), n. [Gr. ἐθνος, people, + E. botany.] Botany in its relations to the economic uses of plants by different races, especially by aborigines or primitive

Cellections of interest in ethnology, ethnobotany, and rchwelogy.

Smithsonian Rep., 1899, p. 18. archæelogy.

ethnocentric (eth-nô-sen'trik), a. [Gr. $\hat{\epsilon}\theta\nu o \varsigma$, people, $+\kappa \hat{\epsilon}\nu \tau \rho o \nu$, center, + -i c.] Characterized by the idea that the tribal unit to which the self belongs is the center of the universe. J. McGee, in 19th An. Rep. Bur. Amer. Ethnol., . 831.

ethnoconchology (eth/nō-kong-kol'ō-ji), n. [Gr. ἐθνος, people, + E. conchology.] The study of the use of shells by various peoples.

ethnodicy (cth-nod'i-si), n. [Gr. έθνος, people, + δίκη, justice.] The science of comparative jurisprudence, including the study of the forms

of law found in primitive society.

ethnoflora (eth-nō-flō'rä), n. [NL., ζ Gr. ἐθνος, people, + NL. flora.] The plants, taken collectively, used by the aborigines of any locality. See *ethnobotany.

The months of July to November, inclusive, were spent . . . in researches among the Zuhi Indians, the special objects being a comparative study of the peoples of the Southwest and a collection of the "ethnofora" of Zuhi.

Smithsonian Rep., 1903, p. 36.

ethnog. An abbreviation (a) of ethnographical; (b) of ethnography.

ethnogamic (eth-nō-gam'ik), a. [ethnogam-y+-ic.] Pertaining to or characterized by ethnogamy.

ethnogamy (eth-nog'a-mi), n. [Gr. εθνος, people, + γάμος, marriage.] A form of marriage confined to the consanguineal group, with absence of captive or purchase ceremonies: a form of endogamy without any vestige of inter-tribal marriages. W. J. McGee, in 17th An. Rep. Bur. Amer. Ethnol., I. 284.

Ethnogenic association, sociology. See *association, *sociology.

ethnogeographer (eth nō-jē-og ra-fer), n. One who studies the geographical distribution of races, or who is versed in that subject.

ethnogeographic (eth*nō-jō-ō-graf'ik), a. Of or pertaining to ethnogeography.

The features which distinguish one ethnogeographic province from another arc chiefly . . . meteorological, and they permit . . a much closer division of human groups than the general continental areas.

Brinton, Basis of Social Relations, p. 198.

ethnogeographical (eth″nō-jē-ō-graf'i-kal), a. Same as *ethnogeographie.

In ethnogeographically(eth/nō-jē-ō-graf'i-kal-i), adv. As regards ethnogeography; in accordance with the methods and results of ethnogeography. Encyc. Brit., XXX. 487.

ethnogeography (eth"nō-jē-og'ra-fi), n. [Gr. εὐνος, people, + γεωγραφία, geography.] The science or description of the distribution of races and peoples over the surface of the

earth. Brinton, Basis of Social Relations.

Ethnographic parallels, the occurrence of similar customs, arts, and helicfs among peoples in the arry the same stage of culture in widely separated regions.

ethnol. An abbreviation (a) of ethnological; (b) of ethnology.

ethnologize (eth-nol'o-jīz), v. i.; pret. and pp. ethnologized, ppr. ethnologizing. [ethnolog-y+-ize.] To discuss from an ethnological point of view.

ethnomaniac (eth-nō-mā'ni-ak), n. [Gr. ἐθνος, people, + μανίακός, 〈 μανία, mania.] A rabid advocate of racial autonomy; an extreme nationalist. Stand, Dict.

ethnometry (eth-nom'e-tri), n. [Gr. εθνος, a people, a nation, + -μετρία, < μέτρον, a measure.] The measurement of the value of a people in the scale of civilization.

Dumont considers that the increase of population is the best criterion of the customs, manners, and habits of a people, that it is, in short, a veritable ethnometry.

G. S. Hall, Adolescence, II. 725.

ethnopsychic (eth-nop-sī'kik), a. [Gr. $\epsilon\theta\nu\sigma\varsigma$, people, + $\psi\nu\chi\eta$, mind.] Pertaining to the collective mind of a nation, race, people, or analogous human group.

ethnos (eth'nos), n. [Gr. ἐθνος, a company, band, tribe, people, nation, pl. ἐθνη, L. gentes, the nations, the gentiles, the (other) peoples, the heathen.] The tribe or nation, in an analysis thropologic aspect.

Note that I say ethnic mind. For let it be said here, as well as repeated later, that there is no such thing as progress or culture in the isolated individual, but only in the group, in society, in the ethnos. Only by taking and giving, borrowing and lending, can life either improve or continue.

Brinton, Basis of Social Relations, introd., p. xv.

ethnotechnics (eth-nō-tek'niks), n. [Gr, εθνος, people, + Ε. technics.] The science of comparative technology, including the study of the technology of primitive man.

ethnotechnography (eth*no-tek-nog'ra-fi), n. [Gr. iθνος, people, + τέχνη, art, + -) μαφία, < γραφειν, write.] The study of the technology

of different peoples.

ethnozoölogy (eth*nō-zō-ol'ō-ji), n. [Gr. lθνος, people, + E. zoölogy.] The study of the fauna Etruria ware. See *ware². of any region in its relation to the human ettringite (et'ring-it), n. [G. Ettring-en + population. Jour. Anthrop. Inst., 1901, p. 45.

ethochroi, n. pl. See *xchochroi, ethological, a. 2. Relating to the study of human character.—3. Relating to the study of eustoms.—4. Relating to œeology.

To these genera, each of which embraces species presenting a considerable range of *ethological* peculiarities while differing but little in morphological characters, we must also add Leptogenys.

**Eiol. Bulletin*, May, 1904, p. 251.

ethology, n. 3. Same as accology. [Rare.] ethophysical (eth-ō-fiz'i-kal, a. [eth(ie) physical.] Having both ethological and physieal characters.

ethoxycaffein (eth/ok-si-ka-fe'in), n. [eth(er) + axy(gen) + caffein.] A colorless, beautifully crystalline compound, $C_8H_9N_4O_2.OC_2H_5$. fully crystalline compound, 0814,142 slightly soluble in water and alcohol, made by boiling 3 parts monobrom eaffein with 2 parts resimm by drate in 10 parts alcohol. It is sedative in nervous headache.

sedative in nervous headache.

ethoxyl (eth-ok'sil), n. [eth(er) + ox(ygen) +
-yl.] In organic ehem., the univalent organic
radical. -OC₂H₅.

Ethyl bromide. See *bromide.—Ethyl chlorid, a
colorless very volatile liquid, C₂H₅Cl, prepared by heating alcohol with hydrochloric acid. It hurns with a green
flame, boils at 12.5° C., and is used in medicine as an anesthetic and in chemistry as an alkylating agent.—Ethyl
green. See green!.—Ethyl hydrid. Same as *ethane.
—Ethyl phenacetin, a yellow, oily compound, C₆H₄
(OC₂H₅O)XC₂H₅CH₃CO, almost insoluble in water but
readily soluble in alcohol and other, obtained by the
action of ethyl iodide on phenacetin-sodium. It is hypnotic and analgesic.—Ethyl violet. See *wiolet*1.

ethyldiacetic (eth*il-di-a-set'ik), a. [ethyl +
diacetic.] Noting an aeid.—Ethyldiacetic acid.

ethyldiacetic (cth*il-di-a-set'ik), a. [ethyl + diaeetic.] Noting an aeid.—Ethyldiacetie acid. Same as *diaeetie acid.

Ethylene chlorid, a colorless liquid, CH₂Cl.CH₂Cl, prepared hy the action of chlorin on ethylene. It boils at \$3.5° C. Also called 1,2-didelorethane and very rarely etaylchlorid.—Ethylene hydriodide. Same as iodide of ethyl.—Ethylene series, the series of hydrocarbons, of the general formula C_nH₂n, homologous with ethylene. ethylenimin (eth-il-en'i-min), n. [ethylene + im(ide) + -in².] A basic substance found in semen; the so-ealled spermin, C₂H₅N.

ethylidene (e-thil'i-dēn), n. [ethyl + -id + -cue.] A bivalent organic radical, CH₃CH \(\). Sometimes called ethidene.—Ethylidene chlorid,

Sometimes called ethidene.—Ethylidene chlorid, a coloriess etheral liquid, C₂H₃Cl₂, made by the chlorination of ethyl chlorid: employed as an anesthetic. ethylidene-diamine (e-thil[#]i-dēn-dī-am'in), n.

A non-poisonous ptomaine, $C_2H_8N_2$. ethylsulphuric (eth″il-sul-fū′rik), a.

the following acid.—Ethylaulphuric acid, a color-less syrup, C₂H₂OSO₂OH, formed by the action of sulphuric acid on alcohol. It readily yields salts and is important as an intermediate compound in the production of ether and ethylene from sulphuric acid and alcohol.

*Eubasidii. Eubasidii. (ū-ba-sid'i-ī), n. pl. [NL., < Gr. εὐ, well, + NL. basidium.] A division of the Basidiomycetes, including all the orders having true basidia. Compare *Hemibasidii.

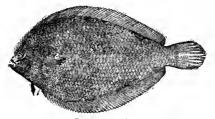
etiolation, n.—False etiolation, a condition characterized by the absence of chlorophyl, often observed in wheat and other grasses, due to too low temperature. etiophyl (ē' ti-ō-fil), n. [Gr. alviu, eanse, + \phi/\(\lambda\lambda\rangle\) [eff.] The yellow principle obtained from etiolated parts of plants are hade of the from etiolated parts of plants, as buds of the From enomated parts of plants, as buds of the skunk-cabbage, essentially different from ehlorophyl. See the extract under *\text{ctioplast.} etioplast (\vec{6}'\ti-\vec{0}\text{-plast}), n. [Gr. \(ai\tauia\), eause, $+ \pi \lambda a \sigma \tau \delta c$, formed.] A plastid found combined with etiophyl.

For this principle I propose the name etiophyl, and for the associated plastid, which seems to be a distinct body, I propose a corresponding name, etioplast.

H. Kraemer, in Proc. Amer. Philos. Soc., April 8, 1904, [p. 264.

the ethnopsychic relationship between these [initiatory] rites and those indicating the new birth of the soul, with a background to both of the resurrection of spring following the death of sutumn, . . . is munistakable.

G. S. Hall, Adolescence, II. 407. Étrenne (ā-tren), n.
 ⟨ L. strena, a New-Year's present, prop. an omen; a Sabine word.] A present; properly, a New-Year's present
 Dickens.
 Etropus (ēt'rō-pus), n. [NL., ⟨Gr. ηπρον, abdomen, + ποῦς (ποδ-), foot.] A genus of small with cined, C₁₀H₁₈O; it occurs in many species of Euclyptus besides E. Globulus.



(From Bulletin 47, U. S. Nat. Museum.)

fragile-bodied flounders having the mouth very small, found on both coasts of tropical America. E. crossotus is the common species abun-

-ite2.] A hydrous sulphate of aluminium and ealcium, occurring in colorless acicular crystals: found in eavities in lava at Ettringen and elsewhere.

etum. [L. -ētum, also -tum, neut. of -ē-tu-s, -tu-s, orig. adj. and participial suffix: see -ed².]
A suffix added in Latin to names of trees and other plants, to designate a plantation, grove, or garden of the plant specified: as, pinetum, quercetum, arboretum, etc., a forest of pines, quercetum, arboretum, etc., a forest of pines, oaks, trees, etc.; roscum, a bed of roses; rinctum, a vineyard, etc. Hence, in modern scientific nomenclature and English use, the suffix is added to the genus or family name of a plant to form a collective expression for the living individuals of one or more species. Thus, it is used to denote: (a) An exhibitional collection in which many species are represented, as the pinetum, quercetum, etc., of a botanical garden; also attachable to a more general term, as in arboretum. (b) A treatise on a particular group of plants, as Gordon's Pinetum. (c) In phytogeog., a natural association in which one species or more than one of the same genus predominates, as ericetum, confletum, etc. See *characetum.

An abbreviation of Evangelical Union. E. U. euæsthesia, euesthesia (ū-es-thē'si-ā), n.
[NL. euæsthesia. ⟨ Gr. εὐ, well (εὐ-, good, true),
+ αἰσθησις, perception.] A normal state of the sense:

euangiotic (ū-an-ji-ot'ik), a. [Gr. εὐ, well, + ἀγγεῖον, vessel, + -otic.] Having the retinal disk provided with blood-vessels: opposed to *anangiotic.

Euascales (ū-as-kā'lēz), n. pl. [NL., < Gr. εὐ, well (εὐ-, good, true), + ἀσκός, a sae, aseus, + -ales.] A group including all the fungi and

Heres.] A group mending an the tungrand liebens which produce true asci.

Euasceæ (ῦ-as -̄e-̄e), n. pl. [NL., < Gr. εὐ, well (εὐ·, good, true), + ἀσκός, a sae, aseus, + -eæ.]

Same as *Euascales.

Euasteriæ (ῦ-as-tē'ri-ē), n. pl. [NL., < Gr. εὐ, well. + ἀστήρ, a star.] A subclass of the Asteroidea or starfishes, characterized by having the pairs of ambulaeral ossieles placed opposite each other and inclined upward like the rafters of a roof. The position of the madreporite is generally on the dorsal surface. H₃CH <. Bubacteria (ū-bak-tē'ri-ā), n. pl. [NL., < Gr. εὐ, e chlorid, e chlorinaic. m'in), n. Migula, four families, the Coccaceæ, Bacteriaceæ, Spirillaceæ, and Chlamydobacteriaceæ.

Noting

marreporne is generally on the dorsal surfaee. Fubacteria (ū-bak-tē'ri-ā), n. pl. (Gr. εὐ, e chlorinaic. m'in), n. marreporne is generally on the dorsal surfaee. Fubacteria (i-bak-tē'ri-ā), n. pl. (Gr. εὐ, e chloridaic. m'in), n. pl. Same as π Eubacidii.

true basidia. Compare ★Hemibasidii.

Bubœic (ū-bē'ik), a. Same as Eubœan.
eucaine (ū'kä-in), n. [Gr. εὐ, well, + (co)-caine.] A colorless crystalline compound, $\frac{C(CH_3)_2CH_2}{C(CH_3)_2CH_2}$ > C $< \frac{COOC_6H_5}{COOCH_3}$, pre-CH₃N ≺

pared from acetonamine. It is used by oculists as an anesthetic in place of cocaine. Also called methyl-tetramethyl-n-methyl-p-henzoulpiperidine-y-carboxylate.

eucalypsinthe (ū-ka-lip'sinth), n. [Eucalyp-(tus) + (ab)sinthe.] A liquor distilled from the leaves of Eucalyptus Globulus: analogous to absinthe.

eucalyptene (ū-ka-lip'tēn), n. [Eucalyptus + -ene.] A colorless dextrorotatory terpene, C10H16, found in the essential oil of Eucalyptus

Globulus and of E. amygdalina. It is a dextro-

Bucharidæ (ū-kar'i-dē), n. pl. [NL., < Eu-eharis + idæ.] A family of lobate etenophorans, having large lobes with complex lobular eanals, body covered with elongate touch-papillæ, and a main tentacular filament present as well as accessory filaments. The typical genus is Eucharis.

eucharistial (ū-kā-ris'ti-al), n. [ML. eucharistialis, prop. neut. of eucharistialis, adj., < LL. cucharistia, eucharist.] A vessel in which the eucharist is reserved.

eucharistize (ū-kā-ris'tīz), v. t.; pret. and pp. eucharistized, ppr. eucharistizing. + -ize.] To bless; eonseerate. [eucharist

Placing the bread and wine upon the Lord's Table . . . sa a devont offering to God of His creatures of bread and wine that He may accept them at our hauds . . . to be by Him eucharistized to the higher sphere and purpose of the

Bk. Com. Prayer (1661), quoted in J. H. Blunt, Annot. [Bk. Com. Prayer, p. 174.

Euchlæna (ū-klē'nä), n. [NL. (Schrader, 1832), in allusion to the situation of the seeds; < Gr. $\varepsilon \dot{v}$, well, $+ \chi \lambda a i v a$, eloak, eovering.] A genns of grasses, consisting of a single species, E. Mexicana, the teosinte (which see).

In Guatemala the euchlaena, nearly akin to maize, was called the maize of the gods.

F. Ratzel (trans.), Hist. of Mankind, II. 176.

euchlorhydria (ū-klōr-hī'dri-ā), n. [NL., < Gr. &, well, + E. chlor(in) + hydr(ogen).]
The presence of a normal amount of hydro-

Gr. vi, well, + E. chlor(in) + hydr(ogen).]
The presence of a normal amount of hydroelehlorie acid in the gastrie juiee.
euchre, n.—Call-ace euchre, a variety of euchre for from four to six players, each playing for himself. The pack varies according to the number of players: all cards below the 9-spot are omitted for four; the 8's are put in for five; and the 7's for six. Sometimes the joker is added. A trump is turned up by the desler, and each player in turn can order up or pass. If it is turned down, each player in turn can name a new suit. The maker of the trump, whether he has ordered it up or taken it up, then has the privilege of calling upon the holder of the best card of any suit which is not trumps to be his partner, but the partner thus called npon must not disclose himself. When the hand is played the partner will be revealed. If they win all 5 tricks they score 2 if four play and 3 if five or six play. If the maker of the trump plays alone, either through not having called any suit or by discovering that he holds the best card in play of the called suit, he scores 1 for winning 3 or 4 tricks. If he wins all the tricks he scores as many points as there are players including himself. All euchres count 2 points to the adversaries of the maker of the trump and his partner.—Domino euchre, a game resembling enchre, played with dominoes instead of cards.—Drive euchre. Same as progressive euchre. See progressive **names.—Railroad enchre, a variety of euchre in which if any player says he will play alone, one of his adversaries can play alone against him, and either or both of the lone players can ask for his partner's best card, giving one from his own hand in exchange for it. If a lone hand euchres a lone hand it counts 4.—Set-back euchre, a variety of euchre in which the partners are set back 2 points if they are euchre disstead of allowing their adversaries to score 2. The revoke penalty is settled in the same way.—Seven-handed euchre, a variety of euchre in which seven persons play with a full pack of

euchroic ($\bar{\mathbf{u}}$ -krō' $\bar{\mathbf{i}}$ k), a. [Gr. $\epsilon \bar{\mathbf{i}}$, well, + $\chi \rho o a$, eolor.] Noting an acid, a colorless compound, (HOCO) $_2$ C₆ ($_{\text{CO}}^{\text{CO}}$) NH) $_2$.2H $_2$ O, prepared, to-

gether with paramide, by heating ammonium mellitate. It erystallizes in quadratic prisms which melt and decompose above 250° C.

euchylia (ū-kil'i-ä), n. [NL., \langle Gr. εv , well, $+ \chi v \hat{\rho} \delta c$, juice (see *chyle*).] . A healthy state of the chyle.

Eucinostomus (ū-si-nos'tō-mus), n. [NL. Gr. ευκίν (ητος), easily moved, + στόμα, mouth.] A genus of small silvery fishes of the tropics, of the family of Gerridæ, distinguished by the very large size of the interhemal bone at the base of the second anal spine. E. gula is

the base of the second anal spine. E. gula is the commonest species.

Euciroa (ū-si-rō'ā), n. [NL., said to be (irreg.)

Gr. εĕ, well, + κειρία, a cord, a bandage.]

The typical genus of the Euciroidæ.

Euciroidæ (ū-si-rō'i-dō), n. pl. [NL.,

Euciroa + -idæ.] A family of anomalodesmaceous pelecypod Mollusca. Theypossess subcurivalve shells with a strong tubercle in the right valve before the resilium, and the dorsal margins are modified so as to overlie and underlie each other. Species are rare and occur only in the Tertiary and recent periods.

Euclea n. 2. In hot. a genus of plants of the

and ocenr only in the Tertiary and recent periods. **Euclea**, n. 2. In bot., a genus of plants of the family Diospyraceæ. They are trees or shrubs with evergreen, coriaceons leaves, alternate, opposite, or rarely in wherls of three, and small flowers in usually axillary cymes. There are about 25 species, natives of tropical and southern Africa, and Arabia, of which E. racemosa is the type. Several species are used in wood-working, especially E. Pseudebenus, the Orange Rieer ebonu. The fruit of this species is eaten by the aborigines, under the name embolo, and that of E. undulata under the name guarri.

Euclidean number, motion, transformation.

Euclid's postulate. See *postulate.
eucnemia (ūk-nē/mi-ā), n. [NL., ζ Gr. εὐ, well,
+ κνήμη, tibia.] In anthrop., the normal condition of the shin-bone; the absence of platyenemia. Amer. Anthropologist, Jan.-March, 1901, p. 32.

eucone (ñ'kōn), a. [Gr. εὐ, well, + κῶνος, eone.] Possessing a well-developed crystal-line lens or cone: said of the eyes of certain insects, as the Hymenoptera and Lepidoptera, many Coleoptera, Neuroptera, etc.: opposed to *aeone and *pseudocone.

eucrasite (ū'kra-sit), n. [Gr. εὐκρασια, proper mixture (< εὐκρατος, well mixed), + -ίte².] A complex thorium silicate allied to thorite.

Encratea (ū-kra-tē'ā), n. [NL., said to be < Gr. εί, well, + κρατωός, mighty (< κρατος, might), (otherwise perhaps < Gr. είκρατος, temperate, of similar elements) J. The typical and only genus of the family Eucrateidæ. Lamouroux, 1812.

Bucrateidæ (û-kra-te'i-dē), n pl. [NL., < Eucratea + -idæ.] A family of chilestomatous bryozoans. They are characterized by branching, erect, and free or recombent zoaria with pyriform, uniserial or biserial zoccla having a subterminal, usually oblique aperture. The family has lived from Cretaceons time to the present.

Eucrustacea (ñ-krus-tā'shiā), n. pl. [NL., Gr. ɛɛ̄, well, + L. Crustacea.] A division or snbelass of the erustaceans which do not have the body divided into median and lateral lobes, and have two pairs of antennæ and the maxillæ or mandibles not pediform.

Eucryphia (ψ-krif'i-ä), n. [NL. (Cavanilles, 1797), Gr. εν, well, + κριφιος, hidden. The opening flower is capped by the calyptriform ealyx ing flower is capped by the callyptriform ealyx and the fruiting carpels are backed with a cork-like covering.] A genus of dicotyle-donous plants, the type and only genus of the family Eucryphiaeeæ. The species are ornamental evergreen trees or shrubs with opposite simple or pinnate teaves and large white flowers, solitary in the upper axis. only 4 species are known, 2 in Chile and 2 in New Sonth Wales and Tasmania. The wood of the Chilean species is very durable and is used for various purposes. See muerno.

Eucryphiaceæ (ū'krif-i-ā'sē-ē), n. pl. [NL. (Gay, 1846), < Eucryphia + -aceæ.] A family of dicotyledonous choripetalous plants of the order Hypericales, containing the single genus Eucryphia. See muermo and *Eucryphia.

eucryphiaceous (ū-krif-i-ā'shius), a. Belong-

ing to the plant-family Eucryphiaceæ. **Eucyclogobius** (ψ̄-sik-lψ̄-gō'bi-ns), n. [NL., ζ Gr. εὐ, well, + κύκλος, eircle, + NL. gobius.]

A genus of small gobies having small smooth seales: found in the streams of California. E. newberryi is the common species.

eudemonic, eudæmonic (ū-dē-mon'ik), a. [Gr. εὐδαιμονικός, of happiness. < εὐδαιμονία. happiness: see *eudemony.] Relating or contributing to happiness; considered as relating or con-tributing to happiness. N. E. D.

eudemonize, eudæmonize (n-de'mon-īz), v. t.;

pret. and pp. cude-, cudæmonized, ppr. cude-, cudæmonizing. [Gr. εὐδαίμονίζειν, call or account happy, < εὐδαίμων, happy: see cudemon.] To consider or esteem happy. Also endamonise.

But happiness, as Aristotle understands it, is something measured more by the estimate of the judicious spectator than by the sentiment of the man in whose bosom it resides. No person is entitled to be called happy, whom the intelligent and reflective observer does not macarise or (eudæmoniæ), or whose condition he would not desire more or less to make his own.

Grote, Fragments on Ethical Subjects, V.

eudemony (n-dem'o-ni), n. [Gr. εὐδαιμονία, ζ

εὐδαίμων, happy: see eudemon.] Happiness as understood by Aristotle, namely, as consisting, not in pleasure except as a sign of perfeeted activity, but in the activity which befits a human being, that is, in virtuous activity, of which the highest and best kind is that which is self-controlled through reason, the virtuous activity of the soul in a completed

eudermol (û-dér'mól), n. [Gr. εὖ, well, + δερμα, skin, + -οl.] A trade-name for nicotine salicylate. It is a colorless crystalline compound which is soluble in water, alcohol, and oils, and contains 54 per cent. of nicotine. Being non-irritating and odorless, it can be used in ointment of from 0.1 to 0.25 per cent. strength in the treatment of parasitic skin-diseases.

eudiagnostic (ū-dī-ag-nos'tik), α, [Gr. εὐ, διαγνωστικός, able to distinguish: see diagnostic.] In petrog., easily distinguished, that is, without the aid of a magnifying-glass: applied by Zirkel (1893) to the texture of rocks m which the mineral constituents can be recognized by the unaided eye.

eudidymite (ū-did'i-mit), n. [Gr. εὐ, well, + δίθυμος, twin, + -ite².] A silicate of beryllium and sodium, HNaBeSi₃O₈, occurring in white

tabular monoelinie erystals.

eudiometer, n.—Bunsen's endiometer, a glass tube of uniform bore, closed at one end and having at that end two platinum electrodes, with spark-gap, sealed into the glass. The tube is graduated in millimeters.

nectocalyx. Compare *ersæiform.

eudoxin (ῦ-dok'sin), n. [Appar, ζ Gr. εὐδοξος, of good repute, + -in².] A bismuth salt of nosophen (tetra-iodo-phenolphthalein) containing 52.9 per cent. of iodine. It is an inter-

nal astringent and stomachie.

eudoxome (ŭ-dok'sōm), n. [Gr. εὐδοξος, of good repute, + -ome.] In hydromedusans, one of the two main forms of cormidium, consisting typically of a bydrophyllium, a gastrozoöid with a tentacle, and one or more medusoid gonophores. Compare *ersæome.

Eudrilidæ (û-dril'i-dê), n. pl. [NL., < Eudri-lus + -idæ.] A family of terricolous Oligo-ehæta It consists of worms of variable size having paired nephridus, sette in couples and sigmoid in shape, spermidneal glands present, and the male and female generative openings, in some genera, unpaired. It contains about 20 genera, all of which except Eudrilus, which is almost cosmopolitan in range, are restricted to tropical

Eudrilus (û-drî'lus), n. [NL. (Perrier, 1871).]
The typical genus of the family Eudrilidæ.
euectics (û-ek'tiks), n. Same as evectics,
eufemism, eufemistic. Simplified spellings

of euphemism, euphemistic.

eufonic, eufony. Simplified spellings of euphonic, euphoni

eugallol (ū-gal'ōl), n. [en-+ (pyro)gallol.] A thick, syrupy, brownish-yellow compound, C₆H₃(OH)₂O.C₂H₃O, readily soluble in water; acetyl pyrogallol. It is employed in a 33-per-cent, acetone solution, and when painted on the skin leaves a firm, clastic film: used in the treatment of skin-diseases.

Eugaster ($\hat{\eta}$ -gas'ter), n. [NL., $\langle Gr. \epsilon \hat{v}, \text{well},$ + γαστήρ, belly.] A genus of ophiurans or brittle-stars from the North American Devonian, possessing a small disk and long arms with a double series of alternating ambulacral plates, and on either side a series of spinous adambulacral plates.

Eugeniacrinus (n-jē-ni-ak'ri-nus), n. Eugenia, a woman's name, + Gr. κρίνον, lily (see erinoid).] A Mesozoie genns of erinoids possessing a small saucer-shaped ealyx and concealed and closely united basal plates which are overlapped by radial plates extended upward so as to form conspicuous

eugenism (ñ'je-nizm), n. [Gr. εὐγενής, wellborn, + -ism.] The aggregate of the most favorable conditions for healthy and happy existence. Galton.

eugenoform (ū-jen'ō-fôrm), n. [eugen(ol) + form(aldehyde).] A colorless, crystalline compound soluble in water obtained by the action eukinesia (ū-ki-nē'si-ā), n. [NL., ζ Gr. εὐκιof formaldehyde npon eugenol-sodinm, said νησία, easiness of motion, ζ εὐκίνητος, easily

to liberate formaldehyde in the intestinal fluids:

an intestinal antiseptic. eugenol ($\ddot{\mathbf{u}}'$ jē-nōl), \dot{u} . [Gr. $\dot{\imath}\dot{\eta}\gamma\dot{\imath}\dot{\eta}\zeta$, well-born, + -ol.] A colorless oily compound, HOC6H3 (0³CH₃)CH₂CH:CH₂, contained in oil of cloves, oil of bay, oil of cinnamon-leaves, oil of allspice, oil of eassia, oil of pimento, and in certain other essential oils. It beils at 247.5° C. and has a spicy odor. Also called 12-propenylphendiol-3-methyl ether.

eugenol-acetamide (ū"jē-nōl-a-set'a-mid), n. A crystalline compound of eugenol and acetamide. It is used as a local antiseptic and

dusting-powder.

eugenol-iodide ($\bar{\mathbf{u}}''$ jē-nol-i'ō-dīd), u. A yellow-ish odorless antiseptie compound, $\mathbf{C}_{10}\mathbf{H}_{11}\mathbf{IO}_2$, obtained by the action of iodine on engenolsodium. Also called indo-eugenol.

eugenol-sodium (u*jē.nôl-sō'di-nm), n. A erystalline compound, C₁₀H₁₁NaO₂, obtained by dissolving eugenol in solution of sodium hydroxid. Also known as sodium eugenolate or sodium engenate.

eugeogenous (ū-jē-oj'e-nus), a. [Gr. εὐ, well, + γη, earth, + -γενης, -producing. See geogenous.] In geol., disintegrating readily; yielding plentiful detritus and producing good soil: said of rocks. Thurmann.

two platinum electrodes, with spark-gap, sealed into the glass. The tube is graduated in millimeters.

eudiometrically (ū/di-ō-met'ri-kal-i), adr. By means of the eudiometer; in a eudiometric method.

eudoxiform (ū-dok'si-fôrm), a. [Eudoxia + l. forma, form.] Resembling or having the structure of the Eudoxidæ; eomposed of a sterle and a fertile medusoid without special nectocalyx. Compare *crsaiform.

eudoxin (ū-dok'sin), n. [Appar. < Gr. εὐδοξος.

eudoxin (ū-dok'sin), n. [Appar. < Gr. εὐδοξος.]

sand of roeks. Thurmann.

Both authors apply to Yorkshire Thurmann's recognition of cugeogenous and dysogregenous rocks. The former class of rocks yield a plentiful detritus, and the overlying soils are cool and moist. The dysogregenous rocks row line of the surface and proceed and moist. The dysogregenous rocks row line of the surface and dysogregenous rocks. The former class of rocks yield a plentiful detritus, and the overlying soil are cool and moist. The dysogregenous rocks row line of the surface and dysogregenous rocks. The former class of rocks yield a plentiful detritus, and the overlying soil are cool and moist. The dysogregenous rocks row line of the surface and proceed and moist. The dysogregenous rocks row line of the surface and proceed and moist. The dysogregenous rocks row line of the surface and dysogregenous rocks. The former class of rocks yield a plentiful detritus, and the overlying soil are cool and moist. The dysogregenous rocks row line of rocks. The former class of rocks yield a plentiful detritus, and the overlying soil are cool and moist. The dysogregenous rocks row line of rocks. The form of the surface and proceed and send and rocks and are in Yorkshire much fissured and broken, so that the overlying soil are cool and moist. The dysogregenous rocks rocks rocks yield a plentiful detritus, and the overlying soil are cool and moist. The dysogregenous rocks row line of rocks yield a plentiful detritus, and the overlying soil are rocks and are in Yorkshire much fissured and broken, so that the

fore and hind wings, prolonged lancet-like menth-parts, and filiform antennæ. It occurs in the Permian formation.

eugetic (\(\bar{u}\)-jet'ik), a. \([eug(enol) + -et + -ie.] \)
Noting an acid, a colorless compound,

HOC₆H(OCH₃)(CO₂H)CH₂CH:CH₂, formed by the action of sodium and carbon dioxid on engenol. It erystallizes in long, thin prisms and melts at 124° C. Also called 3-allylphendiol-(5.6)-methyllie acid.

(5,0)-metagute acta.

Euglena phase, a stage in the development of some sporozons in which they exhibit euglenoid movements made possible by the thin, flexible covering present at this time.

euglenoid (ü-glē'noid), a. [Euglena + -oid.] Resembling Euglena.

euglobulin (ñ-glob'ū-lin), n. [eu- + globulin.] One of the supposed components of serum globulin which is insoluble in water. See also **pseudoglobulin*.

also *pseudoglobutin.

Euglypha (ñ-gli'fa), n. The typical genus of the family Euglyphidæ. Dujardin, 1841.

Euglyphidæ (ū-glif'i-dē), n. pl. [Euglypha + -idæ.] A family of mostly fresh-water rhizopods which have a shell formed of regular plates of chitin or of silica, often bearing spines, and with the recordence is shown. spines, and with the pseudopedia sharp-pointed and often branching but not anastomosing. It contains the genera Englupha. Trinema, Cyphoderia, Campascus, and Nadinella.

eugranitic (ū-gra-nit'ik), a. [Gr. εψ, well, +
Ε. granitic.] In petrog., distinctly granular

E. granitie.] In petrog., distinctly granular or granitie in structure. Lossen.

 eugraphic (ῦ-graf'ik), a. [Gr. ευγραφος, well painted, < εὐ, well, + γράφειν, write, paint.]
 Pertaining to or characterized by graphic resemblance.

Eugraphic confusions are such as arise from the mistaking and transplacing of forms which appear alike.

II. II. Bawden, in Psychol. Rev. Men. Sup., 111. iv. 81.

euhyostylic (n-hī-ō-stil'ik), a. [eu- + hyo-styl-y + -ie.] Relating to or having the character of euhyostyly.

euhyostyly (n-hī-os'ti-li), n. [eu- + hyostyly.]

That condition of the second visceral arch. found in most rays, in which the hyomandibular forms the sole support of the jaw, the eratchyal serving merely to support the galls, the eratchyal serving merely to support the galls, eeratchyal serving merely to support the galls, with the means of cultivating and improving the innate good qualities of man. Also cugenies.

Gr. ev, well, + Ichthyd(ium) + -ina².] A seetion or suborder of Gastrotricha which constitutions.

tains forms having two pedal appendages. It includes the genera Ichthydium, Chætonotus, Chætura and Lepidoderma. Compare *Apodinu.

euisopodous (ū-ī-sop'ō-dus), a. Having the characters of or resembling the Euisopoda.

power of movement.

eukrite, n. Same as eucrite.

euktolite (ūk'tō-līt), n. [Gr. εὐκτός, desired, +

riθoc, stone.] See *venanzite.

Eulamellibranchiata (ü-lä-mel-i-brang-ki-ă'tă), n. pl. [NL., \(eu- + Lamellibranchiata.] An order of mollusks of the class Pelevypoda. An order of moliness of the class receiptons, the branchize with vascular interfilamentary junctions, the genital glanda with independent external openings, and usually two adductor muscles. It includes a number of large and important families, among them being the Unionidæ, Cyprinidæ, and Cyrenidæ.

Euleptorhamphus (ū-lep-tō-ram'fus), n. [NL., buteptornamphus (unep-to-rain tus), π . [ML, ζ Gr. $\varepsilon \dot{v}$, well, $+\lambda \varepsilon \pi \tau \delta c$, fine, small, $+\rho \dot{a}\mu \phi o c$, beak.] A genus of halfbeaks, or Hemiram-phidx, found in the open seas of the tropics: distinguished by the ribbon-shaped body. E.

distinguished by the ribbon-snaped body. L. longirostris is the common species. Eulerian polyhedron. See *polyhedron. Euler's diagrams. See *diagram. Euler's line or straight. See *straight1. Euloma (ū-lō'mā), u. [Gr. εt, well. + λωμα, a fringe.] A genus of trilebites of the family Proetidæ: characteristic of the lowest Siluriau of Europe.

eumenid (ü'me-nid), a. and n. I. a. Of or belonging to the hymenopterous family Eu-

II. n. A member of the hymenopterous family Eumenidæ.

Sumicrotremus (ū-mik-rot'rē-mus), n. [NL., \langle Gr. εv , well, $+ \mu \kappa \rho \delta c$, small, $+ \tau \rho \bar{\eta} \mu a$, hole.] A genus of lump-fishes having the body nearly Eumicrotremus (ū-mik-rot'rē-mus), n. spherical and covered with prickles: found in

the North Atlantic.

eumitosis (ū-mi-te'sis), n. [NL., $\langle eu-+mi-tosis.$] Typical mitosis or indirect cell-divitosis.] Typical mitosis or indirect cell-divi-sion, in which the chromosemes are divided longitudinally instead of transversely.

eumitotic (ū-mi-tet'ik), a. [eumitosis (-ot-) + -ic.] Of or pertaining to eumitesis.

Eumycetes (ū-mī-sē'tēz), n. pl. [NL., < Gr. &, well, $+ \mu \dot{\nu} \kappa \eta \tau \epsilon c$, plural of $\dot{\mu} \dot{\nu} \kappa \eta c$, fungus (see Mycetes).] A name used by recent systema-Mycetes).] tists to include all the se-called true fungi, as the Phycomycetes, Ascomycetes, and Basidio-mycetes. The Myxomycetes and Schizophyta are excluded.

eumycetic (ū-mì-set'ik), a. Of or pertaining

to the Eumycetes.

Eunema (ŭ-nē'mā), n. [NL., ζ Gr. εὐ, well, + νῆμα, a thread.] A genus of Paleozoic rhipideglessal gastroped mellusks having an elongate pyramidal spire with two or more keels and transverse striæ on the wherls.

eunicean (ū-nis'ē-an), a. [Eunice + -an.] Pertaining to or resembling the genus Eunice. euniciform (ū-nis'i-fôrm), a. [Eunice + L. forma, form.] Formed like a eunicid worm.

eunicoid (ũ'ni-koid), a. [Eunice + -oid.] Resembling or pertaining to the Eunicidæ.

eunol ($\tilde{\mathbf{u}}'$ nol), n. [cu(calyptol) + n(aphth)ol.] A compound, existing in an a- and β -modification, made from enealyptel and a- and β -naphthol: used as an antiseptie in surgery and

dermatology.

eunuch-flute (u'nuk-flöt), n. An old musical instrument consisting of a slightly flaring wooden tube having a month-hole in the side near the smaller end, into which the player hummed or sang. The smaller end was closed by a very thin membrane, which was thrown into vibration by the player's tone and imparted to it a peculiar bleating and tremulous character. The instrument was made in several sizes so as to provide for part-music. It is still sometimes made as a toy.

Euomphalidæ (ü-om-fal'i-dē), n. pl. [NL.. < Euomphalus, the typical genus, + -idæ.] A family of rhipidoglessal gastropods having depressed conical or discoidal. spirally coiled, and umbilicated shells, and often calcareous operenta. As at present construed, the family extends from the Cambrian to the Tertiary fermations.

euonymous (ū-on' i-mus), a. [Gr. εὐωνυμος, well-named, ζεὐ, well, + ὁνομα, name.] Well or fittingly named.

euonymus-oil (ū-on'i-mus-oil), n. Oil ex-tracted from the seeds of the spindle-tree, Euonymus Europæus, of eentral Europe.

Euorthoptera (ü-ôr-thep'te-rā), n. pt. [NL., $\langle Gr. \dot{v}i, \text{well}, + \dot{o}\rho\theta\delta c, \text{straight}, + \pi\tau\epsilon\rho\delta v, \text{wing.}]$ The Dermaptera, er earwigs, considered as a suborder of Orthoptera.

euosmite (ū-os'mīt), n. [Gr. $\epsilon i o \sigma \mu o c$, sweetsmelling, $\langle \epsilon i v', \text{well}, + i \sigma \mu n', i \delta \mu n', \text{smell}, \text{odor}$ (see o s m i u m), $+ -i t e^2$.] A fessil resin, of a

Baiershof in the Fichtelgebirgo, Germany. eupepticity ($\bar{\mathbf{u}}$ -pep-tis'i-ti), n. Good digestion,

or the state of feeling resulting from it. Car-

euphemist ($\bar{u}'f\bar{e}\text{-mist}$), n. [euphem(y) + -ist.]

One given to the use of euphemisms. euphonicon (ū-fon'i-kon), n. [NL: see euphonic.] A variety of harmonichord.

euphonon (ū-fō'non), n. [NL., ζ Gr. εὐφωνος, well-sounding: see euphony.] A variety of harmoniehord.

euphorbic (ū-fôr'bik), a. [Euphorbia + -ic.] Derived from Euphorbia.—Euphorbic acid, an amorphous acid contained in the gum-resin euphorbium from Euphorbia resinifera.

euphorbine (ū-fôr'bin), n. [Euphorbia + -inc2.] A non-volatile poisenous compound, said to be present in the milky juice of Euphorbia myrtifolia.

euphorbone (ū-fôr'bōn), n. [Euphorbia + -one.] A colorless, neutral dextrorotatory, crystalline compound, $C_{15}H_{24}O$, contained in the gumresin enpherbium from Euphorbia resinifera. It melts at 116° C.

euphorin (ū'for-in), n. [Gr. $\epsilon \nu \phi \rho \rho \rho \varsigma$, easy to bear or bearing well, $\langle \epsilon \nu$, well, $+ \varphi \epsilon \rho \epsilon \nu \iota \nu$, bear.] A trade-name of phenyl nrethane, recommended for medical use as an antipyretic and analgesie.

euphorious (ῦ-fō'ri-us), a. [Erroneously for *euphorous, ⟨ Gr. εἰφορος, bearing well, enduring easily or patiently, ⟨ εὐ, well, + φέρεω, bear.] Cheerful or patient in lifé.

The conviction is home in upon the soul . . . that man is a favored . . . being, . . . that real evil can not befall the good man, living or dead; and that he can afford to be glad and euphorious that he is alive.

G. S. Hall, Adolescence, II. 547.

eupittone (ñ-pit'ōn), n. [Gr. $\epsilon \dot{v}$, well, $+\pi i \tau \tau a$. pitch, + -one.] Same as cupittonic acid. See *eupittonic.

eupittonic (ū-pi-ton'ik), a. [eupittone + -ie.] Noting an acid, an orange-yellow compound, $(CH_3O)_6C_{19}H_8O_3$, formed by the exidation of wood-tar oil centaining pyrogallol and methyl pyrogallol ethers. It erystallizes in long hairlike needles, melts at 200° C., and is dibasic. Also ealled pittacal.

eupnœic (up-ne'ik), a. [eupnæa + -ic.] Relating to or characterized by eupnæa; breathing

normally.

Eupomotis (ū-pē-mō'tis), n. [NL., $\langle \text{Gr. } \epsilon \dot{v}$ -, well, $+ \pi \ddot{\omega} \mu a$, lid, $+ o\dot{v} \zeta$ ($\dot{\omega} \tau$ -), ear.] A genus of sunfishes (Centrarchidæ) distinguished by the blunt pharyngeal teeth. E. gibbosus, the commonest of the sunfishes, is abundant threughout the northeastern United States.

eupraxy (ũ'prak-si), n. [Gr. εὐπραξία, welldeing, \langle εὐ, well, + πράσσειν, do: see practic, practice, praxis.] Well-doing; right eenduct; morality in behavior.

Eupterotidæ (ūp-te-rot'i-dē), n. pl. [NL., Eupterotidæ (ūp-te-rot'i-dē), n. pl. [NL., Eupterota + -idæ.] A family of moths allied to the Lasiocampidæ, but differing from them in possessing a fremulum. The European processionary moth, Cnethocampa processionea, is a striking example. The family is widely distributed, and the larvæ of many are ercentions.

Eupuccinia (ū-puk-sin'i-ā), n. pl. [NL., \lambda Gr. ev-, true, + Puccinia.] Ä group of species of Puccinia which produce spermogonia, æcidia, uredospores, and teleutospores, the last germinating only after a resting period. The group is subdivided into the Auteupuccinia and the

Hetereupuccinia. Schræter. eupyrene (ū'pī-rēn), a. [Gr. $\varepsilon \tilde{v}$, well, $+ \pi v \rho \hat{\eta} v$, stone of a fruit (nucleus).] Containing a welldeveloped nuclear portion: applied to the nor-

paraphenetidin and vanilla. It is antipyretie.

euquinine (ū-kwin'ēn), n. [cu- + quinine.]
The pharmaceutical name for ethyl quinineearbexylate, C₂₀H₂₃O₂N₂COOC₂H₅, prepared
from quinine ethyl chlorearbonate. It is tasteless, but otherwise resembles quinine in ehemical and medicinal properties.

An abbreviation of Europe or of European. Eurafric (ū-raf'rik), a. Same as *Eurafrican. That Eurafric region which has been the birthplace of any nations. Smithsonian Rep., 1899, p. 480.

Eurafrica (ū-raf'ri-kā), n. [Eur(ope) + Africa.] Europe and Äfrica considered as one continent or ethnic area.

moved. (ετ, easily, + κινεῖν, move.] Normal brownish-yellow color, found with lignite at Eurafrican (ũ-raf'ri-kan), α and n. I. α. Of, Baiershof in the Fiehtelgebirgo, Germany.

Baiershof in the Fiehtelgebirgo, Germany. both Europe and Africa: as, a former Euraf-rican continent; a Eurafrican race.

An individual belonging to the Eurafrican division of mankind, which, according te certain writers, includes the peoples of southern Europe and northern Africa.

Euramphæa (u-ram-fé'ä). n. [NL., \langle Gr. e^i , well, + $\dot{p}\dot{a}\mu\phi o_{\zeta}$, beak.] The typical genus of the family Euramphæidæ. Gegenbaur, 1856.

at the aboral pole in which the subtentacular eostæ and meridional vessels are produced. The typical genus is Euramphæa.

Euraryan (ū-rār'yan), a. and n. [Eur(ope) + Aryan.] I. a. Relating to the Europeau Aryan.

II. n. A European Aryan.

euresol ($\bar{\mathbf{u}}'$ r $\bar{\mathbf{e}}$ -s $\bar{\mathbf{o}}$ l), n. [eu- + res(orein) + -ol.] A viseid yellow mass, resorcin monoacetate. It is used as a substitute for resorein in skindiseases.

eurhodine ($\bar{\mathbf{u}}'$ rō-din), n. [Gr. $\epsilon \bar{\mathbf{t}}$, well, $+\dot{\rho} \delta \delta \sigma \mathbf{v}$, rose, $+-i n e^2$.] The name of a class of organic

rose, +-ane-of a class of organic compounds containing the complex N.C.CH $R_2NC_6H_3 < \parallel CH.$ They are prepared from amino-orthodiamines and quinones. They are feeble bases with a yellowish-green fluorescence. The salts are scarlet and have no technical amplication. application.

eurhodol (ū'rō-dōl), n. [eurhod(ine) + -ol.]
The name of a class of organic compounds con-

taining the complex HOC₆H₃ < | | | N.C.C₆H₄ CH,

formed by the action of hydrochloric acid on the eurhodines, which they resemble in color and fluoreseence.

eurhythmic (ū-rith'mik), a. [eurhythm-y, eurythmy + -ic.] Harmonious: said especially of architecture in which the proportion is agreeable.

eurhythmy. See curythmy. euristic (ū-ris'tik), a. Same as heuristic. eurobin (ū'rō-bin), n. [eu-+(ara)roba+-in².] Chrysarobin triacetate. It is insoluble in water, and is used as a substitute for chrysarobin.

Europasian subregion, in zoogeog., a division of the Holarctic region comprising Europe north of the Alpa and Asia north of the Himalayas. It is roughly the same as the Enrasiatic region of Hellprin and the Palearctic region of other writers.

European, a.—The European concert. See \star concert. europhen (ū'rō-fen), n. A trade-name of di-isobutyl orthogresol iodide, recommended for medical use as an antiseptic and a substitute for jedoform.

europium (ū-rō'pi-um), n. [NL., \langle L. Europa, Europe.] A supposed new element announced by Demarçay in 1901, obtained in very small quantity as oxid, sulphate, etc., frem samarskite and monazite. Its compounds have been further examined by Urbain and Lacombe. It is characterized by a special spark-spectrum, and also by a phosphorescent spectrum, and appears to be intermediate between samarium and gadolinium, with an atomic weight of about 151.79.

eurybathic (ū-ri-bath'ik), a. [Gr. εὐρύς, wide, + βάθος, depth.] Having a wide or great range as to depth; able to live in both deep and shallow water. Encyc. Brit., XXXIII. 936. eurybenthic (ū-ri-ben'thik), a. [Gr. εὐρίς, wide, + βένθος, depth (see *benthos), + -ic.] Enduring great differences of depth; found at different depths in the ocean.

saddles. In the earlier or Paleozoic forms the shells are for the most part laterally compressed, but they become rotund or coronate in later phases, and the simpler form of the suture is lost by subdivision.

eurycephalic, a. 2. Having a broad but do-licheeephalic skull; belonging to a subdivision of the oöidocephalic erania as elassified by

Aitken Meigs. eurycephalous (ū"ri-sef'a-lus), a. Same as curycephalic.

eurygnathism (ū-rig'na-thizm), n. [eurygna-th(ous) + -ism.] The condition of being eurygnathous.

Combining this feature with eurygnathism, that is lateral projection of the cheek-bones, Geoffroy Saint-Hilaire found that the Caucasic face is oval with vertical jaws;

eurygnathous (ū-rig'na-thus), α. [Gr. εὐρύς, broad, $+ y v \delta \theta o \varepsilon$, jaw.] In anthrop., having wide eheek-bones and upper jaws, like the Mongoloid race. Geoffroy Saint-Hilaire. euryhaline (\bar{u} -ri'ha-lin), a. [Prop. *euryaline, $\langle Gr. \varepsilon i \varphi i \varepsilon \rangle$, wide, $+ \tilde{a} \lambda \varepsilon$, salt.] Having a wide range or capacity as to saltness; able to endure great changes in the salinity of vator.

great changes in the salinity of water.

Eurynotus (ū-ri-nō'tus), n. [NL., ⟨Gr. εὐρός broad, + νῶτος, back.] A genus of extinet ganoid fishes having a deeply fusiform trunk, large pectoral fins, and the dorsal fin extended to the tail. It occurs in the Carboniferous rocks of Great Britain and Europe.

euryon (ū'ri-on), n. [Gr. εὐρὶς, wide.] In craniom.. the points on the lateral faces of the skull at which the greatest width is found. Von

Török.

eurypauropodid (ū-ri-pâ-rop'ō-did), n. and a. I. n. A member of the myriapodous family Eurypauropodidæ.

a. Of or belonging to the myriapodous family Eurypauropodidæ.

euryprognathous (ū-ri-prog'nā-thus), a. ευρίς, wide, + πρό, before, + γνάθος, jaw.] In anthrop., having wide cheek-bones and upper jaws, combined with prognathism. Geoffroy Saint-Hilaire.

Craniological studies which had already been cultivated by Morton, and on which Geoffroy Saint-Hilaire based his four fundamental types: orthognathous, eurygnathous, prognathous, and euryprognathous. Keane, Ethnology, p. 166.

eurypterid (ū-rip'te-rid), n. and a. I. n. A merostome crustacean of the family Eurypte-

II. a. Having the characters of or pertain-

ing to Eurypterus or the Eurypteridæ. eurypteroid (ū-rip'te-roid), a. Having the characters of Eurypterus. A. S. Packard, Text-

characters of Eurypterus. A. S. Packard, Textbook of Entom., p. 6.

Eurypterus beds. Same as Bertie *dolomite.

eurythermal (ü-ri-ther'mal), a. [Gr. εὐρψς,

wide, + θέρμη, heat, + -all.] Capable of enduring great differences of temperature; found in localities which differ widely in temperature:

contrasted with *stenothermal.

contrasted with *stenoinermal.

Some members of the epiplankton are, however, extraordinarily eurythermal and eurybathic; for example, Calanus finmarchicus ranges from 76° N. to 52° S. (excepting perhaps for 10° each side of the equator), and is apparently indifferent to depth.

Encyc. Brit., XXXIII. 936.

eurythermic (ū-ri-ther'mik), a. Same as *eurythermal.

Two species proved to be purely epiplanktonic, both in the warm and cold areas, twelve were eurythermic and eurybatbic, ranging from the surface to 700 fathoms in both areas.

Nature, Nov. 5, 1903, p. 23.

euryzygous (ū-riz'i-gus), a. [Gr. εὐρίς, wide, + ζυγόν, yoke.] With wide zygomatic arches. Sergi.

Sergi.

Eusarcus (ῦ-sār'kus), n. [NL., ⟨ Gr. εἶσσρκος, flesh, | Arachnida and the Prototraencaua.

Eutuberaceæ (ῦ-tῦ-be-rᾶ'sṣ-ē), n. pl. [NL., ⟨ Gr. εἶ, well, + σάρξ(σαρκ-), flesh.] A Eutuberaceæ (ῦ-tῦ-be-rᾶ'sṣ-ē), n. pl. [NL., ⟨ Gr. εἶ, successionatous Crustacea. of the fameure + Tuberaceæ.] Same as Tuberaceæ. ilv Eurypteridæ. It is characterized by having the first six abdominal segments greatly expanded and those following abruptly contracted. It occurs in the upper Silurian rocks of western New York.

Fusiphonacea (ῦ-sī-fō-nā'sē-ā), n. pl. [NL., ⟨ Gr. ev, well, + σίφων, a pipe, + -acea.] A superfamily of anomalodesmaceous Pclecy-

superfamily of anomalodesmaceous receypoda. It is characterized by the formation of a calcareous tube which may include one or both of the valves and is usually furnished with a perforated anterior disk. The division includes only two genera, Clavagella and Aspergillum, both of them fossil and recent.

Eusiphonia (□-sī-fô-ni-s̄), n. pl. [NL., ⟨ Gr. Eusiphonia (□-sī-fô-ni-s̄), n. pl. [NL., ⟨ Gr. ermoving fluid or solid particles from a cavity, as the detritus from the bladder after lithotrity.

enterized by long siphons and the position of acterized by long siphons and the position of the lithedesma at the anterior end of the internal resilium.

eusitia (ū-si'sia), n. [NL., ⟨Gr. εὐ, well, + σῖτος, food.] A normal appetite for food.
eusplanchnia (ū-splangk'ni-ä), n. [NL., ⟨Gr. εὐ, well, + σπλάγχνα, bowels.] A normal state of the internal organs.

Eustachian fossa. See *fossa¹.
eustatic (ū-stat'ik), a. [Gr. εὐ, well, + στατός, ⟨ ἰστασθαι, stand.] Well established; not sub-

eustomachous (ū-stom'a-kus), a. Same as enpeptic. Syd. Soc. Lex.

the Mongolic broad (eurygnathous); the Negro prognathous, the Hottentot both pro- and eurygnathous.

Keane, Ethnology, p. 181.

Keane, Ethnology, p. 181.

Reane, Ethnology, p. 181.

Goνχος, a local Egyptian name of the croco- of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

Goνχος, a local Egyptian of the report of arens.

**Goνχος, tiles, a division or order of the Crocodilia characterized by the unpaired and terminal nostril, which is internally prolonged and floored by a secondary palate. This group includes the modern erocodiles and the later fossil forms. eutaxic (ū-tak'sik), a. [Gr. εὐ, well, + τάξις, order.] Same as *quincubital. P. C. Mitchell, 1890

All Baltic marine animals can live in water of varying saltness, and are therefore said to be euryhaline.

Voyage of H. M. S. Challenger, xxix.

Eurynotus (ū-ri-nō'tus), n. [NL., < Gr. evpic broad. + varoc. back.] A genus of extinct eutaxitic texture.

eutaxy, n. 2. In ornith., the condition of a bird's wing when the fifth secondary is present.

Eutectic alloy, eutectic point or tempera-ture. See *alloy, *point1. eutectoid (ū-tek'toid), a. and n. [eutect(ic) + -oid.] I. a. Exhibiting eutectic character.

II. n. A substanco which behaves as a entectie.

eutexia (ū-tek'si-ā), n. [Gr. εὐτηξία, ⟨εὐτηκτος, easily melted: see eutectie.] The property of tusing at low temperatures. See eutectic.

euthanasian (ū-tha-nā'si-an), a. [euthanasia + -an.] Relating to or marked by euthansia. eutheca ($\ddot{\mathbf{u}}$ -th $\ddot{\mathbf{e}}$ 'ka), n. [Gr. $\dot{\epsilon}\dot{\mathbf{v}}$, well, + $\theta\dot{\eta}\kappa\eta$, ease: see theea.] In corals, the true theca as distinguished from a pseudotheea, the former having true centers of calcification. Compare *pseudotheea. Philos. Trans. Roy. Soc. (London), ser. B, 1896, p. 141. euthecate (ū-thē'kāt), a.

[$eutheca + -ate^1$.] Characterized by the possession of a cuthcea: as, the euthecate corals. Annals and Mag. Nat.

Hist., Jau., 1904, p. 24. eutherian (ū-thē/ri-an), a. [Eutheria + -an.] Pertaining to or having characters found in the Eutheria, or placental mammals.

Much depends upon future investigations in regard to the structure of the Eutherian ovum.

Encyc. Brit., XXX. 505.

euthycomi (ū-thik'ō-mī), n. pl. [NL., \langle Gr. $\varepsilon i\theta i \varsigma$, straight, $+ \kappa \delta \mu \eta$, hair.] Individuals or types of man with straight hair, like the Mongols; a subdivision of the Lissotriches. Haeckel.

euthytropic (ū-thi-trop'ik), a. **euthytropic** ($\ddot{\mathbf{u}}$ -thi-trop'ik), a. [Gr. $\epsilon i\theta \dot{\nu}_{\zeta}$, straight, + $\tau \rho \dot{\sigma} \pi \sigma \varsigma$, direction.] A descriptive term suggested by J. Milne for those earthquake shocks whose vibrations are in the same direction as the line of transmission of the shock itself. Also euthutropic. Nature, 1881, p. 126.

eutocia (ū-tō'si-ḥ), n. [Gr. εὐτοκία, < εὐτοκος, bringing forth easily, < εὐ, well, + τεκεῖν, bring forth.] Normal childbirth.

Eutracheata (ū-trā-kē-ā'tā), n. pl. [NL., ζ Gr. εὐ, well, + τραχεία, trachea.] A group of Arthropoda including the insects and myriapods as distinguished from the tracheate Arachnida and the Prototracheata.

euxenium (ūk-sē'ni-um), n. [NL., ⟨Gr. εὐξενος, hospitable: see euxenite.] A supposed new element (or rather either of two, distinguished as euxenium I and II) announced by Hofmann and Prandtl in 1901 as present in the Norwegian mineral euxenite: said to resemble zirco-nium, but to differ from it in certain reactions.

evacuator, n. 2. In surg. an instrument for removing fluid or solid particles from a cav-

evaginate (ē-vaj'i-nāt), a. [L. eraginatus, pp. of evaginare, unsheath, < e, out, + vaginare, sheath: see vaginate.] Pushed out or everted; turned inside out.

evagination, n.—Potential evagination, in embryot, an arrangement of the cells, or of their nuclei, of such a nature as to indicate the point at which a future evagination will be formed.

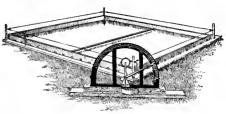
evanescent, a. 5. In math., infinitesimal. evang. An abbreviation of evangelical and evangelist.

evans-root (ev'anz-rot), n. [See *evans.] The water-avens, Geum rivale.

The water-avens, Geum rivate.

evaporation, n.—Heat of evaporation. Same as *heat of vaporization.—Multiple-effect evaporation, a process by which the latent heat of vapor given of from one evaporating-vessel is utilized by applying it to raise the temperature of the liquid in another vessel, and so on, the vapor in each case being carried through coils of pipe surrounded by the liquid to be heated. Such an arrangement is much used in sugar-refining. evaporation-tank (ē-vapo-ā-rā'shon-tangk), n. A vessel or tank holding a large quantity of

A vessel or tank holding a large quantity of water fully exposed to the sun and the wea-



Symons's Standard Evaporation-tank

A tank 6 feet square (rim, 3 inches aboveground) kept filled to mark near the top; water, 2 feet deep. At one corner is the floa and a semicircular scale with an index-finger, which shows th height of water in the tank.

ther. It is used for measuring the evaporation from a representative natural surface of water.

water.

Evaporative capacity, the capacity of a boiler or evaporator to convert water into steam. Evaporative capacity is usually stated in pounds of water per hour.

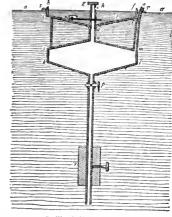
Evaporative efficiency, the ratio of the amount of water evaporated by a boiler per pound of coal burned, to the amount which it is theoretically possible to evaporate with the same pound of coal.

evaporator, n. 2. A device for evaporating water into steam. The necessary heat is derived from live steam or from the waste gases given off by a furnace used primarily for some other purpose. Such evaporators are used on shipboard to make steam from salt water, this steam being then condensed to furnish resh water for the boilers or for culinary purposes.

3. A device, used in connection with gasoleneengines, to transform the liquid hydrocarbon

engines, to transform the liquid hydrocarbon into a gas or vapor by heat or by fine subdivision in a current of air. Hiscox, Horseless vision in a current of air. Hiscox, Horseless Vehicles, p. 179.—Lillie evaporator, in sugarmanuf, an arrangement for rapidly evaporating cancince in which, under progressively reduced pressure, the pince is sent through a series of tubes surrounded by steam.—Multiple-effect evaporator, a series of evaporators the first of which is heated by live steam from a boiler, the second by steam generated in the first, the third by steam generated in the second, and so on. There are usually three or four evaporators in the acries, and as the heat range is lowered it is usually necessary to lower the pressure on the surface from which evaporation or the pressure on the surface from which evaporation of

evaporometer, n.—Stelling's evaporometer, an arrangement for determining the amount of evaporation



Stelling's Evaporometer.

a, a', natural surface of the pond, river, or ocean; b, c, d, c, f, evaporation-pan; t, thermometer; g, h, i, k, l, m, n, f, float full of air to support the water in the pan at the proper height; s, s', rim to prevent insplashing from waves; r, weight to keep the metal framework upright; a, vent-pipe to allow the air in the float to expand and contract.

under natural conditions from a surface of water represent-ing the surface of a river or lake. It consists essentially of an evaporation pan supported within another pan and floating on the surface of the water. The amount of evap-oration is measured either by weight or by volume.

eve¹, n.—St. John's eve, midsummer eve.

eve-eel (ēv'ēl), n. A common name of the conger-eel. [Eng.]
eve-jar (ēv'jär), n. Same as eve-churr.

Even or odd. (b) A way of betting or of settling who shall pay for something, as by ealling the number of a bill (odd or even); or the number of matches held in the hand, even or odd. In the Spanish game of rondean the players bet that the number of balls left on the table will be odd

4. An acid liquor used in coloring evener, n.

skins to obtain a uniform shade. Flemming, Practical Tanning, p. 73.

evening-snow (ev'ning-sno'), n. In California, a delicate herb. Linanthus dickotomus, related thus demonstrates the followers about four o'clock in the afternoon, closing them again in the morning. It is so abundant on open slopes as to whiten the ground. The flowers are salver-shaped, an inch wide, and oppressively scented.

Everglade State, the State of Florida.

evergraen. I. a.—Evergreen beech. See ★beech!

II. n.—Broad-leafed evergreen, an evergreen tree or shrub with broad leaves, chiefly dicotyledonous, such as Mapuolia fertida, as distinguished from coniferous trees with needle-shaped leaves.—Bunch-evergreen, the ground-pine. Lycopodium obscurum.—Christm'as evergreen, Selaginella rupestris, a plant of wide distribution, often used for Christmus decoration. See Selaginella—Coral-evergreen,

mas decoration. See Selagi-nella.—Coral-evergreen, the common club-moss or running pine, Lycopodium clavatum. See Lycopodium.—Swamp-evergreen, the shining club-moss, Lycopodium lucidulum. See ★club-moss,—Trailing evergreen. Same as swamp-★ever-

Evening-snow (Linanthus One third natural size.

everlasting. I. a .- Everlasting grass, the sain-

everlasting. I. a.—Everlasting grass, the sainfoin.

II. n. —Alpine everlasting, Antennaria alpina, a low floccose-woolly plant of northern North America, extending entirely across the continent and rancing from Colorado and California to the arctic circle.—Clammy everlasting, Gnaphalium decurrens, a rather tall glandular-viseid American plant, having the narrow sessile leaves decurrent on the stem, whence it is called winged cudweed. Also called babam-weed and sweet babam.—Early everlasting. Same as mouse-eur everlasting (which see, under mouse-eur)—Large-flowered everlasting, Anaphalis margaritacea, a widely diffused North American plant, also occurring in northern Asia and adventive in Europe; it is closely related to Antennaria and Gnaphalium, but has larger heads.—Life-everlasting. Same as everlasting, applied to the same species, but particularly to Gnaphalium. G. obtusifolium is called fragrant or sweet life-everlasting on account of the balsamic odor emitted after the flowers have fallen.—Moor everlasting, Same as mountain dioida, a low floccose-woolly plant with relatively large heads, the flowers of which are sometimes pluk; found in nearly all parts of North America, and also in Europe and Asia, especially in mountainous regions.—Mouse-ear everlasting. Same as largeon. (b) Same as large-flowered *everlasting.—Plantain-leaf everlasting, the mouse-ear everlasting, Rose-flowered *everlasting, Rose-flowered *everlasting, the Swan River everlasting, Syncarpha Manglesii.

Evermannia (ev-èr-man'i-i), n. [NL., named for B. W. Evermannia, an American ichthyolo-

Evermannia (ev-èr-man'i-ä), n. [NL., named for B. W. Evermann, an American ichthyologist.] A genus of small gebies distinguished by the naked body and elongate form: found on the Pacific coast of Mexico. E. zosterura is the common species. evernin (e-ver'ni-in), n.

 $[Evernia + -in^2.]$ A yellowish tasteless amorphous compound, $C_6H_{14}O_7$, found in certain of the liehens of the genus *Everuia*.

Eversible sacs or glands. See defensive

evertebrate (ē-ver'tē-brāt), v. t.; pret. and pp. evertebrated, ppr. evertebrating. [L. e-, out, + rertebra, vertebra, + -ate².] To deprive of backbone; hence, to render useless and ineffective.

evertor (e-ver'ter), n. That which everts or rotates outward, as a musele. Lancet, July 4, 1903, p. 56.

1903, p. 56.

Eve's apple, in Ceylon, a name applied by the English to the fruit of Evvatamia dichotoma (Tabernæmontana dichotoma of Roxburgh), a small dichotomously branched tree belonging to the dogbane family. It has a nilky latex, dark-green, coriaceous leaves, and fragrant white, salver-shaped flowers with yellow throat. The fruit consists of two distinct carpels, broadly ovoid when ripe, and orange yellow without. They contain numerous seeds surrounded by crimson pulp.—Eve's cup, the trumpetleaf or huntsman's-horn, Sarracenia flava.—Eve's darning-needle. Sume as Adam's needle and thread, Yucca flamentosa.—Eve's plant, the Spanish bayonet, Fucca aloifolia. See bayonet.

evidence, n.—**Self-regarding evidence**, in law, evidence for or against a party derived from statements made by or from the conduct of himself or his representatives. When in favor of the party it is called *self-serving evidence*,

and is generally inadmissible; when against him it is called self-disserving evidence, and is always admissible—as an admission in a civil case, or as a confession in a civil

evisceration, u. 2. In ophthalmol., removal of the internal parts of the eyeball, the selerotic the internal parts of the eyeball, the seleratic coat being left. Buck, Med. Handbook, I. 557. evisceroneurotomy (ē-vis*e-rō-nū-rot'ō-mi), n. Evisceration of the eye with division of the optie nerve. Buck, Med. Handbook, I. 557. evocative (ev'ō-kū-tiv). a. [evocate + -ive.] Tending or fitted to evoke or eall forth.

evocative (ev o-ka-tiv). a. [evocate + -ive.]

Tending or fitted to evoke or eall forth.

evolute, n. II. a. Evolved; developed: as, an evolute eurve.

evolutility (ev o-lū-til'i-ti), n. [evolut(ion) + -ile + -ity.] The eapability possessed by all living things of undergoing changes in form, size, or structure, as the result of the nutritive processes.

evolutine (ev o-lū-tin), a. [evolut(ion) + -ine1.]

Of or pertaining to evolutility.

The evolutine cycle of tissues deprived of their intimate relations with nerves.

Nature, Feb. 5, 1903, p. 336.

uvidæ, found in the West Indies.

exact, v. 4. lu Eng. law, to call (a party) in eourt to answer. When the party could not be found, he was exacted, usually five times at five successive county courts before being outlawed.

Exact differential. See *differential.

exaction, n. 3. (b) The calling of a party to answer. See *exact, v., 4.

exaggerational (eg-zaj-e-rā'shon-al), a. [exaggeration+-al.1] Pertaining to or characterized by exaggeration; hyperbolical.

Exact differential

exaction, n. 3. (b) The calling of a party to answer. See *exact, v., 4.

exaggerational (eg-zaj-e-rā'shon-al), a. [exaggeration+-al.1] Pertaining to or characterized by exaggeration; hyperbolical.

Exact differential

exact, v. 4. lu Eng. law, to call (a party) in eourt to answer. When the party could not be found, he was exacted, usually five times at five successive county courts before being outlawed.

Exact differential. See *differential.

exaction, n. 3. (b) The calling of a party to answer. See *exact, v., 4.

exaggeration (ey-zaj-e-rā'shon-al), a. [exag-geration + -al.1] Pertaining to or characterized by exaggeration; hyperbolical.

evolution, n.-Compound evolution, evolution in evolution, **Money of progress in one aggregate er group is affected by the proximity and influence of another aggregate—Determinate evolution, the doctrine or opinion that the modification of species according to the principle of natural selection is guided into certain predetermined lines by a natural necessity, or by the adaptive acts of the organisms themselves. **Einer*—Doctrine of evolution.** (a) In **embryod**, in individual development or ontogeny, the doctrine or opinion that the generation of a living being from an egg consists in the unfolding, or evolution, or manifestation to sense, of the organization or specific constitution which is latent or potential in the egg: contrasted with or opposed to the doctrine that development is epigenesis, or new formation. The embryological doctrine of evolution has undergone many changes. In the seventeenth and eighteenth centuries most of its advocates regarded the germ as a complete and permanufact and minute that the instance of contrastion and eludes our senses, and is made known to us by the mind's eye. Development was held to be the distention of this miniature, and its manifestation to sense, by the intussusception of untritive material, withen any change in the volume or in the organization of the essential living substance which exists, in its completeness, and last sages of development. Mest of the present advocates of this view believe that while the germ has a nixed and definite architecture which centrols and directs each step in the process of development. Mest of the present advocates of this view believe that while the germ has a nixed and definite architecture which centrols and directs each step in the process of development, and is manifestation to sense, by the intustual continuation of the complete of the service of the

ture or a compound: most commonly used of gas or vapor: as hydrochloric-aeid gas evolved from a mixture of common salt and sulphuric acid.—5. In math., to extract (roots).

Evoxymetopon (e-vok/si-me-tō/pon), n. [NL., $\langle \text{Gr. } \epsilon \nu$ -, well, + $\delta \xi \nu$ c, sharp, + $\mu \epsilon \tau \omega \pi o \nu$, brow.] A genus of cutlas-fishes of the family Trichiuridæ, found in the West Indies.

methylacetanilide, recommended for medical

use as an analgesie.

ex all (eks âl). Sold without any of the rights or privileges that usually appertain to stocks or bends, as, for example, the right to receive the maturing dividend (see ex div.), which is

the maturing dividend (see ex div.), which is reserved to the sellers, or the right to participate in future issues. See *ex right. [Eng.] exaltado (ck-säl-tä'dō), n. [Sp., 'exalted.'] In modern Spanish history, a member of a political party about 1820-22, which was extremely democratic in sentiment.

exaltation, n. 6. An abnormal mental condition marked by an overweening sense of selfimportance (amounting even to delusions of grandeur), an optimistic contentedness with one's surroundings or condition, and a state almost of rapture or eestasy. examin, v. A simplified spelling of examine.

examinationist (eg-zam-i-nā'shou-ist), n. [examination + -ist.] One who believes in or is an advocate of the system of basing appointments on fitness as ascertained by competitive examination.

examination. examination. examination. examination. examination. examination. examination. n. [Gr. n] out, n white efflorescence, perhaps Na₂SO₄ + 2H₂O, derived from Glauber's salt.

exanthema, n. 3. In bot., same as die-back. exappendiculate (eks-ap-en-dik'ū-lāt), a. [L. ex, out, + appendicula, appendage, + -atel.]

Destitute of appendages.

exarteritis (eks-är-te-ri'tis), n. [NL., < Gr.-έξ, out, + ἀρτηρία, artery, + -itis.] Inflammation of the outer layer of the wall of au artery. exarthrosis (eks-är-thrō'sis), n. [Gr. $\dot{\epsilon}\xi$, out, $+\dot{a}\rho\theta\rho\sigma\nu$, joint, + - σ sis.] Dislocation of a

joint. An abbreviation of excellency. Exc.

excalate (eks'kā-lāt), v. t.; pret. and pp. exculated, ppr. excalating. [cx + (inter)calate.] To drop out; remove from a series: the opposite of intercalate.

There remains the assumption that vertebræ have been excalated in front of the pelvis. . . . Six vertebræ must have been excalated.

Philos. Trans. Roy. Soc. (London), ser. B, p. 342.

excalation (eks-kā-lā'shon), n. [excalate + ion.] 1. The omission, dropping out, absence, or removal (of something) from a connected series: the opposite of intercalation.

Hence the supposition of excalation of vertebree in front of the girdle (of Mustelus vulg.) leads also to the necessary corollary that a vast amount of both inter- and ex-calation must go on at another spot.

Philos. Trans. Roy. Soc. (London), 1900, ser. B, p. 343.

Specifically -2. The absence, in a race of organisms, of any element in a series of homologous parts, such as a limb or a pair of limbs in an arthropod, or of a vertebra in the spinal column of a vertebrate, considered as evidence that the part in question has been lost or sup-

pressed. Nature, Dec. 21, 1898, p. 171.

excavating-pump (eks'kā-vā-ting-pump), n.

1. A pump used to keep down water in excavations and trenches.—2. A pump used for exeavating or removing soft materials or emptying cesspools.

excavator, n. (c) A modified form of dredging-machine used in digging irrigation canals. It consists of schain-and-bucket conveyer mounted on a trolley that moves on rails laid on a traveling crane. Tracks are laid on each side of the canal, and upon these the crane moves. The conveyer, supported by a derrick, cuts into the soil, both below and above the water, and litts it to chutes that discharge it on the banks at each side. Since the conveyer



Excavator.

a, crane, traveling on tracks (outboard track not shown); b, bucket-conveyer; c, spoil-chutes to spoil-banks; d, spoil-banks; e, excavated canal.

travels on the crane transversely to the length of the canal all the soil can be excavated and the crane advanced on the tracks as fast as the canal is dredged out.

excelsin (ek-sel'sin), n. [L. excelsus, high, + -in.²] A crystalline globulin contained in the Brazil nut.

2. A printing-type, now known excelsior. n. excelsior, n. 2. A printing-type, now known as 3-point—about 24 lines to the inch. It is too small for letters, but is used for characters of music, piece fractions, and border decorations. See type, 8.— Excelsior machine, in wood-working, a machine for planing wood into excelsior. It is a simple form of vertical planer, using reciprocating cutters driven at a high speed.

exception, n.—Declinatory exception, in the civil law of Louisiana, a dilatory exception which denies the jurisdiction of the court before which the matter is brought.—Preëmptory exception, in the civil law of Louisiana, one intended to cause the dismissal of the ac-

excernent (ek-ser'nent), a. [L. excernens (-ent-). ppr. of excernere, separate: see execrn.]
Same as excretory.

excess, n.—Excess fare. See *fare1.—Principle of motor excess, in psychophys., the principle that "pleasure and pain can be agents of accommodation and development only if the one, pleasure, carry with it the phenomenon of motor excess heightened nervous energy, and the other pain, the reverse,—probably some form of

and the other, pain, the reverse,—probably some form of inhibition or of antagonistic contraction. J. M. Baldwin, Mental Develop., p. 189.

excessory (ex-ses 'o-ri), a. [excess + -ory.] Of the nature of excess; produced as a residual or by-product. J. E. Cairnes, Leading Prin.

of Polit. Econ., p. 128. exchange, v. i. 2. To go, by exchange with another officer, from one regiment or branch of

service to another.

exchange, n. 12. A mutual transfer of two officers in different regiments or branches of the service.

against the opponent's knight or bishop.—Post-exchange, a store at a military post under the management of the military authorities: also called a canteen.
—To gain, win, lose the exchange, in chess, to win or lose a rook for a knight or bishop.

Excipula (ek-sip'ū-lä), n. [NL. (Fries, 1825), < L. excipulum, a vessel, NL., an exciple: see exciple.] A genus of Fungi Innerfacti, type of

exciple.] A genus of Fungi Imperfecti, type of the family Excipulacea, having black membranous or leathery, somewhat cup-shaped pyenidia, with a simple opening. The spores are nidia, with a simple opening. The spores are elongate, hyaline, and one-celled. The species occur on dead stems of plants.

genus Excipula.

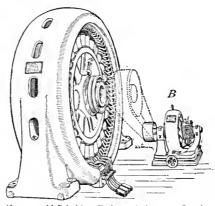
excisor (ek-sī'zor), n. One who or that which excises

excitation, n.-Law of polar excitation. Sec the

Pflüger stated his law of polar excitation as follows ("Untersuchungen," S. 456): "A given stretch of a nerve is irritated by the development of catelectrotoms and the disappearance of anelectrotoms, but not through the disappearance of catelectrotonus or the development of anelectrotonus." Buck, Med. Handbook, 11L 770.

excite, v. t. 5. In electric machinery, to send current through the magnetic field coils, and so produce the magnetism required for the operation of the machine.

exciter, n. 3. In elect., the dynamo-electric machine, battery, or other apparatus, which supplies current to energize the magnetic fields of other electric machines.—Belted exciter, an exciter driven by a belt from the machine which it excites.—Compensating exciter, an exciter directly connected and in synchronism with the alternater, and traversed by the current of the alternater, for the purpose of compensating for the armature reaction of the alternater. See compensated **alternater.—Hertzian exciter, an apparatus for the production of electrical oscillations or Hertzian waves; a Hertzian oscillator.



Alternator with Belt-driven Exciter. A, alternator; B, exciter.

excitor (ek-sī'tor), n. Same as exciter; specifically, a nerve, stimulation of which excites to greater action in the part supplied.

excitosecretory (ek-sī"tō-sē-krē'tō-ri), a. Causing increased secretion.

excl., exclam. Abbreviations of exclamation. Exclusive inheritance. See *inheritance. Ex. Com. An abbreviation of executive commit-

exerement + -ive.] (eks-krē-men-tiv), a. [ex-exerement + -ive.] Pertaining to or forming exexcrementive crement.

excretin (eks' krē-tin), n. [L. excretus (see excrete) + $-in^2$.] A crystalline body of the composition $C_{20}H_{36}O$, which has been especially obtained from the feces of herbivorous animals. It is supposed to be closely related to cholesterin.

excretionary (eks-krē'shon-ā-ri), a. [excretion + -ary.] Of or pertaining to excretion; of the nature of an excretion: as, excretionary matter. Huxley.

excretolic (eks-krē-tol'ik), a. | [exercte + -ol + ie.] Derived as an oil from exerctions.

-Excretolic acid, an oily substance of fecal odor, obtained from human excrement. Its composition is un-

excretophore (eks-krē'tō-fōr), n. [L. excreta, excreta, + Gr. -φορος, ζφέρειν, bear.] A cell which serves to carry excreted matter away from the body.

The excretophores of leeches . . . undergo a similar rocess.

A. Mathews, Biol. Lectures, 1899, p. 165. Transfers and exchanges under this paragraph will be immediately reported to the War Dep't.

U. S. Army Regulations.

U. S. Army Regulations.

The excretophores of leeches... undergo a similar process.

Excretory tubule, one of the group of urinary tubules which open into the pelvis of the kidney.

13. In chess, the advantage of having a rook excuryation (eks-ker-va'slon), n. [L. ex, out, excretory tubule, one of the group of urinary tubules which open into the pelvis of the kidney.

curvatio(n-), curvation.] An outward curv-

ing or bending.

2. (a) In Eng. law, one who excusator, n. makes an accusation. (b) In old Ger. law, a defendant; one who wholly denies the plaintiff's cause of action. Bouvier, Law Dict.

ex. doc. An abbreviation of executive docu-

executancy (eg-zek'ū-tan-si), n. [executan(t) -cy.] In music, the function or action of an

executancy (eg-zek'ū-tan-si), n. [executan(t) + -cy.] In music, the function or action of an executant or performer; execution.

Executant or performer; execution.

Execution parée, in French law, a right by which a creditor, without preliminary legal process, may seize and cause the gooda of his debtor to be sold for payment of the debt. It involves an act upon the part of the debtor amounting to a confession of judgment, and is similar to a warrant of attorney.—Stay of execution, in law, an act or order which postpones the operation of an execution for a certain time, or which makes it dependent upon the happening of some event.

Executive mansion, the huilding in Washington, D. C., occupied by the president of the United States: popularly known as the 'White House.'

Executor of his own wrong, in law, same as executor de son tort.—Executor to the tenor, in law, a person charged in a will with a duty or duties which pertain to the office of executor, as the appointment of a particular person to discharge a particular debt.—General executor, in law, an executor nominated and appointed in the will of the testator without conditions, and whose right to act is superior to that of substituted executors, when there are such, an executor product and provided the court by reason of the refusal or inability of the rightful executor to act. The distinction is of importance, an executor line and executor, in law, an action as executor prior to such time.—Special executor, in law, one appointed to administer a part of an executor, in law, one appointed to administer a part of an executor, in law, one appointed to administer a part of an executor, in law, one appointed to administer a part of an executor, in law, one appointed to administer a part of an executor, in law, one appointed to administer a part of an executor, in law, one appointed to administer a part of an executor, in law, one appointed to administer a part of an executor, in law, one appointed to send time.—Special executor, in law, one appointed to appoint

exhaust-mill

C will not act, then D, etc. B is the instituted executor. C is said to be substituted in the first degree, D in the second degree, etc.

execx. A contraction of executrix.

exegete, n. 2. In Gr. antiq.: (a) A leader; guide; teacher; expounder. (b) In Atheus, an interpreter of religious law and regulator of ceremonies. The office was confined to the aristocracy.

Exelissa (eks-ē-lis'ā), n. [NL., said to be (irreg.) ζ Gr. ἐξελισσειν, unroll, ζ έξ, out. + ελίσσειν, roll.] A genus of platypodous gastropod Mollusca, with small turreted shells, having continuous transverse ribs, spiral striæ, and contracted aperture without canal and with continuous peristome. It is of Jurassic

exenteritis (ek-sen-te-ri'tis), n. [Gr. $\dot{\epsilon}\dot{\xi}$, out, $+\dot{\epsilon}\nu\tau\epsilon\rho\sigma\nu$, intestine, +-itis.] Inflammation of the peritoneum covering the intestines.

exercize, n. and v. A simplified spelling of exercise.

exhale, v. i. 2. To pass through in the form of drops; oozo: noting especially bleeding from a surface in the absence of any wound.

from a surface in the absence of any wound.

exhaust, n. 3. A pump, fan, or other device
for removing air from a building, enclosure, or
receptacle, by lowering the pressure in the
egress-pipe or flue.—Exhaust mill. See *tumbling-mill.—Point of exhaust, that point in the
stroke or in the cycle of processes in an enginecylinder at which the valve opens to release from the
cylinder the contents which have done their work of
driving. It should, theoretically, be just at the point
when the crank and piston are at the dead center. In
high-speed engines, to compensate for the inertia of the
material, the release may take place just before the end
of the stroke. See release, 5.

exhaust-gas (eg-zâst/gas), n. The products

exhaust-gas (eg-zâst'gas), n. The products of combustion due to the firing of the charge in the cylinder of an internal-combustion engine.

exhaust-head (eg-zâst'hed), n. A device for diminishing the noise from the exhaust-pipe of a high-pressure engine, and for entrapping any water or oil which would otherwise be ejected with the outgoing steam. These heads are usually conical in form, so that the steam shall expand in volume and diminish in velocity as it reaches its vent. Helical and radial baffle-plates separate out water and oil, and convey the latter to convenient separators, and the dry steam issues in a steady stream over a large area, instead of in a succession of pulfs with attendant noise.

exhaustion, n.—Nervous exhaustion.

exhaustion-method (eg-zâs'tyon-meth od), n. In psychol., a method for the determination of In psychol., a method for the determination of the elementary qualities of olfactory sensation. The nose is exhausted, by continued smelling, for a given odor: then another odor is presented. The assumption which underlies the method is that if the second odor is qualitatively different from the first it will be sensed, despite the exhaustion of the organ for the first odor; while if the second odor belongs to the same qualitative group as the first, it will not be sensed at all, or will be sensed weakly and imperfectly. E. B. Titchener, Exper. Psychol., 1. i. 76.

exhaustion-time (eg-zâs'tyon-tīm), n. In psychophys., the average time required to exhaust the olfactory organ for a given odor. See *exhaustion-method.

exhaust-jacket (eg-zâst'jak'et), n. A chamber in or around any part of au engine within which exhausted products from the cylinder are circulated to utilize heat which would otherwise bewasted. *Eneyc. Brit.*, XXVIII. 190. exhaust-lap (eg-zâst'lap), n. The amount by which the edges of the working face of the

slide-valve of a steam-engine project over the inner edges of the ports when the valve stands in its central position, symmetrical with the ports. Such an overlap on the exhaust edges of the valve prevents the steam from escaping prematurely from the expanding volume on the working side, and closes the delivery-port to the exhaust-passage before the piston reaches the end of its traverse, so as to imprison some steam behind the piston, whose compression acts as a cushion to bring the reciprocating masses to rest.

exhaust-lead (eg-zâst'led), n. The amount by which the exhaust-port of an engine is opened, or release occurs, before the end of the pressurestroke.

exhaust-line (eg-zâst'līn), n. The line on an indicator-diagram from a steam or other engine which is traced by the pencil or point of the instrument when the pressure in the cylinder is that existing when the exhaust-valve is open and the engine-piston is making its roturn stroke with the driving steam in that end of the cylinder which is not connected with the indicator.

exhaust-mill (eg-zâst'mil), n. 1. A mill having hollow journals or an opening at one end to which an air-pipo with au exhaust-fan is fitted

for the purpose of drawing dust or moisture out of the mill when it is in operation. 2.

Same as *tumbling-mill.

exhaust-opener (eg-zâst'op nèr), n. ton-manuf. a machine in which an exhaust-fan is employed for opening cotton as it comes from the bale. Taggart, Cotton Spinning,

exhib. An abbreviation of the Latin exhibeatur, 'let it be given.' [Used in med. prescriptions.] exhibitionism (ek-si-bish'on-ism), n. [exhibition + -ism.] A form of sexual perversion tion + -ism.] A form of sexual perversion characterized by exposure of the person to others, without any attempt at concealment or any evidence of shame.

From time to time the Alienist and Neurologist is consulted by cases of exhibitionism which are as much a surprise to the unfortunate victims as to the astonished public and startled courts.

Alien. and Neurol., Aug., 1904, p. 347.

exhibitionist (ek-si-bish'on-ist), n. A degenerate who obeys a morbid impulse to expose the person.

ex hypothesi (eks hī-poth'e-sī). [NL.] 'From the hypothesis'; according to the hypothesis; hypothetically; supposedly; assumed to be. exilarch (ek'si-lärk), n. [L. exnl, an exile, + Gr. $a\rho\chi\delta\varsigma$, chief. The word translates Aram.

resh galuta 'chief of the captives.'] The chief of the Babylonian Jews after the destruction of the temple and until the tenth century A.D. The exilarch exercised great authority not only over the Jews of Babylonia, but in all other countries, levying taxes and exercising other similar powers.

exile-tree (ek'sīl-trē), n. The quashyquasher, Thevetia Thevetia. See Thevetia.

existence, n. 5. In logic, presence in the uni-

verse, system, or total collection of individual verse, system, or total collection of individual objects considered. A class is said to exist when an individual of the class occurs in the universe considered; a relation is said to exist when a set of individuals in the universe is in that relation. Consequently such relations as incompossibility, refuting the existence of, and the like, although they are in a sense relations (better called pseudorelations), do not possess existence. On the other hand the relation of adjectives to corresponding abstract nouns, and other similar relations, refer at once to two different universes, the one of actually existing things, the other of possible symbols, and may thus be admitted to possess existence relatively to a second universe.—Existence theorem. See *theorem.

istence theorem. See *theorem.

existential, a. 3. Pertaining to external and accidental characters.

exit, n. 4. In phonetics, an off-glide or vanish.

A somewhat less gentle exit of the isolated vowel. Scripture, Exper. Phonetics, p. 430-

Exit wound. See *wound.—Pupil of exit. Same as interfusion *disk.

endite.] A process on the outer border of the leaf-like abdominal appendage of a phyllopod erustacean. A. E. Shipley, Zoöl. of Invertebrates, p. 260. exite (ex'ît), n. [Gr. $\xi \xi \omega$, outside, + -ite². Cf.

brates, p. 260.

exit-pupil (ek'sit-pū"pil), n. In a lens system, the optical image of the entrance-pupil, which is formed by the whole system of lenses. It is also the image of the stop, formed by that portion of the lens system which lies between the stop and the image space. In instruments designed for visual use the eye of the observer should coincide in position with the exit-pupil. See interfusion *disk.

exitus, n. 2. Termination of a disease: usually

an unfavorable ending: as, lethal exitus .-The external opening of a canal; meatus.

ex-librism (eks-li'brizm), n. [ex-libr(is) + -ism.]
The collecting and study of book-plates.
ex-librist (eks-li'brist), n. [ex-libr(is) + -ist.] A collector of ex libris or book-plates.

If, on the one hand, the more enthusiastic "ex-librists" (for such a word has actually been coined) have made the somewhat ridiculous claim of "acience" for "ex-lihrisme," the bitter animadversion, on the other, of a certain class of intolerant bibliophiles upon the "wandalism" of removing book-platea from old books has at times been rather extravagant.

Energy. Brit., XXVI. 305.

exmeridian (eks-mē-rid'i-an), a. [L. ex, out, - E. meridian.] Not in the meridian: denoting observations or objects. See *extramerid-[Rare.]

Exoascae (ek"sō-as-kā'sō-ē), n. pl. [NL., < Soc. Londom, Zoöl., Oct., 1902, p. 302.

Exoascus + -aceæ.] A family of parasitic ascomycetous fungi, named from the genus Exoascus, having the asci borne free on the host a hollow, cavity: see cæloma.] In embryol., and forming no distinct membrane beneath. See *Exoascus.

Exoascales (ek/sō-as-kā'lēz), n. pl. [NL., < of the vertebrate embryo.

Exoascales (ek/sō-as-kā'lēz), n. pl. [NL., < of the vertebrate embryo.

Exoascales (ek/sō-as-kā'lēz), n. pl. [NL., < of the vertebrate embryo.

Exoascales (ek/sō-as-kā'lēz), n. pl. [NL., < of the vertebrate embryo.

exoderm (ek/sō-dērm), n. [Gr. εξω, outside, + April 18, 1903, p. 607.

exophoric (ek-sō-fō'rik), a. Relating to or of an insect. N. E. D.

exoplutonic (ek/sō-plō-ton'ik), a. [Gr. εξω, outside, + Relating to or of an insect. N. E. D.

exoplutonic (ek/sō-plō-ton'ik), a. [Gr. εξω, outside, + Relating to or of an insect. N. E. D.

free, as in the order Exoascales. Encyc. Brit., XXVIII. 558.

Exoascus (ek-sō-as'kus), n. [NL. (Fuckel, 1860), \langle Gr. $\dot{\epsilon}\dot{\epsilon}\omega$, outside, + $\dot{a}\sigma\kappa\dot{\epsilon}c$, bag (see bag (see

ascus).] A genus parasitie fungi, gi, typical the family οť Exoaseaceæ: so named because the asei are produced in a thin laver on the surface of the host. tace of the host. The mycelium is perennial, and the asci are 4- or 8-spored. The species occur mostly on fruits, causing enlargements and other deformities. E. Pruni is a common species. attacking

apecies, attacking plums and producing plum-pockets.

Exobasidiacæe

(ek″sō-bā-sid- iā'sē-ē), n. pl. [NL., < Exoba-sidium + -aceæ.]

Plums affected by this fungus are devoid of stones and bear the fungus spores on their surfaces. a, branch, one fourth natural size; b, cross section of an affected plum, two thirds natural size; c, young asci; a, mature ascus (enlarged). (Drawn from Engler and Prantl's "Pflanzenfamilien.")

A family of parasitic basidiomycetous fungi, named from the genus Exobasidium and hav-

ing the same general characters. **Exobasidiales** (ek″sō-bā-sid-i-ā'lēz), n. pl.

NL., ⟨ Exobasidium + -ales.] An order of parasitic basidiomycetous fungi, containing the single family Exobasidiaceæ.

Exobasidium. (ek″sō-bā-sid′i-um), n. [NL. (Woronin, 1867), \langle Gr. $\xi\xi\omega$, outside, + NL. basidium.] A genus of parasitic basidiomycetous fungi, having 4-spored basidia breaking through the epidermis of the host and forming a thin whitish coating. The species attack ericaceous plants chiefly, producing gall-like formations.

Azaleæ occurs frequently on Azalea: the fleshy g
formed are called may-apples. See honeysuckle-apple

exocannibalism (ek-sō-kan'i-bal-izm), n. [Gr. έξω, outside, + E. eannibalism.] The custom of eating the flesh of strangers. Deniker, Races of Man, p. 148.

exocardia (ek-sō-kār'di-ā) n. [NL., ⟨Gr. έξω, outside, + καρδία, heart.] Displacement of the heart.

the heart.

Exoccipital fissure. Same as *ape-fissure. exocephalous (ek-sō-sef'a-lus), a. [Gr. έξω, outside, + κεφαλή, head.] Pertaining to or having the characteristics of the Exocephala. **exocerite** (ek-sos'e-rit), n. [Gr. $\dot{\epsilon}\xi\omega$, outside, $+\kappa\dot{\epsilon}\rho\alpha\varsigma$, horn, $+\cdot\dot{\imath}\dot{\imath}\dot{e}^2$.] In erustaceans, a scalelike structure borne by the second joint of an antenna.

exochorion (ek-sō-kō'ri-on), n.; pl. exochoria (-ä). [Gr. $\xi\xi\omega$, outside, $+\chi\delta\rho\iota\sigma\nu$, chorion.]

1. In embryol., the outer or ectodermal layer of the chorion in the mammalian embryo .-The outer layer of the chorion of an insect's egg. A. S. Packard, Text-book of Entom., p. 520. exoclinal (ek-sō-kli'nal), a. [exoclin(e) + -al.] In geol., pertaining to or of the nature of an exoeline.

exocline (ek'sō-klīn), n. An inverted fan-fold,

or a fan-structure of synclinal type. Lapworth, in Geol. Mag., VI. 62.

exocœle (ek'sō-sēl), n. [Gr. εξω, outside, + κοιλος, hollow.] The portion of the cœlenteron or gut-cavity of a hexactinian polyp which lies between different pairs of mesenteries; the intermesenterial space: opposed to *entocœle.

The two first pairs appeared within the dorsal exocœles, the moieties of each pair arising at the same time and remaining equal; the two next pairs were within the middle exocœles; and finally appeared the pairs within the ventral exocæles.

Biol. Bulletin, July, 1904, p. 84.

exocœlic (ek-sō-sē'lik), a. In actinians, of or pertaining to an exocele: as, the exocelic tentacles. Compare *entocelic. Trans. Linnean

mata (-ma-ta). [Gr. $\epsilon \xi \omega$, outside, + κοίλωμα, a hollow, cavity: see cæloma.] In embryol., that portion of the cœloma, or true body-cavity, which lies in the extra-embryonic region of the vertebrate embryo.

exoascous (ek-sō-as'kus), a. [Gr. $\tilde{\epsilon}\xi\omega$, outside, + $\dot{a}\sigma\kappa\delta c$, a bag (see ascus).] Having the asci outside, + $\delta\epsilon\rho\mu a$, skin.] The outermost cor-

tical layer of the root eorresponding to the

hypoderma of the stem. See hypoderma. **exogamy**, n. 2. In bot., the tendency of closely allied gametes to avoid pairing. **exogastric** (ek-s\overline{0}-gas'trik), a. [Gr. \overline{\epsilon}\xi\pi\), without, $+ \gamma a \sigma r i \rho$, the belly.] In the tetrabranehiate cephalopods, having the ventral sinus on the arched external side of the shell, as in the Nautilus: contrasted with *endogastric (which see).

exogastrula (ek-sō-gas'trö-lä), n.; pl. exogastrulæ (-lē). [NL., ⟨Gr. ἐξω, outside, + NL. gastrulæ.] An abnormal kind of gastrula, produced by a bulging out (instead of an invagination) of the control of the control

duced by a bulging out (instead of an invagination) of the vegetative pole of the blastula.
exogenesis (ek-sō-jen'e-sis), n. [NL., ⟨Gr. ε̄ξω, outside, + γενεσις, origin.] Origin from without: said of a disease arising from external causes. Jour. Trop. Med., July 15, 1903, p. 227.
exogenic (ek-sō-jen'ik), a. [As exogen + -ic.] Originating outside of the body; exogenetic exogeneous a. 3. In good, applied by Von

exogenous, a. 3. In geol., applied by Von Humboldt to extrusive, volcanic rocks, in contrast to endogenous rocks. See *endogenous, 3. exogeny (ek-soj'e-ni), n. [Gr. έξω, outside, + -γενεια, < -γέννης, -born.] 1. Same as exogamy. -2. In sporozoans, sporulation taking place after the cyst has left the host, as in Gregar-

inida and Coecidiidea generally. See *endogeny.

exogynous (ek-soj'i-nus), a. [Gr. εξω, outside,
+ γυνή, female (style), + -ous.] Having the
style or styles exserted.

exohysteropexy (ek-sō-his'te-rō-pek-si), n. [Gr. $\ell \xi \omega$, outside, + $i \sigma \tau \ell \rho a$, uterus, + $\pi \bar{\eta} \xi \iota \varsigma$, fastening.] In surg, operative fixation of the uterus beneath the faseia of the anterior abdominal wall outside of the peritoneal cavity. exolemma (ek-sō-lem'ā), n.; pl. exolemmata (-a-tā). [NL., ζ Gr. εξω, outside, + λέμμα, scale.] In histol., a very delicate tubular sheath surrounding the endolemma, which in turn incloses the axial fiber in the tail of certain spermatozoa, like those of *Helix pomatia*. **exometritis** (ek"sō-mē-trī'tis), n. [NL., \langle Gr. $\xi \xi \omega$, outside, $+ \mu \eta \tau \rho a$, uterus, + -itis.] Inflammation of the peritoneal covering of the uterus.

exomorphic (ek-sō-môr'fik), a. [exomorph(ism) +-ic.] In petrog., belonging to or having the characters of exomorphism. Amer. Jour. Sci.,

April, 1903, p. 280.

exomorphism (ek-sō-môr'fizm), n. outside, $+\mu\rho\rho\phi\eta$, form, +-ism.] In petrog., that variety of contact-metamorphism which is developed, in the surrounding walls, by an intruded mass of eruptive rock. The commoner changes produced in the metamorphosed rock are induration and cementation in some cases, recrystallization (the conversion of carbonates into silicates) in others, etc.: contrasted with *endomorphism, or the effects, chiefly those of chilling, produced upon the border of the eruptive itself. tive itself.

exomphalous (ek-som fa-lus), a. [Gr. ἐξόμφα-λος, having a prominent navel, < ἔξ, out, + ὁμοαλός, navel.] Relating to or having an um-

bilical hernia or projecting navel. N. E. D. **Exon**² (ek'son), n. [NL. Exonia, Exeter.] A native or inhabitant of Exeter, England. **Exonautes** (ek-sō-nā'tez), n. [NL., $\langle \operatorname{Gr.} \hat{\epsilon} \xi \omega, \operatorname{outside}, + \nu a \nu \tau \eta \varsigma, \operatorname{sailor.}]$ A genus of flying-



Exonautes rondeleti. (From Bulletin 47. U. S. Nat. Museum.)

fishes of the family *Exocetidæ*, which have both pectoral and ventral fins developed as wings and the anal fin as long as the dorsal. E. rondeleti is a common species of the Atlantic.

exophoria (ek-sō-fō'ri-ä), n. [Gr. ἐξω, outside, + -φορια, < -φορος, < φέρειν, bear.] A condition depending upon imbalance of the ocular muscles in which there is a tendency to divergence of the visual axes, not amounting to

characterized by exophoria.

exoplutonic (ek*sō-plō-ton'ik), a. [Gr. εξω, outside, + Ε. plutonic.] In geol., formed or made up of originally plastic rock-material

that has been extruded, intruded, or protruded from deep-seated subcrustal sources.—Exoplu-tonic hypothesis, the assumed exoplutonic origin of certain rocks.

exoplutonism (ek-sō-plö'tō-nizm), n. The process of forming or exposing rock-forma-

process of forming or exposing rock-formations by exoplutonic activity. **exopod** (ex'ō-pod), n. [Gr. $\dot{\epsilon}\xi\omega$, outside, + $\pi o \dot{\epsilon} \dot{\epsilon} (\pi o \dot{\epsilon})$, foot.] An exopodite. **Exopterygota** (ek''sop-ter-i-gō'tä), n. pl. [NL., \langle Gr. $\dot{\epsilon}\xi\omega$, outside, + $\pi \tau \epsilon \rho \nu \gamma \omega \tau \delta c$, winged.] A superorder of insects characterized by having all stages of wing development environments. all stages of wing development entirely external. It includes the Orthoptera, Odonata, Hemiptera, and related orders

exopterygote (ek-sop-ter'i-got), a, and n. [Gr. εξω, outside, + πτερυγωτός, winged.] I. a. Pertaining to or having the characters of the Exopterygota; having the wings developed out-

side of the body.

II. n. A member of the Exopterygota. exopterygotic (ek sop-ter-i-got'ik), a. Same

exopterygotism (ek/sop-ter'i-gō-tizm), n. The development of wings outside the body, as with the Exopterygota. Encyc. Brit., XXIX.

exopterygotous (ek/sop-ter-i-go'tus), a. Same *exopterygote.

exorbital (ek-sôr'bi-tal), a. [L. ex, out, + orbita, orbit, + -al.] External to or beyond the orbit: as, exorbital protrusion of the eyeball.

exorcistic (ek-sôr-sis'tik), a. [exorcist + -ic.] Of or pertaining to an exorcist, or exorcism: used or practised by exorcists: as exorcistic adjurations.

exorcize, v. t. Another spelling of exorcise.
exosepsis (ek-sō-sep'sis), n. [NL., ζ Gr. ε̄ςω, outside, + σῆψε, putrefaction: see sepsis.]
Sepsis excited by a poison introduced from without, as opposed to *endosepsis or *auto-tempile.

exoseptum (ek-sō-sep'tum), n.; pl. exosepta (-tā). [NL., ⟨ Gr. εξω, outside, + L. septum, suptum, partition.] One of the calcareous septa which make their appearance in an exocule of a coral polyp. Biol. Bulletin, July, 1904, p. 82.

exosporangial (ek/so-spo-ran'ji-al), a. Having the sporogenic organs without an integument of hyphæ, as in fungi of the family Mucoraceæ.

Antithetical to these are the remaining, or exospora ngial, Zygomycetes, as they were termed by Brefeld. Lafar (trans.), Technical Mycology, 11. 66.

exostosis, n.—Ivory exostosis, a bony tumor of extreme density.

exostra (ek-sos'trä), n.; pl. exostræ (-trē). [L., $\langle \text{Gr. } \dot{\epsilon} \xi \omega \sigma \tau \rho a, \langle \dot{\epsilon} \xi \omega \theta \varepsilon i \nu, \text{ thrust out, } \langle \dot{\epsilon} \xi, \text{ out, } + \dot{\omega} \theta \varepsilon i \nu, \text{ thrust.}]$ In Gr. antiq.: (a) A theatrical machine, representing a movable chamber, which was wheeled out through one of the stage-entrances. (b) A bridge used in attacking a fortified town.

exotentacle (ek-sō-ten'ta-kl), n. [Gr. εξω, outside, + NL. tentaculum, tentacle.] In actinians, a tentacle arising from an exocœle.

It is worthy of note in this connection that the exotentacles in Siderastrea radians have been found to appear throughout in advance of the entotentacles, being the only zoantharian in which this relationship is known to occur.

Biol. Bulletin, July, 1904, p. 88.

exotherm (ek'sō-thèrm), n. [Gr. $\xi\xi\omega$, without, + $\theta i \rho \mu \eta$, heat.] In *chem.*, a compound substance in the formation of which from its con-

stituents heat is evolved, and in its decomposition, energy (frequently heat) is absorbed. **exothyropexy** (ek'sō-thi'rō-pek-si), n. [Gr. $\ell \xi \omega$, outside, $+\theta \ell \rho a$, door (see thyroid), $+\pi \bar{\eta} \xi \iota \varsigma$, fastening.] Dissection of the thyroid gland fastening.] Dissection of the thyroid gland from its bed and fixation of it on the surface: an operation for the relief of goiter, by inducing atrophy of the thyroid gland without its

entire destruction. exotospore (ek-ső'tő-spőr), n. [Gr. έξωτ($\kappa \delta \varsigma$), foreign (see *cxotic*), + $\sigma \pi o \rho \dot{a}$, seed (spore).] One of the minute bodies (sporozoites) which form a stage in the development of malarial parasites, introduced into the body by the bite of a mosquito (Anopheles). Each is slender, almost filamentous in shape, sharply pointed at each end, and thicker in the middle where the nucleus is lodged. Lankester.

exotropia (ek-sō-trō'pi-ā), n. [NL., (From Lankester), ετροπος, ζ τρέπειν, turn.] An



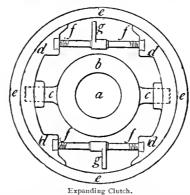
with relation to the main root or to that next higher in order than themselves.

exotropism (ek-sot'rō-pizm), n. [exotrop-ic + -ism.] In bot., the property of being exotropic.

exp. An abbreviation (a) of cx parte; (b) of expired; (e) of export; (d) of express.

expand, v. I. trans.—Expanded metal. See ★metal.

II. intrans.—Expanding brake. See *brake.—Expanding clutch, a friction-clutch in which the contact is obtained by expanding or forcing radially outward



a, shaft; b, hnb keyed or otherwise fastened to a; c, c, arms or spider fitting loosely in the pads or drum-segments d, d, so that the latter may move radially outward i; e, c, c, c, the internal ring surface or drum against which d, d, d, d, press and to which is attached the part to be driven from a when the clutch is engaged; f, f, right and left-hand screws by which d, d, d, d, are separated or brought together; g, g, arms by which f, f, are turned through the angles necessary by means of an external lever (not shown).

a part which bears against the inner cylindrical surface of a rim. The expanding is usually done by pushing a cone between the parts it is desired to force outward, or by wedging apart the segments of a cylinder which is split at one or more points to allow this action.— Expanding cultivator, hanger, pulley. See *cultivator, force.

expander, n. 2. A tool used to secure a tube in a plate or sheet so that the joint shall be in a plate or sheet so that the joint shall be steam- or water-tight under pressure. The tube is inserted in the hole, which it fits closely but so as to slide or be driven into place. Then within the tuhe is inserted the expander, having rollers which can be forced out radially against the inside of the tube while they are revolved in place. This pressure rolling action enlarges the tube and forces its outer surface against the walls of the hole. The end of the tube is usually also headed over. **expansion**, n. 7. In ship-building, a drawing in which a curved or warned surface as a in which a curved or warped surface, as a ship's outside plating or a longitudinal, is laid out or expanded on a plane surface by conventional methods to show approximately the out or expanded on a plane surface by conventional methods to show approximately the true relations and dimensions of the parts.—
Adiabatic expansion, the increase in volume of a gas when no heat is added to it from without to do the mechanical work of overcoming the external resistance, so that the gas has less intrinsic energy than when expansion began. The gas will be at a lower temperature at the end of the expansion than when it began, and hence the pressure will be less for a given increase of volume than in isothermal expansion.—Expansion by stages, the process of expansion used in compound engines in which the gas or vapor is introduced successively into cylinders of greater and greater size as the pressure decreases. The process is called two-stage expansion, three stage expansion, etc., according to the number of stages.—Initial expansion, the expansion of water into steam which occurs in a boiler when the valve is opened to supply steam to the engine-cylinder. It is an amount sufficient to fill the cylinder and its clearance-volume up to the point at which cut-off takes place.—Irreversible expansion, an expansion which takes place in such a manner that, by reversing the operation, compression will not be obtained; so, the expansion of steam through a nozle is a case of irreversible expansion.—Isothermal expansion, the increase or volume of a gas when the pressure varies inversely as the volume, and the temperature is kept constant during all such changes. The gas follows the law of Mariotte or Boyle.

The ideal motor for using compressed air is one which will supply heat to the air as it is required in expanding. This is called Isothermal Expansion, and is often attained, and sometimes exceeded, in practice by supplying heat artificially.

Maclaurin expansion. Same as Maclaurin's theorem (which see, under theorem).

Maclaurin expansion. Same as Maclaurin's theorem (which see, under theorem).

expansion-box (eks-pan'shon-boks), n. A reservoir placed in a gas-line close to an engine to assist in maintaining a steady flow of gas through the pipe and to check pulsations in the pipe line which supplies other expansions. the pipe-line which supplies other apparatus. expansion-cock (eks-pan'shon-kok), n. A valve or cock for regulating the flow of a gas

so as to provide for a given amount of expan-expectorator (eks-pek'tō-rā-tor), n. One who sion when it has passed the valve. Such exemperations expectorates. pansion-cocks are used for regulating the exemperation of ammonia in a refrigerating-system. pensed, ppr. expensing. To charge or debit

exaggerated exophoria amounting to actual expansion-coupling (eks-pan'shon-kup'ling), n. An expansion-joint; a device for connecting two lengths of pipe so that they are free to expand and contract as the temperature changes.

expansion-fabric (eks-pan'shon-fab"rik), n. In petrog., the arrangement of microscopic crystals in a layer about a phenocryst in a porphyritic rock, indicating that they have been crowded back into the solution by the expansion of the phenocryst in crystallizing. Pirsson, 1899.

expansionism (eks-pan'shon-izm), n. [expansion + -ism.] A policy of (territorial) expansion.

expansionist (eks-pan'shon-ist), n. One who favors expansion, as of the currency, or the extension of national territory; one who advocates the annexation of outlying territory.

expansion-plate (eks-pan'shon-plat), n Same as *hook-plate.

expansion-rate (eks-pan'shon-rat), n. The change of volume of an expanding substance divided by the time required for the change. If dv is the change of volume occurring in a short interval of time dt, then $\frac{dv}{dt}$ is the expansion-rate.

expansion-ratio (eks-pan'shon-ra/shio), The ratio of the volume of a gas or vapor, such as steam in a thermal engine, after expansion to the volume before expansion began. expansion-roller (eks-pan'shon-roller), n. A roller placed under one end of a truss of a bridge, boiler, or roof (the other end of which is fastened) to allow the structure to expand or contract freely with changes of tempera-

same purpose. expansion-shaft (eks-pan'shon-shaft), n, A shaft in the valve-gearing of certain forms of engines which is regulated by the governor so as to determine the point of cut-off and the degree of expansive working of the steam in the cylinder.

ture: also used under long pipe-lines for the

expansion-slide (eks-pan'sligh-slid), slide or valve on the back of the main valve of an engine, for cutting off the steam earlier and more sharply than is done by the main slide-valve, and causing a greater degree of expansive working of the steam than would be secured by the main valve.

expansion-tank (eks-pan'shou-tangk), n. In a hot-water heating-system, a sheet-metal vessel placed at the highest point in the pipe-system and open at the top to the atmosphere. It is kept partly filled with water to unite the flow and return water, and, at the same time, to give the whole mass of water in all the pipes room to expand under the influence of heat. It is fitted with a glass water-gage and supply- and overflow-pipes.

expansion-trap (eks-pan'shon-trap), n. device for separating water of condensation from steam which uses the unequal expansion of metals by heat as a means of opension of metals by heat as a means of opening or closing the inlet-valve. A rod immersed in the water is cooled and shortened or defected, opening the valve and allowing the accumulated water to flow out; when the water has been discharged and steam replaces it, the rod expands or hends in the other direction and closes the valve. A tube may be used instead of a rod, or a compound rod or tube made of two metals.

expansion-trunk (eks-pan'shon-trungk), In ship-building, a trunk at the top of each tank-compartment of a vessel which carries oil tank-compartment of a vessel which carries oil or other liquids in bulk. In such vessels, in order to avoid the shocks on the bulkheads and deck and the loss of stability due to the motion of a liquid with a free surface, the large compartments must be comparted filled. The trunk extending above the compartment is of comparatively small area and is partly filled with the liquid, the level of which rises or falls in it with change of volume of the liquid due to changes of temperature. The trunk thus acts as a feeder to the tank-compartment.

expansion-valve, n. 2. Same as *expansion-

expansometer (eks-pan-som'e-ter), n. An instrument for the determination of coefficients of expansions; a *dilatometer (which see).

expectation, n.—Curtate expectation of life, a simplified formula of life-expectancy which deals only with complete years, and is computed to be about six months less than the actual expectancy in any individual case.—Error of expectation. See *error.

expectoration, n.—Prune-juice expectoration, matter of a dark purplish color, due to admixture of blood, expectorated in certain cases of cancer or destructive inflammation of the lungs.

with an item of incurred expense to be collected from the proper party and accounted for by the chargee: used chiefly in dealings between express or railway companies or their ageucies

expensilation (eks-pen-si-lā'shou), n. [NL. expensilatio(n-), in LL. prop. two words, expensilatio(n-), a setting down of expense: expensi. gen. of expensum, expense; latio(n-), bearing, setting. Cf. acceptilation.] In Rom. law, the merging of an existing indebtedness into a new and more formal contract or obligation

expenthesis (eks-pen'the-sis), n. [Appar. an arbitrary fusion of exp(ansion) + Gr. indeas, insertion.] The lengthening of a word by the use of affixes. Compare epenthesis. S. S. Haldeman, Analyt. Orthog.

experiment, n.—Aristotelian experiment, an experiment in which a bead held between the tips of the first and second fingers is felt as one if the lingers are parallel, but as two if they are crossed.—Blank experiment, in psychophys., an experiment, irregularly introduced in a regular series of observations, to test the bias of the observer. Also termed, under different circumstances, catch experiment, puzzle experiment, test experiment.

Go to all psychological books, to see if they contain any reference to mental measurement, and the metric methods, and the blank experiment, and so forth.

Amer. Jour. Psychol., XIV. 86.

Cornu's experiments. See velocity of *kight.—Experiment area, a forest area of known size upon which successive measurements or other detailed studies are made for the determination of the growth and behavior Cornn's experiments. See velocity of *light.—Experiment area, a forest area of known size upon which successive measurements or other detailed studies are made for the determination of the growth and behavior of the stand, or upon which experiments are conducted to ascertain the effect of methods of treatment upon the forest. See *valuation area.—Experiment station.

An establishment in which experiments are systematically carried on in a particular line of research or activity. See *vapricultural experiment station.—Fechner's cloud experiment, in psychophys., an experiment for demonstrating the sensible equality of just noticeable differences of sensation at various points of the brightness scale. Two clouds are found, in a clouded sky, which present to the naked eye a barely discernible difference of brightness. The difference remains just perceptible when the clouds are viewed through gray glasses of various shades of darkness. E. B. Titchener, Expet. Psychol., H. i. 20.—Fechner's paradoxical experiment, in psychophys., an experiment which shows that, under certain conditions, the removal of a part of the stimulus received by the total visual apparatus increases the intensity of sensation. "Look at a uniformly illuminated surface. Now bring before one eye a darkened glass: the binocular field is darkened. Close the eye behind the dark glass: the field becomes noticeably brighter. The explanation is probably that, in the first part of the experiment, the monocular fields are not too different to blend to an average result; whereas, in the second part, the bright field wholly suppresses the dark." E. C. Sanford, Exper. Psychol., p. 163.—Fechner's shadow experiment, in psychophys., an experiment for demonstrating the sensible equality of just noticeable differences of sensation at various points of the brightness scale. A Rumford photometer is so arranged that one of the two shadows on the screen is barely different from the background of the screen isleft. The shadow experiment, in psychophys., an experiment w



Kundt's Experiment. a, b, c, d, transverse ridges of powder.

tance between the transverse ridges of powder. tance between the transverse ridges of powder (a, b, c, d) thus formed, the wave-length, which is twice that distance, may be found and the velocity of sound in the gas within the tube may be computed.—Mariotte's experiment, a method of determining the blind spot in the eye: demonstrated by Mariotte to Charles II. in 1668. A black spot on a white ground, or the reverse, is placed on the wall; then if one stands a little to the left of it and looks straight shead at the wall with the right eye, the left being closed, and slowly steps backward, at a certain time the image of the spot will disappear when the rays from it impinge upon the blind spot in the retina.—Melde's experiment, in acoustics, an experiment in which one end of a flexible cord is attached to the vibrating prong of a tuning-fork and the cord is stretched by the application of



weight to the free end. At certain degrees of tension, depending upon the frequency of the fork and the weight and length of the cord, the latter vibrates in parts showing well-defined loops and nodes.—Meyer's experiment, in psychophys., an experiment in visual contrast. A strip of gray paper is laid upon a colored background, and the whole is covered with white tissue-paper enhances the contrast effect. The experiment was described by it. Meyer in 1855.—Michelson's experiments. See velocity of **light.—Ragona-Scina's experiment, in psychophys., an experiment in visual contrast. Two white cards, carrying black figures (for example concentric circles),

carrying black figures (for example concentric circles), are set together at a right angle. Between them, at an angle. Between them, at an angle of 45°, is placed a sheet of colored glass. If one looks down at the horizontal card through the glass, the one black figure appears tinged with the antagonistic color. The experiment was described by Seinà in 1859.—Wundt's mirror experiment, in psychophys., an experiment, described by Wundt in 1862, for the demonstration and analysis of the perception of transparency (reflection in a mirror, the seeing of an object through or behind another object). The apparatus employed is of the same type as that used in Ragona-Scinà's contrast experiment.

experimental, a. 3. Of the nature of an experiment; characterized by experimentation; tentative: as, the experimental stage in the production of an invention, when it is being tested are experiment discoverits uses and its example concentric circles)

production of an invention, when it is being tested or examined to discover its uses and its behavior under commercial conditions or usage; an experimental scale, a limited or small scale.—Experimental geology, pathology. See *geology, *pathology.
experimentalism (eks-per-i-men'tal-izm), n.

That philosophy which regards observation of fact as affording the only assurance of positive truth, as distinguished from mere mathematical truth; the philosophy which was naturally developed out of the prosecution of the experimental sciences; the school of English philosophy of Locke, Berkeley, Hartley, the Mills, and others, together with Hume.—2. Experimental research in some branch of science.

expertise (eks-per-tēz'), n. [F., in OF. espertise, (expert, espert, expert.] An examination by experts; a survey by a board of skilled examiners of any obscure or doubtful case in order to establish a foundation upon which the court may base an intelligent and definite judgment.

expiation, n.—Fast of expiation. See *fast3. expirated, it.—rass of expirates, breathed out, pp. of expirate, breathe out: see expire.]
In phonol., that is the result of or is accompanied by expiration or outbreathing.

Ordinary speech is generally expirate in European lan-nages. Yale Psychol. Studies, 1902, p. 103.

expiration, n.—Expiration group, in phonol., a sequence of sounds limited by pauses. Yale Psychol. Studies, 1901, p. 75.—Expiration interval, in phonol., the period of a sequence of sounds limited by pauses; the duration

of an expiration group. expiree (ek-spi-re'), n. whose term has expired; specifically, a convict whose term of imprisonment or transpor-

tation has expired. [Australia.] explemental (eks-plē-men'tal), a. [explement + -al¹.] Of the nature of an explement; specifically, designating: (a) two ares which together complete the circle; (b) an arc which with a given arc completes the circle; (c) two sects which together complete the straight;
(d) a sect which with a given sect completes the straight.

explicit (eks'pli-sit), n. [explicit2, v.] The concluding words of a book or section of a See the quotation under *incipil

exploder, n. 3. Milit., a device for exploding gunpowder or a high explosive; a primer.

— Mowbray's exploder, an apparatus for use in hlasting which bires the charge by means of static electricity. It is put up, for convenient transport, in a wooden case shaped like a small barrel and furnished with a handle by which it may be carried. Hence it is sometimes called the powder-keg exploder.

exploit, r. t. 4. To work (as a mine, etc.); to turn to industrial use.

explorer, n.—Linear explorer, a device for indicating or recording the linear oscillations of a moving railway-car or other vehicle.

exploring-coil (eks-plor'ing-koil), n. In eleel., a coil of wire which is connected to a measuring-instrument and is used to investigate magnetic fields, etc., by observing the electromotive force induced in the coil or its change of resistance when placed in the field.

explosion, n.— Detonative explosion, an explosion produced, not by the application of flame or a heated body, but by shock, usually from the discharge of a small primer charge of fulminating mercury.—Wave of explosion. See *wave1.

explosion-bomb (eks-plō'zhon-bom), n. In thermochem., a form of calorimeter used for the determination of heats of combustion. It consists of a steel vessel within which are placed a small amount of the substance to be oxidized and oxygen enough to insure complete combustion. Ignition is secured by sending a strong electric current through an iron wire. The heat evolved is measured by the rise in temperature of a water-bath in which the bomb is submerged.

explosion-chamber (eks-plö'zhon-chām"ber). A chamber at the end of the cylinder of an internal-combustion engine where the charge is compressed and ignited; the clearance-space of an internal-combustion engine.

explosion-engine (eks-plo'zhon-en"jin), n. form of internal-combustion engine in which the mixture of fuel and air is drawn into the cylinder in such proportions that, when ignited, combination with the oxygen takes place so rapidly and concussively as to produce a report. The modern engines which compress the mixture before igniting it are not explosive in this sense, but are practically silent.

explosion-lake (eks-plō'zhon-lāk), n. which occupies a volcanic crater or caldera.
explosion-motor (eks-plō 'zhon-mo "tor), n.

Same as *explosion-engine.

explosion-pipette (eks-plo'zhon-pi-pet"), n. A pipette of stout glass, of some suitable shape, having two platinum electrodes so sealed in that an electric spark may be made to cross the gap between them and thus ignite an explosive mixture of gases contained in the pipette. M. W. Travers, Exper. Study of Gases, p. 136.

pette. M. W. Travers, Exper. Study of Gases, p. 136.

explosive, I. a.—Explosive speech. See *speech.

II. n. 1. The principal classes of explosive substances are: (a) gunpowder; (b) nitroglycerin and its compounds, the most important being dynamite; (c) gunpowder; (d) picric acid and the picrates; (e) fulminates; (f) Sprengel safety-mixtures; (g) nitrate mixtures other than gunpowder, and chlorate mixtures. There are many varieties of each class.—Amino explosive. See *amino.—Explosive D, a high explosive consisting largely of picric acid: used in the United States land service as a bursting-charge for shell.—Favier explosives, explosive sgents patented by Favier in Belgium, consisting chiefly of a mixture of alkaline nitrates and nitronaphthalene. Poudre Favier No. 1 contains ammonium nitrate and dinitronaphthalene; No. 2, ammonium nitrate, sodium nitrate, and dinitronaphthalene. These explosives are not readily fired by accidental shock, require heavy detonations to explode them, and, in the case of those containing ammonium nitrate, are very liable to injury by absorption of noisture in storage.—Parone's explosive, an explosive agent which consists of two parts of potassium chlorate and one of carbon disulphid.—Phonic explosives, consonants uttered with vocal-chord action, as b, d, g.—Sprengel explosives, a class of explosive involve the principle of mixing just before use a combustible with an oxidizing substance, neither of these being explosive in the separate state. Some of the mixtures proposed were open to serious objection, as, for instance, petroleum or carbon disulphid mixed with liquid nitrogen tetroxid, but some useful mixtures have been devised, notably that known as rend-rock or rackarock (which see).

Exponent of a ratio, the number of times the conservation of the mixture in the conservation of the second of the conservation of the conservation of the mixture in the conservation of the number of times the conservat

Exponent of a ratio, the number of times the consequent is contained in the antecedent.—Exponent of irregularity of a permutation, the number of cycles in it. exponentially (eks-pō-nen'shal-i), adv. By exponentials

exponentiation (eks - pō - nen - si - ā ' shon), n. [exponent + -i + -ation.] The act of affecting with an exponent or index.

Moreover exponentiation unavoidably introduces ordinal notions, since a^b is not in general equal to b^a .

A. W. B. Russell, Prin. of Math., p. 120.

Export duty. See *duty.

exposit (eks-poz'it), v.t. [L. expositus, pp. of exponere, set forth: see expound, exposition.]

To expound; explain or interpret. exposition, n. 7. In music: (a) The act, process, or result of presenting or enunciating the themes or subjects of a composition. (b) exposition, \hat{u}_{\cdot} Specifically, the opening section of a fugue or a sonata, in which the subject or subjects are first set forth: often called the exposition section.—8. That sort of setting forth of a purpese er general idea which consists in showing how the purpose er idea will apply to particular eases.

exposure, n. 7. In meteor., the method of placing any instrument so that it shall correctly measure a given meteorological element. A barometer should be so placed as to indicate the pressure prevailing in the free air at a given level. If the wind is blowing the instrument, or the house in which it is placed, becomes an obstacle to the wind, by which the pressure is increased on the windward and diminished on the leeward side; similarly, in a wind, an open chimney in a closed room causes a lowering of the pressure, while a window opened on the windward side causes an increase. In general, a barometer, whether mercurial or aneroid, should be so placed that the wind-effect may he simulted or measured and allowed for. The latter is accomplished by the *amemobarometer (which see). In order that a thermometer shall indicate truly the temperature of the sir, it must receive heat from the air by convection and conduction, but all radiation from other objects should be cut off except from those having the same temperature as the air. When a thermometer is hung in the open air in the shade, it is usually exposed to radiant heat from the soil, buildings, and clouds, and to reflections of the rays of the sur; it slo radiates its own heat to cold objects and to the sky. Its temperature represents a balance between its momentary gain and loss of heat, and has little to do with the temperature of the adjacent air unless the wind is blowing strongly enough. When held in the shadow of a wall or tree, its temperature is usually somewhat lower than when it is moved a few inches farther on into the full sunshine, although the temperature of the air is the same in both places. A common method of exposure is to place the thermometer within a screen or so-called thermometer-shelter made of light slats overlapping each other so as to cut out direct samilight but allow the free entrance of the wind. This method falls if the wind fails to keep the interior surfaces of the shelter at the true air-temperature, for, in general, the tempe exposure, n. 7. In meteor., the method of placing any instrument so that it shall cor-

and employed.

8. In forestry, see *aspect, 9.—Sod-exposure, the location of a thermometer-shelter, or the exposure of a thermometer, over a large expanse of grass-covered soil rather than over the tinned surface of a roof or the hot sandy or rocky surface of a plain.

express, v. t. 9. In math., to give or represent by means of a figure, graph, symbol, or function. - To express y in terms of x, to give explicitly

fat for y = fx. **express. I.** a.—Express warranty. See *warranty. EXPIESS. I. a.—Express warranty. See ★warranty.

II. n.—Limited express, an express train having accommodations for a limited number of passengers. Very fast trains are thus limited, in order that the speed may be maintained. As originally used, the limit applied only to the number of cars. See limited train.—Local express, in railroading, a train scheduled to run a certain distance (for example, over one division) as an express and then to run as a local train, making all stops. [U. S.]—Pony express, apid transit by relays of ponies: the system in use in the United States for the conveyance of the mails across the western prairies before through railway-communication was established in 1869.

express_huggy_(eks_press_thugfi) 2. A huggy_express_huggy_(eks_press_thugfi) 2.

expression, n.—Method of expression: (a) In psychol., a method for the study of mental processes by means of their concomitant physiological phenomena; specifically, a method for the study of affective processes by means of such physiological phenomena. The method covers the use of instruments such as the automatograph, plethysmograph, splitymograph, and pneumograph, which record changes of muscular innervation, voluntary or involuntary. Opposed to it, in the psychology of the affective processes, is the method of impression, in which stimuli are presented to the observer in pairs or series, and their affective value is noted by introspection. The method of expression itself involves introspection, since this alone can guarantee the nature of the experience which the recorded physiological changes serve to 'express.' (b) In obstet.: (1) Crede's method, compression of the flaccid uterus by the hand externally applied in order to express the placenta after the birth of the child. (2) Kristeller's method, pressure and friction of the uterus made by the hand on the abdominal wall, in order to hasten the birth of the child.

expressionism (eks-presh'on-izm), n. [expres-

expressionism (eks-presh'on-izm), n. [expression + -ism.] The methods or style of the

expressionists.

expressionist (eks-presh'en-ist), n. sion + -ist.] An artist who aims chiefly to give expression to the emotions or passions.

expressive, a.—Expressive method, in psychol., same as method of *expression.
express-pump (eks-pres'pump), n. A high-

speed pump; one that makes a high number of strokes per minute.

express-wagon, n. 2. A wagen with a body framed to show parallel and upright ribs outside of the panel.

exquisit, a. and n. A simplified spelling of

exr. A contraction of executor.

exradio (eks-rā'di-ō), n. [NL. exradio (exradion-t) (preferably *exradium), from the phrase ex radio, 'from radium': see ex and *radium.]

The name proposed by Sir William Ramsay

1900 by Dorn and afterward more earefully investigated by Rutherford, who called it the radium emanation. The name exradio has never received any general recognition from workers in this branch of science and its use has been abandoned by Ramsay in his recent writings which have dealt with the action of radium emanation on water and on copper salts in

Finding the name 'radium emanation' somewhat long and clumsy, Sir William Ramsay has recently suggested 'ex-radio' as an equivalent. This name is certainly brief and is also suggestive of its origin.

Rutherford, Philos. Trans. Roy. Soc. Lond., 1904, p. 172.

exradius (eks-rā'di-us), n. [ex- + radius.] The radius of an escribed circle.

ex right (eks rit). Sold without the right, usually accorded to stockholders, of having new issues first offered to them for subscription: used in stock or bond transactions.

exrupeal (eks-rū'pē-al), n. [L. ex, out, + rupes, rock, + -all.] In iehth., the pterotic, the most lateral of the posterior bones of the eranium. Starks, Synenymy of the Fish Skeleton, p. 510.

exrx. An abbreviation of executrix.

exsanguination (ek-sang-gwi-nā'shon), n. [exsanguine + -ation.] Less of blood; bloodlessness.

exsert (eks-sert'), v. t. [L. exserere, pp. ex-sertus, thrust out: see exserted.] To pretrude or thrust out.

ex ship (cks ship). In *eom.*, same as $\star ex$

ex steamer (eks ste'mer). In com., free of all expense as far as the steamer: said of commodities seld to be experted.

ex store (eks stor). In com., without free delivery after leaving the store or warehouse:

said of goods for expert.

exstulpate (ek'stúl-pāt), v. t.; pret. and pp.

exstulpated our. exstulpating. [NL. *exstuttion for extulpating. [NL. *exstuttion inside pare, representing G. ausstülpen, turn inside out, $\langle ex, \text{out}, + "stulpare, \langle G. stülpen, turn inside out.] In zoöl., to extrude or push out, as an eversible papilla or other process.$

exstulpation (ek-stul-pa'shen), n. [exstulpate pushing out, as an eversible papilla, or any place outside of and away from the source: pushing out, as an eversible papilla, or any

other process.

An abbreviation (a) in law, of extended;

express-buggy (eks-pres'bug'i), n. A buggy extasis, n. See ecstasis, of which the body is made in imitation of that extemporaneous, a. 2. In phar., noting a preparation which is compounded at the time preparation from a ready-made, er officinal preparation.

extension, n.-Calculus of extension. Extension of phase, in statistical mech., a name given by J. W. Gibbs to the value of the integral

$$\int \dots \int dp_1 \dots dp_n dq_1 \dots dq_n$$

in which p_1,\ldots,p_n are the generalized momenta and q_1,\ldots,q_n the generalized coordinates of a system of n degrees of freedom.

extensionally (eks-ten'shon-al-i), adv. From the point of view of logical extension; with reference to the number of the contained individual objects: opposed to *intensionally. See extension, 5.

A class may be defined either extensionally, by an enn-meration of its terms, or intensionally, by the concept which denotes its terms. Nature, Sept. 3, 1903, p. 411.

extension-bolt (eks-ten'shen-bolt), n. A leng bolt for a door, controlled by a thumb-piece in

a mortised plate; a long flush bolt. extensionist (eks-ten'shon-ist), n. One who favors extension or expansion of any kind; an expansionist.

extension-ladder (eks-ten'shen-lad #er), n. See gërial *truek.

extension-lens (eks-ten'shon-lenz), n. which can be substituted for one of the lenses in a photographic objective to increase the focal length of the combination and consequently the size of the image. *Nature*, July 17, 1902, p. 280.

for the radioactive, gaseous product produced **extension-spring** (eks-ten'shon-spring), n. A by radium salts, which was first observed in spiral spring designed to

spiral spring designed to resist a pull or a strain in line with its length. It is nade by winding wire in a tight col, each turn of the spiral resting on the next. In use, the estimated pull must not exceed a point at which the spiral will be deformed. It is used to sustain a suspended weight or to resist any pulling strain.

extensive, a. 5. In agri., noting that method of farming or husbandry in which relatively small crops or returns of any kind are taken from large areas with a minimum of labor and expense. This method is profitable where land is very cheap on account of being poor or thinly settled. Oppose to *intensive (which see). Also called low farming.-Extensive feeling, fusion, idea. See *feeling, etc.

extensometer, n. In the instrument devised by Lavelle, a metal rod is surrounded by a steam-jacket whose temperature is indicated by two thermometers. The lower end of the rod rests at the bottom of the jacket, while the upper end passes through an ovable metal can which a movable metal cap which acts as a support for a spherometer (not shown in cut), by means of which the expansion of the rod

extent, n. 6t. The and the breadth (ef power, greatness, duty, er the like).

Duke. You are great in all that's good.

King. You shew the bounty Of your opinion. My extent in all things Is but to bid you welcome. Shirley, The Royal Mas-

Illusions of extent. See

Exterior polygon.

See *polygon.

exteriority, n. 3.

Exteriorization; externalization; the mental reference of sense-processes to objects in the external world. [Rare.] N. E. D.

said of the transfer of radioactivity from the radieactive substance itself to the walls of

exta (ek'stä), n. pl. [L.] In Rom. antiq., the internal organs from which the haruspices drew their auguries.

Sei. Amer. Sup., Feb.
20, 1903, p. 23523.

extern, n. 3. A young physician, or advanced medical student, who is a member of the containing vessel. the day, sleeping outside; also, one who cares for patients in the out-patient department or in their homes.

External association, lobe, point, segments. See **association, etc.

extensimeter (eks-ten-sim'e-ter), n. Same as externalist (eks-ter'nal-ist), n. [external + extensometer.

-ist.] A partizan of the theory of the external erigin ef certain forms of skin-disease. Encuc. Brit., XXXI, 568.

> externalistic (eks-ter-na-lis'tik), a. pertaining to externalism; regardful of what is merely external and not essential.

> externalization, n. 2. That process by which a phenomenen of sensation is referred to a peint in the space surrounding the body: in contradistinction to localization, by which the phenomenon is referred to some part of the body.

externe, n. See *extern, 3.

externolateral (eks-ter-nē-lat'e-ral), a. On the outer side.

externum (eks-ter'num), n.; pl. externa (-nä). [NL., neut. of L. externus, external.] In ichth., the pterygoid, a small bone connecting the palatine with the quadrate. Starks, Synonymy of the Fish Skeleton, p. 514.

extinction, n.—Curve of extinction. See *curre.
—Extinction angle, the angle which the extinction direction (see *extinction, 3) in a section of a crystal makes with some definite crystallographic line, usually either a crystallographic axis or the intersection-line of two promiums forces.

extinctive (eks-tingk'tiv), a. Tending to extinguish, suppress, or destroy.

extinguished (cks-ting'gwisht), p. a. Quenehed; put out; destroyed. Specifically: (a) In phar., rendered indistinguishable through the subdivision: noting the condition produced by triturating mercury with lard until the metallic globules are no longer visible. (b) In the petrographical investigation of rocks and minerals with a polarizing microscope, noting the complete darkening of a transparent section of a hire-

extispicium (eks-ti-spish'i-um), n. [L.] Same

extispicy (ek-stis'pi-si), n. [L. extispicium, < cxta, entrails, + specere, inspect.] In Rom. antiq., divination by inspection of entrails.

extra, n. 3. In *cricket*, a score or run not made from the bat, as a bye or a wide: usually in plural.

extra, adv. Used in trade to denote a size somewhat larger than that mentioned: as, extra elephant folio; extra foolscap octavo.

extra-articular (eks#trä-är-tik'ŭ-lär), a. Outside of, or not in relation with, a joint. extrabranchial (eks-trä-brang'ki-al), a. and n.

I. a. Lying outside of or external to the branchial arches; forming the external support of the brauchial septa.

Each main extra-branchial bar is seen to be behind the corresponding cleft, or aperture.

Trans. Zool. Soc. London, 1883, 11, 419.

II. n. A term applied by W. K. Parker to certain cartilages which take part in the formation of supports for the divisions between the gill-chambers in tadpoles, lampreys, and sharks. In lampreys the extrabranchials are the vertical bars of the branchial basket; in sharks they are the cartilaginous bands external to the rays of the branchial

The last extra-branchial sends off no cervicorn process, except from the transverse bars.

Trans. Zool. Soc. London, 1883, II. 420.

extrabronchial (eks-trä-brong'ki-al), a. Outside of, or independent of, the bronchial

tubes.

extracalycinal (eks"trä-ka-lis'i-nal), a. side of the calyx; specifically, in corals, deneting grewths not taking place within the calyx: as, extraealycinal germation, which takes place either from the sides of the polyp or in the coenenchyma.

Polyps with a well-defined edge-zone send out their buds in the edge-zone, the buds being then said to be

extracalycinal.

Philos. Trans. Roy. Soc. (London), ser. B, 1896, p. 147.

extracanonical (eks-trä-ka-non'i-kal), a. Being outside of the canon of Scripture: referring usually to books not included in the preseut canon or list of sacred books, but contem- extradition (eks-tra-dish'on), v. t. Same as poraneous with them.

Extracapsular fracture. See *fracture. extradural (eks-trä-dū'ral), a. Situated outextracapsular (-lä). [NL., < cxtra, outside, + capsula, capsule.] The outer, jelly-like, pseudapsula constitution restriction of the control of the depedia-emitting portion of the sarcode body of the Radiolaria, which is differentiated from the inner system or capsule of tough, slimy protoplasm.

extracarpal (eks-trä-kär'pal), a. Lying just without the region of the wrist or carpus. extraciliary (eks-trä-sil'i-ā-ri). a. Derived

from the outer layer of the ciliary body of the cerebellum.

extracivical (eks-trä-siv'i-kal), a. That exceeds or oversteps the province, duties, or privileges of a citizen.

extracivically (eks-trä-siv'i-kal-i), adv. Beyond the proper sphere of citizenship. extracolumella (eks"trä-kol-ū-mel'ä), n.

three-rayed car-.tilaginous tension of the tension of the bony columella. The direct branch is the extrastape-dial, the superior branch the supra-stapedial, the infe-rior branch the in-frastapedial. d

-c Columella auris of Columba livia, showing extracolumella. a, suprastapedial; b, extrastapedial; c, infrastapedial; d, stapes. (From Parker and Haswell's "Zoology.")

1-6

extraconscious (eks - trä - kon

shus), a. Outside of, apart from, or beyond consciousness; extramental. Science, Feb. 1, 1901, p. 184.

extraconstellated (eks "trä-kon-stel'ā-ted) p. a. Not included within the boundaries of any constellation, as a star. Formerly there was a number of vacancies on the celestial sphere between certain constellations, but the boundaries of the latter have now been so modified that such vacancies no longer

extracorporeal (eks"trä-kôr-pē'rē-al), a. Situated, existing, or occurring outside of the body: specifically applied to stages of a parasite occurring elsewhere than in a host.

extracorpuscular (eks#trä-kôr-pus'kū-lär), a. Situated or occurring outside of the bloodcorpuscles.

wicket than either; an extra cover-point. His position in the field.

extract, n. 8. Shoddy or loese wool fiber, obtained by tearing apart old cloth, from which the cotton or other vegetable fiber has been outside of, or beyond the mind; independent the cotton or other vegetable fiber has been remeved by means of acids and heat.—Adrenal extract, See **adrenal.—Chestnut extract, an extract of tannin prepared from the wood and bark of the *Castanea vesca,* a variety of chestnut-tree. It is largely employed in the dyeing of logwood blacks upon silk and silk-and-cotton-mixed goods.—Extract of columbo, *an extract prepared from the root of African columbo, *Jateorrhiza pathnata:* a bitter tonic, said to be free from tannic acid.—Extract style. See ***tyle1.—Hemlock-bark extract,* a material prepared on a large scale for tanners' use, by digesting the bark of the hemlock-spruce with hot water and evaporating the clear liquid to dryness or to the consistence of a soft paste.—Pituitary extract. See ***pituitary.—Suprarenal extract. Same as ***darenal extract.—Tanning extracts. See ***tanning.—Thyroid extract. See ***thyroid.**

extract. See *inyroia.
extracted (eks-trak'ted), p. a. 1. Produced by extraction. Specifically—2. Brought about by extraction, or the production of segregated descendants by Mendelian hybrids.

By pairing such hybrids with extracted albinos we should, in the Mendelian view, produce equal numbers of albinos and dark-eyed hybrids.

A. B. Darbishire, in Biometrika, Jan., 1905, p. 25.

Extracted honey, hybrid, recessive. See *honey, etc. extraction, n. 4. The production of segregated descendants by Mendelian hybrids.

Extractor, n. (g) A kitchen press for extracting the juices of meats in making meat extracts, beef-tea, etc. (h) A machine with rollera through which skins are wrung to remove the surplus water after they have been soaked. Flemming, Practical Tanning, p. 2.—Caldwell's extractor, a simple form of apparatus used for extracting fat from milk, etc. It consists of a double-walled glass tube, the inner tube having perforations and containing the mass to be extracted. The small tube at the lower end is attached to a flask containing the boiling liquid used for extracting, while a return condenser is connected with the upper end.—Soxhlet extractor. See Soxhlet's extraction *apparatus.

extraction π apparatus. extract-wool (eks' trakt-whl), n. Wool which has been freed from vegetable impurities by

some chemical process.

Not forming a part of the embryo proper; specifically, noting that portion of the vertebrate embryo which lies outside of the umbilical stalk.

extrafascicular (eks#trä-fa-sik'ū-lär), a. Lying outside the vascular bundles.

extragenital (eks-trä-jen'i-tal), a. Originating or located elsewhere than in or on the genital

extraglacial (eks-trä-glā'shial), a. Situated or occurring outside of the region occupied by a glacier. J. Geikie, The Great Ice Age, p. 644. extragovernmental (eks" trä-guv-ern-men'-tal), a. Being beyond the province, powers, extraperineal (eks" trä-per-i-nē'al), a. Being beyond the jumits of the patriarchal form of family. extrapelvic (eks-trä-pel'vik), a. Being outside of, or unconnected with, the pelvis. extraperineal (eks" trä-per-i-nē'al), a. Being or proper sphere of government.

extra-illustrate (eks-trä-i-lus'trāt), v. t. add illustrations to (a book) after it is printed, by pasting or binding them in.

extra-illustration (eks-trä-il-us-trā'shon], n. extraphysiological (eks"trä-fiz"i-ō-loj'i-kal), Illustrations of a book after its completion,

a. Not in accord with, or not subject to, physiological independent of the periodical description of the perio

by binding in cuts or engravings.

extrajural (eks-trä-jö'ral), a. Same as extrajural (eks-trä-plā-sen'tal), a. Independent of the placenta.

extralateral (eks-trä-lat'e-ral), a. Situated extraplanetary (eks-trä-plan'e-tā-ri), a. Same or extending beyond the sides; specifically, noting the right of a mine-owner to the extraplanetary.

Extrapolar region. See *region.

extralegal (eks-trä-le'gal), a. Being beyond or outside of the domain of law: sometimes used in the sense of illegal,

extramarginal (eks-trä-mär'ji-nal), a. In mental pathol., below the limen of consciousness; infraconscious. See the extract.

Those [disturbances] that are sub-dominant bring about marginal or sub-conscious psychical states, and finally those impulses or irritations which are infra-dominant act, in the psychical sphere, below the threshold of consciousness and bring about infra-conscious or extra-mar-

fracting mineral when its axes of elasticity coincide with the planes of the crossed Nicol prisms. Geikie, Textbook of Geol., p. 125.

extra-cover (eks'trä-kuv"er), n. In cricket: extramatrical (eks-trä-mat'ri-kal), a. [L. (a) A fielder who plays between cover-point cxtra. outside, + matrix, matrix (the host and mid-off, but farther from the batsman's plant), +-all.] In bot., lying outside of the hest plant: applied to that part of a fungus or parasitic growth which is so situated. See

of mental apprehension.

The rejection, not merely of things in themselves, hut of extra-mental realities in general would imprison us within our own consciousness and make the latter coex-tensive with the universe. C. A. Strong, Why the Mind has a Body, p. 214.

extrameridian (eks"trä-mē-rid'i-an), a. In astron., not made on the meridian, as an observation; used out of the meridian, as equatorials, almucantars, etc.

extrameridional (eks#trä-mē-rid'i-ō-nal), a.

Same as *extrameridian (which see).

extrametrical (eks-trä-met'ri-kal), a. In pros.,

same as hypermetric (which see).

extrametropolitan (eks"trä-met-rō-pol'i-tan),

a. Beyond the limits or jurisdiction of the metropolis.

extramorainic (eks#trä-mo-ra'nik), a. Situated outside of or beyond the terminal moraine of a glacier: usually applied to sedimentary deposits near a meraine but not preduced by the ice-sheet. *Geikie*, Text-book of Geol., p. 1339.

extranatural (eks-trä-nat'ū-ral), a. Outside the operation of natural laws: as, extranatural

agencies. Huxley.

extrane (eks'trān), a. Not belonging or proper to a thing; foreign; extraneous; specifically, in psychol., beyond the range of the hypnotic rapport. [Rare].

extraneous, a. 2. In music, not belonging to a standard scale or key; chromatic.—Extraneous body. Same as foreign body (see foreign, 4).—Extraneous root. See *root1.

extra-Neptunian (eks"trä-nep-tū'ni-an), a. Beyond the planet Neptune; referring to objects, especially hypothetical planets, more distant than Neptune from the sun.

some chemical process.

extracystic (cks-trä-sis'tik), a. Situated outside of a cyst or a bladder. Buck, Med. Handbook, V. 401.

extradition (cks-tra-dish'on), v. t. Same as extradite (which see).

extradural (cks-trä-dū'ral), a. Situated outside of the orbit (in any sense of that word).

Extraordinary index of refraction, tithe, wave. See **index, *tithel, **wavel.* (cks*'trä-ō'vāt), a. and n. I. a. Situated outside of the ovum or egg.

II a. A part of the contents of an egg ex-

II. n. A part of the contents of an egg extruded through a rupture in the membrane. In certain circumstances extra-ovates are capable of development.

It often happens that the extra-ovate receives its nucleus later, obtaining in that case a still smaller fragment, but, nevertheless, the outcome is a perfectly normal embryo.

J. Loeb, Biol. Lectures, 1893, p. 52.

In certain cases the structure was further complicated by the appearance of extrafascicular zoncs exterior to the whole stellar system. Encyc. Brit., XXXI. 419. extragenital (eks-trä-jen'i-tal), a. Originating or located elsewhere than in or on the genital organs. extraglacial (eks-trä-glā'shial), a. Situated or occurring outside of the region occupied by a glacier. J. Geikie. The Great Lee Age p. 644 extrapellic.

outside of, or away from, the perineum.

extraperiosteal (eks "tra-per-i-os'tē-al), a.

Being outside of, or independent of, the peri-

the side of a lode or vein from his claim beyond the side-lines, but within the vertical planes through the end-lines.

extralegal (eks-trä-le'gal), a. Being beyond or outside of the domain of law: sometimes an empirical formula beyond the limits of the control of the domain of law: sometimes an empirical formula beyond the limits of the control of data from which the formula has been deduced. The results are usually more or less doubtful.

See interpolate.

extrapulmonary (eks-trä-pul'mō-nā-ri), a.

Being outside of, or independent of, the lungs.

Extrapulmonary gill. See *gill.

extra-red (eks-trä-red'), a. and n. I. a. Hav-

ing a wave-length greater than that of the red rays of the spectrum; belonging to the infrared portion of the spectrum.

II. n. The invisible portion of the spectrum which lies outside of the region occupied by the red rays and of greater wave-length.

extrasacerdotal (eks "trä-sas-er-do'tal), a.

Being outside the priestly order. extraspectral (eks-trä-spek'tral), a. Beyond Exuberant granulation. See *granulation. the boundaries of the visible spectrum: said exudate, v. t. II. intrans. In bot., to yield

of lines or bands lying in the infra-red or ultra-violet regions.

extrastapedial (eks-trä-sta-pe'di-al), n. In ornith., the direct, external eartilaginous extension of the columella auris.

extratelluric (eks-trä-te-lū'rik), a. Not found among the constituents of the earth: as, extra-

telluric matters. J. N. Loekyer. extraterrene (eks"trä-te-rēn'), a. Extraterrestrial.

extratheistic (eks "trä-thē-is'tik), a. outside of, or independent of, theism or theistie inaniry

extrathermodynamic (eks "trä-ther-mo-dinam'ik), a. Being beyond heat-energy or not due to the transformation of heat into other forms of energy, as the losses of heat by an engine which are not directly due to the work done by the engine.

extratribal (eks-trä-tri'bal), a. Relating to individuals or social groups outside of the

tribe

extratubal (eks-trä-tū'bal), a. Situated outside of a tube.

extratympanic (eks"trä-tim-pan'ik), a. Being outside of the tympanum or drum of the ear.

extravaginal (eks "tra-vaj'i-nal), a. Being outside of, or unconnected with, the vagina.

extravasate, a. II. n. The fluid which has been extravasated.

extravasated (eks-trav'a-sā-ted), a. 1. See extravasate.—2. In geol., poured forth from a subterranean source in a molten state: used in description of certain eruptive rocks.

extravasation, n. 2. In geol., the protrusion of molteu lava, either primarily from interior reservoirs, or locally from the interior of an uncongealed flow, through eracks in its hardened erust.

extraventricular (eks/trä-ven-trik'ū-lär), a. Not contained in a ventriele either of the heart or of the brain.

extra-violet (eks-trä-vi'ō-let), a. and n. I. a. Of shorter wave-length than the violet-rays of the speetrum; ultra-violet.

II. n. All that portion of the spectrum which is of shorter wave-length than the extreme violet-rays.

extravisceral (eks"trä-vis'e-ral), a. In embryol., not situated within the visceral arch.

extrazodiacal (eks " trä - zō - dī 'a - kal), a. In astron., situated outside the zodiae.

extreme, n.—Length and breadth extreme, in ship-building, the greatest length and breadth of a vessel measured to the extreme outward portion of the hull, trinsic association. Same as external *association.

- Extrinsic variation. See *rariation.

extro-. [A prefix: see extra-. Compare intro-A prefix occurring in a few words and intra-.] formed in antithesis to werds in intro-. extropical (eks-trop'i-kal), a. [ex- + tropic

+ -all.] Pertaining to the regions outside the tropies.

extroversate (eks-tro-ver'sat), v. t.; pret. and pp. extroversated, ppr. extroversating. [extro-+ L. versare, turn: see versant.] To turn outward.

The rather low, very powerful mandible is remarkable for the angular aspect of its symphysis, and of its posterior angles, which are prominent, often extroversated, and which extend on either side in a kind of voluminous heel.

Smithsonian Rep., 1895, p. 510.

extrovert (eks-tro-vert'), v. t. [extro- + L. rertere, turn.] To turn from within outward. See the extract.

The orifice admitted the thumb with case, and the hladder mucous membrane was extroverted through it.

Therapeutic Gazette, Feb. 15, 1903, p. 131.

extrusive (eks-trö'siv), a. and n. [L. extrusus, pp. of extrudere, extrude, + -ive.] I. a. Capable of being extruded or thrust out; that tends or serves to extrude or thrust out or forth; specifically, in petrog.. erupted or extruded; applied to igneous rocks. Same as *effusive.

II. n. That which is extruded; specifically,

in petrog., same as *effusive (which see): con-

trasted with intrusive.

extubate (eks-tū'bāt), v. t.; pret. and pp. extubated, ppr. extubating. [L. ex, out, + tubus,

tube, + -ate².] To remove the sellarynx) after intubation (which see).

extubation (eks-tū-bā'shon), n. Extraction or expulsion of the laryngeal tube used in intubation.

an exudate.

Abundantly provided with sessile exudating glands. *U. S. Nat. Herb.*, VIII. 298.

Exudation vein. See *vein.—Plastic exudation, an exudation which tends to become organized.

Exurgat money. See *money. ex-votive (eks-vō'tiv), a. [L. ex voto, from a vow, + ive.] A needless substitute for votive. ex warehouse (eks war'hous). In com., same as *ex store.

exx. A contraction of executrix.

ey, n. and v. A simplified spelling of eye.

ey, n. and v. A simplified spelling of eye.
eyel, n., 9. (q) In petrog., same as *auge². (r) That one of the three scars or spots at the stem end of a cocoanut at which the embryo is located. (s) In painting, the peculiar form assumed by a break in a fold of drapery; notably in the works of Dürer and the early German masters. (t) An opening in a heddle through which thread or yarn is drawn. (u) Same as *eye-box.
13. In some echinoids, a minute pigmented nodule, probably without visual functions, situated at the end of an ambulaerum.—14. In photom. the spectral range of wave-lengths to

photog., the spectral range of wave-lengths to which a photographic plate or film is sensitive

If the spectral colours of red, orange, yellow, green, blue, and violet are thrown upon an ordinary photographic plate, . . . it is at once seen that the enulsion is not sensitive to the entire range of the spectrum, and that the different colours which affect it do not do so equally with one another. This selective capacity may be called the "ane" of the relate. with one another. This selective capacity may be called the "eye" of the plate. Jour. Roy. Micros. Soc., Dec., 1904, p. 712.

with one amother. This selective capacity may be caned the "eye" of the plate.

Jour. Roy. Micros. Soc., Dec., 1904, p. 712.

Appendages of the eye. See *appendages.— Cephalic eye, a visual organ found in the head of lamellibranchs during the larval stage, and in adult gastropods. Philos. Trans. Roy. Soc. (London), 1903, ser. B. p. 311.—Dorsal eye. (a) See dorsal eye, under dorsal. (b) In chitons, one of the numerous pigmented spots scattered either irregularly or symmetrically over the onter surface of the exposed area of the shell. Same as *shell-eye.—Elliott eye (nsut.), an eye worked over a thimble in a hawser or cable cnd.—Eye-agate. See *agate2.—Eye formula, a formula which expresses the arrangement of the simple eyes in the different groups of Arachaida.—Eye of the storm, the clear and calm region sometimes found in the center of a completely developed cyclone of extensive area, especially at sea.—Eye of the wind, the precise point from which the wind is blowing.—Hare's eye, Same as lagophthalmia.—Larval eye, in gastropods, a pigmented visual organ situated immediately behind the velum.—Marginal eye, in triclad and polyclad turbellarians, one of the eyes situated along the margin of the body. See *brain-eye.—Pallial eye, one of the numerous ocelli or pigmented spots, sensitive to the action of light, which are developed on different parts of the mantle of some vertebrates in addition to the more frequently found pineal eye.—Psendocone eye, an insect eye in which the crystalline lens or cone is wanting, its place being taken by four cells filled with a transparent finid and a smaller nucleated protoplasmic portion.—Selenium eye, a device provided with a selenium resistance and two sides for eyelids, and sensitive to light.—Tentacular eye, in polyclad turbellarians, one of the eyes situated upon the tentacles. See *brain-eye.—Thermoscopic eye, an eye-like organ in certain cephalopods which has been regarded as an organ for perceiving differences in temperature.—Unpaired eye, a single eye, lying in the medi

eye-animalcule (ī'an-i-mal"kūl) n. A euglenalike, usually green, organism, having a colored eve-spot.

eye-area (i'ā'rē-ā), n. In decorative art, the eye-device, which includes the eye, the eye-lashes, and often the cheek-fold. Haddon, Evo-

lution in Art. p. 36. eye-balm (i'bām), n. The goldenseal, Hydrastis Canadensis, used for affections of the eyes. eye-band (ī'band), n. A boat's mast-band fitted with one or more eyes or rings for holding repes or blocks.

eye-bender (1'ben"der), n. A machine for forming loops or eyes on the ends of bars, rods, serew-bolts, etc., by bending the end of the bar round a forming-tool; an eye-bolt machine. It is made in various forms, from that of a small hand-power machine to large and powerful machines for bending the ends of rods and bars into crooks, loops, and

eye-block (ī'blok), n. In marine hardware, any form of metal block having a metal ring or eye at the top.

eye-bolt, n.—Nnt eye-bolt, an eye-bolt in which the bolt is plain except at the end where it has a thread and nut.—Rivet eye-bolt, an eye-bolt in which the bolt is a plain rivet and is fastened in place in a rivet-bole and the end upset as in ordinary riveting.—Screw eye-bolt, an eye-bolt in which the bolt is a wood screw.—Shoulder eye-bolt, any kind of eye-bolt having a shoulder under the eye for obtaining a firmer hold when screwed or rivetal in place. eted in place.

tube, + -ate².] To remove the tube from (the eye-box (i'boks), n. A box built in a leach and larynx) after intubation (which see). reaching from bottom to top: used to ascertain the depth of liquor contained in the leach. Modern Amer. Tanning, p. 67.

ern Amer. Tanuing, p. 67.

eyebright, n. Several plants which are either reputed remedies for diseases of the eye, or, more frequently, have bright flowers, usually with a central spot suggesting the pupil of the eye: (a) Any plant of the genus Euphrasia. (b) The sundew, Drosera rotundsfolia. (c) The Indian-pipe, Monotropa uniflora. (d) The pimpernel or poor-man's weather-glass, Anagallis arrensis. (e) The germander speedwell, Feronica Chamxdrys: also called angel's-eye, bird's-eye, and god's-eye. (f) The bluet or innocence, Houstonia cærulea. (g) The officinal lobelia or emetic-weed, Rapuntium infatum.—Red eyebright, Odontites Odontites, a plant of the figwort family related to Euphrasia, native of Europe and Asia and naturalized in Maine and Nova Scotia.—Spotted eyebright, Eupa-



Spotted Eyebright (Enpatorium maculatum).
Two fifths natural size.

(From Britton and Brown's "Illustrated Flora of the Northern

torium maculatum, a handsome American species, with pink or purple flowers, found from New York to Kentucky, and westward to Minnesota and New Mexico; also, in British Columbia: so called from the bright flowers and spotted stems. Also called spotted joe-pye weed and spotted boneset.

eyebrow, n. 4. In arch., a molding over a window; a window-cap: in American usage, a light dormer without vertical sides set in a roof. eye-cap (i'kap), n. A tuft of scales, sometimes present on the basal joint of the antenna of microlepidopterous insects, which serves as a eap for the eye. Proc. Zool. Soc. London, 1897, p. 142.

eye-cup (ī'kup), n. A cup or glass the rim of which is curved to correspond to the contour of the orbit: used in the application of lotions to the conjunctiva.

eye-dot (1'dot), n. In various invertebrates, one of the pigmented spots of supposed visual function, sometimes covered by a lens; an eyespeek. Such spots are found in a variety of

situations on the body.

eye-end (i'end), n. That end of a telescope to which the eye is applied.

eye-fly (i'fli), n. A minute fly, possibly a Hippelates, which in East India in summer-time swarms into the eyes of human beings and domestic animals. Kirby and Spence, Entomology, II. 130.

eye-ground (I'ground), n. The fundus of the eye, or the back part of the interior of the eyeball which can be seen on ophthalmoscopieal examination. Jour. Exper. Med., Oct. 25, 1900, p. 196.

eyelet (i'let), v. t. [eyelet, n.] To furnish or fasten with an eyelet.

eyelet-machine (ī'let-ma-shēn"), n. In sewingeyelet-machine (I'let-ma-shēn"), n. In sewing-machine work, an overseaming machine fitted with a rotary feed. This feed-mechanism causes the fabric to move in a circle under the needle, and (since the needle has a reciprocating sidewise motion between stitches) the combined motions of feed and needle-bar produce a series of radial stitches placed round a center, this center being the opening of an eyelet. The opening may be cut in the fabric and the radial stitches placed round it, to bind the edge of the eyelet. The stitching can also be locked or puried into place on the fabric. A counting stop-motion is used on some machines, the machine antomatically stopping when the required number of stitches has been made. Eyelet-machines are also used to cover and sew into place metal eyelets and reinforcing-rings, to do many forms of decorative stitching.

eyelet-raiser (ī'let-rā zer), n. In laundrywork, a hand-tool which resembles a punch, used for raising and forming the eyelet-holes in shirt-fronts.

eyelet-set (i'let-set), n. A hand-punch for

inserting an eyelet and fixing it in place.

eyelet-stitch (i'let-stieh), n. In sewing-machine

work, the method of placing the stitches in

radial lines round an eyelet-hole or over a metal reinforcing ring or eyelet. See *eyeletmachine.

eye-line, n. 2. In some primitive forms of trilobites, one of two raised lines which extend outward from near the forward end of

the glabella to the eyes. **eye-minded** (i'mīn'ded), a. In psychol., having a marked tendency to carry on mental operations (remembering, thinking, imagining. dreaming, etc.) in terms of visual images; of a visual, as opposed to an auditory or motor, type of mental constitution. A person is called eye-minded, in a narrower sense, when his memory is chiefly or exclusively visual, and, in a still narrower sense, when his verbal memory is thus visual in type.

The individual may be eye-minded or ear-minded or

motor-minded.

E. B. Titchener, Outline of Psychol., p. 293. eye-mindedness (i'min ded-nes), n. In psychol., a type of mental constitution characterized by the predominance of visual processes as vehicles of the complex mental functions (thought,

memory, etc.)

eye-panel (i'pan'el), n. A panel-shaped decorative element which has developed through conventionalization from the representation of an eye. Haddon, Evolution in Art, p. 23.

eye-pedicel (i'ped"i-sel), n. A stalk or pedieel bearing an eye, as in various crustaceans. Also *eye-peduncle.

eye-peduncle (i'pē-dung"kl), n. Same as *cycpedicel.

eyepiece, n. 2. In entom., the eye-covering in pupæ of lepidepterous insects. A. S. Packthe pupe of lepidopterous insects. A. S. Packard, Text-book of Entom., p. 631.—Achromatic eyepiece, any eyepiece in which chromatic aberration is approximately eliminated.—Comet eyepiece, a telescopie eyepiece, of low power and large field, especially adapted for use in the observation of comets and similar objects.—Compensating eyepiece, an ocular used with apochromatic objectives, and so constructed as to compensate for errors of aberration not entirely eliminated in the objective itself.—Compound eyepiece, an ocular system which consists of two or more lenses.—Continental eyepiece, an ocular the mounting of which consists of a tube of uniform diameter.—Deep eyeplece, an eyepiece which magnifies the real image ten or more

diameters.—Goniometer-eyepiece, an eyepiece designed for making angular measurements, especially of the angles of crystals in the microscope field.—High eyepiece, an eyepiece of considerable magnifying power.—Index eyepiece, an eyepiece provided with one or more adjustable points in the plane of the real image for locating and making rough measurements of the position of objects in the field.—Keliner's eyepiece, an ocular lens system of the Ransden type in which the cye-lens is made achromatic and the field-lens is placed in the front focal plane of the former. Also called orthoscopic ocular.—Monocentric eyepiece, an ocular lens system for telescopes, designed by Steinheil. See the extract.

The Steinheil monocentric eyepiece is a triple glass, achromatic, and composed of two flint menisci of different thicknesses capping a double convex crown on both sides.

Todd, Stars and Telescopes, p. 341.

Nelson's eyeplece, a microscopic ocular provided with a micrometer-screw and cross-hairs.—Orthoscopic eyeplece, an eyeplece in which the field-lens is in the focus of the achromatic eye-lens. See Kellner's *eyeplece.—Parfocal eyepleces, a set of eyepleces so constructed as to be interchangeable without readjustment of the focus of the microscope.—Periscopic eyeplece, a positive ocular lons system which consists of a triple eye-lens and double convex field-lens.—Polarizing eyeplece.

(a) A spectroscopic eyeplece. (b) An eyeplece with right-angled reflection-prism attached to the eye-lens, so that the observer looks in at the side, perpendicularly to the axis of the instrument.—Projection-eyeplece, a lens system which corresponds to the eyeplece of an ordinary microscope, but is used in conjunction with the objective in the projection of microscopic objects upon the screen.—Searching eyeplece, in micros., an eyeplece of low power and large field, adapted to the ready finding of object, under the microscope rather than to the detailed observation of them when found.—Solid eyeplece, a negative ocular consisting of a single solid cylinder of glass with curved end-faces, the face of lesser curvature serving as field-lens, that of greater curvature as eye-lens: designed by Tolles.—Spectral eyeplece, sale as field-lens, that of greater curvature as eye-lens: designed by Tolles.—Spectral eyeplece, sane as spectroms of the real minages.—Scauroscopic eyepiece, an attachment to a telescope or microscopic which consists of a more or less complete spectroscopic whelch consists of a more or less complete spectroscopic with quartz plate, used in the eyes in a bad light, or from use of to the eroreting glasses when mnsen and combined to the real manual plants. The summatic eyeplece, a nearly finding of objects in a field of high pound in the plants of the eyes in a bad light, or from use of the reflex disorders are, at times, eyes time (i'tstub, n. Sterner.—Yes the reflex disorders are, at times, eye-tube (i'tūb), n. The tube o

drachnidæ, are placed. Annols and Mag. Nat. Hist., Nov., 1903, p. 505.

eye-purple (i'per"pl), n. Same as rhodopsin.
eye-ring (i'ring), n. In optics, the exit-pupil of a lens system; a circular space within which the eye of the user of an optical instrument must be placed in order to utilize fully the field of view. *P. Drude*, Theory of Optics, p. 77.

eye-root (î'röt), n. Same as *eye-balm. eye-shield (i'sheld), n. A covering for the eyes designed to protect them frem injury, as by flying particles, by mud and dust in riding

in automobiles, etc.

eye-strain (ī'strān), n. Weakness resulting from excessive use of the eyes, from use of the eyes in a bad light, or from use of them withont correcting glasses when muscular imbalance, astigmatism, or other form of ametropia is present. Headache, dyspepsia, and various other reflex disorders are, at times, due to it. See *struc-

eye-tube (î'tūb), n. The tube of the eyepiece in a telescope or other optical instrument.

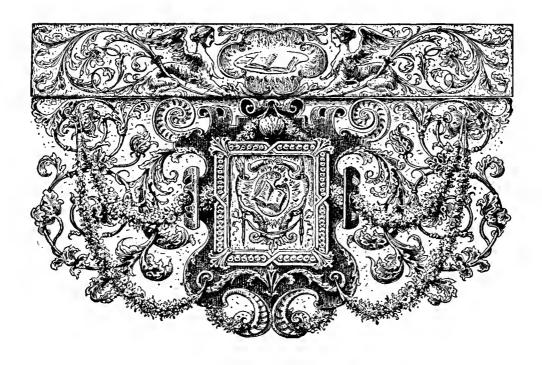
eye-tubercle (ī'tū"ber-kl), n. One of paired

prominences on the exterior of the valves of the Ostracoda which indicate the position of

eye-tumulus (i'tū"mū-lus), n. The raised portion of the cephalothorax of certain spiders which contains the eyes. Proc. Zool. Soc. London, 1896, p. 742. eye-wattle (i'wot'l), n. A fleshy excrescence lying near or about the eye of a bird.

eye-wire (i'wir), n. Wire drawn with a concave side, for making the loops to hold the

eye-worm (i'werm), n. A nematoid worm, Fi-laria lentis, found in the human capsula len-tis; also, F. loa, which occurs in the conjunc-







5. An abbreviation (d) (2) in a ship's log-book, of furlong; a snip's log-book, of furlong;
(e) In elect., of farad; (f)
of furthing; (g) of fathom;
(h) of field of vision; (i) of
florin; (j) of folio; (!) of
foot; (l) in music, of forte
(loud).—7. [l. e.] In elect.:
(a) A symbol occasionally used for magnetomotive force, in ampere-turns. See magnetie
*circuit. (b) A symbol of magnetic reluctance.

A A symbol of focal distance: F' first focal

—8. A symbol of focal distance: F', first focal distance; F', second focal distance.—F system, A system of rating the diaphragms or stops for lenses in which the designations indicate the ratio between the diameter of the opening and the focal length of the lens.-The three F's. See three.

fa (fä), r. i. [fa, n.] To sound the fourth note of the seale in solmization: as, do, re, me, fa, sol (or soh), etc. [Nonce-word.]

Pet. I will carry no crochets: I'll re you, I'll fa you; do you note me?

First Mus. An you re us and fa ns, you note us.

Shak, R. and J., iv. 5.

fabaceous, a. 2. Belonging to the plant family Fabaceæ.

Fabian, a. 2. Designating a variety or school face1, v. t. 6. In post-office usage, to arrange of socialism more flexible and opportunist than the socialism of Marx and the International, and laying emphasis on municipal experiments in public ownership. See *Fabian Society.—Fabian Society, a prominent socialistic society founded in London about 1884.

In municipal politics, again, especially in London, the Fabian Society, founded in 1884 by a group of young literary men, had exercised some influence; but, if we compare the "Fabian Essays" of 1889 with the later utterances of their writers, it becomes clear that these Socialists have become for the most part hearty Radical politicians.

Encyc. Brit., XXXII. 668.

II. n. A member of the Fabian Society. fabianine (fā'bi-an-in), n. [Fabiana + -ine².]
A coloring-compound contained in the violet flowers of pichi, Fabiana imbricata: said to be identical with crocin.

Fabianism (fā'bi-an-izm), n. The socialism advocated by the *Fabian Society (which see). **Fabianist** (fā'bi-an-ist), n. A member of the *Fabian Society (which see).

fabianol (fa'bi-an-ol), n. [Fabiana + -ol.] The odoriferous constituent of the volatile oil of the dried leafy twigs of Fabiana imbricata. It imparts its characteristic odor to the drug

fabiculture (fab'i-kul-tūr), n. [L. faba, bean, + cultura, culture.] The cultivation of beans

or other leguminous plants.

fabric, n. 5. In petrog., the pattern of a rock produced by the shape and arrangement of the crystalline or non-crystalline parts: distinguished from the granularity or size of the parts, and the crystallinity or degree of crystallization. (See quantitative classification) (See quantitative

fication of igneous rocks, under *rock1.)

fabricative (fab'ri-kā-tiv), a. [fabricate + ive.] Possessing power to fabricate or make.

Margaret Fuller.

fabula (fab'ū-lä), n. [L. See fable.] In old face-hardening (fās'här"dn-ing), n. The prolaw: (a) A covenant or contract. (b) Among the Lombards, etc., a marriage contract; a will, façade, n. 2. In organ-building, same as *pros-

face (n, n), 15. (c) See the extract.

The demands were for a rise of 15 per cent, in wages, an eight hours' shift from bank to bank, the payment of wages twice a month, and other concessions. On 18th May the Coal Association at Essen agreed to an eight hours' day "at the face," with certain exceptions.

Encyc. Brit., XXXIII. 26.

21. In geom., the angle of two consecutive edges of an angloid .- 22. In arch., the outer and generally vertical surface of any part of a building, whether a single stone or course of stones, or a whole side, front, or rear. When a wall is not concealed within by plastering and woodwork

t may even be spoken of as having an outer and an inner face. Before a stone is put in place each one of its surfaces may be called a face, but when placed in the wall it has two beds, two joints (vertical), a face, and a back. For a face of a building in the sense of front, see façade.

23. In turpentine orcharding, the surface of wood exposed on the side of the trunk of the prine to cause the resin to flow. There may be a cause of comedones and black back is have a size before a supposed to be an occasional cause of comedones and black back is have a size before a supposed to be an occasional cause of comedones and black back is have a size before a supposed to be an occasional cause of comedones and black back is before a stone is put in place each one of its surface.

The surface is the surface of supposed to be an occasional cause of comedones and black back is before a stone is put in place each one of its surface.

The surface is the surface of supposed to be an occasional cause of comedones and black back is before it is the surface of its interval in the surface pine to cause the resin to flow. There may be two or three faces to a tree. A crop consists of about 10,500 faces.—24. In fort., the outer side of a bastion or lunette: in contradistinction to the inner side or flank .- 25. In mech .: (a) A smooth or polished surface. side of a slide-valve which slides on the seat; the seat or surface on which a slide-valve travels. (c) The contact-surface of a valve which lifts from its seat to open the passage

which lifts from its seat to open the passage through.—Dry face, in turpentine-making, that portion of the face of a bled tree which has become upproductive.—Heavy face, a term descriptive of a bold-faced printing-type like this:

THIS IS TITLE TYPE ON 6-POINT BODY. Often called fat-face.—To lose face, to lose one's credit, reputation, good name, or self-respect; be or feel humiliated in regard to one's standing in the eyes of others.—To save one's face, to act in such a way as to preserve one's credit, standing in the eyes of others, or one's self-respect.—A slap in the face, a sudden rebut or insult.

face¹, v. t. 6, In post-office usage, to arrange

(letters) with their faces in one direction: as, to face the stamped and paid letters .-To give a false face or surface to; cause to imitate something else, frandulently; specifieally, to color (tea or coffee) so as to give a false impression of superior quality.

Paddy husks and many kinds of leaves faced with China clay, soapstone, catechn, and black lead also found their way abundantly into tea. On the European side, exhausted leaves were again dried, impregnated with eate-elu and gum, and faced up to do duty as fresh tea.

Encyc. Brit., XXIII. 101.

8. In hort., to place a layer of apples (usually with the stem ends uppermost or outermost) next the head of (the barrel), so that the face-work (fas'werk), n. In masonry, that part fruit will have a uniform and attractive ap-

pearance when the barrel is opened. face-bedded (fās'bed"ed), a. In masonry, noting a stone or course in which the plane of stratification of the stone is placed parallel with the face of the masonry, and not perpendicular to the face and horizontal, as is now usual.

Facial chorea. Same as *tic non-douloureux.—Facial chorea. Same as *tic non-douloureux.—Facial neuralgia. See *neuralgia.—Facial spasm, intermittent contraction of the muscles supplied by the facial usual.

face-bone (fās'bon), n. The malar bone. face-chuck (fās-chuk), n. Same as face-plate³. face-cog (fās'kog), n. A cog or tooth which A cog or tooth protrudes from the face of a wheel instead of projecting radially from the rim; a pin; one

of the teeth of a pin-gear. face-cutter (fas'kut"er), n. See *milling-cut-

Faced card. (b) A card which is found face upward in the pack: distinguished from one which is faced after it has left the dealer's hand and which is called an exposed card.

face-harden (fās'hār'dn), v. t. To make hard on the surface; harden a thin layer on the face of (a piece of metal); subject to a face-hardening process.

cess of hardening the face or outside surface of a piece of metal by the addition of carbon or some other hardening element. Usually the or some other hardening element. Usually the plate to be hardened is placed in a kind of oven with carbon in some form in contact with the surface it is desired to harden. This is then subjected to a high heat for a length of time depending on the depth to which the hardening is to penetrate. By this treatment cementation takes place and the plate is given a very hard surface. Forcalint (figicint) 2. A joint in the sense

face-joint (fas'joint), n. A joint (in the sense of a division between stones or bricks) which shows on the finished side of the wall, and is treated carefully with a view to the appearance

of the masonry. face-milling (fas'mil"ing), n. The operation of machining metal pieces with a mill having teeth on its face rather than on its periphery, as in the usual form of mill.

blackheads in human beings. face-plate, n. 4. The cover of a journal-box on a railroadear.—5. The outer plate, or web, which joins the rim and the hub of a car-wheel .- Face-Face-mite (Demodex facer, N. 4. A post-office em-

ployee whose business is to a, mite, greatly en-larged; δ, mites in sebaceous gland.

arrange letters with their face-symbol (fās'sim" bol), n. In crystal., the symbol by which a crystal face or plane

is designated.

facet1, n. 5. In the embryo of Pentastomum, the circular thickening left on the detached integument at the site of the dorsal cone after the separation of the embryo from the integument. Also facette. Compare *eervieal cross.

facetiation (fa-sē-shi-ā'shon), n. [*facetiate (< faceti-ous + -ate²) + -ion.] The making of fun; the subjection of a matter to facetious treatment.

After some lumbering facetiation about "those countless volumes of contemporary biography wherein success-ful men of business are frequently invited to insert their lives and portraits," he goes on to assure us that "Emer-son's Representative Men were of a different stripe from

men.

W. D. Howells, in N. A. Rev., April, 1901, p. 627.

face-wall (fās'wâl), n. A wall built to sustain the face of an excavation: opposed to a retaining wall, which sustains material which has been placed behind it

of a wall, or the like, which forms the exterior, especially of the side exposed to view. It is generally composed of better material and is more carefully laid up. Thus, in a brick wall, the face-work may be of what are called face-brick and laid with thinner foints.

faciend (fa'shi-end), n. [L. fociendum, neut. fut. part. of facere, make, do: see fact.] Any magnitude or symbol which is operated upon:

thus, a multiplicand is a faciend.

facies, n. 5. Specifically—(a) In geol., the entirety of the lithologic and paleontologic characteristics resulting from the external conditions which determine the existence of any particular fauna or flora for a given region. These characteristics are defined by physical conditions, such as climate, altitude, or bathymetry, and the geological or chemical nature of the medium. (b) In phytogeog., the physiognomy or characteristic appearance of a vegetation, depending upon the one or sev-eral species which predominate in it; or, the characteristic growth itself. A plant formation has one facies when there is one controlling species, and soveral when there are several such. See *character-plant. (c) In petrog., the different modifications of one mass of igneous rocks, distinguished by their texture, or by their mineral or chemical composition: as, granitic and porphyritic facies of a dike; a gabbro facies of a diorite mass.—
Adenoid facies, a dull, stupid expression, with habitually open mouth, characteristic of children with extensive adenoid growths in the nasopharynx.— Facies abdominally, a pinched, drawn face, expressive of severe pain and anxiety, seen in sufferers from disease of the abdominal viscera, usually with peritonitis.— Facies cadaverica. Same as facies Hippocratica (see Hippocratic face).—Facies ovarica, a pale, drawn face, with thin and compressed lips, characteristic of a woman suffering with disease of the ovaries.—Facies uterina, a facies similar to the ovarian, observed in sufferers from disease of the uterus. texture, or by their mineral or chemical com-

facies-suite (fā'shi-ēz-swēt), n. A series of modifications of one rock-mass in which the parts vary in composition or in texture, or both. It is distinguished from a rock-suite, which consists of rocks forming distinct geological bodies, crupted at different times, but genetically related to one another (consangnineous). *Brögger*, 1894.

facilitative (fā-sil'i-tā-tiv), a. [facilitate +

-ive.] That serves to facilitate.

facing-head (fā'sing-hed), n. In machine-shop practice, an attachment or supplementary tool for a boring-machine used in facing or finishing cylindrical work.

facing-lathe (fā'sing-lā $_{
m TH}$), n. A metal-working lathe having a head-stock and tool-carriage

only. There is no tail-stock and the carriage, mounted on the bed, can be placed directly in front of the work on the chuck. It is used in facing or finishing flat surfaces or parts of the work. A similar lathe for finishing wood surfaces is called a face-lathe.

facing-machine, n. 2. In marble-working, a machine for holding flooring-tiles in position while they are being faced or rubbed down to a true surface on a rubbing-bed. It consists of a group of vertical, weighted, and populate pols sumported factorize, v. t. 2. To resolve into factors.

screws, and studs.

facing-slip (fā'sing-slip), n. In postal service a slip of paper accompanying each package of letters, showing the destination of the package, the point of departure, the date, and the name

of clerk sending it.

facing-tool (fā'sing-töl), n. In machine-shop practice, a cutting-tool in a boring-mill or an end-mill or other cutter in a milling-machine, used to face or finish the exterior surface of a piece of work.

faciobrachial (fā/si-ō-brā/ki-al), a. [L. facies, face, + brachium, arm, + -all.] Relating to faculous (fak/v̄-lus), a. [facula + -ous.] 1 both the face and the arm.

Abounding in faculæ: applied to regions o

faciocervical (fa″si-ō-ser′vi-kal), a. [L. facies, face, + cervix (cervic-), neck, + -al¹.] Relating to both the face and the neck.

faciolingual (fa"si-o-ling gwal), a. [L. facies, face. + lingua, tongne, + -all.] Relating to both the face and the tongue: said of a form of paralysis.

paralysis.

factor. n.—Association factor. See ★association.—

Domestic factor, one who resides in the same country as his principal. See foreign ★factor.—Factor group of G in respect of H, the group defined by the division of the operations of G into sets in respect of the self-conjugate subgroup H.—Factor of safety, as commonly used, the ratio of the ultimate strength or breaking stress of a piece of material to the load to be actually applied; the ratio by which the load required to break a piece or structure is greater than the maximum load to be applied; the ratio of the breaking stress to the working stress; in a stricter ratio of the ultimate strength or breaking stress of a piece of material to the load to be actually applied; the ratio by which the load required to break a piece or structure is greater than the maximum load to be applied; the ratio of the breaking stress to the working stress; in a stricter and more recent use, the ratio of the elastic limit of the material to the working load. The last is better than the older and more common definition of the term, because the real measure of the strength of a piece of material, which is to be repeatedly strained, is its elastic limit, not its ultimate strength, and the factor of safety should hence be based upon the elastic limit.—Foreign factor, one who resides in a different country from his principal. The importance of the distinction between a domestic and a foreign factor lies in their transactions with third parties. In the absence of an agreement to the contrary, a domestic factor is presumed to bind his principal, and in case credit is given a purchaser is responsible to both the factor and his principal; while foreign factors are held personally liable upon contracts made for their principals, and if credit is given or taken, it is upon the exclusive responsibility of the factor.—Form factor. (a) The ratio, expressed decimally, between the volume of a tree, or portion of a tree, and that of a cylinder of the same height and diameter. The volume of this cylinder multiplied by the form factor gives the actual volume of the tree, or portion of the tree, and that of a cylinder of the tree, or portion of the tree form factor is used for determining the actual volume of the tree is a stem form factor for determining the volume of the stem; and a stimber form factor for determining the volume of the stem; and a stimber form factor for determining the volume of the stem; and a stimber form factor for determining the merchantable contents of stem, crown, or both. A form factor is called absolute when the diameter of the tree; and artificial, when the diameter is measured a

impedance of a conductor or circuit to its ohmic resistance. Houston, Dict. Elect.—Inductance factor, in elect., the ratio of the wattless or reactive current to the total current, in an alternating-current circuit.—Lag factor, in elect., a term formerly need for power factor. See power *frctor.—Load factor, in electric-distribution systems, the ratio of the average load on the system to the maximum load during the day.—Power factor, in elect., the ratio, in an alternating-current electric circuit, of the true power divided by the apparent power, core or manufactor, in photom, a numerical factor by means of which the mean spherical intensity of a source of light may be computed from the intensity of a source of light may be computed from the intensity of the light emitted in a single given direction.—Unbalancing factor, the greatest percentage of excess or deciciency of power, over or under the mean power, that occurs in one revolution of an engine; the percentage of fluctuation in the tangential pressure on the crank-pin above or below the mean pressure during a revolution.

factorage, n. 3. The aggregate of all constituent factors.

Factoragial periodicity, that of a function where F(x+w)

a true surface on a rubbing-bed. It consists of a group of vertical, weighted, and pointed rods supported in a frame suspended over the bed. The point of the rod is centered on the back of the tile and holds it in place, while leaving it free to revolve as the bed turns under it. See rubbing-bed.

3. A chucking-machine, particularly equipped for facing or finishing the ends of axles, bolts, faculty (fak'ū-līd). n. [Also (as F.) facultid; fak'ū-līd). n. [Also (as F.) facultid;

faculid (fak'ū-lid), n. [Also (as F.) faculide; ⟨ facula + -id².] In astron., same as *faculary flames (which see). See the extract.

The images of the atmospheric vapors have also received widely different names. Hale calls the brilliant parts of these images "bright spots," supposing them to be emitted by the vapors confounded with the highly inof the vapors contounded with the highly incandescent portions. Since 1903 he gives them the name of flocculi, referring to their form. In turn, I have always considered them as entitted by the vapors of the atmosphere, and have called them faculary flames. I propose the word faculide, which is shorter.

H. Destandres (trans.), Sci. Amer. Sup., Oct. 15, 1904, 19, 24,070.

Abounding in faculæ: applied to regions of the selar surface where they are numerous. 2. Of the nature of faculæ.

—2. Of the nature of ractine.

He considers that the latter may be the portions of the umbra left uncovered by "faculous veils," which, extending from the penumbra, not unfrequently lighten up certain regions of nuclear gloom, leaving others more profoundly dark by contrast.

A. M. Clerke, Problems in Astrophysics, p. 77.

facultate (fak'ul-tāt), v. t.; pret. and pp. facultated, ppr. facultating. To give power or authority to; invest with faculty; empower. Barring-Gould.

Facultative aërobia, anaërobe, anaërobia, regeneration. See **aërabia, etc.

Facultatively aërobic, anaërobic. See *aërobic, *anaërobic.

facultize (fak'ul-tīz), v. t.; pret. and pp. facultized, ppr. facultizing. [facult-y + -ize.]

To endow with practical ability.

faculty, n. 7. In alg., the product of a series of factors in arithmetical progression, a(a + b)

.. (a + (m-1)b).

Such a product wascalledbyKramp was carried by Kramp a faculty, and he introduced for it the notation a = b, ealling a the base, m the exponent, and b the difference of the faculty.

G. Chrystal, Algebra, II. 374.

Faculty psychol-

merro name. 1 A name in Guam of Cycascircinalis, the nuts of which, though poisonous, are used by the natives as a foodstaple in times



lower classes, or the music for it. The characteristic pattern of the music is 历研

fæcula. n. See fecula. **Faentine** (fā-en'tin), α . Of or pertaining to Faenza, a city in the province of Ravenna, Italy: as, Faentine majolica.

facton, n. A simplified spelling of phaeton.

Fagaceæ (fa-ga'sē-ē), n. pl. [NL. (Alexander Braun, 1864), < Fagus + -aceæ.] A family of dicotyledonous archichlamydeous (apetalous) trees or shrubs of the order Fagales, typified by the genus Fagus; the beech family. It includes also the oak and chestnut, and is characterized by monoecions flowers, the staminate often in catkins, the pistillate with an urn-shaped or oblong perianth and a 3-7-celled ovary, the fruit a 1-seeded nutor acorn. There are 5 genera and about 375 species widely distributed. See beech, Castanea, chestnut, Fagus, oak, Quercus.

fagaceous (fa-ga'shius), a. Belonging to the family Engages: pertaining to or resembling

family Fagacew; pertaining to or resembling the beech.

Fagales (fā-gā'lēz), n. pl. [NL. (Engler, 1886), Fagales (fā-gā'lēz), n. pl. [NL. (Engler, 1886), Fagus + -ales.] An order of dicotyledonous archichlamydeous plauts including the families Fagacex and Betulacex, or the beech and birch families. It is therefore the same as the Cupuliferæ of many authors.

Fagara silk. See *silk. fagine (fā'jin), n. [L. fagus, beech, + -ine².] An alkaloid said to occur in beechnuts.

fagot, v. t. 3. To ornament (a fabric) by drawing out a number of threads and tying together in the middle a series of the cross-threads.

See fagoting. fagot-drain (fag'ot-drain), n. A drain made by placing fascines, fagots, or brush in the bottom of a trench and covering the same with stones or earth.

fagot-iron (fag' ot -ī " ern), n. Iron made by welding together a bundle or pile of flat bars, or bars of special shape or selected material: applied to weld-iron.

fagottino (fa-gōt-tē'nō), n. [It., dim. of fagotto: see fagotto.] A small bassoon, usually with a pitch a fifth above that of the ordinary bassoon.

Fah. An abbreviation of Fahrenheit.
fahaka (fa-hä'kä), n. [NL. fahaka, intended to represent Ar. faqqāqa.] The swell-fish or ball-fish, Tetraadon fahaka, found in the lower Nile and the neighboring seas.

faience, n.—Armorial falence, table-services decorated with the armorial bearings of noble families, reli-



Armorial Faience in Rouen Style. In the Pennsylvania Museum, Philadelphia.

gious houses, etc. These form a distinctive class of faience gious houses, etc. These form a distinctive class of faience produced at Rouen, Lille, Nevers, Paris, and Bordeaux.

M. L. Solon, French Faience, Glossary.—Faience à la corne [F.], a variety of tin-enameled pottery in which the principal decorative motif is a cornucopia of many-colored flowers. This pattern was first used on old Roven faience, and was imitated later elsewhere in France and in other countries.—Faience à niellure [F.], a name; sometimes given to llenri II. ware, from the resemblance



Faïence à la Corne.- Plate. Rouen, France. In the Pennsylvania Museum, Philadelphia.

of the inlaid clay decorations to niello-work. See faience d'Oiran, under faience.—Faience an réverbère [F.], a term applied to decorated pottery which has been fired in a muffle or reverberatory kiln. See reverberatory furace, under furance. Also called reverberatory. Greenpoint faience. See American *pottery (b).—Grueby falence. See American *pottery (b).—Lambeth faience, an art pottery made at Lambeth, England, on the principles of the old Italian majolica, with underglaze painted decorations.—Palissy faience. See Palissy verre, under veare?.—Saint-Porchaire faience, pottery wade of clay from Saint-Porchaire, near Oiron, France: same as Henri II. ware, faïence d'Oiron, and *faïence à nellure (which see).—Stanniferous faience, pottery coated with a tin glaze or ensmel, such as majolica, delf, and the earthenware of the old French potters. See also stanniferous *enamel*, and stanniferous weare, under vare?

faiencerie (fa-yon-se-re'), n. [F.. < faience, faience.] A pottery in which stanniferons faience is made: applied particularly to the

old French manufactories.

falencier (fa-yon-sya'), n. [F.] 1. A dealer in crockery.—2. A maker of faience; speeifieally, a potter who makes stanniferous faience in the style of the old French tinenameled wares.

fail-spot (fal'spot), n. In forestry, a place where natural or artificial reproduction has failed. [Colloq.]

Falinre of issue, lack of living children at the time of death: but the death of a child, capable of inheriting, prior to the death of the father will not deprive the latter of his right of courtesy; and there is no failure of issue if a child is born within the period of gestation after the death of the father.

faints-back (fants'bak), n. In the distillation falanx, n. faints-back (fānts'bak), n. In the distillation of whisky, the receiver in which the faints, or weak spirit, is collected, to be afterward redistilled: same as *faints-cask. See faint, n., 2. faints-cask (fānts'kask), n. See *faints-back.

Fair catch. See *actch!.—Fair hit or fair ball, in base-ball, a ball hit within the limits of the foul-lines.—Fair-play men, a name given by settlers in Pennsylvania, in a tract between the Lycoming and Fine creeks, about the year 1769, to three men elected annually, in rotation, to whom authority was given to determine all questions of boundaries at a time when the land was still insurveyed because it was doubtful whether it had ever been ceded by the Indians. Their decision was final, and was reinforced by the common consent of the community.—Fair pleader. See *pleader.

fairies'-arrow (fār*iz-ar'ō), n. Same as elf-bolt.

fairish (far'ish), a. [fair1 + -ish1.] Pretty

fair: passably good, etc.: as, a fairish cropfair: passably good, etc.: as, a fairish cropfair-lead (far'led), n. Same as fair-leader. fair-stitch (far'stieh), n. A sort of machinesewing stitch in which the visible portion of the thread between the stitches on the face, or fair side of the work, appears to be raised or rounded instead of lying flat, as in ordinary plain or flat sewing. It is done by creasing the stitched material to cause the exposed portion of the thread to be forced up into a rounded form.—Fair-stitch machine, in shoe-manuf., a sewing-machine for sewing harnesses and boots and shoes, having an attachment for forming a fair-stitch.

fair-trader (far'tra"der), n. One who advocates or favors the fiscal system known as fair-

eates or favors the fiscal system known as fair

trade (which see, under trade).

fair-water (far'wa"ter), n. In ship-building, a eover or filling-piece fitted in front or rear of any projection or abrupt break in the surface any projection or abrupt break in the surface of the under-water parts of a vessel's hull, to permit the water to flow past smoothly and without eddying.

fairy-bells (far'i-belz), n. The purple fox-

fairy-smoke (far'i-smok), n. The Indian-pipe,

Monotropa uniflora.

fairy-stone, n. 2. In Scotland, the name of a elay concretion also ealled clay-dog or elay-See clay-stone and concretion, 3 .- 3. A popular designation of a stone arrow-head, from the superstitions belief that it is of supernatural origin.—4. A fanciful name some-times given to twin erystals of staurolite.

fairy-tale (făr'i-tāl"), n. 1. A tale or story about fairies.—2. A story as unreal and as ineredible in its statements as fairies or tales about them.

faith-curist (fāth'kū"rist), n. One who believes in the efficacy of faith and prayer by themselves as therapeutie agencies; a believer in faith-enre.

faith-mark (fāth'märk), n. A fundamental and characteristic doctrine of a religious faith. faith-philosophy (fath'fi-los"ō-fi), n. A form of the philosophy of common sense which is distinguished by insisting that we ought to repose upon our natural tendency to view the origin of the universe and of high moral aspirations anthropomorphically. Common-sense philosophy proper, on the other hand, instead of saying that we ought to yield to certain dispositions to believe says that it is impossible not to believe certain doctrines upon sufficient consideration, and if the propositions are not too definitely enunciated.

faith-state (fāth'stāt), n. In psychol., an emotive state, characterized by the sense of communion with God and nature, which plays a prominent part in the psychological process of

conversion. See the extracts.

That state of confidence, trust, union with all things, following upon the achievement of moral unity, which we have found, more or less tersely expressed, in every conversion considered, is the Faith-state.

J. II. Leuba, in Amer. Jour. Psychol., VII. 345.

The resultant outcome of them is in any case what Kant calls a 'sthenie' affection, an excitement of the cheerful, expansive, 'dynamogenie' order which, like any tonic, freshens our vital powers. . . We have seen how this emotion overcomes temperamental melancholy and imparts endurance to the Subject, or a zest, or a meaning, or an enchantment and glory to the common objects of life. The name of 'faith-state,' by which Professor Leuba designates it, is a good one.

W. James, Var. of Religious Exper.**, p. 505.**

faitour's-grass (fa'törs-gras), n. The leafy spnrge, Euphorbia Esula: so ealled because faller-rod (fâ'ler-rod), n. Same as *fallerused by faitours or quacksalvers. See leafy spurge, under spurge2

if fake ake¹, n.—Flemish fake (naul.), a number of turns of rope that are concentric, or have a common center, and lie flat on the deck instead of riding over each other.

faint, a. 8. Oppressive: applied to the atmo-falanstery, n. A simplified spelling of phalsphere. Hawthorne,

A simplified spelling of phalaux.

as secured by the lex Falcidia, 'the law of (Publius) Falcidius,' a Roman tribune who proposed the law (about 40 B. C.) assuring to the heir at least one fourth part of the whole inheritance.] In Sp. law, one fourth of an inheritance. It legally belongs to the heir. To protect it the heir has the right to reduce legprotect to the field has the right to reduce legaleies to three fourth parts of the succession.

Falciform body, in gregarines, one of the 6 to 8 sickleshaped, nucleate bodies into which a pseudonavicella divides, each becoming a young gregarine.—Falciform lobe, process. See lobe, *process.

fole, process. See tooe, *process, falcon, n.—Laughing falcon, a large South American hawk, *lerpetotheres cachinans, which belongs to the accipitrine division of the birds of prey.

Falconiformes (fal-kon-i-fôr'mez), n. pl. [NL.,

 L. falco, a faleon, + form, a, form.]
 An order which contains the diurnal birds of prey: divided by Pycraft into three suborders, Accipitres, birds of prey proper, Serpentarii, the secretary-bird, and Catharta, the American vultures. The term seems to have been first employed in an ordinal sense by Seebohm, 1890, in the "Classifica-tion of Birds."

without eddying.

fairy-bells (far'i-belz), n. The purple foxglove, Digitalis purpurca.

fairy-creeper (far'i-krē"per), n. The climbing

faill, v. i. 14. In Scots law, to lose; forfeit; be deprived of: as, to fall from a right or estate.

deprived of: as, to fall from a right or estate.

To fall calm, to cease to blow, as the wind; become calm.—To fall down. (d) To show unexpected weakness; fail unexpectedly or completely. [Slang.]—To

fall on or upon. (c) In geom., to come precisely upon; rest upon; be congruent to.

Let the triangle ABC be applied to the triangle DEF, so that the point A may fall on the point D.

Ass'n for Improvement of Geom. Teaching, Plane

(Geometry, 1965)

[Geom., p. 25.

To fall within, in geom., to come within; rest inside

In the same way it may be proved that the line BA does not fall within the angle EFG. Ass'n for Improvement of Geom. Teaching, Plane [Geom., p. 19

fall¹, n. 23. An apron, attached to the front edge of a carriage-seat, suspended between the point of attachment and the bottom of the earriage-body.—24. The eapture or surrender (of a besieged city or fortress): as, the fall of Port Arthur.

fallage (fál'āj), n. [fall1 + -age.] 1. The felling or cutting down of timber-trees.—2.

Fallen branches collectively.

fall-apparatus (fâl'ap-a-rā"tus), n. apparat.] In psychophys.: (a) An instrument devised by Hipp for the control of his chronoseepe. An ivory ball drops from a variable height upon a metal plate, breaking and making electrical contacts as it falls. The electrical circuit includes the chronoscope, which thus registers the time of fall. (b) An instrument devised by Hering for the comparison of the binocular and monocular perceptions of depth. The eyes look through openings in a screen at a fixed black bead about 12 inches away. White beads are dropped by the experimenter at various distances, nearer and farther, from the black bead. fall-chronometer (fal'krō-nom*e-ter), n. [G. fallehronometer.] In psychophys., a gravity-chronometer. The instrument consists ordinarily of a

fallehronometer.] In psychophys., a gravity-chronometer. The instrument consists ordinarily of a heavy screen of metal, falling practically without friction between vertical metal guides, and making and breaking electrical contacts as it drops. It may be used to mark off a known and constant time-interval, thus serving in place of hammer or pendulum as a control of the Hipp or other chronoscope; or, as a tachistoscope, to expose visual stimuli for a brief and accurately measurable period. E. B. Titchener, Exper. Psychol., I. ii. 201. faller, n. 3. In lumbering, one who fells trees. faller-motion (fâ'lèr-mō'shon), n. The action of the faller-wires on a spinning-mule during

of the faller-wires on a spinning-mule during the process of winding the yarn into cops. Nasmith, Cotton Spinning, p. 369.

faller-shaft (fâ'ler-shaft), n. A rod which runs lengthwise of the spindle-earriage of the spinning-mule and to which the arms of tho faller-wire are attached. Nasmith, Cotton Spinning, p. 297.

Spinning, p. 221.

fall-fish, n.—Red fall-fish, a small minuow, Notropis
rubricroceus, found about waterfalls in tributaries of the
Tennessec and Savannah rivers.

fall-flower (fâl'flou*er), n. The white-wreath

aster, Aster multiflorus: so called from the lateness of its flowering. See white-wreath *aster.

falling-ax (få'ling-aks), n. An ax with a long helve and a long, narrow bit, designed especially for felling trees.

falling-wedge (fâ'ling-wej), n. A wedge that is driven into the kerf of a tree that is being eut down to cause it to fall in the desired direction.

fall-line (fâl'līn), n. In phys. geog., a line drawn through a number of rivers at points where they have falls or rapids due to a common eause; specifically, a line of this character in the eastern United States, near the inner border of the Atlantic coastal plain, passing through Trenton, Philadelphia, Baltimore,

Richmond, etc.

Richmond, etc.

fallow², n., 2. In loose practice, the soil is merely neglected or plowed only once or twice for one or more seasons, for the sake of 'resting' it. This is often done in alternate years. In more scientific farming, except in situations where 'extensive' methods are justified (see *extensive, 5), a fallow may be either 'uncropped' or 'cropped,' but the ground is always cultivated. The technique of fallowing is very closely worked out in Great Britain, and less so in the United States, where conditions are more various and methods less settled; but the difference is partly of terms. See phrases below, and compare rotation of crops, under rotation; see also phrases under *ercop.—Bare fallow, a fallow without crops; usually, in a specific sense, an uneropped fallow of a year's duration with thorough cultivation. In British practice, cultivation is begun in the autumn after the removal of grain, and is continued in the succeeding spring and summer; or sometimes it is not begun till winter, the larger part in any case falling in summer. As many as nine plowings and cross-plowings are sometimes given, besides numerons harrowings, etc. The object is the destruction of weels and insect pests and the mechanical and chemical amelioration of the soil. Bare fallows have now largely given way to cropped fallows, though they are still approved by British anthorities for stiff clays. For hare fallowing to conserve moisture see dry *farming.—Cropped fallow, in Great Britain, a fallow in which the ground is occupied, at least in summer, by a manured and closely cultivated crop which serves the purpose of Richmond, etc.

cleaning and mechanical improvement, at the same time yielding feed, which is returned to the soil through the yielding reed, which is retained to the soft intolugation maintre products; a green fallow. Dead fallow. Same as $bare \star fallow$.

In any case a saving upon the old dead or bare fallow.

J. Wrightson, Fallow and Fodder Crops, p. 31.

Double-cropped fallow, a variation of root fallow in which a fodder crop is sown in the autumn and cut in the spring in time for the root crop. The practice of this kind of fallowing is called catch-cropping. See catch *crop.—Half, rag, or ragged fallow, a fallow in which a fodder crop is sown in autumn and cut late in the spring, the land being then fallowed during the summer and put in wheat in the autumn. [Great Britain.]—Naked fallow. Same as *bare *fallow?.—Root fallow, in Great Britain, a cropped fallow in which, after winter fallowing, a root crop (see *crop) is grown.—Summer fallow. a bare fallow: (see *crop) is grown.—Summer fallow, a bare fallow; so called because the summer crop is omitted and because the tillage takes place chiefly at that season.—Winter fallow, a fallowing in which the soil is thoroughly cultivated during the period when not occupied by the summer crop; in Great Britain it forms part of a root fallow.

fall-phonometer (fal'fo-nom"e-ter), n. [G. fallphonometer.] In psychophys., a gravity-phonometer: an instrument consisting of uprights with mechanical releases which allow balls to drop from variable heights upon plates of metal, slate, etc. Given constancy of the weight of the balls and homogeneity of materials of halls and plates, the intensity of the sound produced by the impact of the ball on the plate is proportional to the height of the fall. The fall-phonometer thus furnishes a series of sound-stimuli which are intensively graded in terms of some arbitrary unit.

fall-poison (fâl'poi"zn), n. Same as fly-poi-

fall-tube (fâl'tūb), n. A glass tube about 800 millimeters long through which, in a mercury-pump, the mercury falls to create a vacuum. M. W. Travers, Exper. Study of Gases, p. 8. fallway (fâl'wā), n. A hoist-shaft or an open-

fall-wind (fâl'wind), n. A wind that descends

faloos, n. See *falus.
false, a. 10. Additional; assistant; subsidi-

falset, $v.\ t.$ —To false a doom. See $\star doom$. false-card (fâls'kärd), $v.\ i.$ To play a card with a view to deceiving one's adversary as to the true holding in the suit, as to win with the ace when holding the kiug also.

The dealer false-cards so that the adversaries will not know that he holds the queen.

Elwell, Bridge, p. 82. falsework (fâls'werk), n. See false work,

under false.

falsidical (fal-sid'i-kal), a. [L. falsidicus, < falsus, false, + dicere, speak, + -al¹.] Expressing falsehood; falsifying: opposed to veridi-

falua (fä-lö'ä), n.[Sp.: see felucca.] A boat, fandangle (fan-dang'gl), n. [fan(dango) + used in the Philippine Islands, resembling in general a felucca, but with a square sail, ment. usually of matting.

Falunian (fä-lū'ni-an), n. In geol., the Upper Miocene strata in France which are character-

ized by the faluns. See faluns.

falus (fa-lös'), n. [Also faloos, floose, fluce;
Hind. falūs, fulūs, a small copper coin, Pers.
fulūs, small copper coins, < Ar. falūs, filūs,
fulūs, money, cash.] In North Africa, Arahia, India, and neighboring countries, a small copper coin of various values ranging from one fourth to one tenth of a cent.

F. A. M. An abbreviation of Free and Accepted Masons.

An abbreviation (a) of familiar; (b) of

familial (fa-mil'yal), a. [L. familia, family, + -all.] 1. Occurring in members of the same family, though not necessarily hereditary: said of certain diseases, especially of the nervous system.

eccentric style of decoration which parposes, avoids regular or geometrical design.

familial (fa-mil'yal), a. [L. familia, family, + -all.] 1. Occurring in members of the same family, though not necessarily hereditary: said of certain diseases, especially of the nervous system.

It it necessary to distinguish acute forms following exand the chronic constitutional type, said to be to a large extent familial.

2. As in a family; family-like.

The essentially familial character which this people the Chinesel has retained [the Chinese] has retained.

Tarde (trans.), Laws of Imitation, p. 252.

family. I. n., 6. In petrography the term is nsed by Rosenbusch to embrace igneous rocks which are alike in composition and texture: as, the family of syenitie rocks; the family of essexite; the family of phonolitic rocks. In the quantitative system of classification (1902) it is suggested that the term be applied to a group of igneous rocks which are developed from the same parent magma by processes of differentiation—that is, any group of consanguineous rocks.—Man of family, a man of birth; a person of noble or gentle descent: to be distinguished from family man, a man with a family.—Monosyllabic family of languages, a group of languages so designated which is spoken in sontheastern Asia, including as its principal memhers Chinese, Cochin-Chinese or Annamese, Siamese, and Burmese.

II. a.—Family arrangement, an agreement for the

II. a .- Family arrangement, an agreement for the disposition of property between members of the same family, in which the relationship of the parties is a sufficient consideration for the agreement

9. In projective geom., one of the flat peneils which are determined by the sides of a polygram.—Electric fan or fan motor. See *motor.— Fan engine. See *engine.—Plenum fan, a fan which is used to force air into a room or hall, thus ereating a current of air: the reverse of vacuum *fan.—Vacuum fan, a fan which is used to exhaust the air from a room or hall, thus probable as the second of the second hall, thus producing a current of air: the reverse of plenum

club, as policemen sometimes club refractory

prisoners. [Slang.]
II. intrans. 3. To strike at something (as a base-ball) without hitting it; fan the air. do the hoisting. daywind), n. A wind that descends rapidly from the upper regions of the atmosphere. Such are the foehn, the bora, the mistral, the chiuook, etc.

fan1, which has various slang uses.] One who is very enthusiastic on the subject of athletic sports, especially base-ball; one who haunts base-ball grounds and base-ball games; a base-ball 'fiend.' [Slang.]

Cranks and 'fans' of all degrees Are there to howl and scream. Kansas City Daily Times, April 23, 1903.

Canteroy fanam, a coin of southern India far. weighing 5.87 grains

body

fanchonnette (fan-sho-net'), n. Fanchon, a pet form of Françoise, Frances, a feminine name.] A small pastry covered with meringue.

crest which opens and closes somewhat like a fan. The crests of the hoopoe and cockatoo

are examples. See *drcss.

ment

fan-drill (fan'dril), n. Movements and evolutions performed in concert by a company of girls or ladies armed with fans.

farad-meter (far'ad-me'ter), n. In elect., an instrument for determining, in farads, the

fan-duster (fan'dus"ter), n. In paper-making, a revolving wire-cloth cage inclosed in a casing, used to shake the dust out of stock.

fanega (fä-nā'gä), n. [Semetimes faneague; \(\text{Sp. fanega, hanega} = \text{Pg. Cat. fanega, \(\text{Ar. faniqa, a large sack (Freytag).} \)] 1. A Spanish and Spanish-American dry measure containing about 1½ United States bushels.—2. A Spanish and Spanish-American land-mea-

sure containing about 13 acres.

fanfare, n. 3. In bookbinding, an erratic or eccentric style of decoration which purposely

See Scavola.

fan-forge (fan'fōrj), n. A forge in which a centrifugal fan instead of a bellows furnishes the blast.

Amer. Jour. Psychol., July-Oct., 1903, p. 364. fang, v. t.—To fang a pump, to prime it. [Local, Eng.]

fang, n. 6. A valve in a pump; the water-seal of a pump.—To lose the fang, to break the seal or allow the water to run out of a pump, so that it will not draw without priming.

fang-bolt (fang'bolt), n. A bolt used for attaching ironwork to wood. In some cases the head of such a bolt has fangs or teeth for hiting into the timber, and in other eases the fangs are on washers.

fangle² (fang'gl), n. [Prob. orig. connected with fangle¹.] A large, irregular bundle of straw tied together at intervals, and serving as a torch.

fango (fän'gō), n. [It. Sp. fango = Pr. OF. fane, mud.] Mud in its therapentic uses.

Measurements which were made of the ionising power and of the rate of decay of the emanstion of "fongo" or mud from the hot springs of Battaglia, would indicate that its activity is due solely to the presence of radium.

Nature, Sept. 8, 1904, p. 458.

fanguito (fän-gē'tō), n. [Sp., dim. of fango, mud.] A killifish, Pæcilia vittata, found in

cient consideration for the agreement.

famin, n. A simplified spelling of famine.

fan, n., 1. (a) The fau has been used by various peoples to guard sacred mysteries. In the older ritual of the Roman and Greek churches, a fan was carried by a deacon of the mass, at the gospel side of the altar.

On the projective group one of the flat pencils.

On the projective group one of the flat pencils.

On the projective group one of the flat pencils. Also called flossing.

Fan-shaped structure. See *structure.

Fantail axle. See *axle. fantaisie (fon-tā-zē'), n. [F.: see fanta Same as spun silk (which see, under silk). [F.: see fantasy.] fantasm, n. A simplified spelling of phan-

fan1, v. I. trans. 6. To "cool with a club"; fantasmagoria, n. A simplified spelling of

phantasmagoria.

Fantasy pearl. See *pearl.

fantigue (fan-tēg'), n. [Also fanteague, fanteag, fanteeg, fantaig, fantag; prob. a dial. mixture of fantastic and fatigue.] A state of worriment

or anxiety. [Prov. Eng.]
fantod (fan'tod), n. [Also fantod; origin obscure. Cf. *fantigue.] The fidgets: as, to give one the fantods. Mark Twain. [Slang.] tion fan'a-tic. Others associate the word with fantom, n. and a. A simplified spelling of

phantom.

fan-work (fan'werk), n. Same as fan-tracery.

Far point. See *point1.

far3 (fär), n. [L. far, spelt: see farina.] A
type of spelt now out of notice.

Triticum Zea, Far, is one of the class of spelt-wheats. It is distinguished by the distance of its spikelets from one another.

Low, Pract. Agr., p. 325.

An abbreviation (a) of farriery; (b) of farthing.

weighing 5.87 grains.

fan-bath (fan'bath), n. A method of reducing the heat of fever in which rapid evaporation is produced by fanning the patient's wet the patient's wet a produced by fanning the patient's wet a preparation of skim-milk in the form of a preparation of skim-milk i dry powder: used by bakers and confectioners. [F. dim. of Faraday effect. See *effect.

Faraday's dark space or Faraday's space. See dark **space. Faraday's electric bag, tubes. See **bag1,

fan-crest, n. 2. In ornith., a large longitudinal faradimeter (far-a-dim'e-ter), n. Same as *farad-meter.

The current is from a secondary coil of about 8000 turns of fine wire and the dose is carefully measured by my faradimeter which I exhibited before the British Electro-Therapeutic Society in 1902.

S. Sloan, in Laneet, May 30, 1903, p. 1519.

faradization, n.—Galvanic faradization, the stimulation of a nerve by combined galvanic and faradic cur-

electrostatic capacity of a condenser.

faradocutaneous (far "a-dō-kū-tā nō-us), a. Relating to the skin and a faradic current. Faradocutaneous sensibility, sensibility of the skin to stimulation by a faradie current. Alien. and Neurol., Feb., 1903, p. 40.

faradometer (far-a-dom'e-ter), n. Same as

Farang (fä'rang), n. [Hind. Pers. farang; see Frank¹, 2.] A Frank; a Feringhee or European; a non-Asiatic foreigner.

They the Siamese of Lakawn] have seen less of the Farang than many of their countrymen in Upper Siam.

Geog. Jour. (R. G. S.), XI, 489.

farcy-button (fär'si-but"n), n. A small tumor (enlarged lymphatic gland) occurring in a horse suffering from farcy. Also called farcy-bud.

farcy-pipe (fär'si-pīp), n. A hard, cordy swelling of the subcutaneous lymphatics in farcy.

fare¹, n.—Excess fare, on railways, steamboats, etc., the payment made by a passenger for travelling beyond the place specified on his ticket, or in a higher class than that for which the ticket was issued.

farewel. A simplified spelling of farewell. Farfugium (fär-fü'ji-um), n. [NL. (Lindley, 1857), < L. farfugium, the plant called colts-

for Erythrochæte, a genus of plants of the family Asteraeeæ. See *Erythrochæte.

farinatome (fa-rin'a-tōm), n. [L. farina, meal, + Gr. -τομος, (τέμνειν, ταμεῖν, cut.] An apparatus used in the study of seeds to make

farinha (fä-rēn'yä), n. [Pg.: see farina.]
Guiana and the West Indies, cassava meal.

farinivorous (far-i-niv'ō-rus), a. Feeding upon farinaceous products: said of a meal-worm or a grain-weevil.

Farm lateral. See *lateral.—Poor farm. See poor-farm.—Sewage-farm, a farm of a type found near many British towns in which the public sewage is utilized for irrigation. Such farms are devoted chiefly to market-gardening and to growing forage-crops. Muir, Agriculture, p. 124, note.

farmacy, n. A simplified spelling of pharmacu.

farm-boiler (färm'boi"ler), n. A large portable farm-boiler (farm' boi" ler), n. A large portable furnace and boiler for cooking food for cattle, pigs, etc. The boiler is usually so arranged that it can be tipped up and its contents discharged without disturbing the fire or furnace. Also called feed-boiler.

Fermacs' Alliance institute itch. See pigs, etc. The boiler is usually so arranged that it can be tipped up and its contents discharged without disturbing the fire or furnace. Also called feed-boiler.

Farmers' Alliance, institute, itch. See *alliance, etc.

farmer's-ruin (fär'merz-rö"in), n. sperry, Spergula arrensis: so called from its effect on crops.

Sociation for the division of a fascia.

Fascipora (fa-sip'ō-rā), n. [NL., < L. fascis, a bundle, + Gr. πόρος, a pore.] The typical

Farmer's theorem. See *thcorem.

farming, n. 4. The commercial production of any plant (even horticultural) or animal which has an economic value: as, fruit-farming, perfumery-farming (growing flowers for extraction of perfumery-oils), ostrich-farming (for feathers), cat-farming (for fur), etc.—All-grain farming. See grain-*farming.—Arid farming. Seane as dry *farming.—Cottage farming, farming with an acre or two of ground without working animals; spade husbandry. [Great Britain.]—Dairy-farming, farming which is occupied with the production of milk and milk products, including the growing of feeds, the management of milch-cattle, and the manufacture of butter and cheese, at least when this is conducted on the farm; dairying.—Dry farming, the practice of ordinary agriculture dependent upon rain, when carried on in an arid or semi-arid country, in distinction from the form of agriculture dependent upon rain, when carried on in an arid or semi-arid country, in distinction from the form of agriculture dependent upon rain, when carried on in an arid or semi-arid country, in distinction from the form of agriculture dependent upon rain, when carried on in an arid or semi-arid country, in distinction from the form of agriculture dependent upon rain, when carried on in an arid or semi-arid country, in distinction from the form of agriculture dependent upon rain, when carried on in an arid or semi-arid country, in distinction from the form of agriculture. By such methods good crops can be grown where the rainfall does not exceed 12 inches per annum. Dry farming is coming into practice in the drier regions of the western United States where irrigation is not available.—Grain-farming, farming which is occopied with the production of cereals. Exclusive grain-farming (sometimes called all-grain farming), mpoverishes the soil, because no return is made for the plant-food taken away.—Grass-farming, that system of farming (usually of the "low" type) which rests upon the production of grass for pasture or hay. F. Storer, Agriculture, 111. 326.—Intensive farming, that method of husbandry in which, by liberal application of labor and expense, the maxim has an economic value: as, fruit-farming, per-fumery-farming (growing flowers for extrac-

or wind-break intended to shelter cultivators at work upon their fields: used especially in connection with the Red Indians of North

America.

farolito (fä-rō-lē'tō), n. [Sp. farolito, dim. of farol, lantern.] In Porto Rico the balloonvine, Cardiospermum Halicacabum, so called from the fancied resembance of its inflated fruit to a miniature paper lantern.

farouche (fä-rösh'), a. [F.; origin obscure.] Distant or repellent in manner; unsociable;

shy. Mrs. Gaskell. Farre's line. See *line1. Farrington group, series. See *group1, *series. farrington (far'i-sīt), n. [Farris, a lake in Norway, + -ite2.] In petrog., a name given by Brögger (1898) to a compact chocolate-brown rock composed of 35 per cent. of a mellite-proper of the state of th like mineral, 33 per cent. of barkevikite, 25 per cent. of diopside, and a little lepidomelane, altered olivin, and iron oxid. It occurs in a narrow dike cutting augite-syenite.

farsang (fär'sang), n. [Pers.: see parasang.] A Persian itinerary measure equal to about

four miles.

farynx, n. A simplified spelling of pharynx.

F. A. S. An abbreviation (a) of Fellow of the Antiquarian Society; (b) of Fellow of the Society of Arts; (c) of free alongside ship.

fasc. An abbreviation of fasciculus.

foot, Tussilago Farfara.] An untenable name for Erythrochæte, a genus of plants of the family Asteraceæ. See *Erythrochæte.

farinatome (fa-rin'a-tōm), n. [L. farina, meal, + Gr. -τομος, (τέμνειν, ταμεῖν, cut.] An apparatus used in the study of seeds to make cross-sections of many grains (of cereals) at once. The object in cutting is to determine whether the seeds are horny or starchy.

farinha (fä-rēn'yä), n. [Pg.: see farina.] In fascicle. n.—Trineuralfascicle or fasciculus, a small

fascicle, n.—Trineural fascicle or fasciculus, a small collection of nerve-fibers in the upper part of the spinal cord connecting the glossopharyngeal and vagus nerves.

Fasciculated bladder. See *bladder.

fasciculated bladder. See *bladder. fasciculus, n.—Fasciculi innominati, two bundles of nerve-fibers within the medulia oblongata, continuous with the fasciculi teretes.—Fasciculus acusticus, one of a number of white stries which cross transversely the floor of the fourth ventricle of the brain.—Fasciculus arciformis. Same as arciform fibers.—Fasciculus arciformis, same as arciform fibers.—Fasciculus cuneatus, the lateral column of the spinal cord.—Fasciculus of Goll, nerve-fibers which ascend along the posterior median fissure of the spinal cord to the cerebellum.—Solitary fasciculus. Same as solitary funiculus.—Trineural fasciculus. See *fascicle.

Jasciculation (fasci-iori/idē) n. nl [VII. (Jasci-iori/idē) n. nl [VII. (Jasci-iori/idē)]

See fasciotomy (fas-i-ot'ō-mi), n. [L. fascia, a band, + Gr. -τομια, < ταμεῖν, cut.] In surg.,

genus of the Fasciporiuæ.

Fasciporidæ (fas-i-por'i-dē), n. pl. [NL., < pore + -idæ.] A family of Fascipora, a pore, + -idæ.] A family of cyclostomatous Bryozoa of the Cretaceous formation, growing in clustered zoœcia opening radially and without accessory pores.

A simplified spelling of phase1.

F. A. S. E. An abbreviation of Fellow of the Antiquarian Society of Edinburgh.

fashion-art (fash on-art), n. The art which follows new or exotic models, in distinction from eustom-art, which follows the traditional models of clan, tribe, or nation. Tarde (trans.),

Laws of Imitation, p. 357. fashion-imitation (fash'on-imitation), The imitation of new examples or models, especially of those of foreign origin, in distipetion from eustom-imitation, which consists in following the traditional usages of family, clan, or nation.

All resemblances of social origin in society are the direct fat-body (fat'bod"i), n. One of the masses or indirect fruit of the various forms of imitation, eustom-imitation or fashion-imitation, etc.

Tarde (trana.), Laws of Imitation, p. 14.

fashion-morality (fash'on-mō-ral'i-ti), n. fat-fa Morality built up from new or exotic ideas and examples, in distinction from custom-morality, fath. the traditional morality of family, clan, or nation.

Hence the individualistic character of fashion-morality,

F. A. S. L. An abbreviation of Fellow of the

An appreviation of renow by the Anthropological Society of London.

Fassanian (fa-sā'ni-an), a. [It. Fassa, a district in Tyrol, giving name to the Fassa valley and the Fassanian Alps.] In geol., noting a group of strata which constitutes the lowest member of the Upper Trias in the Mediter-

ranean province.

fast¹. I. a. 8. Favorable to high speed: said of the condition of a race-track or road, and also, in cricket, of the wicket or playing-ground when it is hard and dry, so that the ball travels

Fast acid-blue, acid-magenta, acid-pon-ceau, acid-red, acid-violet. See *acid-blue, etc.—Fast acid-fichsin. Same as fast *acid-magenta.—Fast acid-searlet. Same as *acid-ponceau.—Fast black, Bordeaux, marine blue, etc. See *black, etc.—New fast green. See *green.

II. n. 4. In arch., a fastening, usually a simple butten a baltte kapp a degroe window.

simple button or bolt to keep a door or window shut: often used in combination, as door-fast, shutter-fast, etc.

shutter-fast, etc.

fast³, n.—Jewish fasts. The principal Jewish fast-days are those mentioned in the Bible. The most solemn fast is the Great Day of Atonement or Fast of Expiation, on the tenth day of the month Tishri (which see, prescribed by Moses. It is a holy day, "the Sabbath of Sabbaths." Next in order are: (a) The fast of the fourth month, on the seventeenth day of Tammuz, which is the fourth month, on the Jewish ecclesiastical year; on that day, the rabbis declare, Moses destroyed the tablets; on the same day the daily sacrifices ceased, and Apostemus burned the law and placed an idol in the sanctuary. (b) The fast of the fifth month, on the ininh day of Ah, the fifth month of the Jewish ecclesiastical year; on that day, the Talmud relates, it was decreed that the children of Israel should not enter the Promised Land: the destruction of the first and second temples occurred on the same day. (c) The fast of the tenth month, on the tenth day of

Tabihah

Teheth, the reason for this fast being the siege of Jerusalem by Nebuchadnezzar. (d) The fast of Esther, on the thirteenth day of the month Adar, which is the eve of Purim (which see). Besides the above there are numerous other fasts, general, local, and private. For instance, in some localities the Jews fast on the twentieth day of Sivan (about the middle of June), on account of the calamities inflicted upon them in 1648 by the Cossacks under Chmielnicki. The Jews of Frankfort-on-the-Main fast on the nineteenth day of Adar, on account of the atroeties committed upon them at the time of their expulsion from that place in 1614. The orthodox Jews observe no less than twenty-five regular fast-days, besides a score or so of other self-imposed and private fasts, including Jahrzeit, a fast on the anniversary of the death of parents, and the fast of bad drams, which takes place in order that God may be invoked to ward off the threatening evil. The very pious Jewa fast every Friday, so that they may better enjoy the Sabbath least in the evening, which is considered a meritorious meal.

[asst-fur (fast/fur), a. In Newfoundland, not-

fast-fur (fåst'fur), a. In Newfoundland, noting the young of the harp-seal when in such condition that the coat of soft, woolly fur in which it is clothed when born does not readily pull out. This coat is shed when the seals are a few weeks old, leaving them clad in the short, close hair common among hair-seals.

fastidium (fas-tid'i-um), n. [L.: see fastidi-Slight nausea with repugnance to food. fastigiation (fas-tij-i-ā'shon), n. [fastigiate + -ion.] The condition of being, or tendency

to be, fastigiate; applied to trees.

fastigium, n. 4. A period of continuous fever
in an acute disease, when the temperature has ceased to ascend but has not yet begun to fall. -5. A projection in the roof of the fourth ventricle of the brain.

fat1. I. a. 9. In painting, rich; full of color. Put in with an infinity of small 'fat' touches, the effect being completed hy sharp flashes of white and vermillion.

C. J. Holmes, in Burlington Mag., 1. 83.

Fat acid. Same as sebacic acid, (CH₂)₈(CO₂H)₂. called *ipomic acid*. II. n. 4. A local Australian term for fat

II. n. 4. A local Australian term for fat or marketable cattle.—Bayberry fat. Same as bay-oil.—Beculba fat. Same as becuba-tallow (which see, under tallow).—Fat embolism. See **embolism.—Natural fats, solid substances of a fatty nature obtained from animal or vegetable sources.—Nün fat, a fat-like or waxy substance produced by the insect Coccus adipifera.—Otoba fat. Same as otoba-butter.—Pichurimbean fat. See **beanl.—Pichurim fat. Same as Pichurim **camphor.—Vateria fat, solid fat from the seeds of Interial Indica. Also known as piny tallow or Malabar tallow. T. E. Thorpe, Dict. Applied Chem., 111. 937.—Wakefield fat. Same as Iorkshire **grease. fat!, r. t. 2. In leather-manuf., to smear over with a heavy oil. Flemming, Practical Tanning, p. 166. ning, p. 166.

consisting of connective tissue and fat-globules found in the bodies of arthropods, amphibians, and other low forms.

fat-face (fat'fas), n. In printing, same as heavy *face.

An abbreviation of falhom.

father, n.—Father of lies, Satan.—Father of the Fathful. (a) Abraham. (b) The Sultan of Turkey.—Father Time, time personified as an old man. See timel, 1.

analogous to that of fashion-art.

Tarde (trans.), Laws of Imitation, p. 357.

father-right (fä'Thèr-rit), n. Supremacy of the father in the family that traces descent in the father in the family that traces descent in the male line: distinguished from supremacy of the uncles or brothers of a wife and mother in the family that traces descent in the female line. It is a broader and less technical term

ine. It is a broader and less technical term than the Latin patria potestas. L. Gumplowicz (trans.), Outlines of Sociol., p. 53.

father-rule (fä'\text{Ther-roll}), n. Supreme authority of the father in the family. In the evolution of the family, father-rule has generally appeared later than the so-called mother-rule, which was in reality the authority of the male relatives of the mother. L. Gumplowicz (trans.) Outlines of Sociol. p. 112.

the authority of the male relatives of the mother. L. Gumplovice (trans.), Outlines of Sociol., p. 112.

fathom, n.—Nautical fathom, in the United Kingdom, the fathom used for the measurement of cables, which
is one thousandth part of a nautical mile, or about 1½ per
cent. longer than the ordinary fathom of six feet.

fatiguability (fā-tēg'a-bil-i-ti), n. Inability
to resist fatigue; lack of staying power.

to resist tatique; lack of staying power. fatique, n.—Coefficient of fatique, in phys., a numerical constant denoting the extent to which a given substance exhibits the phenomenon of elastic fatique.—Curve of fatique. See *arreve.—Elastic fatique. See *after-strain.—Error of fatique. See *error.—Fatique fever, an elevation of temperature observed after an unusual amount of muscular exertion: caused by the presence in the system of toxic matters resulting from the disintegration of tissue.—Magnetic fatique, the loss of permeability with age exhibited by some specimens of iron and steel.

[fatihah (fä'ti-hi), n. [Ar. fātiha, fātiha, open-

iron and steel. fatihah (fä'ti-hii), n. [Ar. fātiha, fātiha, opening, beginning, (fataha, he opened.] The first chapter (sura) of the Koran. It consists of seven verses (lines), and contains a doxology ('Te Deum laudanns) and a prayer. It is greatly reverenced by Mohammedans, who use it much as Roman Catholics use the paternoster.

"Gabriel! why stay'st thou me?" the Prophet said, "Since at this hour the Fatihah should be read."

Edwin Arnold, Pearls of the Faith, Åli and the Jew, st. 4.

fat-liquor (fat'lik"or), n. A mixture of oils and alkali for oiling hides or skins to make them soft. Flemming, Practical Tanning, p. 127. fat-liquor (fat'lik"or), r. t. To anoint or coat with fat-liquor. Flemming, Practical Tanniug, p. 22.

fat-necrosis (fat'nek-ro "sis), n. A degenerative alteration of fatty tissue, shown by the

presence of firm opaque white areas.

fat-pork (fat'pôrk), n. [From the appearance of the pulp of the fruit.] The edible fruit of the monkey-apple, Clusia flava, or the tree

itself. [West Indies.]
fatten, v. t. 3. In poker, to add chips to (a jack-pot which was not opened on the previous deal).-4. In skat, to discard valuable cards on

(a partner's tricks).

fattend, pp. A simplified spelling of fattened. fat-tree (fat'trē), n. In phytogeog., one of a class of trees of temperate zones, consisting chiefly of soft-wooded species such as couifers, birches, and lime-trees, in which, at the beginning of winter, all the starch of the cortex and wood is converted into fat, to be reconverted into starch in the spring. Compare *starch-tree. A. F. W. Schimper (trans.), Plant-Geog.,

Fatty casts. See *cast!.—Fatty oils. See oil, 1.—Fatty series, the class of carbon compounds which have a chain-like structure, as distinguished from those which have a cyclic structure. Also called aliphatic series.—Fatty tumor. See *tumor.

Fau (fou), n. [Samoan, Marquesan, etc., fau.]

Science, Feb. 5, 1904, p. 235.

faunistically (fâ-nis'ti-kal-i), adv. As regards the fauna; faunally.

faunule (fân'ūl), n. [NL., faunula, dim. of fauna, fauna.] A little fauna; a subdivision or

1. A name in Polynesia of several nettle-like plants which yield fiber used in making fishinglines and nets: as, fau-songā, Pipturus argenteus (Samoa).—2. A Polynesian name for Pariti tiliaceum, a tree belonging to the mallow family, with tough bark yielding cordage and very light wood used by the natives for making outriggers of canoes and for kindling fire by friction. Also hau. See *balibago, corkwood, and mahoe, 1.

fauces, n. pl. 5. In ancient Roman building, a passage in a house, especially that leading from the first vestibule to the atrium or first court. It is disputed whether the term is ever used for inner passages. Vitruvius (trans.), Architecture, vi. 4.

faucet, n.—Rabbit-ear faucet, a compression-faucet in which the valve is closed by pressing together two upright blades or cars.

faucet-filter (fâ'set-fil"ter), n. Same as filterfaucet.

fault, n.—Bedding fault, in geol., a fault whose plane of displacement coincides with the bedding-planes of the streat.—Dip-fault, a fault which crosses the strike of the faulted strata: the opposite of strike-fault.—Distributive fault, a fault in which the displacement is not confined to a single plane, but is distributed among a series of parallel planes at short distances from one another. Chambertin and Salisbury, Geol., I. 494.—Gravity fault, an inclined fault the upper side of which has slipped down on the under side, because, being the portion with the smaller base and therefore with the less support, gravity is conceived to have pulled it Ing the portion with the smaller base and therefore with the less support, gravity is conceived to have pulled it down, when, under tension, the strata drew spart; a normal fault. Geikie, Text-book of Geol. p. 702.—Normal fault. Same as gravity *\frac{\pi_{aut}}{\pi_{aut}} = \frac{\pi_{aut}}{\pi_{aut}} =

My geological surveys go to prove that all that portion of Iceland has subsided, there being well-marked lines of faultage going down to the bases of the mountains.

Geog. Jour. (R. G. S.), XIII. 272.

fault-breccia (fâlt'brech"iä), n. A breccia formed by the crushing of rock along a fault. Sometimes called fault-conglomerate.

fault-bundle (fâlt'bun#dl), n. In geol., a group of faults.

Varied arrangements in fault-bundles and fault-polyons. Geog. Jour. (R. G. S.), XVI. 464. gons.

fault-conglomerate (fâlt'kon-glom"e-rāt), n. Same as *fault-breecia.

fault-fissure (fâlt'fish"ūr), The fissure fawn², n. n. produced by a fault, even though it is afterward filled by a deposit of minerals. Veins in fault-fissures are especially valued by miners becomes they lowish-brown color. are generally believed to be persistent to relatively great depths. Geikie, Text-book of Geol. (4th ed.), p. 372.

yellowish brown.

fawn-colored (fân'kul'ord), a. Of a light yellowish-brown color.

fawn-lily (fân-lil'i), n. A dog-tooth violet,

faulting, n.—Block-faulting, a process resulting in a series of intersecting faults which serve to break up the surface of the earth into polygonal blocks, which are afterward modified by crosion. See fault-block.

fault-plane (fâlt'plān), n. The plane or approximate plane along which faulting has occurred.

curred. It is not, usually, a simple plane, but is rather a zone of some width throughout which there is shatter faxiness (fak'si-nes), n. [Dial. var. of foxing and movement. faxiness (fak'si-nes), n. [Dial. var. of foxing and movement.]

Inclined fault-planes with downthrow towards one trough may be parallel with reverse fault-planes upon which a portion of an arch has moved backward over an adjacent trongh.

Geog. Jour. (R. G. S.), XVI. 466.

fault-scarp (fâlt'skärp), n. The upthrow side of a fault left standing as a line of cliffs. The tendency of crosion is to destroy such inequalities, so that a fault-scarp is rarely well preserved. Chamberlin and Salisbury, Geol., I. 491.

fault-vein (fâlt'yān), n. A mineral vein de-

posited in a fault-fissure.

fault-vent (fâlt'vent), n. In geol., a volcanie vent located on a fault.

During the geological periods when the fault-vent continued intermittently active, the form of the sill-complex was capable of being re-moulded periodically in harmony with the localised crust-stresses.

Nature, Sept. 3, 1903, p. 413.

fauna, n.—Euloma-Niobe fauna, an assemblage of extinct organisms, characterized by the trilobites Euloma and Niobe, at the base of the Lower Silurian system which extends from Swedish Lapland to Languedoc in France. It bears a transitional character harves or the Combination of Fellow of the Botanical Society. hears a transitional character between the Cambrian and *Silurian faunas.—Prenuncial faunas. See doctrine of F. C. An abbreviation (b) in freemasonry, of ★colonies and ★prenuncial.

**Fellow-craft: (c) [l. c.] of the Latin fidei com-

#colonies and *prenuncial.

faunally (fâ'nal-i), adv. As regards the fauna or zoölogical remains (of some formation or area).

Faunally the same species characterize the lower and feeling of the Portage.

#controlled Philosophical Society: (b) of Fellow

Faunally the same species characterize the lower and upper members of the Portage.

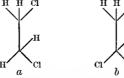
Science, Feb. 5, 1904, p. 235.

faunule (fan' ül), n. [NL., faunula, dim. of fauna, fauna.] A little fauna; a subdivision or subordinate association of the species of a fauna: used especially of local congeries of fossils in the successive beds of a given formation.

Favier powders. Same as Favier *explosives. faviform (favi-fôrm), n. [L. favus, honeycomb, + forma, form.] Resembling a honeycomb in appearance.

favored, a. A simplified spelling of favored, favored, a. 3. In organic chem., noting that configuration of the atoms or radicals in a compound in which the atoms which have an attraction for each other are brought as close together as possible. Thus of the two configurations for ethylene chlorid,

н н сі



b is said to be a favored configuration because in it the chlorin and hydrogen atoms are nearer together than in a.favorit, n. and a. A simplified spelling of fa-

favositoid (fav-ō-sī'toid), a. [Favosites + -oid.]
Pertaining to or having characters of the genus

favrile (fav'ril), a. and n. [Formed (by L. C. Tiffany, the producer of the glass, in 1894), with a differentiation of ferm intended to make the word distinctive in trade, from the normal type *fabrile, < L. fabrilis, of or pertaining to an artisan, < faber, an artisan, a smith: see fabric.] I. a. Artistic in a distinctive and concentrated way, namely, characterized by rich colors, enameling, and iridescence, with decorative effect: applied to glass so produced. See the etymology.

II. n. A highly decerative colored, enameled, and iridescent glass, usually in vase-

forms.

3. The color of the fawn; a light yellowish brown.

fawn-lily (fân-lil'i), n. A dog-tooth violet, Erythronium giganteum, of the Coast Range of California and Oregon. This and other western species are much finer plants than the eastern, E. Americanum. The name was proposed by John Burronghs and alludes to the two leaves, which resemble fawns' ears, and the lily-like flower. Also called (with other species) chamise-lily.

ncss².] In veg. pathol., a disease of flax, of

unknown origin, which turns the tops of the plants red and renders them unfit for retting. faya (fa'ya), n. [Chamorro name.] In the Marianne Islands, Tristiropsis obtusangula, a tree belonging to the Sapindaceæ, with bipintree belonging to the Sapindaceæ, with Dipinnate leaves having usually three pairs of pinnæ, each with 4 to 6 leaflets, and with ellipsoidal, obtusely 3-angled fruit covered on the surface with minute dust-like hairs, and containing a bony putamen. On the island of Guam the wood is used in the construction of grantly heats.

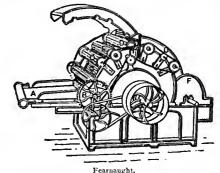
small boats.

Fayal lace. See *lace.
fayberry (fā'ber"i), n. Same as feaberry.

F. B. An abbreviation (a) of Fenian Brotherhood; (b) of Free Baptist.

Cambridge Philosophical Society; (b) of Fellow of the Chemical Society (London); (c) [l. c.] in marine underwriting, of free of capture and scizure.

fearnaught, n. 2. A machine with a main cylinder, workers, and strippers with steel hooks,



A, feed-table; B, feed-rollers; C, main cylinder; D, workers; E, strippers; F, doffer. (From Vickerman's "Woollen Spinning.")

or teeth, for teasing or opening wool preparatory to carding.

feasance (fé'sans), n. [Also fesaunce; \langle AF. fesance, fesaunce (F. faisance), \langle fesaunce, ppr. of faire, do: see fact. Cf. malfeasance, nonfeasance.] Performance; doing or performing an act or thing; the act or fact of omitting to

do or perform an act or thing.

Feast of ingathering. See Jewish *festivals.—Feast of lights. See *Hannkah.—Feast of Unleavened Bread, Feast of Weeks. See Jewish *festivals.

feast-rite (fest rit), n. A rite relating to the

celebration of a feast.

feather, n., 3. (b) In archery, a piece cut from one side of a feather, trimmed to the desired size and shape, and glued upon an arrow near stze and snape, and glued upon an arrow near
the nock to improve its flight. Sometimes other
material is used. Ordinarily an arrow has three feathers
set at equal distances on its circumference: see cockfeather.—Balloon or parabolic feather, a feather
trimmed to a round shape toward the nock of the arrow.
feather, v. I. trans. 7. To drop (melted
metallic tim) into cold water, which has the
officet of spreading it out with a feather the effect of spreading it out with a feathery appearance.

II. intrans. 4. To make a quivering move-

11. intrans. 4. To make a quivering movement of the tail: said of dogs.—To feather out, specifically, said of plants that throw out many adventitions shoots after they are pruned or headed back. feather-beds (feTH'ér-bedz), n. A plant of the genus Chara, so called from the thick and soft mat which these plants form at the bottom of pools in which they grow.

feather-board (feff er-bord), n. A board with a tapered section thinner at one side

than at the other; a clapboard. [Great Britain.] Feathered antimony, tin. See *antimony,

Feather-edge machine, in shoe-manuf., a hand-power machine for skiving off or critting a feather-edge on the shanks of shoe-soles.

feather-fern'(feth'er-fern), n. An ornamental branching herb of the saxifrage family, Astilbe Japonica. See Spiræa, 2, (b), and *Astilbe. feather-follicle (ferh'er-fol"i-kl), n. The little

pit in which the base of a feather rests: formed by the sinking of the feather-papilla.

Featherfoot spider. See *spider.
feather-germ (ferm'ér-jerm), n. The papilla from which a feather is developed. In the embryo it lies on the surface of the skin, but in older birds at the base of each feather, in older birds at the base of each feather, feetherian (fech-ne'ri-an), a. Relating to G. T. Feehner (1801-87), a German psychophysicst: as, Feehnerian psychophysics, the Fechnerian method of average error.

feather-grass, n. 3. See *chloris, 4.—4. One of several American species of Stipa, including the crested feather-grass, S. coronata, of Arizona and California, and the slender feathergrass, S. tenacissima, of Texas and New Mexico: fecht (fecht), v. and n. The Scotch form of also S. comata, one of the needle-grasses, and S. also S. comata, one of the needle-grasses, and S. fight.

viridula, the featherbunch-grass.—5. A weed, Leptochloa mucronata, of cultivated grounds southward in the United States and in Mexico and Cuba. Its paniele is composed of many slenders preading branches. See slender-grass.—6. The velvet-grass, Holcus lanatus. feathering, n. 6. In violin-playing, a very light and deligate use of the bow.—Double featers federate r. II intrans. To unite in forming

feathering, n. 6. In violin-playing, a very light and delicate use of the bow.—Donble feathering, an arrangement of cusps by which smaller ones are used to subdivide the curve inclosed by the larger ones. See cut under cusp, Fig. 3.

Large a learning to return a learning to return

feather-key (ferhér-ke), n. In mach., a key fastened to a wheel which slides along a shaft but also turns with the shaft, the key sliding along an axial groove, spline, or slot. The key along an axial groove, spline, or slot. may be on the shaft, and the groove or slot be cut in the wheel.

feather-papilla (fe\(\text{fe}\) r-pa-pil'\(\text{a} \)), \ n. The minute conical elevation which marks the place of development of a feather. It subsequently sinks below the level of the skin and lies at the bottom of the feather-follicle.

feather-pulp (feath'er-pulp), n. The assemblage of cells by which a growing feather is nourished, forming a soft, pulpy mass within the base of a young feather.

feather-sedge (feth'er-sej), n. A beard-grass, Andropogon saccharoides, so called from its

plume-like panpiume-like pan-iele. It occu-pies 'sedge-grass prairies' inland in the southwestern United States and serves the purpose of grazing. Some-times called cottonfeather - stitch

(feTH'er-stich), v. t. To ornament with feather-stitching. feather-stroke (feTH'er-strök), n. In Eng. billiards, a delieate touch by which the cueball is pushed from balk past the first object-ball and into pocket, moving Feather sedge (Andropogon saccharoides). the object-ball

only

a, plant, one fourth natural size; b, perfect spiklet; c, sterile spiklet, enlarged, (From U. S. D. A.) slightly. Also quill-stroke. It has long been abolished among experts. W. Broadfoot, Billiards, p. 370.

Feather-tongue spline. See *spline. feather-tract (fēTH' er-trakt), n. Same as

feather-tree (feth'er-trē), n. 1. The smoketree, Cotinus Cotinus.—2. The valley-mahogany, Cercocarpus parvifolius: so called in California on account of the feathery styles of the fruit.

feather-wedge (fefh'er-wej), n. Same as

feather-weed (fe\tau'r-w\bar{e}d), n. 1. One of the red algo of the genus Ptilota.—2. The common everlasting, Gnaphalium obtusifolium.

feature, v. t. 2. To make a feature or special attraction of; display or mention prominently; give prominence to: as, A B is featured at the Academy as Othello. [Chiefly in newspaper and theatrical use.]

feazings, n. See *feezings.
febricity (fe-bris'i-ti), n. [Erroneously formed
(as if from a L. adj. *febricus) from L. febriciture, have a fever, \(febris, \) a fever: see fever.]
A state of fever or feverishness. Browning.

Februian, a. II. n. One who holds the Februian doctrine, which maintains the

Fechnerian method of average error.
Fechner's cloud, paradoxical, shadow experiment.
See *experiment.—Fechner's colors, formulas. See *color, *formula.

Always as the Federative work goes on, it perfects itself, and Patriot genius adds contribution after contribution. Thus, at Lyons, . . . we behold as many as fifty or some say sixty thousand, met to federate; and a multitude looking on, which it would be difficult to number.

Cartyle, French Rev., II. i. 8.

Federation of labor, a national or other inclusive organization of trade-unions or other organizations of wage-earners; especially in the United States, the American Federation of Labor.

of pyroxene related to ægirite.

eet, n. 6t. In hunting, certain portions of the dead animal which were distributed among the huntsmen according to definite regulations.

among the huntsmen according to definite regulations.

fee?, n.—Fee and life-rent, in Scots law, two estates in land, the former importing absolute ownership and the latter a life-estate. The two estates might coexist in different persons at the same time, and from the loose way in which the expressions were nsed by conveyancers, difficulties of construction arose, and the term life-rent came often to import a fee: for example, an estate "to hushand and wife in conjunct fee and life-rent and children of the marriage in fee" meant that the aurviving husband or wife took the fee; and following this construction, an estate to a father in life-rent and to his heirs in fee gave the fee to the father. Accordingly, it came to be held that the tecknical meaning of life-rent was fee in all cases where the expression would, in its ordinary meaning, indicate that the fee was left over to those who would naturally take it by inheritance. This construction yielded to the ordinary meaning of the expression when accompanied by words or conditions clearly indicating such intent.

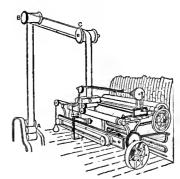
feed, v. t. 6. In founding, to supply extra metal to (a thick, heavy easting) while it is setting. This is done by having a shrink-head or riser over the thick portion of the casting and keeping communication open between this and the metal in the mold by working a feeding-rod up and down until the metal sets. The object of doing this is to prevent the formation of shrinkage-holes in the casting by the contraction of the metal as it cools, this process beginning from ontside and leaving interior holes unless the latter are filled.

feed, n.—Blamire's feed, a lattice-apron device for autonatically conveying cotton, wool, and like fibers from one

outside and leaving interior holea unless the latter are filled.

feed, n.—Blamire's feed, a lattice-apron device for automatically conveying cotton, wool, and like fibers from one carding-machine to another, the fibers being delivered at right angles to the direction in which they are received.

—Continuous feed. See intermittent *feed.—Cut feed, in stock-raising, animal food or fodder, particularly hay, which has been cut into amall pieces by running it through a cutter.—Intermittent feed, the feed given to a tool, or to the work, hy means of a pawl and ratchet or a similar device: diatinguished from the continuous feed obtained by the use of a constantly rotating screw.—Plano feed, a form of feeding-device, arranged in sections resembling piano-keys, for equably delivering cotton into a scutching-machine. Nasmith, Cotton Spinning, p. 80.—Rough feed. See *roughage*, 2.—Scotch feed, a self-acting feed used in wool-carding for reducing the carded wool into a flat ribbon about five inches wide and half an inch thick, and delivering it to a succeeding carding-machine.—Silent feed, a mechanism for moving a tool to the work or the work to a tool, in any machine-tool or woodworking machine in which the intermittent effect of a ratchet and dog is replaced by a friction apparatus, so that there iano and ible olick when the feed-notion acts. The most usual forms embody the idea of a cam or toggle, which slips when pulled in one direction, but which nips upon a anitable surface when motion occurs in the opposite direction, and in this second position drives the feed-gear.—Starfeed, a device for feedling a tool to its work by means of a screw on a lathe-carriage or boring-bar. As the work or



feeder

Scotch Feed.

A, calender or drawing-rolls; B, C, carrying-pulleys for the ribbon-sliver; D, carrier for spreading the sliver; E, feed-apron. (From Vickerman's "Woollen Spinning.")

the bar revolves, a projecting arm of a rimless wheel on the end of the screw strikes an adjusted pin, which com-pels a partial revolution of the wheel and feed-screw. The projecting arms are of such a shape as to suggest a star of four, five, six, or more points.

feed-bag (fēd'bag), n. Same as nose-bag (which

feed-bed (fēd'bed), n. 1. A place where animals feed.—2. A level surface forming a table

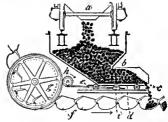
feed-cone (fēd'kōn), n. A cone-pulley, or a cone of gears, used to change the rate of feed on a machine, in order to adjust it to the cutting speed which is best for the material or for the tool.

feed-cup (fed'kup), n. An oil-cup; specifically, an oil-cup which holds a supply sufficient to last for some time, and from which the oil is fed at a uniform rate.

feed-cutter (fed'kut"er), n. A machine for cutting hay, clover, ensilage and the like. Such machines are made in many forms.

feed-door (fēd'dōr), n. The opening or door-frame through which fuel is supplied to a stove, furnace, gas-refort, etc. In heating-furnacea and boilers it may be at the side, just above the fire-pot; in a magazine-atove or cook-atove, at the top and closed by a lid; in a gas-retort, at one end, serving also as the discharging door; and in a blast-furnace, water-gas plant, or coke-oven, at the top.

feed-engine (fêd'en'jin), n. A feed-pump. feeder, n., 6. (d) (2) A part of a machine, such as a finger or arm, for pushing along the material to be operated upon. (g) (2) In elect., a conductor which leads from the generating-station to a point in the distribution-system, for the supply of electric current. In low-pressure electric distribution-systems, in which an appreciable loss of presaure occurs between generator and consumer, a system of mains is provided, from which the current is aupplied to customers, and a system of feeders which supply the mains from the generating-station at so many points that no appreciable variation of pressure occurs in the mains, but all the loss of pressure is in the feeders (h) A can, pail, or other vessel fitted with a rubber nipple, used in feeding milk to young calves; a calf-feeder. (i) In milling, a box divided into a number of compartments, feed-engine (féd'en"jin), n. A feed-pump.



Automatic Coal-feeder.

a, hopper-car on railroad-track discharging coal to feeder; b, hopper of feeder; c, delivery; d, reciprocating gate; e, short track on which gate travels; f, bucket-conveyer traveling on track fnot shown); g, wheel operating and guiding conveyer, also geared to control small gear; A, small gear that by its rotation causes gate through the crank and connecting-rod alternately to open and close; t, serew for adjusting movement of gate to deliver exact load to each hucket. Arrows show direction of travel of conveyer and rotation of gear.

each provided with an adjustable gate. It is used and combined with blending-machines for distributing the different flours or meals in exact proportions and at the same speed to the blender. It is sometimes united with a dividing- and distributing-machine for the purpose of feeding several bolting-machines or other machines, and is then called a divider and feeder. (j) ln transportation, any antomatic machine which feeds or supplies loose material in bulk to a conveyer or elevator. It may feed the load to a belt conveyer in a continuous stream, or intermittently to a bucket conveyer, filling one bucket at a time; it may form the delivery end of a convever supply
This great change in country dairying... has necessitated the extensive purchase of feeding-stuffs for the pro
tion, any antomatic machine which feeds or supply
tion any automatic machine which feeds or supplies loose

the load to a belt conveyer in a continuous stream, or intermittently to a bucket conveyer, filling one bucket at a

time; it may form the delivery end of a convever supply
tion from a daing-rod (fē'ding-rod), n. A wrought-iron rod about \(\frac{1}{4} \) to \(\frac{8}{6} \) of an inch in diameter, used by foundrymen to feed beavy eastings, by keep
ing open a passage for fluid metal during the shrinking process.

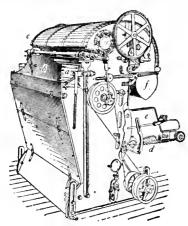
Feeding-rod (fē'ding-rod), n. A wrought-iron rod about \(\frac{1}{4} \) to \(\frac{8}{6} \) of an inch in diameter, used by foundrymen to feed beavy eastings, by keep
ing open a passage for fluid metal during the shrinking process.

Feeding-stuff (fē'ding-stuff), n. The various finds of food for cattle. [Local Eng.]

This great change in country dairying... has necessited the extensive purchase of feeding-stuffs for the protime; it may form the delivery end of a conveyer, supplying coal to crusher-rolls or to another conveyer. It is made in many forms. See cut on previous page.

9. The player who tosses the ball to the bats-

man (in rounders and similar games); hence, the name of a particular game resembling rounders. N. E. D.—Automatic feeder, a mechanical device used in mining, to secure a uniform and definite supply of ore for treatment.—Bramwell feeder, in tex-



Bramwell Feeder. a, elevating toothed apron; b, box or case; c, oscillating comb; d, feed-lattice; e, feed-table; f, weighing-scale.

tile, manuf., a mechanical device for feeding automatically raw materia, as wool or cotton, to a machine: invented by W. C. Bramwell in 1876.

feeder-bar (fe'der-bar), n. An oscillating bar,

in a cotton-machine, by which the supply of cotton to the machine is controlled. Also called feeler-bar. Taggart, Cotton Spinning, II. 21.

feeder-head (fē'der-hed), n. Same as feedhead.

feed-gage (fēd'gāj), n. A small guide-post, attached to a printing- or folding-machine, against which the feeder of the sheets places each sheet of paper, for the purpose of securing uniform and exact margins: oftener called,

in printing, the feed-guide.

feed-gate (fed'gat), n. 1. The gate or opening through which material is fed to a machine, that which admits water to a turbine .-The opening into a mold, through which the molten metal is poured.

feed-gear (fēd'gēr), n. The mechanism by which either the material operated upon or the tool is fed forward.

feed-grinder (fēd'grīn"der), n. A power grinding-mill for reducing corn, wheat, oats, etc., to coarse meal suitable for feeding to cattle. It uses steel burs in place of stones, and is often fitted with an automatic feeding-device and elevator for lifting the grain to a sack-filler.

feed-guide (fed'gūd), n. See *fced-gage.
feed-hopper (fed'hop"er), n. A hopper into
which material is poured at intervals and
ferry which it is poured. from which it is regularly fed to a machine.

feeding, n.—Feeding standard, in stock-raising, the experimentally established amounts of the different nutritive substances required by animals under specified conditions. Feeding standards widely adopted give the amounts required per day (per 1,000 pounds of live weight) of protein, carhohydrates, and fat, together with the fuel-value of the ration, for oxen at rest, at work, etc.—Forced feeding, the introduction of food into the stomach through a tube in cases of attempted suicide by starvation.

feeding-cake (fē'ding-kāk), n. The solid cake left from the expression of colza, cotton-seed, and other oils, used as food for cattle. and Thorp, Chem. Technol., II. 26.

feeding-dish (fe'ding-dish), n. A circular plate or dish which forms the feeding-mechanism of the Hübner continuous cotton-combing machine.

feeding-groove (fe'ding-grov), n. A longitudinal groove on the ligula of a honey-bee worker

by the use of which one bee feeds another.

feeding-machine (fē' ding-ma-shēn'), n. An apparatus attached to a printing- or folding-machine, for the automatic delivery of single sheets to the machine.

This great change in country dairying . . . has necessitated the extensive purchase of feeding-stuffs for the production of milk, especially in winter time.

Energy. Brit., XXVII. 363.

feed-pawl ($f\bar{e}d'p\hat{a}l$), n. A pawl or finger which imparts motion to a ratchet-wheel to feed a machine, or which receives such motion from the feeding-mechanism.

feed-peg (fed'peg), n. A device, connected with a star-wheel, which gives an intermittent rotary motion to one of the feed-rolls of a Heilmann cotton-combing machine, for projecting the cotton forward through nippers. Thornley, Cotton Combing Machines, p. 39.

feed-regulator (fed'reg"ū-la-ter), n. for regulating the amount of feed-water to be supplied to a steam-hoiler. Such a device is particularly necessary on coil, water-tube, or flash boilers on account of the small reserve-supply of water they contain.

feed-rod (fed'rod), n. 1. A rod or shaft which actuates a feed-motion.—2. Same as *feeding-

table which feeds material into a machine, as the feed-apron of a wool-carding engine. Also

called feed-cloth.

feed-table (fēd'tā"bl), n. In textile-manuf.,
a movable, flexible table, usually constructed
of narrow slats of wood, for carrying or feeding material into a machine.

feed-tank (fed tangk), n. 1. A reservoir or vessel in which the water to be supplied or fed to a steam-boiler is contained. The water may be hot or cold: when hot the tank is usually closed to prevent loss by evaporation. reservoir or vessel designed to hold liquid fuel, such as kerosene or gasolene, which is to be fed to a burner.—3. A reservoir or tank containing reagents, or raw materials, which are to be fed to a vessel in which some chemical or

manufacturing process is conducted. feed-trough, n. 2. Along, narrow trough, about 18 inches wide, 4 inches deep, and 1,500 feet long, placed between the rails of a railway-track and partly filled with water. A scoop suspended from the tender of the locomotive of a moving train and dip-ping into the trough causes the water to rise along the slope of the scoop and pass into the water-tank of the ten-

feed-wheel (fēd'hwēl), n. A hand-wheel for operating the feeding-mechanism of a machine. feed-wire (fed'wir), n. Same as feeder, 6 (g). feel¹, v. t.—To feel the blade, in fencing, to be aware of the otherwise imperceptible preparations of the opponent for attack through the contact between the foils or swords.

feeler, n. 6. A thickness-gage. - 7. A thin piece of metal for determining the space or play left in a hearing or for determining the distance between the two plates in a riveted

feeler-bar (fe'ler-bar), n. Same as *feeder-bar. feeler-bar (fē'ler-bār), n. Same as *feeder-bar. feeling, n.—Common feeling. See *common.—Discordant feeling, in Wundt's psychology, a total feeling, derived from the oscillatory feeling, in which the affective oscillations follow each other very quickly, and the successive feelings themselves are strongly opposed: instances are tickling, doubt, the feeling of tonal dissonance, etc.—Extensive feeling, in psychol., a feeling which arises from the spatial and temporal arrangement of the sense-elements of a perception or idea.—Intensive feeling, in Wundt's psychology, a feeling, or affective process, which depends upon the relation of the qualitative attributes of the sensational elements in perceptions or ideas.

The expressions "intensive" and "extensive" do not refer to the character of the feelings themselves, for they are in reality always intensive, but to the conditions for the rise of these feelings.

W. Wundt (trans.), Outlines of Psychol., p. 164.

Law of feeling, in psychol, the doctrine that, in many cases, association of ideas depends, not upon the contiguity or resemblance of the ideas themselves, but upon a permanent or transient state of the feelings.

The writers who have pointed out this infinence (often efficacious though latent) have conceived this superior law, which might be called the law of feeling, in two different ways, some as absolute and universal, others as partial and local.

Oscillatory feeling, in Wundt's psychology, a total feeling in which opposing feelings, or affective processes, alternate with each other in rapid succession.—Partial feeling, in Wundt's psychology, a feeling, or affective process, which enters as a component into a total feeling.

Every composite feeling may, accordingly, be divided (1) into a total feeling made up of all its components, and (2) into single partial feelings which go to make up the total feeling. These partial feelings are in turn of differ-

ent grades, according as they are simple sense-feelings (partial feelings of the first order), or feelings which are themselves composite (partial feelings of the second or higher themselves). higher orders).

W. Wundt (trans.), Outlines of Psychol., p. 159.

Total feeling, in Wundt's psychology, the affective experience which results from the simultaneous presence of separate affective processes in consciousness; the resultant of a number of partial feelings.

feeling-effect (fē'ling-e-fekt"), n. In psychol., the affective, as distinguished from the sensory, result of the application of a stimulus.

Likeness may mean "likeness of feeling-effect," as in the Likeness may mean "likeness of Jeeting-effect, as in one former case it means likeness of direct sense-effect. Green and blue would then be like, because they put us in like moods, of restfulness or quiet.

E. B. Titchener, Exper. Psychol., I. il. 54.

feeling-tone (fē'ling-tōn), n. In psychol., affective experience, as referred to the intellectual experience which it accompanies and colors; more especially, simple affection, as referred to the sensation which it thus accom-panies, and of which, in some psychological systems, it is even regarded as an attribute: affective tone.

Perhaps the most efficient agent in determining the manner in which delusions are formed is the feeling-tone of pleasantness and nupleasantness.

J. W. Slaughter, in Amer. Jour. Psychol., XL 307.

feed-sheet (fed'shet), n. A movable apron or feezings (fez'ingz), n. pl. [feeze3.] Naut., the unlaid end of a rope.

Fehling's reagent, test. See *reagenl, *test1. Fehling's reagent, test. See *reagenl, *test¹. fei (fā (ē), n. [Tahitian fei, the vernacular name of the plant and its fruit.] The wild banana of Polynesia and New Caledonia, Musa Fehi. It is distinguished from cultivated bananas and plantains in having erect fruit-spathes, bearing numerous crowded, augnlar, orange-colored fruits containing a few seeds. The fruit is prepared in various ways for food: sometimes beaten to a consistency of paste and made into puddings together with cocoanut-custard and other ingredients. In Samoa, where it is called soaa, the natives prepare from the sap a dark-purple dye with which they stain their bark-cloth, and which they sometimes use for link. The species has been introduced into the Hawaiian Islands and is found growing in some of the higher ravines of the island of Oahu. island of Oahu.

feint, n. 3. pl. See faint, n., 2. fei-tsui (fā-tswē'), n. [Chin. fei-ts'ui: fei, fé, the blue-green kingfisher; ts'ui, the feathers of this bird, used in ornamental feather-work.] beautifully variegated green variety of jadeite much prized, on account of its colora-tion, by the Chinese. The prevailing shade is

a bright emerald- or cabbage-green.

fel (fel), n. [L., gall: see gall.] Gall; bile.

-Fel bovis, the pharmacopeial name for ox-gall.

feldsparic (feld-spär'ik), a. [feldspar + -ic.] Same as feldspathic. N. E. D.

feldspathization (feld-spath-i-zā'shon), n. [feldspath(ic) + -ize + -ation.] In petrog., the development of feldspar in rocks through contact-metamorphism. Fournet.

feldspathize (feld'spath-iz), r. t.: pp. feldspathized, ppr. feldspathizing. [feld-spath + -ize.] To change to feldspar: a term employed in geology to describe this metamorphic process. Geikie, Text-book of Geol., p. 780. feldspathoid (feld'spath-oid), n. [feldspath + -oid.] Feldspar or some other species (nephelite, sodalite, leucite, and the scapolites)

which plays a similar part in the composition of rocks.

Félibre (fā-lēbr'), n. [F. Félibre, mod. Pr. felibre, a particular use, in connection with Felibrige, of felibre, a parishioner, usually identified with Sp. feligrés, a parishioner, of unknown origin but conjectured by some to be reduced from L. filius gregis, 'son of the flock,' or filius ecclesiæ, 'son of the church.' A literary fancy has made félibre mean 'bookmaker, as if from Pr. faire (\le L. faeere), make, + libre (\le L. liber), book.] A member of the literary society known as *Félibrige (which see).

Felibrian (fe-lib'ri-an), a. [F. félibrien, < Félibre: see *Félibre.] Relating or pertaining to the Félibres or the Provençal literature, etc., produced by them: as, Felibrian studies.

The two Félibrien societies maintained in Paris by the children of the South of France.

T. A. Janvier, A Feast Day on the Rhone, i.

T. Ribot (trans.), Psychol. of Emotions, p. 173. Félibrige (fā-lē-brēzh'), n. [F. Félibrige, Pr. Felibrige, a name adopted by the society mentioned: see *Fclibre.] A society constituted in Provence, in 1854, for the maintenance and purification of the Romance dialects of the south of France, represented by the Provencal, and for the promotion of Provencal literature and art.

felic (fel'ik), a. [fel(dspar) + -ic.] In petrog.. in the quantitative system of elassification (1902), a term used to signify that a rock, or group of rocks or minerals, has the properties of or contains feldspar. See quantitative system of igneous *rocks.

Felichthys (fel-ik'this), n. [NL, < L. felis, cat, + Gr. iχθίς, fish.] The generic name of a large sea-catfish, known as gaff-topsail eat, from the elevated dorsal fin. The common

species is F. felis.

establishment.

Woollen mills, tanneries and fellmongeries. Nature, Aug. 28, 1902, p. 413.

Fell sandstone. See *sandstone.

Felly cut-off and doweling machine, a saw-table with two circular saws used to cut off the ends of felly-blanks, at the right length and proper bevel, and to make the dowel-seats. Felly-planing machine, a wood-planer for planing strips and blanks for fellies, shafts, carriage-bows, etc. It planes several at once. A more complicated machine is allied to a molding-machine and employs one, two, or four cutter-heads placed vertically or horizontally to dress two or four sides of bent fellies. Felly-rounding machine, a machine for rounding and finishing the inner curve of bent and planed fellies. It is essentially a molding-machine having one horizontal cutter-head. Felly-truing machine, a sander used in finishing fellies. See **mander*. ter-nead.— Felly-truing machine, a sander used in finishing fellies. See ***ander.

felly-holder (fel'i-hōl*der), n. A felly-plate

and a T-head bolt which together form a clamp over the joint in a felly and prevent the wood

from splitting.

felon-grass (fel'on-gras), n. Either of two plants reputed to cure felons: (a) The masterwort, Imperatoria Ostruthium. (b) The black hellebore, Helleborus niger.

felon-herb (fel'on-erb), n. Either of two plants reputed to eure felons: (a) The common mugwort, Artemisia vulgaris. (b) The monse-ear hawkweed, Hieracium Pilosella. See mouse-

*felonice (fē-lon'i-sē), adv. [Law L., adv. from *felonicus, adj., < felo(n-), felon.] In Eng. law, feloniously: a term formerly required to be used in all indictments for felony.

felon-weed (fel'on-wed), n. The common Old World or tansy ragwort, Senecio Jacobæa, adventive in the United States: so called from its

use as a remedy for felons.

relair. [G. fels, rock, + i, a letter used to signify that the character is microscopic. Cf. *felso..] In petrog.. in the quantitative system of classification (1902), a prefix placed before the name of a rock to signify that its texture is microfelsitic, microscopically aphanitic, and homogeneous, but not that of isotropic glass: as, felsimonzonose.

felsitic. a. 2. Having an aphanitic texture: applied to the ground-masses of those porphyries which are so fine-grained as to be aphanitic, and to those glassy ones that do not

have a vitreous luster.

felsitoid (fel'sit-oid), a. [felsite + -oid.] In N. L. Britton, Manual of Flora of Northern States, p. 952.

petrog., having a felsitic appearance, with an fence-season (fens'sē"zn), n. Same as closeexceedingly compact aphanitic texture: ap
time.

exceedingly compact aphanitic texture: applied to metamorphic rocks. Such rocks occur in beds or bed-like masses, sometimes in districts of contact metamorphism. They embrace hälleflinta, adinole, and porphyroid. Geikie. [G. fels, rock, + o, a letter used to signify that the character is megascopie.] In petrog., in the quantitative system of elassification (1902), a prefix placed before the name of a rock to signify that its texture is megascopieally felsitic, megascopically aphanitic, adinology of the strength of the terpene series resembling camphene. It is prepared by boiling fenchone (fengk'on), n. [fench(yl) + -onc.] A ketone, $C_{10}H_{16}O$, isomerie with camphor, which it resembles in general chemical proposition. scopically felsitic, megascopically aphanitic, but not glassy: as, felsomonzonose. It is used in a similar manner in petrography generally and may be prefixed to the name of any aphanitic rock: as, felsorhyolite, etc.

felsőbanyite (fel-ső-ban'yīt), n. [Hung. Felső Bánya, 'upper mine': felső, upper, bánya, mine.] A hydrated aluminium sulphate, occurring in snow-white crystalline masses, found at Kapnik Bánya, near Felső Bánya, Hungary.

at Kapnik Bānya, near F'első Bānya, Hungary.

felt¹, n.—Fire felt, a fire-proof material made ap in sheets to be placed in walls and floors to increase their fire-resisting qualities.—Foundation felt, a coarse felt, made in sheets of varying thickness, to be placed between the feet of a machine and its foundation, to decrease the smount of vibration transmitted to the foundation from the machine.—Microlitic felt, in petrog, the ground-mass of some lavas, trachytes and andesites, which are composed of microscopic prisms or fibers of feldspar.

felter (felt'ér), n. [felt¹ + er¹.] One who fol-

S. - 30

465 woolen wadding used to protect parts of the body.

felwort, n. The common felwort is Gentiana Amarella, also called autumn gentian. The name is also applied to species of Swertia, a genus closely related to Gentiana.

boom. femaleness (fe'mal-nes), n. The quality of being female.

Numerous facts point to the conclusion that maleness and femaleness may be regarded as expressing metabolic alternatives open to the germ-cell in its development, and that the bias in one direction or the other is largely due to environmental stimuli. Encyc. Brit., XXXII. 210.

fellaheen (fe-lä'hēn), n. pl. See fellah.

felleous (fel'ē-us), a. [L. felleus, < fel (fell-),
gall.] Relating to the bile; bilious.

fellmongery (fel'mung-gèr-i), n. [fellmonger
+ (er)y.] The business of a fellmonger or his **feme**, n.—Feme sole trader, a married woman who, by the custom of London, and either by common law or by statutory authority in many of the United States, is entitled to carry on business on her own account and responsibility.

Having the characters of, or belonging to, the second group of standard minerals, including fendillate (fen'di-lāt), v.t.; pret. and pp. fennon-aluminous ferromagnesian and calcie silicates, silicotitanates, and non-silicate and of fendre), \langle L. findere, split: see fent and fisnon-aluminous minerals. Used in the quanti- $sion + -ate^2$.] To split or erack slightly in cates, silicotitanates, and non-silicate and non-aluminous minerals. Used in the quantitative classification of igneous rocks. See

feminin, a. and n. A simplified spelling of feminine.

feminism, n. 2. The presence of specifically teminine characteristics in the male

feminist (fem'i-nist), n. [F. féministe, < L. femina, woman, + -ista, E. -ist.] 1. An advocate of the claims of women as the equals of men in the realms of literature and art as well as in the sociological world. Athenæum. Nov. 26, 1904, p. 730.—2. One who devotes himself to the study of woman, especially from the physiological and medical points of view. G. S. Hall, Adolescence, I. xiv.

femorohumeral (fem o-rō-hū'me-ral), a. Relating to both the femur and the humerus. femoropopliteal (fem"ō-rō-pop-li-tē'al), a. Of or pertaining to both the femur and the popli-

teus.—Femoropopliteal neuralgia. Same as sciatico. femorotibial, a. 2. Relating to the femurand tibia.-Femorotibial index. See *index.

tibia.—Femorotibial index. See **index.

femur, n.—Pilastered femur, a thigh-bone on which
the linea aspera is greatly enlarged and prominent.

fence, n.—Cockatoo, dead-wood, dog-leg fence. See
**cockatoo, etc.—Panel fence. Same as **nake fence.*
See fence.—Stump fence, a fence composed of uprooted
stumps of trees laid horizontally, the roots of contiguous
stumps interlacing.—To mend one's fences, to guard
one's ewn political interests at home. [Political slang,
U. S.1

A piece which fence-arbor (fens'ar"bor), n. connects the spindle and the tumblers in a combination-lock. See lock1.

Modern combination locks are so constructed that by means of independent bearings, which are operated through the revolution of the spindle, and by use of a balanced fence-arbour, . . . it is impossible for any one manipulating the spindle or the dial to form any idea of the position of the tumblers on the inside, because the moment the spindle is revolved, the fence-arbour is lifted away from the tumblers, and there is no possibility of feeling their motion.

Energy, Fauge (75)

fence-row (fens'ro), n. A fence with the line of shrubs and other vegetation which frequently grows up under its protection.

Along fence-rows in partial shade. N. L. Britton, Manual of Flora of Northern States, p. 952.

erties. The dextro-form occurs in fennel-oil, the levo-form in thuja-oil.

fenchyl (fengk'il). n. [G. *fenchyl, < fenchel, fennel, + -yl.] In chem., the levo-form of *fenchone (which see).

fencing-stick (fen 'sing-stik), n. A stick, usually made of hickory, with a basketwork guard for the hand, used in fencing.

guard for the hand, used in feneing.

fender, n., 1. (b) Naut.: (2) A projection extending longitudinally along the side of a vessel a short distance above the water-line to protect it from damage when going alungside other vessels or landing at wharves. The fender may be formed of rectangular pieces of timber firmly secured to the side, or of plates of U-shaped cross-section riveted to the outside plating. Tugboats usually have an upper fender at the level of the deck and a lower fender just above the water-line. Ferry-hoats and river-steamers have a heavy fender extending all around the vessel at the level of the main deck. (f) A removable wire net or scoop placed at the front of an electric car to catch or push aside an object or person overtaken by the car or falling in front of it.

fender-bar (fen'der-bär), n. Naut., a long felter (felt'er), n. [$felt^1 + er^1$.] One who follows the occupation of feltmaking.

feltrum (fel'trum), n. [ML, felt, packing: see $felt^1$ and cf. $feuter^1$.] In medieval armor, fender-bar (feu'der-bär), n. Naut., a long

fennel fore-and-aft fender of wood hung over a ship's side just above the water-line amidships to

*boom.

fender-guard (fen'der-gärd), n. See *fender-

fender-rail (fen'der-ral), n. A rail on the exterior of a street-ear designed to act as a fender in protecting the side-panels against injury from the wheels of passing vehicles. is armed with a strip of iron ealled the fenderguard.

fender-skid (fen'dèr-skid), n. In lumbering, a skid placed on the lower side of a skiddingtrail, on a slope, to hold the log on the trail while being skidded.

many places.

fendillation (fen-di-la'shon), n. The condition of being fendillated.

fenessi, n. See *finessi.
fenessella, n. 4. [cap.] A genus of pyrenomycetous fungi having the perithecia arranged in more or less definite groups beneath the surface of the bark of the host. The name refers to the spores, which have both longitudinal and transverse septa, giving their surface a resemblance to small

fenestra, n. 3. In surg., an opening in a splint or immovable dressing to permit of inspection of the part or to relieve pressure.

— Mandibular fenestra, the mandibular foramen.

fenestrate, a. 3. In mycol., same as *dietyoid. fenestrated, a. 3. In surgical instruments, having large openings.

The entire covering of the mastoid should be chiseled away with . . . s bone gouge, sided at some steps by a fenestrated, shape, hollow curette, and with bone-cutting forceps.

Phil. Med. Jour., Jan. 31, 1903, p. 223.

feng-hwang (fung'-hwäng'), n. See fung-hwang. In Chinese art it is used as the emblem of the empress.



Fung-hwang, or 'Chinese Phenix': wood-carving of about 1600, from the Imperial Palace of Peking, China, In the Pennsylvania Museum, Philadelphia.

fennel, n.—Azorean fennel, the sweet fennel, Fæniculum dulce.—Indian fennel, a variety of the common fennel, Fæniculum Fæniculum, cultivated in India and used in curries and for medicinal purposes.—Prairie-fennel, a plant of either of the umbelliferous genera Lomatium or Musineon, abundant in



Prairie-fennel (Lomatium montanum), One third natural size; fruit natural size.

the western United States from Montana to Washington: suspected of being poisonous to stock. There seems to be some proof of this in the case of Lomatium nudi-



Prairie-fennel (Musineon Hookeri). One third natural size; fruit twice natural size,

caule, but L. montanum and Musineon Hookeri are in-nocuous and bid fair to become useful forage-plants.

fenomenal, fenomenon, etc. Simplified spellings of phenomenal, etc. fense, n. and v. A simplified spelling of fence.

fent, n.—To spring a fent, to test the color-strength of a dye by dipping in it a piece of the material to be colored.

Fenzina (fun'ting'), n. See *fun-ting.
Fenzina (fenz'li-a), n. [NL. (Lindley, 1833), named in honor of Eduard Fenzi (1808-79), an Austrian botanist.] A former generie name of a plant of the family *Polemoniaeeæ*, now referred to Linanthus under the specific name L. dianthiflorus (Fenzlia dianthiflora of Lindley). It is an old garden annual from southern California, dwarf and tafted, bearing a profusion of lilac, purple, or sometimes white flowers resembling pinks. The white-flowered form is sometimes catalogned as Fenzlia alba. See *ground-pink.

ferding (fer'ding), n. [LG. ferding or Sw. fjerding, a fourth part, = E. farthing.] A silver eoin struck at Riga and Revel in the sixteenth century and belonging to the currency of the Order of Livonia. It was equal to the fourth of a thaler.

Fermatian demonstration. See *demonstra-

Fermatian demonstration. See *demonstration.

Fermat's law. See *law!

ferment, n., 2. Familiar examples of the action of ferments are the conversion of starch to dextrose, of albumins to pentones, and of fats to fatty acids and glycerin, by the diastatic, proteolytic, and lipolytic ferments of the digestive juices. Besides the common digestive ferments which are secreted by the digestive glands, there are numerous others which exercise their specific functions within the cells, and which, in contradistinction to the former, are designated as tissue- or intracellular ferments. The number of these is very large, and it appears that many metabolic processes, which were formerly attributed to a special vital activity on the part of cells, are referable to their action. In the liver-cell not less than a dozen different ferments of this character have been demonstrated. The great majority of known ferments are hydrolytic. These effect the cleavage of those substances against which their special activity is directed, in the presence of water, the components of which take part in the reaction. In addition there are the so-called oxyldaxes, which can effect oxidations, and there is evidence to show that reducing ferments, reductaves, likewise occur. Until quite recently it was held that ferment action was in all cases destructive. Research has shown, however, that certain ferments are capable of a reversible action, and are hence constructive as well as destructive. Lipase, for example, will not only cause the decomposition of cthyl butyrate to ethyl alcohol and butyric acid, but it will also construct this substance from the corresponding radicals. Maltase will similarly invert maltose to dextrose and reconstruct the maltose molecule from dextrose. Whether or not all hydrolytic ferments exert a reversible action is not known, but it is quite possible. All ferments have a certain optimum temperature at which their activity is most extensive. This varies somewhat with the different members of the

group, but is about that of the body. Boiling destroys the ferments, but in the dry state they may be heated to a higher temperature without losing their activity. The effect of cold is similar to that of heat. Quite important also is the reaction of the medium. Certain ferments do best with a feebly acid reaction; with others an alkaline reaction is necessary; while still others can act in acid as well as in alkaline and neutral media, but exhibit certain professores. Generally, specific the differences. effect of cold is similar to that of heat. Quite important also is the reaction of the medium. Certain ferments do best with a feebly acid reaction; with others an alkaline reaction is necessary; while still others can act in acid as well as in alkaline and neutral media, but exhibit certain preferences. Generally speaking, the action of the different ferments is specific, that is, a given ferment will act only upon a certain substance in a manner comparable to the relation existing between a lock and its key. Or it might also be said that a given ferment is specifically tuned to the substance upon which it can act. Upon this behavior the classification and nomenclature of the ferments are based. In the latter the suffix -ac is used in connection with the name of the substance against which the specific action of the ferment is directed. A ferment which causes the cleavage of proteins (abunins) is thus termed a protease; on which decomposes fats, a lipase; and similarly amplace, maltase, lactase, unclease, nuclease, altehydase, etc. Of the chemical nature of the ferments very little that is definite is known. As a class, they are usually regarded as being of albuminous character; but it is possible that the reactions which suggest this view are referable merely to contaminating albuminous substances. Colloidal solutions of various metals, such as platinum, palladimu, iridium, osmium, etc., have properties which are very similar to those of the feriments, for which reason they are sometimes spoken of as metallic ferments or inorganic ferments. Breelig and Von Bernek have shown that a gramatomic weight (193 grams) of colloidal pathnum, diffused in 70,000,000 liters of distilled water, is still capable of producing an effect upon more than a million times its amount of hydrogen peroxid. It could further be proved that the reaction. Such colloidal solutions will invert cane-sugar exactly like the organic ferments of an animal or a vegetable organism. As in the case of the latter, also, the action of the inorganism

cleavage of disaccharides to simpler sugars with 6 atoms of carbon.

fermentation, n.—Fermentation test, a test for sugar in the urine, in which yeast is added to the suspected fluid. If sugar is present, fermentation will occur.—Fermentation theory of disease, the theory (now superseded by the germ theory) that certain diseases (the so-called zymotic diseases) are due to a process analogous to fermentation induced in the tissues by the presence of a minnte quantity of the specific virus derived from one sick of the same disease.—Fermentation tube, a delicate glass apparatus designed to detect gases set free by fernentation. The buhbles of gas rise in the vertical tube, which is frequently graduated to measure the gas.—Mucic or muccus fermentations of canc-sugar, in which neither common alcohol nor acetic acid is produced, but in which the sugar yields carbon-dioxid gas, mannitol, and a mueilaginous or gummy substance. Access of air and the presence of nitrogenous matter are necessary, and the solution must rate necessary, and the solution must Tube.

Soc. Chem. Industry, VIII. SII.—Ropy fermentation, a so-called disease of wine and beer which renders the fermenting liquid viscid. It is believed to be caused by the occasional presence of an abnormal ferment-organism.—Tobacco fermentation, a peculiar form of fermentation which occurs during the process of curing tobacco. Oxidizing ferments probably play an important part.

Ferment-cell (fèr'ment-sel), n. In histol., a cell which secretes a ferment.

ferment-cell (fer'ment-sel), n. In histol., a eell which secretes a ferment.

fermenting-square (fer-men'ting-skwar), n. A shallow vat for fermentations. fermentiscible (fer-men-tis'i-bl), a. [Irreg. \(\langle \) ferment + L. \(\displais \) isc-ere, inceptive formative, + ible.] Capable of undergoing fermenta-

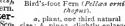
The molecular disturbance thereby produced is imparted to the fermenti|s|cible substance, sugar, and breaks it up into simpler bodies, alcohol and carbon dioxide.

Science, N. S., Jan. 2, 1903, p. 15.

fermentum (fer-men'tum), n. [NL. nse of L. fermentum, ferment.] In the medieval church, a portion of the eucharist reserved from a previous consecration, which was brought to a priest about to celebrate mass. The particle thus used was called fermentum, the leaven, and was often sent by the Pope or a bishop, as a token of Christian communion, to priests in neighboring churches.

ised was called fermentum, the leaven, and was often sent by the Pope or a bishop, as a token of Christian communion, to priests in neighboring churches.

fern¹ n.—Baby fern, the black maidenhair or maidenhair spleenwork. Asplenium Trichomanes.—Beavermeadow fern, Dryopteris thelypteris, with reference to its habitat.—Bird'sfoot fern, Pellæa ornithopus, of western North America, referring to the characteristic shape of the pinnæ.—Bird's-nest fern, Neottopteris Nidus, widely distributed through the eastern tropics. See bird'snest, 1(c) and *kedaha.—Biack fern, an Australasian tree-fern, Cyathea medullaris, the pith of which was formerly eaten. See Cyathea—Biue fern, pellæa atropurpurea, a common North American fern, usually called cliff-brake.—Bog fern, Woodwardia Virginica, a lowland plant of the eastern United States and Canada. See Woodwardia.—Boston fern, a luxuriant cultivated form (Nephrolepis exaltata var. Bostoniensis) of the common sword-fern. See sword-fern.—Boulderfern, Dennstædtia punctitobula. See *Dennstædtia punctitobula. See



a nearly cosmopolitan fern.

See Cystopteris.—Caterpillar-fern, Phyllitis Scolopendrium (Scolopendrium orungare), known commonly as the hart's tongue (which see).—Chain fern. See chain-fern.—Cloak fern, any fern of the genus Notholerna, certain species of which have the margins of the frond inflexed, serving as a partial 'cloak' or covering to the sporangia. See Nothalara.—Coffee-fern, Pellæa andromedæfolia, of Arizona and California, so called in allusion to the resemblance of the revolute-margined leaf-segments to kernels of Coffae.—Coral-



gined leaf-seg-ments to kernels of coffee. — Coral-fern, Gleichenia coffee. — Coralfern, Gleichenia
eirchnafa, an Australasian fern. —
Cotton-fern,
Nothokena Newberryi, a fern of
southern California, covered on its
muder surface by a
webby tomentum
of entangled soft,
whitish hairs, sugcesting cotton.—
Crape-fern, Leptopteris superba, of
New Zealand. —
Creeping-fern. Creeping-fern. Same as climbing-fern (which see).—



Interrupted Fern (Osmunda Claytoniana). (From Britton and Brown's "Illustrated Flora of the Northern States and Canada,") Two fifths natural size.

vernacular name. It is a native of the eastern United States and Canada.—King fern, the royal fern, Osmunda regatis. See Osmunda.—Ostrich fern. See ostrich-fern and *Matteuecia.—Parasol-fern. Same as coral-*fern.—Pod and Canada.—King fern, the royan icin, or many see Osmunda.—Ostrich fern. See ostrich-fern and *Matteuccia.—Parasol-fern. Same as coral-*fern.—Pod fern. See pod-fern.—Prickly-fern, in Australia, Alsophila australia, a tree-fern 25 to 30 feet high.—Resurrection-fern, in the southern United States, Polypodium polypodioides, which contracts during drouth but revives in molst seasons; hence the name. See polypody.—Ribbon fern. (a) Pteris serrulata, a native of China, widely spread throughout tropical and warm temperate regions. (b) In Australia, Ophioderma pendula.—Snake-fern. (a) See snake-fern. (b) The royal fern, Osmunda regalis, which grows in low, wet situations and is thus associated popularly with snakes. See Osmunda.—Spider-fern. Same as ribbon-*fern.—Strawberry-fern, Hemionitis palmata, so called in Jamaica.—Sword-fern. (a) Any species of the genus Nephrolepis, especially N. exaltata, which is, in one or another form, by far the most commonly cultivated fern in the United States. See Boston *fern, and Nephrolepis. (b) In Australia, Grammitia australis, a small species with simple leaves.—Umbrella-fern. Same as eagle-*fern.—Water-fern. (a) and (b) See water-fern. (c) Same as floating.*fern. See *Ceratop-teris.—Windsor fern. same as eagle-Afern.—Water-ieri. (a) and (b) see wester-fern. (c) Same as floating-Afern. See *Ceratop-teris.—Windsor fern. Same as creeping-Afern. fern-ball (fern-ball (fern-bal) n. An artificial ball consisting of the creeping rhizomes of certain

Japanese ferns, commonly of Davallia bullata, ferrobronze (fer'ō-bronz), n. In metal., bronze closely bound together with absorbent vegetable fiber. Growth is induced by drenching in water and hanging in a warm shaded situation.

fern-bird (férn'bèrd), n. A small passerine bird of New Zealand, which belongs to the genus Sphenæuchus and is usually placed with the warblers of the Old World. fern-bush (fern'bush), n. Same as sweet-fern

(which see with cut).

fern-chafer (fern'chā"fer), n. A British eollectors' name for a European scarabæid beetle, Rhizotrogus solstitialis.

fern-cycad (fern'si'kad), n. Any plant belonging to the Cycadofilices. See *Cycadofilices.

These plants, therefore, whilst retaining the outward form of ferns, are in reality transitional types. For convenience, these plants, which include the genera liter rangium, Lyginodendron, Medullosa, and many others have been placed in a special group, the Cycadofflices or Fern-Cycads.

Nature, June 4, 1903, p. 113.

fern-tree (fern'tre), n. In Australia, a treefern (which see).

fernwort (fern'wert), n. Any plant belonging to the Pteridophyta, or ferns and fern allies.

In recent years tardy justice has been given to the fernworts (Pteridophyta). Science, May 22, 1903, p. 830.

Ferranti effect. See *effect.

ferrarti effect. See *effect. a carbonate intermediate between dolomite and ferrarenite (fe-rar'en-īt), n. [L. ferrum, iron, + arena, sand, + -ile².] In petrog., a sandstone composed of iron ores. Grabau, 1904. ferroferric (fer-ō-fer'ik), a. In chem., same as ferrated (fer'ā-ted), p. a. [L. ferratus, covered with iron, + -cd².] Charged with iron as a constituent, as a substance of organic origin ferrogallic (fer-ō-gal'ik), a. 1. In pholog., not iron printing recess in which representations.

intended for medical use.

ferratin (fer'a-tin), n. [ferrate + -in2.] Au iron-containing nucleoproteid which occurs in the liver. It was discovered by Schmiedeberg. See *phosphocarnic acid.

ferratogen (fe-rat'ō-jen), n. [ferrate + -gen.] A nuclein compound of iron containing 1 per cent. of that metal: said not to be affected by the gastrie juice but absorbed in the intestine. Ferrel's gradient formula, law, theory of cyclones, theory of the circulation of the atmosphere. See *gradient, *daw!, *cyclone, *circulation.

ferret!, n.—Black-footed ferret, Putorius nigripes, a member of the weasel family, which inhabits the plains of Nebraska and Kansas, where it feeds largely on prairiedogs. It is of a yellowish-brown color, with the tip of the tail and the legs black.

ferric, a. 2. In elect.. containing iron.—Ferric hydroxid, in chem., a substance, Fe₂(110)₆, which oc-

curs as a constituent of brown hematite ore of iron and of curs as a constituent of brown hematite ore of iron and of common iron rust; artificially prepared it is a useful coagulant for clarifying water, and serves as a brownish or buff-colored dye. Improperly called ferric hydrate.—Ferrie Inductances, inductances with an iron core.—Ferrie nitrosulphate, in chem., a basic ferric salt, made by treating ferrous sulphate with nitric acid; it has been used in tanning.—Ferrie oxid, in chem., Feo.O3, the red oxid of fron, which occurs in nature as specular iron ore and red hematite, and as a constituent of brown hematite ore and of iron rust; artificially prepared it is used as a polishing-powder (coleothar) and a cheap pigment.—Ferrie sulphate, in chem., a substance, Feo.ScO.Ja, used, alone or as a constituent of iron alum, in certain processes of tanning and dyeing.

[erricyanhydric (fer"i-si-an-hi'drik), a. Same

ferricyanhydric (fer"i-sî-an-hî'drik), a. Same as hudroferrocuanic

so-called livers of various invertebrates.

ferrirudite (fer-i-rö'dīt), n. [L. ferrum, iron, + rudus, rubble, + -ite².] In petrog., a conglomerate or breccia of iron ere or distinctly iron-bearing minerals. Grabau, 1904. errite, n. 2. In chem.: (a) A compound of

ferrite, n. ferric oxid (Fe₂O₃) with a more basic metallic oxid, as calcium ferrite (CaFe₂O₄), from the union of ferric oxid with lime (CaO). The mineral franklinite consists essentially of zinc ferrite, and magnetite or magnetic fron ore (Fe₃O₄) may be viewed as iron ferrite (FeO. Fe₂O₃). (b) Pure iron as separated out (from iron carbides) in the cooling of steel. ferritization (fer"i-ti-zā'shon), n. [ferrite +

-ize + -ation.] In petrog., alteration of other

minerals into ferrite.

ferro-alloy (fer'ō-a-loi"), n. An alloy of iron; a chemical mixture of some metal with iron. ferro-aluminium (fer*ō-al-ū-min'i-um), n. In metal., an alloy of iron and aluminium, nsed in modifying the character of steel, and in the production of mitis-eastings of wrought-iron.

ferroboron (fer-ō-bō'ron), n. In metal., a compound of iron with boron, iron boride, intended for use in ascertaining the modifying effect of boron upon steel.

or gun-metal alloyed with a small proportion of iron.

ferrochrome (fer'o-krom), n. See *ferrochromium.

ferrochromium (fer-ō-krō'mi-um), n. An alloy of iron and chromium, the proportions of the latter element varying from over 20 per cent. in poor ferrochromium to more than 63 per in poor ferrochromium to more than 63 per cent. in rich ferrochromium. The percentage of earbon in the alloy is sonetimes as high as 10. Ferrochromium is prepared in crucibles and requires a large consumption of fuel. When the required proportion of chromium is not above 40 per cent, it is prepared in a blast-furnace from chrome fron-ore. Ferrochromium is used chiefly in the production of chrome-steel (which see, under *steel*). It is also made by electric smelting, and by the Goldschmidt process (see *aluminothermies).

eral cobaltite, when containing a more than usually large proportion of iron.

ferroconcrete (fer-ō-kon'krēt), n. Reinf concrete; steel-concrete. See *concrete.

ferrocyanhydric (fer "ō-sī-an-hī'drik), a. Same as hydroferrocyanic, ferrodolomite (fer-ō-dol'ō-mīt), n. In mineral.,

a carbonate intermediate between dolomite and siderite, containing variable amounts of iron.

ferroferric (fer-ō-fer'ik), a. In chem., same as ferrosoferrie. Jour. Soc. Chem. Industry, XIV. 157.

ing a printing process in which paper sensi-tized with a solution containing gelatin, ferric chlorid, ferric sulphate, and tartaric acid, and dried in the dark, is, after exposure beneath a negative or a tracing, developed by immersion in a solution of gallic acid. The print shows black lines on a white ground. Gallic acid may be dusted on the sensitized paper before exposure. The print is then developed by washing in water.

2. Noting paper sensitized as above described:

largely used by architects and engineers.

ferroglass (fer'ō-glas), n. [L. ferrum, iron, + E. glass.] Same as *wire-glass.

taining both iron and magnesium: applied to minerals and also to rocks. The common ferro-

minerals and also to rocks. The common terromagnesian rock-making minerals are pyroxenes, amphiboles, micas, and olivin.

ferrometer (fe-rom'e-ter), n. [L. ferrum, iron, + Gr. µέτρων, a measure.] An instrument devised for the determination of the quantity of iron in the blood.

ferromolybdenum (fer/o-mo-lib-de/num), n. A chemical mixture of iron and molybdenum, prepared by melting pure metallic molybde-num and adding to it the required percentage of metallic iron: used principally in making steel for gun-forgings.

as hydroferrocyanic

Ferrier's albumin process. See *process.

ferrilutite (fer-i-lū'fīt), n. [L. ferrum, iron, +
lutum, mud, +-ite².] In petrog., a ferruginous
mud rock. Grabau, 1904.

ferrin (fer'in), n. [L. ferrum, iron, +-in².]
A brown iron-containing pigment found in the
concelled livers of verious invertebrates.

ferropallidite (fer-ō-pal'i-dīt), n. A white granular ferrous sulphate, FeSO₄.H₂O, which occurs with roemerite in Chile.

ferroproteid (fer-ō-prō'tē-id), u. in combination with an iron-containing radical -for example, hemoglobin.

ferropyrin (fer- δ -pi'rin), n. [L. ferrum, iron, + Gr. $\pi\nu\rho(\epsilon\tau\delta\epsilon)$, fever, + $-in^2$.] A trade-name for an orange-colored powder prepared from antipyrin and ferric chlorid, containing 64 per cent. of the former and 12 per cent. of the latter. It is soluble in water and alcohol and is stated to have remarkable styptic properties without caustic effects.

ferrosilicon (fer-ō-sil'i-kon), n. In metal., compound of iron with silicon (iron silicide), rich in the latter element, for use in steelmaking.

ferrosomatose (fer-ō-sō'ma-tōs), n. A brown tasteless powder which consists of a mixture of 2 per cent. of an organic compound of iron with somatose, easily soluble in water: hematinie and non-styptic.

ferrotitanium (fer "ō-ti-tā'ni-um), n. In metul. an alloy of iron and titanium used to some extent in steel-making.

ferrotungsten (fer- \bar{o} -tung'sten), n. an alloy of iron and tungsten, rich in the latter metal, used in the manufacture of tungsten steel for cutting-tools.

Ferrous oxalate, in chem., oxalate of iron with ferrous (apparently dyad) valence, Fet 204. It occurs in the mineral humboldtite in lignite deposits, and is used in solution by photographers.—Ferrous oxid, in chem., a compound of iron with oxygen, Fe0, in which the iron has apparently dyad valence.—Ferrous sulphate, in chem., sulphate of iron (with ferrons valence), Fe804, or in the crystallized condition Fe804, 7H20, a salt extensively used in the arts for many purposes; same as green vitriol or copperas. See copperas.

ferro-vanadium (fer "ō-va-nā'di-um), n. chemical mixture of iron and vanadium, used somewhat in the manufacture of steel.

ferrugination (fe-rö-ji-nā'shon), n. The process whereby, in the alteration of iron-bearing rocks, the residue becomes permeated and stained with compounds of iron, chiefly the hydrexid limonite

ferrule-hook (fer'il-huk), n. A ferrule and hook combined, used as an end-trimming for a swingletree.

ferrule-ring (fer'il-ring), n. A combined ferrule and ring for the end of a neck-yoke. ferrum (fer'um), n. The Latin name fer iron,

from which the chemical symbol for the metal. Fe, is derived: used by German pharmaceutical chemists, in price-lists, etc., and in the names for iron compounds, as ferrum citricum, citrate of iron.

ferry, n.erry, n.—Aërial ferry, a transporter bridge or ferry-bridge; a device for transferring traffic across a navigable stream or waterway by means of a platform suspended from a traveler or trolley running on a track on a bridgetroin a traveler or trolley running on a track on a bridge-span, elevated by end-towers sufficiently high to prevent interference with navigation. The traveler, which is operated by motors controlled from the platform or car, travels back and forth across the bridge-span, and thus conveys the suspended platform at the level of the roadway or approaches back and forth from one approach or landing to the other.

fertil, a. A simplified spelling of fertile.

Fertile worker. See *worker.

fertilization n.—Artificial fertilization (c) The

Fertile Worker. See **worker. fertilization, n.—Artificial fertilization, (a) The bringing about of fertilization by artificial means, such as placing the ripe ova and male cells of a fish in contact, or placing the pollen of a flower upon the stigma. (b) The artificial initiation of the process of development in an unfertilized egg by something else than a male cell. In 1899 Loob found that after the unfertilized eggs of the sea-unchin have been immersed in a dilute solution of magnesium chlorid in sea-water they undergo normal or nearly normal development when they are transferred to pure sea-water. This has been held to be proof that fertiliza-

fertilization

tion is a chemical process; but more recent experiments have shown that a similar effect may be produced by cane-sugar, urea, sulphuric acid, strychnine, and even, in the silkworm, by gently brushing the eggs. The eggs in which the experiments are most successful are those that occasionally develop without fertilization under normal conditions, and as there is no physical or chemical similarity between the objects that have been used with success, it seems probable that they do no more than to disturb the stability of the egg and permit its organic mechanism for development to work, and that the effect may be no more like that produced by the male cell than a jar which opens the valve of a steam-engine is like the engineer. —Asymmetrical fertilization, the appearance, in the second generation and in later generations, of the descendants of a cross between two varieties of individuals that differ among themselves with respect to a parental characteristic: considered as evidence of the resolution of compound gametes into mult-characters.

In general terms we can declare that the result of the eross—the "asymmetrical fertilization," to speak strictly—is the production of a diversity of gametes.

Proc. Roy. Soc. (London), 1903, IL 79.

fertilizer-sower (fèr' ti-lī-zèr-sō " èr), n. horse-power machine for sowing chemical fertilizers in drills or broadcast; an attachment to a seed-sower, either a broadcast or drill machine.—Hand fertilizer-sower, a small machine, resembling a hand broadcast sowing-machine, used to scatter ashes or other fertilizer or to spread sand upon its sidewalks or roadways. See sowing-machine.

fertilizing-pouch (fer'ti-li-zing-pouch), n. The

spermatotheca or receptaculum seminis of the

queen-bee.

queen-bee.
ferulic (fe-rö'lik), a. [Ferula + -ie.] Derived
from Ferula Narthex or asafetida.—Ferulic acid,
metamethoxy-parahydroxycimamic acid, C₁₀H₁₀O₄, a
crystalline substance which occurs in asafetida and can
be made artificially from vanillin.

F. E. S. An abbreviation (a) of Fellow of the Entomological Society; (b) of Fellow of the Ethnological Society.

Entomological Society; (b) of Fellow of the Ethnological Society.

fescue, n.—California fescue, Festuca aristulata, a Pacific species forming large and handsome tussocks along streams, etc.: rather harsh and coarse for forage.—Creeping fescue. Same as red *fescue.—Hard fescue, Festuca orina duriuscula, a variety of the sheep's-fescue, which thrives on dry sandy soils and resists summer drought. It is of value for pasture, in cooler and mountainous regions and, if sown thickly and exclusively, makes a good lawn.—King's fescue, a native bunchgrass, Festuca confinis, valuable for forage on dry slopes in the northern Rocky Mountain region.—Meadow fescue. See tall *fescue.—Rat's-tall fescue, a slender weedy species, F. Myuros, with a close narrow panicle to which the name refers. It is a European apacies now well spread over North America.—Red fescue, Festuca rubra, a species of many forms with somewhat the range of the sheep s-fescue, and differing from that species in having creeping rhizomes by which it forms a compact turf. In Europe it is rated with the best forage plants: in Germany it is highly esteemed for dry aandy meadows. It is a good sand-binder and is useful also for shady lawns. A variety (glaucodea) called Tennessee fescue is the best pasture-grass in mountain valleys of North Carolina and East Tennessee.—Reed-fescue. See tall *fescue.—Sheep's fescue. See sheep's-fescue.—Siender fescue, a native species, F-otofora, with thin erect culms and a narrow raceme or panicle, found in dry sandy places, etc., in the United States.—Tall fescue, a European species, F-otofora, with thin erect culms and sasture on moist soils rich in humus. A form 2 or 3 feet high with a marrow panicle is the ordinary meadow and pasture on moist soils rich in humus. A form 2 or 3 feet high with a marrow panicle is the ordinary meadow-fescue, A more robust variety (arundinacea) is called reed-fescue, and is very hardy and productive.—Various-leafed fescue, a sender European species of creeping habit, Festuca heterophylla, related

fest³ (fest), n. [G., a feast, a festival: see feast.] In German usage, a gathering of many persons to participate in or enjoy some festal performance, as singing, shooting, gymnastic

retributance, as singing, shooting, gymnastic exercises, etc.: as, a sängerfest, schützenfest, turnfest, etc. Forest and Stream.

festilogy (fes-til'ē-ji), n. [L. festum, festival, + Gr. -λογια, ζ λέγειν, speak.] A treatise en ecclesiastical festivals. Sometimes spelled

festologu.

stead of eight; and Rosh ha-shanah has two instead of one. There are several minor festivals and holidays in the Jewish calendar, but these, with the exception of **Hanukah* (which see), as well as the above-named additional days, are disregarded by many reformed congregations.

festivous (fes'ti-vus). a. [festive + -ous.] Festive: as, a festivous occasion.

festology (fes-tol'ō-ji), n. Same as *festilogy. festoon, n. 5. A British cellectors' name for a European limacodid meth, Apoda testudo, yellow-brown in color with stripes arranged like a festoon. narrow brown

festoon-pine (fes-tön'pin), n. Same as Christmas *evergreen,

Fetal circulation, the course of the blood-current in the the adult, owing to the fact that the aëration of the blood occurs in the placenta instead of in the lungs. There is a occurs in the placenta instead of in the lungs. There is a communication between the two sides of the heart, and the entire mass of blood in the body is of a mixed venous and arterial character, except that in the umbilical vein, which passes from the placenta to the liver, which more nearly resembles the arterial blood in the adult.—Fetal envelops, the membranes which cover the fetus in the womb; the chorion, amnión, and allantois.—Fetal inclusion, a double monstrosity in which one fetus is inclosed in the other; intrafetation.—Fetal membranes. Same as *fetal envelops.

fether, fethery. Simplified spellings of feather,

Fetid limestone. See *limestone. fetidity (fē-tid'i-ti), n. [fetid + -ity.] Fetid nature er smell.

fetid-shrub (fē'tid-shrub), n. The papaw, Asimina tritoba.

fetish-drum (fē'tish-drum), n. in connection with fetishistic rites

fetish-house (fe'tish-hous), n. The house or hut in which a fetish is kept. E. B. Tylor. fetishic (fe-tish'ik), a. [fetish + -ic.] Pertaining to or having the character of a fetish.

F. Ratzel (trans.), Hist. of Mankind, I. 43. fetish-priest (fē'tish-prēst), n. A persen who, with the assistance of a fetish, exercises magical powers and performs religious functions: a term nsed to designate the shaman of Africa. F. Ratzel (trans.), Hist. of Mankind, H. 367. fetticus (fet'i-kus), n. [Origin net known.]

The leaves of the corn-salad, used as a salad. The leaves of the corn-salad, fised as a salad.

fettler (fet'ler), n. One who fixes or prepares.

Specifically—(a) one who cleans castings in a foundry, chipping of rough spots, fins, etc., and brushing off the sand. (b) One who prepares the hearth of a puddling-furnace. (c) One who shaves and smooths green pottery to remove the seams made in molding. (d) In textile.

manuf., one who cleans up machinery, or serves as a helper in a menial capacity.

fettling, n. 2. The repairing or preparation of a machine or part of a machine.—3. The process of cleaning eastings after they leave they did it or made it: (b) of folios: (c)

process of cleaning castings after they leave the foundry sand, including the chipping off of runners, fins, and scabs, filing rough spets, cleaning sand from the surfaces, and cleaning Faculty of Actuaries. out cores.—4. The repairing of the hearth of **Ffestiniog flags**. See $*flag^4$. a puddling-furnace by the use of iron ore rich fff. In music, an abbreviation of fortissimo: a puddling-furnace by the use of non-state in oxygen.—5. In ceram, the process of evening the glaze on the surface of biscuit-wave F. F. P. S. An abbreviation of Fellow of the Faculty of Physicians and Surgeons.

Faculty of Physicians and Surgeons. before it is fired in the glost-kiln. After the ware Faculty of Physicians and Surgeons. has been dipped in the liquid glaze and allowed to dry, f. g. a. An abbreviation of free of general the excess of dry glaze is scraped out of the hollows and perforations. The surface is then retouched with a brush in spots which are thin or bare.

Fig. 3. An abbreviation of free of general average.

F. G. S. An abbreviation of Fellow of the Geological Society.

feu et lieu (fé ā lyè). [F., L. focus et locus, logical Society. 'hearth and place.'] In old French Canadian f. h. p. An abbreviation of friction horseactual settle- power. Bourier Law F. H. S. law, hearth and home, meaning actual settlement by a tenant on the land. Bouvier Law Diet.

feu-holding (fū'hōl"ding), n. In Scots law, a F. I. A. An abbreviation of Fellow of the Intenure in which the tenant pays feu duty to stitute of Actuaries.

his superior. See feu. feuillemorte, n. 2. Same as feuillet, 2.

festinate (fes'ti-nāt), v. i.; pret. and pp. festinated, ppr. festinating. To quicken the steps involuntarily when walking, as in paralysis agitans. Buck. Med. Handbook, VI. 486.

Festival of Lights. See *Hanukah.—Jewish festivals or holy days may be divided into two categories, Biblical and post-Biblical. The former are: (a) The Sabbath (which see). (b) Rosh hodesh, the first (day) of the Jewish lunar month (Num. x. 10). (c) Pessh, the Passover, also called Chap ha-matoth, the Feast of Unleavened Bread (see *matoth). (d.) Shabnoth, or Chap ha-Shabuoth, the Feast of Wecks, also called Yom ha-bikurim, or Day of the First-fruit (Num. xxviii. 26). (e) Sukkoth, meaning 'bookhs,' or 'tabermacles,' called Rhodesian redwater, Rhodesian tick-fever, coart indefinite term denoting any fever which occurs in Feast of Ungathering (see Feast of Tabernacles). (f) Yom Ternah (Num. xxix. 1), the 'day of blowing the trumpet, now known as Rosh ha-shanah or first of the Jewish year, when the shofar (ram's horn) is used. (g) Yom ha-kippurim, the Day of Atonement, which is not properly aday of feasting, but the most solemn fast-day in the year. The post-Biblical Jewish authorities have added an extra day to the principal festivals; thus the Feast of Wecks, has now eight instead of seven days; the Feast of Wecks has two instead of one; the Feast of Tsbernacles has (including Shemini 'Atsereth and Simhath Torah) nine in the temperature of the body during the process of acclimation.—Aden fever, Same as feuillet, 2.

fever¹, n.—Acclimation fever, an ephemeral fever which attacks a new-comer in the tropics. It has no definite character, but may be of gastric, malarial, or thermal origin, or may be a mild yellow fever. Same as dengue.—Adenonervous fever. S

digestion.—Dumdum fever, a disease occurring in India, which resembles, and perhaps is identical with, kala-azar. It is marked by enlargement of the liver and spleen and by the presence of protozoan parasites in blood drawn from the spleen.—East Coast fever. Same as African Coast *fever.—Elephantoid fever. See *elephantoid.—Fracture fever, a slight elevation of the body temperature coming within a few hours of the occurrence of a fracture.—Garrick fever. Same as *dedons *fever.—Giraffe fever. Same as dengue. Sci. Amer., April 9, 1904. p. 287.—Hemoglobinuric fever. Same as black-weter *fever and hemoglobinuria. Jour. Trop. Med., June 1, 1903, p. 183.—Lazaret fever. Same as *fever.—Malarial fever of cattle. Same as *fever. Also known as piroplasmosis boxis.—Malta fever, a disease marked by long continuance of the fever at a nearly constant level, prostration, pains in the joints. **speer.**—Malarial lever of cattle. Same as *text.*
*fever, a disease marked by long continuance of the fever at a nearly constant level, prostration, pains in the joints, headache, and diarrhea. It prevails along the shores of the Mediterranean and in other subtropical and tropical regions, and is associated with the presence in the body of a special microbe, *Micrococcus melitensis.** Also called rock-fever, Mediterranean fever, *Naples fever.**—Magnes fever.**—Magnes fever.**—Magnes fever.**—Same as *Malta *fever.**—Naples fever.**—Naples fever.**—Same as *Malta *fever.**—Naples fever.**—Same as *Malta *fever.**—Naples fever.**—Same as *Malta *fever.**—Naples fever.**—Same as *Malta *fever.**—Paratyphold fever, a continued fever resembling typhoid in its general symptoms, but not responding to the specific tests for that disease; its causation is not yet definitely ascertained.**—Rhodesian fever, a cattle-disease in Africa, resembling in its symptoms and mode of transmission (by a tick) Texas fever. *Athenæum, May 21, 1904, p. 659.—Siddons fever, a low fever believed to be due to the aggregation of large numbers of persona in poorly ventilated roons: so called because it once prevailed in Edinburgh while Mrs. Siddons was playing there.—Southern fever. Same as *Texas fever of cattle, an anemia caused by *Piroplama bigeninum.*—Spotted fever.* (c) See *tick-fever.*—Stiff-necked fever.* Same as dengue.—Subcontinuous fever, remittent malarial fever. Texas fever. See *Texas.—Trypanosoma fever, s fever in man (sleeping-aickness*) or in snimals (surra, dourine) due to the presence in the blood of one of the species of *Trypanosoma.* *Nature, Dec. 3, 1903, p. 108.—Undulant fever.* Same as *Malta *fever.—Urinary fever.* Same as *Malta *fever.* Urinary fever.* Same as *Malta *fever.

fever-bush, n.—California fever-bush. See *bear-brush and tassel-tree. Same as

feverd, pp. and a. A simplified spelling of

fever-fly (fe'vèr-fli), n. A name given in England to a fly, Dilophus febrilis, which occasionally multiplies excessively. In past years the co-incidental prevalence of fever during the swarming of this fly gave rise to the popular name. The larva eats the roots of the hop-plant.

fever-gum (fē'vèr-gum), n. The blue-gum, Eu-

calyptus globulus. See fever-tree, 1. fever-wood (fē'ver-wud), n. Same as fever-

-3. The ff. An abreviation (a) of the Latin feerunt, ney leave they did it or made it; (b) of folios; (c) of

fortissimo; (d) of following (plural).

F. F. A. An abbreviation of Fellow of the Faculty of Actuaries.

An abbreviation of Fellow of the

Horticultural Society.

Fianchetto di donna opening. See *opening.

fiat, n.—Joint flat, in law, a flat which formerly issued against two or more trading partners. Bouvier, Law Dict.

issued against two or more trading partners. Bourser, Law Dict.

fiber¹, n.—Ansulate fibers, a decussating system of fibers which exists in the brain of reptiles and amphibians and is regarded-as corresponding to Meynert's commissure in mammals.—Association fibers, in neurol, fibers which connect different regions of the same cerebral hemisphere: opposed to commissural fibers, which connect the two hemispheres.—Bahama fiber, the fiber of Agave rigida, from plants cultivated in the Bahamas. See henequen.—Bamboo fiber. See *hamboo.—Bastfibers. See bast¹, 2.—Bolo-bolo fiber, the bastfiber obtained from Clappertonia ficiolia, a West African plant of the linden family.—Chambered fibers, in bot., fibers which have become septate so as to appear multicellular, such as occur in the secondary wood of dicotyledons.—Cosmos fiber, any mixed waste of vegetable fibers, as flax, inte, hemp, nettle, etc.—Gaboon fiber, a stiff variety of the African bast or piassava: used for stiff brushes.—Hard fiber, a tradename for paper which has been passed through a warm solution of zinc chlorid, and afterward over heated rolls, cooled, and thoroughly washed with pure water. It is strong and tough, and is not injured by water.—Indurated fiber. Same as hard *fiber.—Interzonal fibers, a bundle of delicate achromatic fibers constituting thecentral spindle during karyokinetic cell-division. This spindle is

enveloped by the *mantle-fibers (which see, and also cut at *dispireme).—Leaf-fiber machine, a machine for extracting the fiber from fieshy-leaved plants, as the agave.—Manila fiber. Same as manifa, 2.—Manila fiber. Same as manifa, 2.—Manila fiber. Same as manifa, 2.—Manila fiber. Same as Mauritius *henp.—Mexicana fiber, the fiber of the Agaee heteracantha, or istle, found in Mexico, Texas, and California, used for the manufacture of cheap brushes.—Moriche fiber, a there obtained from the young leaves of the ita-palm, Mauritia fexuosa. It is prepared in the same manner as raffia, by stripping off the outer skin of the unexpanded leaves and drying in the sun. It is then twisted into strings and made into cords and hammocks. See Mauritia and ita-palm.—Motor fiber, one of the fibers in a mixed nerve which convey motor or centrifugal impulses only.—Odontogenic fibers, a term suggested by Mummery for the "layer of connective tissue surrounding the pulp and entering into the substance of the matrix." The term is suggested because of their great similarity to the osteogenic fibers of bone.—Olona fiber, a fiber prepared from the bast of Touchardia latifolia, a nettle-like plant growing in the Hawaiian Islands, called olona by the natives. It is remarkable for its strength and durability, and is used chiefly for making fish-nets, some of which are more than 100 fathoms long.—Opuhe fiber, a bast-fiber derived from the stems of Urera Sandwicensis, a Hawaiian plant belonging to the nettle family. It is highly esteemed by the natives, who use it for the same purposes as the olona.—Palma fiber. Same as palma *istle.—Palmyra fiber, a fiber fobataned from the base of the leaf-stalks of the palmyra palm, Borassus flabelifer. It is harsh and wiry, and has become of importance commercially since 1891, replacing to a great extent the West African bast-fiber, derived from Raphia vinifera in the nanufacture of stiff brushes. See palmyra, 1.—Pontine fibers, the nerve-fibers present in the pons Varolii.—Postcommissural fibers, enveloped by the *mantle-fibers (which see, and also cut at fibril, n. 3. In histal., a delicate fiber, such palm. Borassus fabelijer. It is harsh and wire, and has become of importance commercially since 1891, replacing to a great extent the West African bast-fiber; derived from Raphia vinifera in the manufacture of stiff brushes. See palmyra, 1.—Pontine fibers, the nerve-fibers present in the pons Varolii.—Postcommissural fibers, fibers of the postcommissure situated just posterior to the pedinnel of the epiphysis. The fibers pass through the optic thalsmi and, according to Meynert, diverge into the white substance of the cerebral hemispheres. In lower vertebrales the fibers pass ventrally through the thalami and join the basal tract. Smith applies the term to uncrossed fibers derived from the hippocampus which "collect upon the dorsal aspect of the ventral [prejcommissure and incline backward and downward to enter the thalami cregion." Trans. Linean Soc. London, June, 1897, p. 53.—Postretinal fiber, any one of a series of nerve-fibers arising from the facets of the compound eye of an insect and passing into the ganglionic or outer lobe of the optic ganglion of the brain.—Precommissural fibers, fibers of the precommissure in the lamina terminalis. In each hemicerebrum the bundle of fibers divides. One division, passing ontwardly and anteriorly, is designated as the pare offactoria; the other division, passing posteriorly, is the pars temporalis. Smith uses the term in another sense, referring it to fibers originating in the hippocampus which, in their course, are divided by the ventral commissure for commissure of other writers). Those proceeding downward and forward in front of the ventral commissure are termed precommissured fibers.—Prussak's fibers, fibers which extend from the short process of the malleus to the notch of Rivini.

—Quartz fiber, a fiber obtained by fusing quartz in the oxyhydrogen fiame and drawing it out while soft into a filament. Fibers thus produced are sometimes so fine as to be invisible to the unaided eye. They are, however of gavanometers and of other physical instruments of extreme deli

from wood-pulp or other materials and called fiber. There are many kinds of fiber, most of them hav-ing names to define the use for which they are intended. 2. Said of paper that plainly shows fibers on its surface, as that made for United States bank-notes and some forms of bond-paper. fibra, n .- Fibræ propriæ. Same as short association

fibrification (fi"bri-fi-kā'shon), n. The formation of fibers or fibrous structures.

I have not detected any other fibrification of the cells H. Burmeister (trans.), in C. L. Nitzsch, Pterylography, [p. 9.

as, according to one theory, is found in the protoplasm of cells.—Side fibril of Golgi, a delicate branch passing off at right angles from the neurax-

protopiasin of ceris.—side norm of coigi, a denicate branch passing off at right angles from the neuraxone near its junction with the body of a ganglion-cell.—Tomes's fibrils. See Tomes's *fibers.

fibrilia (fi-bril'i-ä), n. [NL., \langle L. fibra, fiber.]

Any fine vegetable fiber that can be substituted for extract the interest of fibrilia. tuted for cotton in the manufacture of fabrics. fibrillate, v. II. intrans. To form fibrils, as coagulating blood.

fibrillation, n. (b) The formation of fibrils. Fibrin antipeptone. See *antipeptone. Myosin fibrin, an insoluble form of myosin; one of the coagni fibrin, an inson lated albumins.

fibrin-factor (fī'brin-fak"tor), n. A substance which is concerned in the formation of fibrin; specifically, a substance which will give rise to the formation of fibrin, such as fibrinogen. fibrin-globulin (fī'brin-glob"ū-lin), n. Same as *fibrinoglobulin.

fibrinocellular (fi"bri-nō-sel'ū-lär), a. Composed of fibrin with au admixture of desquamated cells.

fibrinogenetic (fī"bri-nō-jē-net'ik), a. Same as fibrinogenie

fibrinoglobulin (fī bri-nō-glob ū-lin), n. globulin which is derived from fibrinogen during the process of coagulation, that is, during the transformation of fibrinogen into fibrin.

fibrinopurulent (fī/bri-nō-pū'rō-lent), a. In pathol., noting the type of certain exudates, of inflammatory character, which show a tendency to clot and which contain pus.

fibrinose (fī'bri-nos), n. An albumose derived from fibrin.

fibrinosis (fī-bri-nō'sis), n. [NL., < fibriu + -osis.] In pathol., a condition in which there is an excessive tendency to coagulation of the

Fibrinous bronchitis. See *bronchitis.- Fibrinous croup, true croup. — Fibrinous pleurisy. See *pleurisy.— Fibrinous pneumonia. Same as croupous pneumonia (which see, under pneumonia).

fibrinuria (fī-bri-nū'ri-ā), n. [NL., < fibrin + Gr. ovpov, urine.] The passage of fibrin in urine: sometimes associated with chyluria.

fibro-adenoma (fī/brō-ad-e-nō'mä), n.; pl. fibroadenomata (-ma-tä). A glandular tumor containing much fibrous tissue.

fibro-adipose (fi-bro-ad'i-pos), a. Composed of fibrous and fatty tissue.

fibro-angioma (fi"brō-an-ji-ō'mā), n.; pl. fibro-angiomata (-ma-tā). An angioma with a large admixture of fibrons tissue.

fibrobronchitis (fī"bro-brong-kī'tis), n. eroupous inflammation of the mucous membrane of the bronchial tubes.

fibrocarcinoma (fī/bro-kar-si-no'ma), n.; pl. fibroearcinomata (-ma-tä). A carcinomatous tumor which contains much fibrous tissue. fibrocaseous (fī-bro-kā'sē-us), a. Containing

fibrous tissue with cheesy matter.

Fibrocellular tumor. Same as fibroma. fibrochondritis (fi*brō-kon-dri'tis), n. [NL., < L. fibra, fiber, + Gr. χόνδρος, cartilage, + -itis.] Inflammation of a fibrocartilage. fibrocrystalline (fi-brō-kris'ta-lin), a. Crystallized in fibrons form as many calcargons.

tallized in fibrous form, as many calcareous organic structures, such as the skeletons of the eorals.

fibrocyst (fī'brō-sist), n. ibrocyst (fi'brō-sist), n. [L. fibra, fiber, + Gr. κέστα, bladder (cyst).] A fibroid tumor which is undergoing cystic degeneration.

fibrocystoma (fi"brō-sis-tō'mā), n.; pl. fibrocystomata (-ma-tā). [NL., as fibrocyst + -oma.] A fibroma which contains cysts. fibro-elastic (fi"brō-ē-lās'tik), a. Containing

white fibrous and elastic tissue.

fibroglioma (fi'brō-gli-ō'mā), n.; pl. fibroglio-mata (-ma-ti). [NL., < L. fibra, fiber, + NL. glioma.] A mixed fibroma and glioma.

fibrolamellar (fi-brō-lam'e-lar), a. In mineral, a structure produced by the separating of fiddle-head, n. 2. pl. The crozier-like uncoitable a fibrous mineral or mineral aggregate into thin lamellæ. Geikie, Text-book of Geol., p. 105.

munda einnamomea: so named from their a structure produced by the separating of a fibrous mineral or mineral aggregate into thin lamellæ. Geikie, Text-book of Geol., p. 105.

fibrolipoma (fi"brŏ-li-pō'mä), n.; pl. fibrolipomata (-ma-tä). [NL., < L. fibra, fiber, + Gr. λίπος, fat, + -oma.] A mixed fatty and fibrolipoma (fidle-headed (fid')-hed-ed), a. Having handles fibrolid tumor. fibroid tumor.

fibrolitic (fī-brō-lit'ik), a. [fibrolite + -ie.] Pertaining to, resembling, or characterized by the presence of fibrolite (sillimanite): applied to certain metamorphic rocks, such as gneiss or schist.

Fibroma molluscum, a soft connective-tissue tumor of the

fibromatosis (fī-brō-ma-tō'sis), n. [NL.,

fibroma(t-) + -osis.] The development of fibroid tumors.

[L. fibra, fiber, + membrana, membrane, + -ous.] Composed of a membrane containing much fibrous tissue.

fibromyitis (fī"brō-mī-ī'tis), n. **ibromyitis** ($fi^{\prime\prime}$ brō-mī-ī'tis), n. [NL., \langle L. fibra, fiber, + Gr. $\mu \bar{\nu} c$ (μv -), musele, + -itis.] Inflammation of a muscle with hyperplasia of the fibrous tissue.

fibromyxoma (fī"brō-mik-sō'mä), n.: pl. fibromyxomata (-ma-tä). A tumor composed of fibrous and mucous elements.

fibromyxosarcoma (fī"brō-mik"sō-sär-kō'mä), n.; pl. fibromyxosarcomata (-ma-ta). A myxosarcoma containing much fibrous fissue.

fibroneuroma (fī'brō-nū-rō'mä), n.; pl. fibroneuromata (-ma-tä). A fibrous tumor involving nerve structures.

fibronucleated (tī-brō-nū'klē-ā-ted), a. Composed of fibers and having elongated nuclei in the interstices.

fibropapilloma (fi"brō-pap-i-lō'mä), n.; pl. fibropapillomata (-ma-tä). A tumor which contains the elements of both fibroma and papilloma.

fibroplate (fī'brō-plāt), n. An interarticular

fibropurulent (fī-bro-pū'ro-lent), a. Marked

by pus with an admixture of fibrin in flakes. fibrose (fi'brōs), v. i.; pret. and pp. fibrosed, ppr. fibrosing. [fibrose, a.] To form fibrous tissue, as in eirrhosis or in cicatrization. Buek, Med. Handbook, V. 561.

fibrospongian (fi-bro-spon'ji-an), a. and n. I. a. Pertaining to or possessing the characters of the Fibrospongia.

II. n. One of the Fibrospongiæ.

fibrotic (fi-brot'ik), a. [fibrosis (-ot-) + -ic.]

Relating to fibrosis. Buck, Med. Handbook, 1I, 99.

Fibrons oak-apple. See ★oak-apple.—Fibrons slab, a building material, invented in the nineteenth century, used for the internal finishing of surfaces to replace plaster or boarding. Compare staff 2.

F. I. C. An abbreviation of Fellow of the Institute of Chemistry.

ficelle (fē-sel'), a. [F. ficelle, packthread.] Resembling packthread or string (in color): as, fieelle lace.

ficiform (fis'i-fôrm), a. [L. ficus, a fig, + forma, form.] Fig-shaped; elongate ovoid, rapidly tapering to one extremity.

fickle-midge (fik'l-mij), n. An American chironomid fly, Sciara inconstans, the larvæ of which breed in rich hothouse earth and sometimes damage planted seeds and the roots of plants.

Fick's law of diffusion, inspiration experiment. See law of *diffusion (a), *experiment, ficoid, a. IIt. n. A plant of the family Aizo-aceæ, formerly ealled Ficoideæ (which see).

fid, n.—Hand-fid, a pointed pin of hardwood, from 14 to 29 inches long, used to open the strands of a rope in splicing. A somewhat longer metallic pin of this sort is called a martinespike. [Naut.]

fiddle, n. 4. In ceram., a rack in which pieces of ware that have been dipped in liquid glaze are placed to drain.—5. A piece of wood by which the guy-ropes of a tennis-net are stretched to keep them taut.—Corn-stalk fiddle. ee **★**corn-stalk.

fiddle-back (fid'l-bak), n. An Australian scarabeid beetle, Schizorrhina australasiæ. [Australia.]

fiddle-beetle (fid'l-be"tl), n. A large carabid beetle, Damaster blaptoides, which occurs in Japan and other oriental regions, and which, by the widening of its elytra, is somewhat fiddle-shaped.

fiddle-grass (fid'l-gras), n. The great hairy

that are fiddle-shaped: as, fiddle -headed serving spoons; fiddle-headed forks.

fiddler, n. 5. A fish, Trygmorhina fasciata, a member of the family Rhinobatidæ. [Australia.]

fiddle-rack (fid'l-rak), n. Naut. Same as fid-

dle, n., 2. fiddler-fish (fid'ler-fish), n. A fish, Rhinobatus percellus, of the family Rhinobatidæ.

fiddle-slide (fid'l-slid), n. A slide in the compound-rest of an engine-lathe for setting the

tool to turn a taper. fiddley (fid'li), n. [Also fiddly, fidley; prob. a nantical use of *fiddly, adj. from fiddle, in allusion to the grating.] Naut., the iron framework or cover forming at hatch on deck over the engine- or fireroom of a steamer. Jour. Brit. Inst. Electr. Engin., 1899 1900, p. 574.

fiddling-stone (fid' a, fiddley.

ling - ston). n.

small whetstone. Modern Amer. Tanning, p.

fideicommiss (fid "ē-ī-ko-mis'), n. In civil law, same as *fideicommissum.

fideicommissary (fid*ē-ī-kom'i-sā-ri), n.; pl. fideicommissaries (-riz). In civil law, the beneficiary of a fideicommissum.

fideicommissor (fid "ē-ī-ko-mis'or), n. In eivil law, the one by whom a fideicommissum was made.

fideicommissum (fid "ē-ī-ko-mis'um), n. fidei commissum, a thing given in trust.] In civil luw, a trust. It originated in a devise by which property was left to one who was to use it for the benefit of, or give it to, another who was incapable of taking it by the will. It is said to be the origin of the trusts and uses of the company law.

fidejussory (fi-dē-jus'ō-ri), a. Of or pertaining to a fidejussion.

fideos (fē-dā'ōs), n. [Sp. fideos, vermicelli.] In Porto Rico, a species of dodder, Cuseuta Americana, which in places covers masses of vegetation with its yellow, thread-like, twining stems

fid-hook (fid'huk), n. A slender, flat hook used to keep another hook from

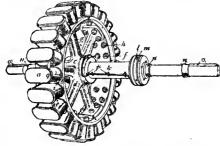
hook used to keep another hook from slipping on a chain.
fidibus (fid'i-bus), n. [G., origin unknown. The form is like that of L. fidibus, dat. and abl. pl. of fides, a lyre, or of fides, faith.] A spill or lighter; a kindler; a match.
Fid-hook fidley, n. See *fiddley.
fiducial, a. 4. Relating to or characterized by the belief in supernatural powers.

The cerumonies of the folk, like those of other primitive peoples, are primarily fiducial, and involve representation, or even personation, of the deified potencies forming by this but had not been the tribal pantbeon.

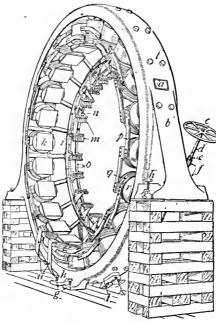
J. W. Powell, Smithsonian Rep., 1900, p. 62,

Fiducial points, in thermom., the melting-point of ice, called the ice-point, and the boiling-point of water under a barometric pressure of 760 millimeters, called the steam

field. n. 13. Specifically, in electric machines, that part of the structure in which the magnetic flux is excited. The electrical or me-



chanical power is produced by rotation of the armature in the magnetic field or of the magnetic field in the armature. See cuts under *armature.—15. In math., same as *domain,



470

Stationary Field.

a, name-plate; \(\delta\), magnet-frame; \(\epsilon\), hand-wheel shaft; \(\epsilon\), hand-wheel shaft; \(\epsilon\), hand-wheel shaft; \(\delta\), the constant of the foliar; \(\delta\), full-crum-pin; \(\epsilon\), foot; \(\delta\), holed ing-down bolt; \(\delta\), bush-holder yoke; \(\delta\), pole-face: \(\delta\), pole-face bolts; \(mathrm{n}\), brushes; \(mathrm{n}\), series windings; \(\epsilon\), bus-ring; \(\epsilon\), series connection bard; \(\epsilon\), terminal; \(\epsilon\), feld-leads,

tion bars! φ, series windings! r, shunt windings! s, connection board; t, terminal; μ, field-leads.

Of force, the space throughout which the attractive or repellent action of a mass or system is manifested. A field of force may be regarded as a system of equipotential surfaces and lines of force, by means of which the distribution of potentials and intensities is indicated. — Field of inattention, in psychol., the range of consciousness that is characterized by obscurity of the perceptual or ideational processes of the moment; the background of consciousness part from those conscious processes that represent the object of attention. — Field of smell, in psychol., the range of space from which we receive offactory stimuli that are effective for sensation.

E. B. Titchener, Exper. Psychol., 1. i. 73.—Field of a lens, of touch. See *dens, *touch.—Flatness of field. See *datness.—Galois field. Same as Galois *domain.—Magnetic field, motorfield. See magnetic *circuit, *motor.—Multipolar field, the magnetic field of a motor or generator having more than two polos.—Old field growth. See volunteer *growth.—Point field, in projective geom., the ∞2 points on a plane.—Polyphase field, same as *association area.—Rotary field, in elect., a magnetic field in which the lines of force have a motion of rotation. The term is usually applied to fields produced by means of polyphase currents in fixed coils; but the fields of certain dynamos and motors with revolving field, in elect., a magnetic field in which the lines of force have a motion of rotation. The term is usually applied to fields produced by means of polyphase currents in fixed coils; but the fields of certain dynamos and motors with revolving field, in elect., a magnetic field in which the hines of force is to be medium within which they are formed.—Straight field, in projective geom., the ∞2 straights on a plane.—Stray field, in elect., that portion of the electrostatic or electromagnetic field of prore, such as an electrostatic or magnetic field, the hinesity of w

oxidation or other change by exposing to the air and solar heat. A term not in general use. field-coil (feld'koil), n. In elect., a coil of wire around the field-magnet of a generator, motor, or other electrical machine, or one which serves to produce by means of the current flowing in it the magnetic field of any electrical device.

field-company (feld'kum"pa-ni), n. A company of engineers in the British army, equipped

Revolving Field.

a, pole-piece: b, field-ring; c, hub of spider; d, spokes of spider; field connections; f, pole-piece bolt; g, field-leads; h, nut for pole-piece bolt; f, field-disk, shaft; c, field-ring laninarian; m, field-ring; n, oil-defiector; o, key; p, field-lead fastener; field-cornetcy (fēld'kôr"net-si), n. The office or rank of field-cornet. [South Africa.] field-cress (fēld'kres), n. Same as cow-cress. field-derrick (fēld'der"ik), n. An oil-well derrick. See *derrick, 2.

field-distortion (feld'dis-tôr/shon), n. The

field-glass, n. - Prismatic field-glass, See prismatic

signed for long recoil (about four feet) on its carriage. The carriage is so constructed that after two or three rounds it takes a nearly fixed position and hence permits very repid firing. rapid firing

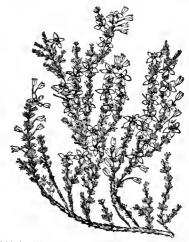
field-hockey (feld'hok"i), n. An outdoor game played by two opposing teams or sides who endeavor to drive the ball toward and into the opponents' goal with clubs curved at one end. Also shinny, shinty, and bandy. fieldman (feld'man), n.; pl. fieldmen (-men). A man employed in the field, as a member of

a field-party; also, a traveling representative of an enterprise or an undertaking: distinguished from one employed indoors.

The fieldmen of the Geological Survey have been the pioneer surveyors of the natural features of the vast regions which constitute half the continent.

Sci. Amer. Sup., Jan. 31, 1903, p. 22,647.

field-music (fēld'mū"zik), n. A military band of any size accompanying a body of soldiers. field-pine (fēld'pīn), n. A small heath-like herb, Hudsonia ericoides, of the rock-rose



Field-pine (Hudsonia ericoides). About one half natural size. (From Britton and Brown's "Illustrated Flora of the Northern States and Canada,")

family, found near the Atlantic coast from Nova Scotia to Virginia.

field-pole (fēld'pōl), n. In elect., the magnetic pole of the field of a generator or motor. field-rheostat (fēld'rē"ō-stat), n. A rheostat or adjustable resistance used for the control and regulation of the magnetic field of an electric generator or motor.

field-roller (fēld'rō"ler), n. A land-roll (which see).

field-salad (fēld'sal ad), n. Same as corn-

field-spool (fēld'spöl), n. A spool or bobbin on the field-magnet of an electric generator, motor, or other device, upon which the fieldeoil is wound.

field-trash (fēld trash), n. In the British West Indies, the tops and leaves of the sngareane, which are removed in the field and generally serve for feeding stock or for manure. See cane-trash, 1.

The refuse, or macerated rind of the cane (which is called cane-trash in contradistinction to field-frach), . . . serves for fuel to boil the liquor.

B. Edwards, Hist. British Colonies in W. I., II. 262.

field-troop (fēld'tröp), n. A company of pioneers and sappers of the British Royal Engineers.

field-wormwood (fēld'werm'wud), n. *wormwood.

fiend-fly (fend/fli), n. Any one of many species of tree-hoppers of the family Membracidæ; so named on account of their strange forms and sinister appearance. For similar reasons they are also called brownie-bugs.

rick. See *derrick, 2.

field-distortion (fēld'dis-tôr"shon), n. The fiery, a. 4. In crickct, eausing the ball to bound twisting, bending or displacement in any way high after pitching: said of wicket or bowler. of the lines of an electrostatic or magnetic field or of any field of force.

field-geologist (fēld"jē-ol'ō-jist), n. A geologist who works in the field, as distinted by the distribution of the lines of an electrostatic or magnetic fiery-hunter (fir"i-hun'tèr), n. An American carabid beetle, Calosoma calidum, dark in the field, as distinted by the distribution of the elytra. In Canada this beetle is ealled the elytra of the elytra of the elytra of the elytra of the elytra.

the elytra. In Canada this beetle is ealled *copperspot (which see, with cut). flest² (fēst), a. [Also feest, < D. vies, nauseous, disgusting, also disgusted (ik ben vies van hem, I am sick of him).] Disgusted (with): sick and tired (of). [Local (orig. New York?), U.S.]

fife, n. 2. In organ-building, a piccolo stop.

fifteen, M.—Half fifteen. See *half.
fifth. I. a.—Fifth quarter. See *quarter1. II. n.-Circle of fifths. See circle of keys, under

11. n.—Circle of fifths. See circle of keys, under circle.

fig2, n. 9. In soap-making, same as figging.—Barbary fig, the Indian fig or prickly-pear, Opuntia Opuntia.—Blue fig, an Australian tree, Elwocarpus grandis, bearing globular blue fruits which resemble plums and are eaten by children and aboriginals. It yields a soft, easily worked wood and a bark rich in tannin. Called also calhun and Brisbane quandong.—Cape fig. Same as Hottentat fig (which see, under fig2).—Clustered fig, in Australia, a large tree, Ficus glomerata, native to India, Malaysia, and Anstralia, the fruit of which is of a light red color when ripe and hangs inclusters along the trunk and highest branches. It is eaten by the aborigines. Its wood is soft, coarse, light, and not durable.—Fig wax, wine. See **cax2*, **xcine.—Goat-fig.* Same as caprijig.—Golden fig, Ficus aurea, a tree of southern Florida, the Keys, and the Bahama Islands. At first it is parasitic on the trunks of other trees, but later sends down aerial roots which coalesce on reaching the ground and

roots which coa-lesce on reaching the ground and produce large trunks from 3 to 4 feet in diameter, the growth of ad-ditional roots from the branches serving to propagate the trees over large



Ing to propagate the trees over large areas after the manner of the banian. See banian? (with ent).—Gular fig, in India, same as clustered *#ig.,—Horse-fig, Mesembryanthem un edule. Also called sour fig.—Indian fig. (b) The fruit of the saguano, Cereus giganteus.—Moreton Bay fig. Ficus macrophylla, a handsome evergreen tree, much used as an ornamental tree in streets and gardens in Australia, especially in sydney and Adelaide. Its fruits are not edible.—Mulherry-fig, the sycamore-fig. See sycamore, I.—Poplar-leaf fig, Ficus laveigata. See fig., 1.—Prickly fig. Same as blueberry-*sash.—Purple fig, in the United States, a cultivated form of Ficus Carica; in Australia, Ficus scabra, a large tree yielding a brittle, spongy, useless wood, and small, black, edible fruits.—Ribbed fig, in Queensland, Ficus pleurocarpa. It yields a light, soft, elastic wood.—Rough-leaved fig, same as the Australian purple *#ig.—Rusty fig, the Port Jackson fig, Ficus rubiginosa. It yields soit, brittle, spongy wood, sometimes used for packing-cases.—Sour fig. Same as horse-##ig.—Thorny fig, Mesembryanthemum spinosum, a plant of the Cape region of Arica, the flowering branches of which harden into sharp spines, which protect it from herbivorous animals: In sharp contrast with the purple-flowered M. foribundum, which yields excellent pasturage and is so succulent that cattle feeding upon it require little water.—Umbar fig, in India, same as clustered *#ig.—White fig. Same as rough-leaved *##ig.—Willow fig, the East Indian benjamin-tree, Ficus Benjamina. It is a medium-sized tree, often epiphytic, and yields a mottled, gray wood.

fig. An abbreviation (b) of figurative or of figuratively.

fig. An abbreviation (b) of figurative or of figu-

fig-bar (fig'bar), n. A device attached to a panning-machine to work semi-soft dough. The dough is pressed from a box by means of fine corrugated rollers and falls upon the apron of the panning-machine in long strips, where it is cut to any desired length. The box is built with three compartments, so that three different doughs or two doughs and a jelly can be run at the same time.

fig-eater, n. 3. A local Australian name of a small passerine bird of the genus Zosterops.

Also termed grape-eater. fighting-top (fi'ting-top"), n. In a man-of-war, a platform, generally circular in shape, on or near the top of a mast, and provided with rapidfire guns of small ealiber and with accommodations for riflemen. It is generally reached by a ladder inside the hollow steel mast. Also

fig-insect (fig'in'sekt), *. Any insect of the chalcidoid family Agaonidæ, which inhabits figs, or any one of the numerous parasites of the insects of this family; specifically, Blastophaga grossorum, which fertilizes the Smyrna fig of commerce. See *Blastophaga, with ent. fig-marigold (fig'mar"i-gold), n. See marigold

and Mesembryanthemam.
fig-moth (fig-moth), n. A cosmopolitau phycitid moth, Ephestia cautella, whose larva lives in dried figs, nuts, eacao-beaus, flaxseed meal, dried currants, and other stored products. Also called dried-currant moth.

fig-paste (fig past), n. 1. A confection of figs; a national sweetmeat of Turkey and Greece. -2. A pink or white confection consisting of squares of a semi-transparent sweetish paste dusted with fine white sugar.

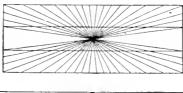
Fig-tree disease. See *disease. figuline, n. II. a. Of or pertaining to a potter or pottery: as, figuline ware. See figuline rustique, under figuline.
figurative, a. 5. In geom., at infinity.

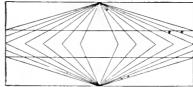
On each straight is one and only one point 'at infinity,' or figurative point.

Merriman and Woodward, Higher Mathematics, p. 73.

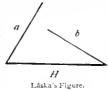
Figurative point, straight. See $\star point1$, $\star straight1$.

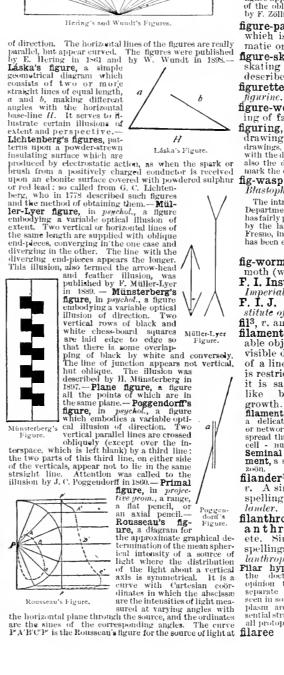
figure, n. 18. In ornamental woodwork, the grain of the wood, especially such grain when of unusual richness and when used with special care as a part of the design.—19. pl. The highest division of the lowest grade in the classical course in a Jesnit school. [Eng.]—Accompaniment, achromatic figure. See *accompaniment, *achromatic.—Hering's and Wundt's figures, in psychol., figures embodying a variable optical illusion

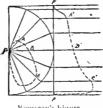




Hering's and Wundt's Figures

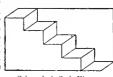






P for which the polar curve PABCP indicates the vertical distribution of light intensities. The mean spherical

cal distribution of light intensities. The mean spherical intensity is measured by one half the area included by the Rousseau figure. Schroeder's figure, Schroeder's stair figure, Schroeder's stair figure, in psychol., a figure which embodies an optical illusion of reversible perspective. The figure may be seen, by change of fixation, either as a flight of stairs, or as the under side of such a flight (or a piece of overhangen masonry). The illusion was published by II. Schroeder in 1858.—Vertex of a solid figure, a point of a figure where three or more of its faces intersect.—Zöllner's figure, in psychol., a figure which embodies a variable opti-



ure, in psychol., a figure which embodies a variable opti-



cal illusion of direction. The parallel verticals of the figure appear to converge and diverge under the influence of the oblique cross-pieces. The illusion was described by F. Zöllner in 1860. Also $Z\"{ollner's lines}$.

figure-painting (fig'ūr-pān"ting), n. Painting which is concerned especially with the dra-

matie or decorative use of the human figure. figure-skating (fig'ūr-skā"ting), n. Fancy skating iu which figures of various kinds are described on the iee by the skater. figurette (fig-\bar{u}-ret'), n. A small figure.

figurine.
figure-weaving (fig'ūr-wē"ving), n. The weav-

ing of faney designs. figuring, n. 3. The adding of figures, as to a

drawing. In architectural and engineering work the drawings, however accurately made to scale, are covered with the dimensions in Arabic figures. Figuring includes also the dotted lines and the little arrow-heads which mark the dimensions figured.

ig-wasp (fig'wosp), n. The agaonid insect, Blastophaga grossorum. See ★fig-insect. fig-wasp (fig'wosp), n.

The introduction into California, by the United States Department of Agriculture, of the blastophaga or highways has fairly passed the experimental stages, as is well proved by the largely increased production of Smyrna figs at Fresno, in that State, where a colony of this useful insect has been established.

Yearbook U. S. Dept. Agr., 1901, p. 673.

fig-worm (fig'werm), n. The larva of the *figmoth (which see).

F. I. Inst. An abbreviation of Fellow of the Imperial Institute.

F. I. J. An abbreviation of Fellow of the Institute of Journalists.

fil³, v. and n. A simplified spelling of fill. filament, n. 6. In geometrical topics, a mov-

able object which at any one instant, or indivisible determination of time, is at every part of a line. During a lapse of time a filament is restricted to being in some surface, which it is said to generate.—7. A long threadbacterial

growth. — Linin filament, in cytul., a delicate thread or network of linin spread through the cell - nucleus. — Seminal filament, a spermetra ment, a spermato-

filander3, n. and

v. A simplified spelling of phifilanthropic, fil-

anthropist, etc. Simplified spellings of philanthropic, etc. lanthropic, etc.
Filar hypothesis,
the doctrine or
opinion that the
separate threads
seen in some protoplasm are the essential structures of
all prefendam

all protoplasm.



Filarce (Frodium cicutarium). One third natural size,

rē'), n. [A reduction of alfilerilla.] In California, either of two species of stork's-bill, Derived from or pertaining to ferns.—Filicing Erodium cicutarium and E. moschatum; alfilerilla.—Musky filaree, Erodium moschatum, the coarser of the species named above. Its foliage has a musky odor, especially when wilted. Also called musky as an anthelmintic. filerilla.—Musky filaree, Erodium moschotum, the courser of the species named above. Its foliage has a musky odor, especially when wilted. Also called musk-clover and sometimes green-stemmed filaree.—Red-stemmed filaree. Same as alfilerilla.

Filarial periodicity. See *periodicity. filariasis (fi-lā-ri-ā'sis). n. [NL., < Filaria + -asis.] Presence of Filaria in the blood-vessels and lymph-vessels: the underlying cause of elephantiasis.

In certain tropical countries a disease known as filariasis, which somewhat resembles certain forms of leprosy, is transferred among human beings by certain nosquitoes. L. O. Howard, in Yearbook U. S. Dept. Agr., 1901, p. 190.

filariosis (fi-lā-ri-ō'sis). n. [NL., < Filaria + -osis.] Same as *≭filuriasis.*

filarious (fi-lā'ri-us), a. Same as filarial. filasse (fi-lās'), n. [F. filasse, bast, harl, tow, $\langle F. fil, \langle L. filum, thread.]$ Vegetable fiber prepared for the processes of manufacture. filator (fi-lā'tor), n. [NL. *filator, $\langle *filare, spin a thread: see file3, v.]$ The spinning approximate of a sillworm situated in the tabular

paratus of a silkworm, situated in the tubular binneret.

filbert, n.—Black-knot of the filbert. See *black-knot.—West Indian filbert, the seeds of the simitar-pod or match-box beau, Lens phaseoloides. See *gogo. filbert-gall (fil'bert-gal), n. A gall which reand the sembles a filbert—Grape-vine filbert-gall, one of a bunch of woolly greenish galls, resembling a bunch of filberts, found on the stem of the grape and inhabited by a cecidomyiid larva. The gall was named Vitis coryloides by Walsh and Riley, and the insect which makes it probably a Diplosis

filbert-mildew (fil'bert-mil"dū), n. The fungous disease, due to *Phyllaetinia suffulla*, which attacks the leaves of filberts.

filch, n. 3. One who filehes or is given to filching; a filcher.

fild2, pp. A simplified spelling of filled.

fild², pp. A simplified spelling of filled.
file¹, n.—Lateral file, a small steel file set in a mefallic frame and adjustable laterally or otherwise, used by dentists in spacing teeth.—Molar file, a small file formerly used by dentists in filing molar teeth: now superseded by the carborundum wheel.—Separating file, a file formerly used by dentists for separating teeth: now superseded by thin carborundum disks.
file³, n. 11. An individual soldier.

But the poor file who has to carry it, as well as his gun and various other accoutrements; how does it appeal to him?

Med. Record, Feb. 7, 1903, p. 227.

Blank file, in a two-rank formation, a file consisting only of a solder in the front rank.—Open file, in chess, a file on which there are neither pieces nor pawns. A player may obtain possession or command of such an open file ('take the open file') by playing his queen or rook on any of its squares.—Right by file, a movement, in drill, in which a column in single file is formed from a column of

which a commit is single in two or squads. File-cutters' disease. See $\star disease$. filer³ (fi'ler), n. [file² + -er¹.] One who defiles something.

[The Chinese] cate their meate with two sticks of Ivory, Ebony, or the like: not touching their meat with their hands, and therefore no great filers of linnen.

P. Heylyn, MIKPOKOZMOZ, ed. 1633, p. 680.

file-stripper (fil'strip"er), n. One who draw-files or finishes the blanks for files, either by hand or in a machine, preparatory to cutting the teeth.

See *lace. Filet lace.

filharmonic, a. A simplified spelling of phil-

filiation, n. 5. An individual or group of individuals derived from one source or parent. filibranch (fil'i-brangk), a. and n. [NL. filibranchius, < L. filum, thread, + branchiæ, gills.] I. a. Having long gills formed of tubular filaments, as certain bivalve mollusks; filibranchiate.

II. n. A bivalve mollusk of the order Filihravehiata

Filibranchia (fil-i-brang'ki-ä), n. pl. [NL.] Same as *Filibranchiata.

Filibranchiata (fil-i-brang-ki-ā'tä), n. pl. [NL.] An order of bivalve mollusks. They have the gills in the form of long filaments that hang down into the mantle cavity, are bent back upon themselves in the form of a V, and may or may not he connected by interfilamentary ciliated junctions. The order includes the families Anomiidæ, Arcadæ, Trigoniidæ, and Mutifidæ. nd Mutilida

filibranchiate (fil-i-brang'ki-āt), a. [NL. fili-branchiate, K. filum, a thread, + branchiæ, filistatid (fi-lis'ta-tid), n. A spider of the gills: see branchiate.] Having, as some pele-family Filistatidæ.

filitannic (fil-i-tan'ik). a. [L. fili(x), fern, + cypod mollusks, the plates of the gills narrow, filitannic (fil-i-tan'ik), a. [L. fili(x), fern, +

stem.

filicide¹ (fil'i-sīd), u. [L. filius, son, or filia, daughter, + -cidu, < exdere, kill.] One who kills his or her son or daughter.

filicide² (fil'i-sid), n. [L. filius, son, or filia, daughter, + -cidium, < eædere, kill.] The killing of one's son or one's daughter.

filicin (fil'i-sin), n. [L. filix (filie-), fern, +-in2.]
One of the active vermifuge principles found in the rhizome of the male fern.

filicinean (fil-i-sin'é-an), a. Belonging or re-lated to the Filicinez or Filicales; fern-like. filicineous (fil-i-sin'ē-us), a. Same as *fili-

filicologist (fil-i-kol'ō-jist), n, [filicolog-y + -ist.] One versed in filicology; one engaged in the study of ferns.

Filicornia (fil-i-kôr'ni-ä), n. pl. filum, thread, + eornu, horn.] filum, thread, + eornu, horn.] A superfamily of beetles corresponding to the Adephaga or

ment with filigree-work

filing-block (fī'ling-blok), n. Same as filing-

filing-gap (fi'ling-gap), n. In elect., the space between the terminals of a coherer in which the filings or other conducting particles upon which its action depends are placed. filing-machine (fi'ling-ma-shen"), n. A power-

machine for filing metals, resembling in general plan a scroll-saw in which the vertical reciprocating saw is replaced by a file. reciprocating saw is replaced by a file. The work to be filed is placed upon a table and is fed to the file by hand. Files of any shape or size can be used in the machine, and by tilting the table the work can be fed to the file at any angle. Filing-machines for sharpening cotton-gin saws employ horizontal reciprocating files with an automatic feed-motion which presents one tooth of the saw at a time to the file and controls the number of strokes of the file upon each saw-tooth.

filio-pietistic (fil*i-ō-pi-e-tis*tik), a. [Irreg. adj, from filial piety.] Relating or pertaining to filial piety. [Rare.]

to filial piety. [Rare.]

He has set . . in its true light the theocracy which the Puritans founded and maintained in Massachusetts. As long as that theocracy lasted men dared not speak the truth about it; since it decayed, orators and historians, indulging in what Mr. Adams calls "filio-pietistic cant," have praised the Puritans for those qualities which they have condemned in other bigots.

Harvard Graduates' Magazine, March, 1894, p. 439.

Filipendula (fil-i-pen'dū-lā), n. [NL. (Adanson, 1763, adopted from Tournefort, 1700); < filler-vase (fil'èr-vas), n. In filum, thread, + pendulus, hanging. The allusion is to the tubers, connected by the root-stocks as if upon threads.] A genus of plants stocks as if upon threads.] A genus of plants of the family Rosaeæ. They are perennial herbs, which have flowers similar to those of Spiræa, but with about 10 pistils ripening into dry, one-seeded, indehiscent fruits. There are about 9 species, natives of the north temperate zone. Some are familiar garden plants, as Filipendula (Spiræa Filipendula of Linneus), the meadow-sweet, and F. Ulmaria, the queen-of-the-meadows, both white-flowered, and F. rubra (Ulmaria rubra of Hill), the queen-of-the-prairie, with pink flowers. See queen-of-the-prairie and queen-of-the-meadows.

dows.

Filipina (fil-i-pē'nä), n.; pl. Filipinas (-äz).

[Sp., fem. of Filipino, Filipino.] A native woman of the Philippine Islands.

Filipino (fil-i-pē'nō), n. [Sp., < NL. Philippinus, adj. (NL. Insulæ Philippinæ, Sp. Islas Filipinas, Philippine Islands), < Philippines, Sp. Filipo. Felipe, Philip.] A native of the Philippine Islands; in a restricted sense, a native of more or less nure Spanish descent. Also incorporate in the philippine Islands; in a restricted sense. more or less pure Spanish descent. Also in-correctly *Philippino*.

Filippic, n. A simplified spelling of philippie. Filippi's gland. See *gland. filippo (fi-lip'ō), n. [It.] The silver testone of Milan issued under Philip III. of Spain, and continued by his successors.

filipuncture (fil-i-pungk'tūr), n. [L. filum, wire, + punctura, puncture.] Introduction of wire, + punctura, puncture.] fine wire into an aneurism with the design of

lannie.] Noting an acid, a glucoside tannin obtained from the rhizome of the male fern.

largely produced at the Italian government strap which passes over a horse's rump and

powder-works, the same in composition as

powder-works, the same in composition as ballistite, but formed into slender cords instead of into cubical grains. See ballistite.

Filix (fil'iks), n. [NL. (Adanson, 1763), \langle L. filix, a fern.] A genus of polypodiaeeous ferns, the equivalent of Cystopteris (Bernhardi, 1806). The type of the genus is F. bulbifera, the common bladder-fern of the United States and Crack a See Crustary in a bladder form and Canada. See Cystopteris and hladder-fern.
— Filix-mas, the male fern, Driopteris Filix-mas.

fill1, v. t. 10. In poker, to draw cards which improve the hand: usually restricted to filling four-eard flushes or straights. Amer. Hoyle, Poker, p. 162.—11. To execute: as. to fill an order for goods.—12. To make up: as, to fill a prescription .- Filled soap. See *soap.

fill1, n. 3. In engin .: (a) An embankment of earth or rock made as a road-bed: the opposite of cut. (b) The vertical height of the top of an embankment above the natural surface at any point .- 4. Deposition alternating with or in contrast to scouring out. The contrasting terms are seour and fill, eut and fill. Rep. Brit. Ass'n for Advancement of Sei., 1900, p. 733.

Caraboidea, having the antennæ filiform and all the tarsi 5-jointed.

filiform, a. II. n. In sury., a very slender hairlike bougie. Buck, Med. Handbook, Il. 745.

filigree (fil'i-grē), v. t. [filigree, n.] To ornative the filigree very like filigree. In the filigree very like filigree, and the filigree very like filigree. during character are well grown and occupy the land. [Colloq.]—7. In the manufacture of plastic materials, a solid substance, such as wood fiber or mineral powders, used to give greater consistence to a viseid constituent, such as collodion or a fused resin.—8. In engin.: (a) A longitudinal timber or other material placed between two parallel members, as a timber placed between two steel I-beams to stiffen them and to enable them to act as one beam. (b) A hollow cylindrical pipe or spool through which a bolt is passed to fasten together two parallel beams or struts.

bolt in conjunction with the filler prevents the two beams or struts from spreading apart and from moving too close together.

The floor framing consists of six sills, the four centre ones being sixinch "I" beams with wood filters extending the entire length of car.

Elect. Rev., Sept. 11, 1904, p. 450.

filler (I-lar'), n. [Hung. filtr.] A current subsidary coin of Hungary, the hundredth part of a krona, equivalent to two tenths of a United States

Mycenæan pottery, a narrow vase having a funnel-shaped bottom with a hele: used ap- (Fro



Filler-vase. rom "Annual of the British School at

of tedious or obstructed labor.—Fillet decussa-tion, a crossing of nerve-fibers over the median line in the medulla oblongata. These fibers lie above or dorsad to the decussation of the pyramids and form a bundle of longitudinally coursing fibers known as the fillet (lemnis-cus). See fillet, 9.—Fillet-flock. See the extract.

In its course towards the cerebrum, the fillet is said to receive accessions of fibera from the nuclei of the sensory cranial nerves, from little clumps of nerve cells scattered in its course—the 'fillet flock' of Roller.

Ferrier and Turner, in Philos. Trans. Roy. Soc. (London), [1894, ser. B, p. 760.

Lateral fillet-tract, a tract which leaves the lateral fillet at the level of the motor nucleus of the fifth nerve, lying between the nucleus and the superior clivary body on the mesial side of the motor root. The tract may be traced to the distal end of the inferior clive, and gradually diminishing in size may be followed distinctly as far as the sixth thoracic segment. Ferrier and Turner, in Philos. Trans. Roy. Soc. (London), 1804, ser. B, p. 742.—Scattered fillet fibers. See *#/ber1.

fillet, v. t. 2. In cooking: (a) To form into or dress as a fillet, as a piece of beef. (b) To cut fillets from, as from a chicken or a fish.

filleting, n. 4. Mortar or plaster used to fill up a close joint where one surface meets responding the first rapelike, and much elongated. Phil. Trans.

Roy. Soc. (London), ser. B, 1903, p. 178.

filicalline (fil-i-kâ'lin), a. [L. filum, thread, taulie]. Noting an acid, a glucoside tannin obtained from the rhizome of the male ferm.

filicalline (fil-i-kâ'lin), a. [L. filum, thread, taulie]. Noting an acid, a glucoside tannin obtained from the rhizome of the male ferm.

filicalline (fil-i-kâ'lin), a. [L. filum, thread, taulie]. Noting an acid, a glucoside tannin obtained from the rhizome of the male ferm.

filicalline (fil-i-kâ'lin), a. [L. filum, thread, taulie]. Noting an acid, a glucoside tannin obtained from the rhizome of the male ferm.

filicalline (fil-i-kâ'lin), a. [L. filum, thread, taulie]. Noting an acid, a glucoside tannin obtained from the rhizome of the male ferm.

filicalline (fil-i-kâ'lin), a. [L. filum, thread, taulie]. Noting an acid, a glucoside tannin obtained from the rhizome of the male ferm.

An explosive, a variety of smokeless powder, fillet-strap (fil'et-strap), n. In a harness, a single contraction of the male ferm. another. Thus, at the beginning of a slated roof at the eaves mortar is used to close the cracks between the wall and the first rows of slate. Filleting in this sense is a poor substitute for flashing.

extends down to the shaft, to which it is con- tory device of glass for filtering through glass

filling, n. the spaces and give greater strength. When placed in the bottom, between the floor-tim-

bers, such pieces are called filling-timbers.
filling-case (fil'ing-kās), n. In cotton-carding,
a cylindrical can in which the sliver from a doubler is collected.

filling-timber (fil'ing-tim"ber), n. In ship-building, see *filling, 7.

film, n.—Surface film, the outer or boundary layer at the free surface of a body of liquid. The surface film behaves in many respects like a stretched membrane, and by its action upon the inclosed liquid produces the so-called capillary effects.

filmogen (fil'mō-jen), n. [Irreg. < film + -o-+ -gen, -producing.] A solution of soluble nitrate of cellulose in acctone with addition of a small amount of castor-oil. It resembles

flexible collodion, liquor adhæsivus.

film-tension (film ten shon), n. The adhesive power of a thin film of any material; the force required to separate two plates naving between fine and the short of the Latin ad finem, at or to the end.

Fin. An abbreviation of the Latin ad finem, at or to the end.

Fin. An abbreviation (a) of Finland; (b) of Finnish.

Finnish. them a thin film of a given material.

filobacterium (fi"lō-bak-tē'ri-um), n.; pl. filo-bacteria (-a). [NL., < L. filum, thread, + NL. bacterium, bacterium.] A bacterium having a filamentous or thread-like form.

filomel, n. A simplified spelling of philomel. filopena, n. A simplified spelling of philopena. filosity (fi-los'i-ti), n. [filose + -ity.] The character of producing many threads or shoots: applied to the habit of the potato of producing, under certain conditions, many thin, slender shoots.

filosofer, filosofic, etc. Simplified spellings

of philosopher, etc. fils (fēs), n. [F., < OF. fils, fis, fiz, < L. filius, son: see filial.] Son: used in French as junior is used in English, père (father) being used for senior: as, 'Dumas fils,' 'Dumas the younger'

is used in English, père (father) being used for senior: as, 'Dumas fils,' 'Dumas the younger' or 'junior'.

filter!, n.—Berkefeld filter, a filter for sterilizing liquids. It censists of a hellew cylinder made from infusorial earth, the silicious skeletons of Diatonaceae, Inserted in a metallic case. Water and other liquids pass rapidly through the filtering medium while germs, animalculæ, or suspended matters remain on the surface. The cylinder can he casily removed for cleansing.—Bichromate ray filter. Same as *bichromate cell.—Dumont filter, a vessel containing coarsely granular animal charcoal or bone-black through which, in sugar-refining, colored syrup is slewly percolated and thereby becomes decolorized.—Gooch filter or crucible, in chem. analysis, a platinum crucible the bottom of which is perferated with fine heles and covered with a layer of asbestos in short fibers. The liquid to be filtered is poured into the crucible, and the solid matter left upon the felted asbestos may be washed free of all soluble substances, diried at any required temperature, and weighed in the same vessel, the weight of the crucible and asbestos in the dry state having been determined in advance.—Intermittent filter, an arrangement, usually consisting of a bed of sand, employed for the purification of sewnge, the liquid sewage being allowed to percelate for some hours and then to drain oif, so that the interstices between the sand grains may become filled with air lefore the sewage is again turned on: in this way aëroble microbia multiply and oxidation of the decomposing organic matter sids largely in rendering it harmless. Sometimes called an aërated filter.—Kitasato filter, a filter resembling in construction the l'asteur filter, but of small size, used in laboratory work for the filtration of small quantities in filted.—Leaf filter, a contrivance used in sugar-refining, consisting of a series of rectangular bags of cotton cloth, each stretched ever a wooden frame, the frames being placed parallel to each other, in the sa

filtering-plate (fil'ter-ing-plat), n. A perforated glass or porcelain plate with beveled edge, inserted in a funnel or in a bottomless

crucible for filtering purposes. filtering-tube (fil'ter-ing-tūb), n. A labora-

wood or aspessos.

wood or aspessos.

illing, n. 7. In wooden ship-building, a piece of filter-plate (fil'ter-plat), n. A plate or screen made of two perforated metal plates with the metal plates with the made of two perforated metal plates with filtering material between them: used for filtering a liquid.

filter-press (fil'ter-pres), v. t. To filter by means of a filter-press. This mode of extracting a liquid from mixture with a solid is largely applied in a number of chemical industries, notably in sugar-making. S. P. Sadtler, Handbook of Indust. Chem., p. 133.

filtration, n.—Electrochemical filtration, in phys. chem., a term formerly used to denote electric osmose, or cataphoresis.

filum, n. 3. A hair-like process on the radius of the down-feathers in some birds.

fimicolous (fi-mik'ō-lus), a. [L. fimus, dung, + eolere, inhabit, + -ous.] Living in dung. fin¹, n., 3. (g) The thin sheet of metal squeezed out between the collars of the rolls in a roll-

fin. An abbreviation of the Latin ad finem, at

finca (fen'kä), n. [Sp., < finear, also hincar, OSp. fieur, fix, attaen: s. Fixed property; real estate. fieur, fix, attach: see fitch3, fichu.]

finch', n.—Cutthroat finch, a bird-fanciers' name for one of the small African weaver-birds, Amadina fasciata: given on account of the red mark around the throat of the male. filamentous of thread-like folds.
filo-floss (fil-ō-flos'), n. Same as filoselle.
filologer, filological, etc. Simplified spellings of dogs in the field.

of dogs in the field.

fin de siècle (faû'de syek'l). [F.] The end of the century: used attributively of anything that exhibits certain characteristics supposed to mark the closing years of the nineteenth century, regarded as a period of emancipation from the traditional social and moral order.

All these fin-de-siècle cases have . . . a common feature, . . . a centempt for traditional views of custom or morality. Such is the notion underlying the word. . . It means a practical emancipation from traditional discipline which theoretically is still in force, . . . the end of an established order which for thousands of years has satisfied logic fattered denryity and in every art satisfied logic, fettered depravity, and in every art matured something of beauty.

Max Nordau (trans.), Degeneracy, p. 5.

finding, n .- Special finding, ln law, same as special

finding-circles (fin'ding-ser"klz), n. pl. Circles attached to the mounting of an equatorial, and so placed as to be readily seen from the floor, which show the declination and hourangle to which the telescope is directed; also, circles on the tube of a transit instrument which show by the aid of an attached level, the altitude of the object to be observed.

the attitude of the object to be observed.

Ine! n.—Pine for alienation, in feudal law, meney paid by a vassal to his superior for the privilege of transferring his feudatory.—Pine for endowment, in old Eng. law, a fine required to be paid to the lerd by the widew of a vassal as a condition of receiving dower in her husband's lands.—Fresh fine, in old Eng. law, a fine levied within a year. See to levy a fine, under levey.—Joint fine, in old Eng. law, a fine or amercement that might be imposed upon an entire community.

fine? d.—Fine blue. See *blue.

fine², a.—Fine bine. See *blue. fine², v. t. 4. In ship-building, to reduce the lateral dimensions of a vessel below the water-

fine², adv.—To sail fine (naut.), to sail close to the wind; sail so as to keep the luff or forward leach of the sail trembling.

sail trembling.

fine-hair (fin'har), r. t. In leather-manuf., to remove (from a skin) the fine hair or down which is sometimes left after the coarser hair has been removed. C. T. Davis, Leather, p. 381.

fineness, n.—Coefficient of fineness. See \star coefficient. fines (finz), n. pl. [Pl. of fine2, a., 13, used as noun.] In metal., ore which is pulverized or in too small particles to be smelted in the ordinary way.

finesse, n. 4. In the fine arts, subtlety and delicacy in color or form.

Subtlety of the modelling as seen particularly in the face of the Christ and the presse of the drawing of the hands.

R. Fry, in Burlington Mag., III. 93.

finessi (fi-nes'ē), n. [Swahili fenessi, mfenessi, mfinessi, jackfruit.] In West Africa and Zanzibar, the name for Artocarpus integrifolia. See breadfruit and jack-tree.

finetop, n.—Alkali finetop. Same as *alkali-grass, 2. finger, n. 5. In a mechanical piano-player, a lever that strikes or depresses a key. See *piano-player.—6. A projecting pin or rod, straight, or slightly curved; specifically, a projecting curved wire which carries an electric current into the clearance-volume of an internal-combustion motor, so that at the proper time a spark may pass between its tip and

another terminal and fire the charge of explosive mixture. See internal-combustion engine, under engine.—7. In flax-manuf., a small lot of fiber that has been treated at one operation of fiber that has been treated at one operation in the scutching process.—Dead fingers. See *dead.—Hammer finger, a condition of permanent flexion of the middle joint of a finger, analogous to the deformity called hammer-toe.—Hippocratic fingers, a condition in which the finger-tips are clubbed with curved nails, seen in various chronic affections, especially of the heart and lungs.—Morse finger. Same as telegraphers' crump.—Peeled fingers, the rbizomes of the male fern from which the leaf-bases and chaff have been removed.—To give one the finger to give scanty recognition or encouragement; to act coldly or disappointingly toward one who had been led to expect assistance or friendship. finger-berry (fing'gér-ber'i), n. The American or high-bush blackberry, Rubus nigrobaccus, finger-fish (fing'gèr-fish), n. A starfish.

finger-fish (fing'gér-fish), n. A starfish.
finger-gage (fing'gér-gāj), n. An automatic
device in a sheet-metal press, for holding the
sheet-metal in position while it is being cut and allowing it to advance again a fixed distance and serving also as a gage in guiding the work to the press.

finger-grass, n. 2. Syntherisma serotina, a native American grass with shorter, broader, and more hairy leaves than the common finger-

grass: found from Delaware to Florida and westward to Mississippi. Other species, as, S. filiformis and S. villosa, are also called finger-grass. -3. Any species of the genus Chloris, which consists o f handseme and sometimes useful grasses with radiating spikes like those of the crab-grass and crowfootgrass, rendered specially tractive by the long awns of the flowers. Several are in ornamental cultivation, as the Australian C. trun-



are in ornamental cultivation, as the Australian C. truncata, called wind-mill-grass, bearded inversion, and stargrass; C. rerticillata, of Kansas, Texas, etc., also called windmill-grass; and C. elegans of the sonthwestern United States, called feather crowfoot. In the Bahamas the name is applied to C. Sveartziana. finger-lake (fing 'gér-lāk"), n. In geog., one of a group of lakes which diverge somewhat libe.

a group of lakes which diverge somewhat like the fingers of an open hand: such a group occurs in central New York.

finger-leaf (fing'ger-left), n. The fivefinger, Potentilla Canadensis.

finger-machine (fing'ger-ma-shēn"), n. piece of gymnasium apparatus intended to exercise the muscles of the hand and forearm. It consists of small parallel bars which are held separate by weights and far enough apart to be grasped with the fingers extended, and then drawn together by an effort of the muscles of the hand and forcarm.

finger-parted (fing'ger-par"ted), a. In bot.,

digitately parted. finger-print (fing ger-print), n. An impression made, as with ink or some other pigment, with the tip of a finger, so that its markings are recorded. These markings are individual in character and are permanent throughout life. They are used for purposes of identification according to a system devised by Francis Galton.

In June 1897 a resolution of the governor-general in council directed the adoption of the inger-print system throughout India, and its gradual substitution for the previously existing anthropometric system has since been earried out. Its use is not confined to the police department, but extends to all branches of public business.

Encyc. Brit., XXV. 469.

finger-stone (fing 'ger-ston"), n. A popular local name for belemnite.

2. In archery, a tip of leather or finger-tip, n. other material worn upon a drawing-finger to protect it from the friction of the bowstring. Tips are of two kinds: screw-tips, adjustable to any degree of tightness by a screw-bolt and nut; and knuckle tip, shaped so as to stick to the fingers when the arrow is loosed. See drawing-glove.

3. pl. On the coast of southern California, a plant of the stonecrop family, Stylophyllum edule, with tufted cylindrical leaves the size of a

tead-pencil. The Indians used the leaves as a salad. Parsons and Buck, Wild Flowers of California, p. 142.

finish, n. 5. In building, all those parts of the work which are not essential to the structure of the structure.

Spain and Portugal, a land-tax or contribution. Spain and Portugal, a land-tax or contribution. finish, n. 5. In building, all those parts of the work which are not essential to the structure but are intended to give elegance of appearance or neatness within, or such smoothness of surface as makes it easily cleaned. Thus the interior face as makes it easily cleaned. Thus the interior thish includes the woodwork of door-trims, dados, and the like, the marble-work when put to similar uses, and mantelpieces, etc.—Brush finish, a finish for the surface of brass which is obtained by butting it to a dull or 'old' brass finish; a finish for the surface of brass that makes the metal appear dull and old.—Cabinet finish. See the metal appear dull and old.—Cabinet finish. See **acbinet.—Dead finish, anything, such as an impenetrable thicket, an impassable place, or the like, which brings a traveler to a dead stop; also, the stop itself. [Australia.]—Grease finish, a dull mat finish on either gold or silver, generally produced by rubbing the metal with finely ground pumice mixed in oil.—Stone finish, a dull mat finish slightly coarser than the grease finish, produced by rubbing down silver, gold, or other metal with flat smooth surfaces of pumice-stone. surfaces of pumice-stone.

finishing-rolls (fin'ish-ing-rôlz), n. pl. The

rolls or a train of rolls in which a bar of metal

is finished.

finishing-school (fin'ish-ing-sköl), n. A sehool where the education of young ladies (chiefly) 'finished.'

finishing-tool, n. 2. In glass-manuf., an instrument, resembling a pair of forceps, used to shape the neeks of bottles, lamp-chimneys, ete. Also called borcellas, ponteglo, and pro-cellas. See procellas.

etc. Also called borcellas, ponteylo, and procellas. See procellas.

Finite in its kind, having an end or boundary. A thing that can be limited by another of the same nature is said to be finite in its kind. For example, body is said to be finite because we always conceive a larger. So thought is limited by another thought.—Finite number, point. See *namber, *point.]

finitesimal, a. [tinite + -esimal, as in infinitesimal.] In math., distinguished by a finite ordinal.

finitude, n.—The axiom of finitude, in the terminology of Russell, the false assumption that a kind of quantity such that, given any one of the kind, there is a greater of the same kind, can have no finite limit. The class of fractions whose denominators exceed their numerators is an obvious instance of the falsity of the principle. Russell appears to call it an axiom derisively.—Ralative finitude the bairs in a finite artist to each of the same of the contractions of the contraction of the same of the ciple. Russell appears to call it an axiom derisively.—
Relative finitude, the being in a finite ratio to another magnitude.

fin-keel (fin'kēl), n. A projection downward from the bottom of a sail-boat or yacht, in gen-



eral shape like the ventral fin of a fish. The fin-keel is usually made of metal, and acts as additional ballast, and being low down gives

increased stability.

Finn. An abbreviation of Finnish.

Finno-Slav (fin-ō-slav'), n. A person of mixed Finnish and Slavie descent. Keane, Ethnol., n. 200.

Finno-Slavonic (fin # o-sla-von 'ik), mixed Finnish and Slavic descent; of or per-

taining to the Finno-Slavs.

Finno-Tatar (fin-ō-tā'tār), a. 1. Of or pertaining to the group of languages usnally called Ural-Altaie, or to the people who speak them. See Altaie. - 2. In a somewhat more limited sense, relating to or including those peoples which comprise the western branch of Ural-Altaic group, especially the Finns and Turks.

Finno-Turki (fin-ō-tèr'kē), n. The group of peoples which speak Finnic and Turkish languages. Also called tral-Altaic. See Altaic. Finno-Turkish (fin-ō-ter'kish), a. Of or pertaining to the Finns and Turks: same as

Ural-Altaic. See Altaic.

Finno-Ugrian (fin-ō-ū'gri-an), a. Of or pertaining to that group of peoples which speak either Finnic or Ugrian languages.

Finno-Ugric (fin-ō-ū'grik), a. Same as *Finno-

Ugrian.

Finnsko (fin'skō), n. [Norw. Finnsko, < Finn, Finn. + sko, shoe.] In Norway, a boot made of the skin of the legs of the reindeer buck steeped in a decoction of birch bark or tanned in tar-water. It is worn with the hair outside.

These finneska... are a pre-eminently warm covering for the feet, and are very suitable for use on ski or snow-shoes. Nansen (trans.), First Crossing of Greenland, I. 48.

Fin. Sec. An abbreviation of Financial Secretary.

to a common expense or tribute to the king, levied on every subject in time of special emergency. The Sephardim (Spanish Jews) emergency. The Sephardim (Spanish Jews) still apply the term to their fixed contributions for the synagogue. flord-yalley (fyôrd'val"i), n. Anarrow, nearly

parallel-walled valley occupied by an arm of the sea. J. Geikie, The Great Ico Age, p. 46. florino (fē-ō-rē'nō), n. [lt.: see florin.] A Tuscan gold coin equal to about 27 United States cents: so called from the fact that it

bore the fleur-de-lis, the arms of Florence. for n.—Algerian fir, a tall pyramidal species, Abies Numidica, native on high mountains in Algiers. It is hardy
in France and England, and is attractive in ornamental
cultivation.—Alpine fir, Abies lasiocarpa, a tall tree, 80175 feet high and 2-5 feet in diameter, which occupies
high mountain slopes and summits from Arizona to Alaska
and eastward to Colorado and Idaho. It has dense foliare small dark numble cones and light soft word of hitle high mountain slopes and summits from Arizona to Alaska and eastward to Colorado and Idaho. It has dense foliage, small dark-purple cones, and light, soft wood of little value except for fuel. Also called balsam-fir, subalpine fir, and Oregon balsam-tree.—Amabllis fir. Same as lovely *\pi_ir.—Balsam-fir. (a) Abics balsamor. See Abics, fir, and bulsam-tree. (b) The she-balsam or Fraser fir, Abics Fraseri, of the more southern Appalachian Mountains. (c) Same as alpine *\pi_ir.—Balsam of fir. Same as Canada balsam.—Bristle-cone fir, Abics venusta, a large tree, 100-150 feet high and sometimes 3 feet in diameter, distinguished by the long awns of the bracts of its cones, which give them a hristly appearance. It is a rare tree, restricted to a small area of southern California on the slopes of the Santa Lucia Mountains in Monterey county. The under surface of the leaves is silvery white, for which reason it shares with several other firs the name of silver fir.—Cephalonian fir, Abics Cephalonica, a fir with large cones, a native of the highlands of Cephalonia and Greece. Also called Greek fir.—Crimean fir, Abics Nordmanniana, a native of the Crimea and western Caucasus, which has long cones the bracts of which are tipped with a conspicuous sharp point. Also called the Nordmanni fr and Nordmann's silver fir. It is common in the parks of Europe.—Double fir, double fir-balsam, the she-balsam or Fraser fir, Abics Fraseri, a small tree of the more southern Appalachian region, from southwestern Virginia to western



Fraser Fir (Abies Fraseri). (From Sargent's "Manual of the Trees of North America,")

Fraser Fir (Abres Frasert).

(From Sargent's "Manual of the Trees of North America.")

North Carolina and eastern Tennessee. It has dense foliage and small cones with a rough surface, thus differing markedly from the more northern balsam-fir which it replaces. Also called balsam-fir and she-balsam. Grand, great California, or silver fir, the Oregon white fir, Abies yrandis.—Greek fir. Same as Cephalonian *fir.—Indian fir, the mast-tree, Polyathia longifolia. See mast-tree, 2, and *asoka, 2.—Lovely fir, Abies amabilis, one of the largest and most beautiful of western American trees, often attaining a height of 350 feet and a diameter of 6 feet. When growing in open situations it is clothed to near the ground with branches which sweep down in grace-ful curves and which are covered with reddish-brown or purple branchlets. The wood is light but hard and fine-grained, and is valuable for the interior finish of buildings. The tree occupies high mountain slopes and benches in the Cascade and Coast ranges from British Columbia to Oregon; it has been introduced into parks in western Enrope. Also called anabilis fir, red fir, red silver fir, and white fir.—Lowland fir. Same as grand *fir.—Magnificent fir.—Lowland fir. Same as grand *fir.—Magnificent fir.—Noble fir, Abiesnabilis, a very large tree, sometimes attaining a height of 250 feet and a diameter of 8 feet, forming extensive forests in the Cascade range and Siskiyou Mountainsat from 2,500 to 5,000 feet elevation. It has densely set short leaves and large oblong cones, the hracts broad with fimbriate margins and strong midribs produced into conspicuous tips. The wood is light but strong and rather fine-grained, and is used under the name of larch for the interior finish of buildings. Also called red fir.—Pitch fir, Abies Pichta, a small tree of northeastern Russia and Siberia, extending to Kamean *fir.
Oregon white fir. Same as grand *fir.—Parasol fir. Oregon white fir. Same as grand *fir.—Parasol fir.—See parasol-fir.—Pitch fir, Abies rehighlands to 9,000 feet alti

fire-crome

of 200 feet and a diameter of 10 feet, a native of the Cascade range and Sierra Nevada Mountains, common on Mount Shasta, reaching a maximum elevation of 10,000 feet. It has large oblong-cylindrical cones with smooth surfaces and short curving leaves. The wood is light and soft, not strong but durable, making coarse lumber. It is considerably planted in Europe and to some extent in the eastern United States as an ornamental tree. Also called red fir.—She-balsam fir. See balsam+fir/f0.—Siberian fir. Same as pitch *fir.—Silver fir, the name given to most firs which have the under surface of their leaves silvery white or glancous: (a) Abies Picea. See silver fir, under silver. (b) Same as Algerian *fir. (c) Same as bristle-cone *fir. (d) Same as grand *fir. (e) Same as bristle-cone *fir. (d) Same as grand *fir. (e) Same as Fraser *fir. (f) Abies amabilis, distinguished as red silver fir. (j) The king-pine, Abies Webbiano, often called Webb's silver fir. See king-pine, under pinel.—Silver-fir leaf-disease. See *disese.—Spruce-fir, the Norway spruce, Picea Abies (which see, under spruce3).—Subalpine fir. Same as alpine *fir.—Umbrella fir. Same as umbrella pine. See Sciadopitys.—White fir. (a) Abies concolor, a large tree of the Rocky Mountains, extending westward to California, north to Oregon, and south to Mexico, attaining its maximum height of 250 feet in the Sierras. It is the only fir of the arid regions and Great Fasin. The wood is light, soft, and coarse-grained, but is somewhat used for lumber. (b) Same as grand *fir. (c) Same as lovely *fir.

fir. An abbreviation of firkin.

An abbreviation of firkin.

fire, n.—Automatic fire. Same as spontaneous combus-tion (which see, under combustion).—Electrical fire, a term used by Benjamin Franklin as synonymous with elec-tric fluid and frequently in the sense in which electric charge is used by modern writers.

There is no more electrical fire in a bottle after charging than before.

Franklin, New Experiments and Observations on Electricity, p. 35.

Greek fire. (b) A solution of phosphorus in carbon disulphid. When this is exposed to the air at ordinary temperature the solvent soon evaporates, and in a very short time the phosphorus, which is left behind in a finely divided condition, bursts into flame. It has been proposed to use this solution in war in setting fire to ships, houses, etc., but it is not very effective, since the oxid of phosphorus formed in combustion coats over the wood or other less inflammable material, protecting it from the oxygen of the air, and so from the fire. Red fire, a pyrotechnic mixture of readily combustible materials, one ingredient of which is strontium nitrate or chlorate, which causes the whole to burn with a vivid red light: much used for theatrical and out-of-door exhibitions, and in signaling. Thorpe, Dict. Applied Chem., III. 341.

fire, v. i. 7. In geol., to break out in flames or incandescent gases: said of volcanoes.

fire-altar (fir'al*tär), n. An altar upon which burnt sacrifices were offered, as distinguished from one used for incense only. In some cases

from one used for incense only. In some cases the fire-altar was built up of the remains of former burnt sacrifices: the most remarkable known instance of this was at Pergamon in Asia Mmor.

was at rengamon in Asia since. firearm, New **automatic. fire-bag (fir'bag), n. A bag containing fire-mak ing implements such as are used by Indians. fire-bean (fir'ben), n. The scarlet runner, Phaseolus multiflorus.

fire-bird, n. 2. The vermilion flyeatcher, Pyrocephalus rubineus. one of the South American fire-erowned flycatchers, represented in the southwestern United States by the subspecies P. rubineus mexicanus. The full rounded crest and under parts of the male are of a brilliant scarlet, whence the name.

fire-blende (fir'blend), n. Same as pyrostilpnite. fire-blight (fir'bott), n. A bolt of fire or flame; a

discharge of lightning such as sets fire to inflammable terrestrial objects; any severe flash which appears to strike downward to the earth's surface.

fire-boss (fir'bos), n. A mine official who examines the mine for gas and inspects safety. lamps taken into the mine. Jour. Franklin

Inst., Aug., 1903, p. 106.

fire-bowl (fir'bol), n. A large bowl-shaped utensil made by Japanese and Chinese potters for holding fire. See *hibachi and *koro2.

fire-box, n.—Belpaire fire-box, a locomotive fire-box the flat crown-sheet of which is stayed to the parallel boiler-shell, thus avoiding the necessity for using crown-

fire-brat (fir-brat), n. A thysanurous insect, Thermobia furnorum, of the family Lepismatidæ; found in bake-houses, and supposed to be

fond of heat.

fire-bug, n. 2. Same as cabbage-bug.

fireburn-bush (fir'bern-bush), n. A West Indian shrub, Triopteris Jamaicensis, belonging to the family Malpighiacen: so ealled from the use of its leaves in the treatment of burns.

fire-cracker, n.—Floral fire-cracker, vegetable fire-cracker, the crimson satiu-flower, Brevoortia Ida-Maia. See *Brevoortia, 2.

fire-crome (fir'krom), n. A long pole with a hook at one end, used in pulling down buildings at a fire in order to save adjoining propfire-cure (fir'kūr), v. t. To cure (tobacco) by means of open fires. After the tohacco has yellowed for a few days, hanging on scaffolds or in the barn, slow wood fires are kindled on the floor of the barn and maintained for four or five days. This method is used with 'dark export tobacco,' and imparts to it a creosotic flavor demanded by the export trade. See export *tobacco.

Tobaccos that have been fire-cured, as the plng tobaccos, contain in most cases neither oxidase, peroxidase, nor catalase.

U. S. Dept. Agr., Rep. 65, p. 34.

fire-door, n. 2. A fire-proof door in a wall or partition, designed to retard or prevent the spread of fire into or through a building. It is made of iron, or of wood covered with sheet-iron, and some-times closes antomatically, moving into place when the heat of a fire melts a fusible link.

fire-drill (fir'dril"), n. 1. A primitive instrument used in producing fire by friction, confire-resisting (fir're-zis"ting), a. sisting of a pointed stick pressed into a hole in a piece of dry wood and rapidly twirled between the hands: later the twirling was done by means of a thong or bow. -2. The exercises and training given to a company of firemen, the crew of a ship, etc., to accustom them to the duties proper to each in case of fire, or the disciplinary drill given to school-children in school to insure calmness among them, and prevention of panic, in case of fire occurring

in the school-buildings, fire-drilling (fir'dril'ing), n. The process of obtaining fire by means of the fire-drill. fire-finch, n. 2. A name applied to various

weaver birds (Ploceidæ) of the genus Pyromelana, on account of the brilliant red shown by the males in breeding plumage.

fire-fish (fir'fish), n. A name of species of fishes of the genus Pterois found in the East Indies. fire-fiame (fir'flam), n. A fish, Cepola rubescens, of the family Cepolidæ; found in European waters

fire-grass (fir'gras), n. The parsley-piert, Alchemilla arvensis.

fire-lane (fir'lan), n. Same as *fire-line, 1. fire-line (fir'lin), n. 1. In forestry, a strip kept clear of inflammable material as a protection against the spread of ferest fire.—2.

pl. The 'lines' or cordon established by the police around the scene of a fire, and at a safe distance from it, thus setting up a danger-line within which no one is allowed who is not connected with fighting the flames or salving the property.

fire-on-the-mountain (fir en-the-moun'tan), n. A euphorbiaceous annual plant of the warmer regions of America, Poinsettia heterophylla, having bright red floral bracts which in this species are toothed. Also called Mexican fire-plant.

fire-painting (fir'pān"ting), n. The action of the fire in bringing out certain iridescent effects in metallic luster-glazes by special treatment in the kiln. See the extract.

ment in the kiln. See the extract.

The biscuit ware is entirely covered with a glaze of a solid tint which, when exposed to the nsual degree of heat in firing, would come from the kiln in a single Instreless color or valueless tone. By subjecting it to a peculiar firing, in a kiln especially designed for the purpose, a wonderful iridescence and variety of coloring is produced. So appropriately has this ware been named that if the finished product should be afterwards placed in an ordinary glost furnace, it will entirely lose its beantiful appearance, but if returned to the special kiln ence more the Fire-Painting will ngain be restored in all its prismatic brilliancy. By this process Fire-Painted ware may be produced successfully in all colors and Instres.

E. A. Barber, Pottery and Porcelain of the U. S., p. 494.

fire-patrol (fir'pā-trēl'), n. A salvage corps

fire-patrol (fīr'pā-trēl"), n. A salvage corps maintained by the insurance companies, and manifamed by the insurance companies, and working with the fire-department of a city. Their business is to prevent botting at fires, and to protect goods or honsehold stuff from damage by water with the tarpaulins, rubber sheets, etc., with which they are provided. They are also charged with the safe-keeping of the property until the insurance losses have heen adjusted and paid. See salvage corps, under salvage. [Chiefly U. S.]

fire-pink (fir'pink), n. See pink². fire-plant (fir'plant), n. Same as *fire-on-the-

fireproofing, n. 2. Any building material used to retard or prevent the destruction of a building by heat or flame. Such materials used in



Fire-proof Floor Construction.

A, steel beam; R, hollow brick, forming flat arch; C, hollow brick abutment for arch; D, tile, under beam; R, concrete filling; F, wood flooring; G, tile flooring; M, steel cleat; I, wood strip for flooring; J, cinder bedding under tile; K, plaster ceiling; L, stayrod Joining beams.

portions of an etherwise non-fireproof building merely hinder the spread of a fire and tend to render the building slow-burning. Among them are stone, marble, terracotta, brick, artificial stone, corrugated iron, and sheetmetals for ovexterior walls, and slate, tiles, and sheet-metals for rooting. For interior walls, floors, and stairs, slate, marble, plain and ornamental brick, plasters, cements, reinforced concrete and mosaic, wire lathing, metallic window-frames, sashes, doors, shutters, and trim, and wire glass are extensively used. For floors between steel beams, reinforced concrete, hollow brick and bollow tile, plaster, and cements are used, not only to build flat arehes, but also to inclose and protect the beams and columns, piping, and electric wiring. Woven wire, grille-work, and expanded metals are also used for inclosing stair- and elevator-wells. With these naterials a steel-frame building can be made fire-resistant to a high degree and safe against serious injury from the burning of the furniture and ordinary contents.

Fitted to resist the effects of fire: as, fire-resisting materials. [Suggested by the International Fireprevention Congress as a substitute for fire-proof.] Engineering (London), July 24,1903, p.

fire-risk (fir'risk), n. 1. The risk of loss by fire.-2. The obligation to make good loss or damage by fire undertaken by a fire-insurance company. Hence-3. The property on which this risk is taken: as, a good fire-risk.

fire-stick, n. 3. pl. A pair of sticks used for lifting coals out of the fire, or for rearranging the burning fagots.

In the same plate are included a pair of wooden fire-sticks or tongs [of the Tulare Indians.] Smithsonian Rep. (Nat. Mas.), 1900, p. 180.

fire-stop (fir'step), n. Same as fire-bridge. fire-syringe (fir'sir"inj), n. 1. An instrument used by certain peoples of the East Indies to produce fire. It consists of a hollow cylinder of wood, bone, or metal, epen at one end, and having a close-fitting piston by means of which the air in the cylinder can be suddenly compressed and thus a piece of tow or similar material at the bottom of the cylinder ignited.

The most interesting objects. . . from an ethnological point of view were a set of the fire-syringes (generally manufactured from bone or horn) which are still used in some up-country villages for the production of fire.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 418.

2. A device consisting of a cylinder and piston attached to a tinder-bex. The tinder may be ignited by the heat generated in the compression of the air in the cylinder.

firetail, n. 3. An Australian name of two small weaver birds, Agintha temporalis, and Zonæginthus bellus.

fire-test (fir'test), n. 1. The determination of the temperature at which kerosene or other hydrocarbon eil used for illumination on being gradually heated first gives off enough vapor to eatch fire from a momentarily applied match or electric spark. Same as flash-test. -2. The subjecting of pettery or percelain to various degrees of heat in a kiln to ascertain its relative hardness or fire-resisting properties.

Indeed, fire-tests made by Prof. Isaac Broome, to whom I submitted specimens, show that the Tucker porcelain will stand a higher degree of heat than the Sevres ware.

E. A. Barber, Pottery and Porcelain of the U. S., p. 127.

fire-thorn (fir'thôrn), n. The pyracanth or evergreen thorn, Cotoncaster Pyracantha.

fire-top (fir'top), n. The great willow-herb or fireweed, Chamænerion angustifolium.

fire-walk (fīr'wak), n. A ceremony of the Fijians in which a number of barefooted men walk over hot stones which fill a large circular

Among these notable accounts is one by Col. Gudgeon, Among these notable accounts is one by Col. Gudgeou, British resident at Raratonga, describing the experiment by a man from Raiatea, and also a like account of the Fiji fire ceremony from Dr. T. M. Hocken, whose article is also quoted in Mr. Lang's paper on the "Fire Walk," in the Proceedings of the Society for Psychical Research, February, 1900. This extraordinary rite is also described by Mr. Fraser in the Golden Bongh, and by others.

Sci. Amer. Sup., Feb. 14, 1903, p. 22677.

fire-walking (fir'wâ'king), n. Same as *fire-walk. Athenæum, Feb. 13, 1904, p. 217.

fireweed, n. (e) The Jimson-weed, Datura Stramonium; also, occasionally, D. Tatula. (f) The wild lettuce, Lactuea Canadensis. (g) The golden ragwort, Senecio aureus.

fire-well (fir'wel), n. An emanation of inflammable gas from a natural vent.

In the second class of gas-springs we may group the emanations of carburetted hydrogen, which, when they take fire, are known as Fire-wells. Encyc. Brit., X. 251.

fire-worm, n. 2. Same as blackhead *cranberry-worm.
firing, n. 7. Same as *scorching, 3: applied

especially to tobacco and corn.

During very rainy seasons, and in some kinds of unfavourable soil, the plant is subject to a malady called \$\hat{pring}\$. Tatham, Cult. and Com. of Tobacco, p. 22.

firing-head (fir'ing-hed), n. A box or head containing a percussion-cap and a firing-pin. fitted to an oil-well torpedo. After the torpedo is in place at the bottom of the well, a small weight called a go-devil is dropped on the firing-head, which explodes the torpedo.

firing-pin (fīr'ing-pin), n. That part of the breech-mechanism of a small arm or cannon which explodes the primer of the cartridge.

which exprodes the printer of the cartrage.

firm, n.—Long firm, a swindler or a pack of swindlers who, pretending to be in business in some particular line or lines, order goods, usually from a distance, to be sent to their pretended place of business, dispose of the goods at once for whatever they will bring, and disappear, leaving the bill unwaid to remeat the swindle in squae other ing the bill unpaid, to repeat the swindle in some other place. [Colloq., Great Britain.]

fir-moss (fer'môs), n. The fir club-moss, Ly-copodium Selago. See *club-moss.
fir-rape (fer'rāp), n. 1. The pine-sap, Hypopitys Hypopithys.—2. The beech-dreps, Leptannium Iriginianum.

First aid, hand, officer, etc. See *aid1, etc. firstness, n. 2. In the phenomenology of C. S. Peirce, the mode of being of that which is whatever it is regardless of anything else. This is true only of qualities of feeling, such as red or scarlet, and of such qualities of a similar nature as we suppose things to possess. Thus, although hardness consists in resistance to being scratched by a second thing, yet our ordinary common-sense conception is that a hord body possesses in itself a quality which it retains although it never comes into contact with another, and that this quality, which it possesses regardless of anything else and would possess though all the rest of the universe never existed, is the cause of the difficulty of scratching it. The mode of being of such an internal quality is firstness. That which has firstness can have no parts, because the being of an object which has parts consists in the being of the parts, which are none of them the whole. Any analysis of the constituents of a quality is a description of something found to be true of whatever possesses that quality. But a quality of feeling, as it is in its mode of being as a quality, has no parts.

fiscalization (fis "ka-li-zā'shon), n. [Sp. fis-First aid, hand, officer, etc. See *aid1, etc.

fiscalization (fis/ka-li-zā'shon), n. calisacion = Pg. fiscalisacão: as fiscalize + -ation.] The fiscal treatment of a matter.

It was also resolved, in view of the fact that they were It was also resolved, in view of the fact that they were interested in the development and jiscalization of the trade, to maintain the traditional regimen decreed in the royal letter of January 23, 1612.

Geog. Jour. (R. G. S.), XI. 188.

fiscalize (fis'ka-liz), v. t.; pret. and pp. fiscalized, ppr. fiscalizing. [Sp. Pg. fiscalisar: as fiscal + -ize.] To examine, manage, or regulate (a matter of business) in respect to its fiscal or revenue features.

fisetic (fi-set'ik), a. [G. *fisetisch, < fiset(holz), young fustic.] Of or pertaining to fustic.

Fisetic acid, an incorrect name for fisetin.

Fishl, n., 6. (b) The Southern Fish, Piseis Australis or Austrinus.—Atka fish, a fish of the genus Pleurogrammus, found about the island of Atka—Electric fish, any of the fishes which have the power to give electric shocks, as several species of rays, the electric eet, and the electric cattish.—Foureyed fish. (a) A common name of fishes of the genus Anableps, found in the fresh waters of South America. Their eyes are completely divided by a horizontal partition into an upper and a lower portion; the lower part is popularly supposed to be for use in the water, the other in the nir. See Anableps, with cut. (b) A name sometimes applied to fishes having occilated spots of color resembling auxiliary eyes.—Indian fish. (a) A name, in Jamaica, of Pomaconthus paru, of the family Checkodontida. (b) Chemobrytus gulosus, one of the sunsishes found in fresh waters of the eastern United States.—Isinglass-fish, any fish, as the sturgeon, from which isinglass is made.—Jugular fish, a fish in which the ventral fin s are inserted in advance of the pectoral fins.—San Pedro fish, the opah, Lampris luna.—Silver-bar fish, a common name applied to a member of the family Chiccatridae, Chirocoptrus dorate, a large fish of the Indian Ocean.—Struck fish, a fish salted and then smoked. fish1, n., 6. (b) The Southern Fish, Piseis

fish-block (fish'blok), n. The hoisting-block used in fishing an ancher. fished (fisht), a. Filled with fish.

When it [the net] was hove up alongside it was seen to be well fished.

Rep. Mass. Com. Fisheries and Game, 1904, p. 33.

fisher-fish (fish'er-fish), n. One of the remoras (Echensididæ), said to be used by the Chinese to eateh other fish and turtles. The remora has a powerful sucking-disk on top of its head, and clings tightly to any object. A line is said to be fastened to the tail of the remora, for the purpose of pulling it and its captures to the shore.

fishery, n. 4. The exercise of the right to fish; a fishing vonture or season.

Only thirty-six [pearl] fisheries took place [in Ceylon] during the nineteenth century.

Nature, March 17, 1904, p. 465.

Bank fisheries. See $\star bank1$.—Bureau of Fisheries. See $\star bureau$.—Pelagic fishery. See $\star pelagie$. fish-eye (fish'1), n. 1. A meonstone cut in the

form of the eye of a fish and having a peculiar, soft, milky reflection.—2. An icthyophthal mite. See apophyllite.

fish-fly (fish'fli), n. A member of the genus Chauliodes, of the neuropterous family Sialidæ: specifically, the combliorned fish-fly, Chauliodes pectinieornis.



fish-front(fish'-frunt), n. A strengthening slab placed on the front of a made mast; a piece of wood or iron used to strengthen a weak or broken spar.

fishing, n.—Fishing bill, in law, a bill for discovery in equity, improperly drawn upon loose, vague and insufficient allegations. It may be dismissed upon that ground.—Gorge-fishing, fishing with a gorge-bait, that is, one which is intended to be swallowed by the fish.

fishing-cat (fish'ing-kat), n. A small spotted species of cat, Felis viverrina, found in Bengal: so named from its habit of catching fish.

so named from its habit of catching fish.

fishing-crib (fish'ing-krib), n. Naut., a compartment in which the engine for fishing the fission-algæ (fish'on-al' jē), n. pt. Same as a speker is placed. anchor is placed.

fishing-rod (fish'ing-rod), n. A long, slender, fission-plants (fish'on-plantz), n. pl. Plants tapering rod, frequently jointed and clabonultiplying by simple division; usually rerately made, to which is attached the line and hook used in angling. fish-kid (fish'kid), n. Same as kid³, 2.

fish-leaves (fish'levz), n. The common pondweed, Potamogeton natures. See pondweed (with fissiparously (fi-sip'a-rus-li), adv. In a fissipent).

fish-mold (fish' mold), n. A fungus which grows on fishes.

fish-pendant (fish'pen'dant), n. Naut., the rope to which the fish-hook is secured.

fish-poison, n. Also two species of Cracca, C. purpuren and C. toxicaria, used to stupely fish. See Tephrosia and *Anthu.—Brazilian fish-poison, Serjania lethalis (called timbo by the natives) and Paullinia pinnata. See Serjania and *Anabasco.—California fish-poison. In California a number of plants are used by the Indians for stupefying fish. The two principal ones are Chlorogatum pomeridianum, belonging to the Melanthiacexe, with a bulbous saponaceous root, also called amole, or scaproot; and Piscaria setigera (Croton setigerus of Ilooker), belonging to the Euphorbiaece, of which the crushed leaves are used.—Ceylon fish-poison, Hyduacarpus venenata, a tree belonging to the family Flacourtiacex, the narcotic fruits of which are used to poison fish, but which sometimes render them unfit for food: also found in Malabar and Travancore. Called by the Cingalese makutu.—East Indian fish-poison, Walsura piscidia, a small tree of Ceylon, Travancore and Malabar, belonging to the Melineexe. It has a bright yellow fruit with a single seed surrounded by an edible aril. The bark is used as a fish intoxicant, which does not render the fish unfit for food.—Gnam fish-poison, the fruit of a tree, Barringtonia speciosa. See *botony and *muting.—Malayan fish-poison, a poison derived from Deguelia elliptica, a handsome leguminons climber called tuba by the Malayans. See *tuba2.—Mexican fish-poison, a poison derived from Several species of Sebastiana of the spurge family, especially S. bilocularis and S. Palmeri. (b) Two leguminous plants, Ichthyomethia Piscipula and Cracca toxicaria. (c) Paullinia pteropoda, of the soapberry family.—Philippine plants, called tuba by the natives (see *tuba2). Anong them are the widely spread physicnut, Jatropha Curcas, and Croton Tiglium (see Cruton, 1), of the spurge family, and Cocculus Cocculus. (See Cocculus).—Polynesian fish-poison, Barringtonia speciosa and Deguelia trifoliata, the latter a creeping legumino

fish-pole (fish'pōl), n. A slender pole to which a line is attached for fishing; specifically, a pole of natural growth and in one piece, as distinguished from an artificial jointed rod. See rod^1 , 1 (e).

fish-powder (fish'pou"der), n. Dried fish pulverized: a food for use on arctic or other long voyages, where space and keeping qualities have to be considered. *Geog. Jour.* (R. G. S.), XIII. 140.

Fish-skin grain. See *grain1.

fish-tail, a.—Fish-tail wind, a wind which blows toward or from a target and canses a rifle-hall to strike either too high or low, respectively, so that the shot-holes are contained within an area whose onthine suggests the shape of a fish's tail. The broad end of the tail is above the bull's-eye when the wind blows toward the target, but below it when the wind blows toward the marksman.

fish-well (fish'wel), n. An inclosure in a fishing-vessel, extending from the bottom to the deck, and designed to contain live fish. The floor of the well is a grating which freely ad- fissure-eruption (fish' $\bar{u}r$ - \bar{e} -rup"shon), n. mits the sea-water.

fissicele, fissicel (fis'i-sēl"), n. [L. fissus, split (see fissicle). + Gr. κοίλος, hollow.] A cavity in the embryo formed by the splitting of a mass of cells. Same as schizocæle.

Fissidentaceæ (fis'i-den-tā'sē-ē), n. pl. [NL., ⟨ Fissidens (-dent-) + -aceæ.] A family of aerocarpous mosses of the order Bryales, typified by the great genus Fissidens, and containing fist, n. only two other genera. It is characterized by two-narked leaves winged on the back and formed of a single layer of similar cells, and by having the teeth of the peristome united at the base and usually split into two thread-shaped divisions. They are handsome creet mosses growing in moist, shady places throughout the world. There are 579 species, all but 9 of which belong to the genus Fissidens.

fissigemmation (fis "i-je-mā'shon), n. fissus, split, + gemma, bud: see gemmation.] In biol., reproduction by means of buds that

Schizophyceæ.

multiplying by simple division: usually restricted to the Schizophyta.

fissiparation (fis "i-pa-rā'shon), n. [fissiparous + -ation.] Same as fissiparism. See fission, 2.

arous manner.

fissirostrate (fis-i-ros'trāt), a. Having a deeply cleft beak; fissirostral.

fish-mouth (fish'mouth), n. The snake-head or turtle-head, Chelone glabra.

Fish-mouth nebula. See *nebula.
fish-pass (fish'pas), n. An artificial channel designed to enable fish to pass from one body of water to another or over river obstructions such as falls or dams. Nature, Ang. 18, 1904, p. 364.
fish-pendant (fish'pen'dant), n. Naut., the rope to which the fish-hook is secured.
fish-poison, n. Also two species of Cracca, C. purpurea and C. toxicaria, used to stupefy fish. See Tephrosia and *ahuhu.—Brazilian fish-poison, Serjania lethatis (called timbo by the natives) and Paullinia pinnata. See Serjania and *barbasco.—California fish-poison. In California a number of plants are used by the Indians for stupefying fish. The two principal ones are Chlorogalum pomeratianum, belonging to the Melanthiaceze, with a bulbous saponaceous root, also called amole, or soaproot; and Piscaria setigera (Croton setyperus of Rooker), belonging to the Euphorbiaceze, of which the crushed leaves are used.—Ceylon fish-mouth fish-poison in the called timbo for the postrhinal fissure in the mammalian series (Smith). It is also known the deepest fissure which crosses the mesal plane of the cerebellum on mammals. Also known as the paraghoccular sudcus.—Fissura primas, the deepest fissure which cocculi, a fissure form the remainder. In animals below man it is a sac called fissure primas, the deepest fissure which crosses the mesal plane of the cerebellum on mammals. Also known at transverse tirection and separates the deepest fissure which cocculi, a fissure primasely fissure in the mammalian series (Smith). It is also known as fissure in the mammalian series (Smith). It is also known the fish-poison, Serjania in the mammalian series (Smith). It is also known the cerebellum, a fissure in the mammalian series (Smith). It is also known the cerebellum fish primata. See Serjania and *barbasco.—California fish-poison, sactured to the mammalian series (Smith). It is also known the olfactory bulb or lobe to the Sylvian fissure at the tempor

prima. The fissura prima separates the lobus antieus from the lobus centralis. The fissura secunda separates the lobus centralis from the lobus centralis from the lobus centralis from the lobus centralis from the lobus posticus.

fissure, n.—Adoccipital fissure. See *adoccipital.—Amygdaline fissure, a fissure of the brain near the extremity of the temporal lobo.—Ansate fissure or sulcus, in anat., one of the minor fissures lying on the superior aspect of the anterior half of the brain.—Anterotemporal fissure, a fissure insteadd to and more or less parallel with the fissure of Sylvius. Synonymous with the superior temporal sulcus, or the parallel fissure in apes. Proc. Zool. Soc. London, 1901, I. 128.—Callosal fissure, the interval between the dorsal surface of the corpus callosum and the cerebral cortex above.—Craniofacial fissure. See *craniofacial.—Ectorhinal fissure, in anat., the furrow which separates the rhinencephalon from the rest of the hemisphere.—Exoccipital fissure, in ornith, the space or cleft between the ilium and ischium. In the ostrich and most of its allies, this remains open throughout life; in the vast majority of birds, the distal portions of the ilium and ischium unite, converting the proximal portion of the fissure into the obturator foramen. Also called the obturator fissure.—Inferofrontal fissure, a fissure which lios between the middle and the inferior frontal convolutions of the hrain. Also known as the subfrontal fissure.—Intercerebral fissure, the large fissure which separates the two hemispheres of the brain.—Intraparietal fissure, a fissure which are cases is continued into the sylvian lissure, and in rare cases is continued into the sylvian lissure. Same as parieto-occipital fissure.—Coclpital fissure. Same as intraparietal fissure.—Postclival fissure, a fissure of the cerebulum behind the clivus or inclined apper surface of the vermis.—Postgracile fissure, a fissure of the cerebrum between the slender and the inferior semilumar lobes.—Postseptal fissure, a fissure found in the b operculum under winch portions of other fissures may be found. Also known as ape-fissure or affenspalte. See *ape-fissure.—Subfrontal fissure, Same as inferofrontal *affissure.—Supercentral fissure, a fissure nearly parallel to and above the fissure of Rolando.—Suprasylvian fissure, a fissure which lies above and arches more or less completely over the end of the Sylvian fissure. It is well developed in the brains of carnivores.

outbreak of lava through a fissure in the earth's crust without the production of a volcanic cone. The name was suggested by Sir A. Geikie to describe the great lava fields of the Snake river region of Idaho, where there are vast surface flows of basalt unaccompanied by volcanoes. Geikie, Text-book of Geol. (4th ed.), p. 264.

fissuring (fish'ūr-ing), n. The production of fissures through strata.

3. In printing, the index sign F, included by type-founders among the marks of reference.

fist³, fiste (fist), n. Same as $fise^2$ and fise-dog. fistula, n. 5. A tube or pipe which normally connects some internal part or organ of an animal with the surrounding air or water, as the trachea of an insect or the blow-hole of a whale.

Like eetaceons animals and Whales, the Lamprey hath a fistula spout or pipe at the back part of the head.

Sir T. Browne, Pseud. Epidemica, iii. 19.

Sir T. Browne, Pseud. Epidemica, iii. 19.

Amphibolic fistula. See ★amphibolic.—Biliary fistula. See ★biliary.—Black or purging fistula. Same as purging-cassia. See Cassia.—Branchial fistula, a congenital opening in the neck communicating with the pharynx, due to non-closure of a branchial cloft.—Coccygeal fistula, an opening near the coccyx leading down to a dermoid cyst of that region.—Fecal fistula, an opening in the abdominal wall communicating with the intestine.—Gastric fistula, a communication formed between the stomach and the external surface of the abdomen.—Thiry-Vella fistula, an artificial opening made into the intestine of an animal for the purpose of collecting the intestinal secretions.—Urinary fistula, an abnormal opening into the nrinary bladder: variously called vesico-intestinal, resicouterine, or vesicounginal, according as it affords a communication between the bladder and intestine, uterus, or vagina.

fistula-needle (fis'tū-la-ne''dl), n. A blunt-pointed, flexible probe with an eye near its extremity, used for passing a ligature or seton through a fistulous tract.

Fistulata (fis-tū-lā'tā), n. pl. [NL.: see fis-tulate.] In Wachsmuth and Springer's classi-fication of the Crinoidea, an order containing forms in which the arms are free above the radials and the posterior side of the tegmen is extended into an elongate sac or ventral tube. The ambulaera are tegminal and roofed over by covering pieces. Cyathocrinus, Poteriocrinus, and Lecythocrinus are examples of the order. Most of the genera are Paleozoic; none survive after the Trias.

fistulation (fis-tū-lā'shon), n. The produc-

tion of a fistula. N. E. D. fistulatome (fis'tū-la-tōm), n. [L. fistula + Gr. -τομος, ζ ταμείν, cut.] An instrument resembling a probe-pointed bistoury: used for laying open a fistulous tract.

laying open a fistulous tract.

fistule, n. 2. A sponge of the genus Fistula.

Fistulipora (fis-ţū-lip'ō-rā), n. [NL., < L.
fistula, pipe, + Ğr. πόρος, pore.] The typical genus of the family Fistuliporidæ.

Fistuliporidæ (fis-tū-li-por'i-dē), n. pl. [NL., < Fistuliporidæ (fis-tū-li-por'i-dē), n. pl. [NL., < Fistulipora + -idæ.] A family of Paleozoic tabulata corals grawing in incrusting mes-

tabulate corals growing in incrusting, massive, or branching form, with very fine tubular corallites, having horizontal tabulæ and no septa.

fistulization (fis "tū-lī-zā'shon), n. [fistula + -ize + -ation.] Same as *fistulation.

fit, n. 8. In optics, a periodic phase through which Newton, in his emission theory of light, assumed the luminous corpuscles to pass, and which enabled them to be alternately reflected or transmitted at the surface of a refracting medium. This assumption formed the basis of the so-called theory

of fits.—Nine-day fits. Same as trismus neonatorum, f.i.t. An abbreviation of free in truck. [Eug.] fitcher (fich 'er), v. t. and i. [Appar. < F. ficher, stick.] In mining, to stick; to cause to stick; to operate a drill without giving it a rotary motion, thus forming a wedge-shaped cavity in which the drill will stick.

fitchew, n. 2. The fur of the polecat, formerly known as the fitchew, later shortened to fitch.

See fitch², 2. fitting, n. 3. Specifically, any small casting or other metal part of a machine or apparatus used to fit together or assemble other parts. as a coupling or elbow used to join lengths of

Fittonia (fi-tō'ni-ā), n. [NL. (Coemans, 1865), named in honor of the sisters Elizabeth and Sarah M. Fitton, Irish writers on popular botany (1817).] A genus of plants of the family Acanthaccæ. They are trailing herbs, with inconspicuous flowers borne in bracted terminal spikes. The three species, all natives of Peru, are grown in greenhouses for the delicate and showy red or white venation

five, n.—High five, See *cinch, 4. five-corners (fiv'kôr-nerz), n. The fruit of a small Australian tree, Styphelia triffora, belonging to the family Epacridaceæ; also betree itself. The fruits are about the size of a pea and have a sweetish pulp with a large stone. They form part of the food of the aboriginals. [Australia.]

fivefinger, n. 5. The Virginia erceper, Parthereview gringwefelic Virginia erceper, Parthereview gringwefelic Virginia erceper.

thenocissus quinquefolia.—Dwarf fivefinger, Potentilla punila, a low perennial herb of the eastern United States, closely related to the common fivefinger, P. Canadensis, but much smaller and having more deeply toothed leaflets.

fivefingers (fiv'fing"gers), n. The American

ginseng, Panax quinquefolius. five-or-nine (fiv'or-nin"), n. The game of Pope Joan or matrimony without the lay-out, the eldest hand beginning with the 5 or 9 of any

five-sisters (fiv-sis'ters), n. The whorled loosestrife, Lysimachia quadrifolia, the whorls of which consist as often of five as of four

of which consist as often of five as of four leaves. It is a delicate and graceful plant with yellow flowers dark-streaked or spotted on fillform peduncles in the axis of the leaves. It grows in shady places throughout eastern North America. See loosestrife, with cut. fivesprig-tree (fiv'sprig-tre), n. A West Indian tree, Quararibea turbinata, of the silk-cotton family; so called from its whorls of five branches. The leaves and flowers, when dried, possess a strong odor of fennoreek possess a strong odor of fenugreek

five-throw (fiv thro), a. Having five different cranks or eams, so that five separate motions

can be received or imparted.

fix, n. 2. In naut. surv., the operation of determining ('fixing') the position of an unknown point by the three-point problem, which involves the measurement, at the point, of the two angles between lines running to three known visible points.

There is nothing in a natical survey which requires more attention than the "fix"; a knowledge of the principles involved is essential in order to select properly situated objects. The method of fixing by two angles between three fixed points is generally known as the "two-circle method," but there are really three circles involved. The "station-pointer" is the instrument used for plotting fixes.

Energy. Brit., XXXXIII. 07.

fixate, v. t. 3. In psychological and physiological optics, to direct the eves upon; bring within the area of clearest vision.

fixation, n. 6. Attachment; adhesion: as, various parasites have organs for fixation.—
7. In psychological and physiological optics, the aet or process of directing the eyes upon some ing of a retinal image into and holding it upon the area of direct vision.—Fixation-circle, -cross, -mark, -point, in psychological and physiological optics, a small object or a spot of light which the observer is required to fixate, and which thus serves to maintain his eye or eyes in a constant position during an experiment: used in perimetry, in tachistoscopic observations, etc.—Inner fixation-point, in psychol., the element or aspect of an idea which is most clearly and distinctly perceived as the idea runs its course: an expression borrowed from the physiology of vision, and contrasted with outer fixation-point. W. W undt (trans.) Outlines of Psychol., p. 155.—Line of fixation, in psychological and physiological optics, a line in the field of regard along which the fixation-point of the eyes moves as convergence is changed from a far to a line in the field of regard along which the fixation-point of the eyes moves as convergence is changed from a far to a near object, or conversely. W. Wundt, trans.). Outlines of Psychol., p. 185.—Monocular fixation-point, the point of regard or center of the area of direct vision of the aingle eye.—Outer fixation-point. Same as fixation-point. See *fixation-circle.

Availage n. 2. In perfumery, a substance used

fixative, n. 2. In perfumery, a substance used to detain from too speedy evaporation a highly volatile ingredient of agreeable odor. The substance so used may itself be inodorous or may contribute to the blended odor of the mixed

perfume.—3. Same as *amboceptor.
fixator (fik'sā-tor), n. Same as *amboceptor.
Fixed cheek. See *cheek.
Fizeau-Cornu method. See *method.

Fizean's experiment, method. See relocity of *light.

An abbreviation (b) of Flanders; (c) of Flemish; (d) of Florida.

la. An abbreviation of Florida.

flab (flab), n. [Var. of flap.] In bot., the eap of any large mushroom. Also flap. flabellifoliate (flā-bel-i-fō'li-āt), a. [L. flabel-heelifoliate]

lum, fan, + folium, leaf (see foliate).] Having fan-shaped or fan-like leaves, either such as those of the fan-palms or such as fold like a fan, as do those of Oxalis.

of the heart-shaped leaves. F. Verschaffeltii and F. Flacian (flā'shian), a. and n. I. a. Of or per-argyroneura, the former with red, the latter with white veins, are frequent in good collections. Illyricus, an eminent Lutheran reformer 1520-

> II. n. A follower of Flacius Illyricus. See \star Flacianism.

Flacianism (fla'shian-izm), n. The doetrine of Flacius Illyricus, who as a strict Lutheran opposed the teachings of Melanchthon in the adiaphoristic and synergistic controversies.

Flacourtiaceæ (fla-kör-ti-ā'sē-ē), n. pl. [NL. (Lindley, 1830), < Flacourtia + -aceæ.] A family of dicotyledonous choripetalous plants of the order Hypericales, typified by the genus flag-list (flag'list), n. The list of admirals or Flacourtia, formerly included in the Bixacex, but more closely related to the Violacex. It includes 79 genera and about 300 species. chiefly woody plants of the tropies. See Samydacer.

flag 2 , n. 7. A trade-name for the outer or distal portion of bristle, which is thinner and lighter than the basal portion.

The flag is much thinner and more flexible, and is used or paint brushes. Sci. Am. Sup., 1903, p. 22,611. for paint brushes.

Absence flag, a small, square, blue flag hoisted at the starboard spreader of a yacht to signify that the owner is not on at the starboard spreader of a yacht to signify that the owner is not on board.—Flag day. See ***day!.—Foul-weather flag, a storm signal.—Rattlesnake flag, a flag of the American Revolution: a coiled rattlesnake on a yellow field.—Spanish flag, a name of certain fishes which are alternately banded with bright red and golden or white. **Gonioplectrus**hispanus** of the West Indies, a small bass-like flish, is specially known by this mane, as is also the crimson-banded rockfish of the California coast, *Sebastodes rubrivinctus.—Zionist flag, the flag of the Zionists, which has two horizontal blue stripes upon a white ground. These colors are ground.



osed to he the emblem of protection.

The tendency to fixate the lower end of an oblique line drawn in perspective.

E. B. Titchener, Exper. Psychol., I. ii. 312.

fixation, n. 6. Attachment; adhesion: as, various parasites have organs for fixation.—

7. In psychological and physiological optics, the act or process of directing the eyes upon some object, and of maintaining this direction during the time required for observation; the bringing of a retinal image into and holding it upon the area of direct vision.—Fixation-circle, cross, mark—roint, in suschalagical and physiological optics.

The tendency to fixate the lower end of an oblique line flag, 3, n.—Crimson flag, Schizostylis coccinea, an iridaceous plant of south Africa related to Gladiolus, with long tubular crimson flag, in a fayority in flag, with a flag, the slender blue liga, Iris prismatica, of eastern North America, with long, narrow leaves.—Polson flag, a name commonly applied to species of Iris, especially I. versicolor and I. prismatica, to distinguish them from the sweet-flag.—Rattlesnake-flag, the rattlesnake-master, Eryngium yuccifolium, which possesses a flag-like aspect. See cut under rattlesnake-master.—White flag, (a) See def. (b) Iris Florentina, with blush-white flowers. See Iris and orrisorod.

Hag3, n.—Crimson flag, Schizostylis coccinea, an iridaceous plant of south Africa related to Gladiolus, with long tubular crimson flowers. It is a favorite in flower scripts of extent of south Africa related to Gladiolus, with long tubular crimson flowers. Nearrow flag, the selone flag, Iris Pseudacours.—Polson flag, a name commonly applied to species of Iris, especially I. versicolor and I. prismatica, to distinct on the second of the the emblem of protection.

Hag3, n.—Crimson flag, Schizostylis coccinea, an iridaceous plant of south Africa related to Gladiolus, with one tubular crimson flags, a name commonly applied to species of Iris, especially I. versicolor and I. prismatica, of eastern North America, with long narrow leaves.—Polson flag, a name commonly applied to species o

sesses a flag-like aspect. See cut under ratiles in ke-master.

—White flag. (a) See def. (b) Iris Florentina, with bluish-white flowers. See Iris and orris-root.

flag. (a) See def. (b) Iris Florentina, with bluish-white flowers. See Iris and orris-root.

flag. 2.—Arbroath flags, a local name of beds of gray flagstones in Forfarshire, Scotland, belonging to the Old Red Sandstone.—Bannisdale flags, a division of the Upper Silurian in Westmoreland, England, regarded as essentially equivalent to the Middle Ludlow formation of Shropshire, including the Aymestry limestone. The strata attain a thickness of more than 5,000 feet and carry many fossils.—Bellvale flags, a subdivision of the Devonian system in New Jersey and southeastern New York. It is regarded by New Jersey geologists as equivalent to a part of the Hamilton group. It attains, in New Jersey, a thickness of 1,500 feet or more and is underlain by the Monroe shales and overlain by the Skunnemunk conglomerate. Fossils are rare and they are those of the Hamilton group.—Brathay flags | Brathay, a small stream in Westmoreland, the lowest division of the Coniston flags of the Upper Silurian in Westmoreland and Cumberland, England: regarded as the equivalent of the Wenlock strata of Shropshire. They attain a thickness of 1,000 feet and contain many fossils, chiefly graptolites.—Coniston flags, in Eng. geol., a name applied to several divisions of the Silurian rocks. The Coniston flags in Westmoreland and Cumberland attain a thickness of about 3,000 feet and underlie the Coniston grits. They are regarded by Gelkie as equivalent to the Lumber and attain a thickness of about 2,000 feet and underlie the Coniston flags | Flestiniog in Wales|, a division of the Lingula flags | Glekie's classification, the middle subdivision of the Lingula flags and lie between the Dolgelly slates above and the Maentwrog flags helow.—Gardeau flags, a term introduced by the New York geologists for a division of the Portage group of the Upper Devonian lying above the Cashaqua shales and

flag-dues (flag'duz), n. pl. Naut., a charge or

tax made against a vessel in some harbors for displaying flags: an excuse for extorting a fee additional to the regular harbor-dues.

Flagellar agglutinin. See *agglutinin. flagellation, n. 2. In biol., the formation or development of flagella.

development of nagena.

flagellum, n. 5. In sporozoans, a vibratile male gamete in *Halteridium*, a blood-parasite found in birds.

flageolet, n. 2. In organ-building, a stop,

flageolet, n. 2. In organ-onuaug, a usually of 2-feet tone, giving high fluty tones. A flag-lily (flag'lil"i), n. Iris versicolor.

lag-list (flag nsu), n. flag officers of a navy.

In the British navy, the It flag-pay (flag'pa), n. pay of a flag-officer while flying his flag or commanding a fleet or squadron.

flag-rank (flag rangk), n. In the navy, the rank of officers above the grade of captain, including commodores and the various grades of admirals.

flag-reed (flag'red), n. In Australia, the common reed, Trichoon Phraymites. See reed1, with ent.

flag-wire (flag'wir), n. A rod pivoted at the ends so as to be free to rotate about its own axis and to serve as a hinge for any body supported by it; hence, in machinery, a part or member thus mounted and used to convert reciprocating into rotatory motion.

flail-joint (flai'joint), n. A hinge-joint with abnormal mobility in opposite directions. flair, n. 3. Seent; the critical sense in art and literature. [Rare.]

No better proof could be given of Vasari's genuine flair and intuition as a critic of art than this passage.

C. Phillips, in Portfolio, N. S., XXXVII. 95.

flakage (fla'kāj), n. [flake + -age.] The flakes, ehips, or splinters which fall during the process of fashioning (flint-) arrow-heads and other implements by flaking (which see). Amer. Anthropologist, Jan.-March, 1902, p. 120.

flake!, n.— Icy flake, the peculiar white cracks or fractures, usually along the cleavage-planes, produced in the diamond during the cutting process when the necessary care to prevent overheating has not been taken. The dullness is greater or less according to the amount of the fracture.

which has two horizontal blue stripes upon a white ground. These colors are considered sacred. The prayer scarf, tallith (which see), has the same colors. In the center of the flag is the cabalistic Magen-David, 'David's shield, which consists of two intertwined triangles, support the content of the flag is the cabalistic Magen-David, 'David's shield, which consists of two intertwined triangles, support to the same as flake2, 1. In the flake-knife (flāk'nīt'), n. In archæol., a chip or flake of flint or of some other brittle stone

used as a knife.
flaker, n. 2. An implement of bone, antler, or similar material, used for shaping implements from brittle stones like flint, jasper, and chert. The stone was first roughly shaped with a small hammer and then placed on a pad in the hand. By means of the flaker small chips were broken off. flaking, n. 2. The occurrence of streaks or

spots of white, or lighter color, in organisms

spots of white, or lighter color, in organisms that are not usually white. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, I. 47. flaking-rolls (flā'king-rolls), n. pl. In milling, a roller-mill adapted to making flaked eereals or prepared breakfast foods in which the grains of wheat, oats, etc., are in the form of thin flakes: a flaking roller-mill

thin flakes; a flaking roller-mill.

flambage (flon-bäzh'), n. [F., < flambe, flame.]

A cauterizing, sterilizing, or singeing process in which the thing to be operated upon is passed rapidly through a flame or over red-hot plates.

flame, n.— Ciliary flame, in *Platyhelmintha*, a bundle of vibratile cilia, situated, typically, in the interior of a cell (the flame-cell) terminating one of the capillary branches of the water-vascular or exerctory system.

flame, v. t. 5. To hold in or pass through a

flame, as an instrument, in order to sterilize it.

flame-arc (flām'āre), n. See electric *arc. flame-band (flām'band), n. In spectroscopy, a bright band in the spectrum, due to the radiation from a flame.

flame-box (flam'boks), n. A fire-box which is intended to serve as a combustion-chamber, as in a deep fire-box on a locomotive-boiler.

flame-carbon (flam'kär"bon), n. See electric

flame-carpet (flām'kär"pet), n. See *carpet, 4. flame-flue (flām'flö), n. The flue which leads flame-flue (flam'flö), n. The flue which leads directly away from the fire-box of a flue-boiler, and is supposed to be filled with flame: as distinguished from the smoke-flue which returns the gases to the front end of the boiler,

after combustion has been completed. flame-gage (flām'gāj), n. A device for measuring the height of standard flames used in photomefry. It consists of a translucent screen, with a vertical scale, upon which an enlarged image of the tip of the flame is thrown by means of a lcns of short focus. flamenco (flä-meu'kō), n. [Sp. namenco, fla-flannel-plant (flan'el-plant), n. Same as usingo. The fish is so named in allusion to its *flannel-teaf. red color.] snapper. Lutianus guttatus, a common food-fish

of the Panama region. flame-opal (flām'o"pal), n. An opal in which the colors are distributed more or less regularly in bands or streaks.

fame-plate (flam'plat), n. A plate, such as the crown-sheet, which, in a fire-box or furnace, is exposed to the flame or burning gases from the fire.

flame-reaction (flam'rē-ak"shon), n. Same as flame-test (which see, under *test¹).

flame-shoulder (flam'shōl"der), n. A British collectors' name for a European noctuid moth, Agrotis plecta, a small dark species with a flame-colored stripe on the shoulder of each fore-wing.

flame-test (flām'test), n. See *test1.
flame-tight (flām'tīt), a. Proof against the passage or escape of flame, as the safety-lamp used by miners.

flanch (flanch), v. Same as flange.

flanch-chuck (flanch'chuk), n. A chuck having the shape of a flange or face-plate, with points or teeth for carrying the work instead of slots to which the work is bolted. called flange-chuck.

flanch-mill (flanch'mil), n. A small hand-mill used principally for grinding coffee. As ordinarily made the grinders are of iron and can be set to grind to the desired size.

flange, n.—Blind flange. Same as blank flange. In England, also called a no-thoroughfare.

flange-chuck (flanj'chuk), n. Same as *flanch-

flange-coupling (flanj'kup "ling), n. See coupling

flange-iron (flanj'ī/ern), n. Any iron bar or beam having a projecting rib or flange, as an angle-iron, T-iron, etc.

lange-pulley (flanj'pul"i), n. A pulley having a flange around one or both edges. Such flanges are usually to keep the belt from slipflange-pulley (flanj'púl"i), n.

flanger (flan'jèr), n. 1. A flanging-machine.

—2. Same as snow-flange.—3. In mech. and ship-building: (a) A mechanic skilled in flanging metal plates. Also called flange-turner. (b) Same as flanging-machine.

fiange-steel (flanj' stēl), n. Steel having so low a percentage of carbon or other hardening constituents as to be sufficiently ductile to be bent at right angles in the process of flanging (see flange, v. t. and flanging-machine), without cracking or local overstrain.

flange-tile (flanj'til), n. A tile having a flange along one or more edges.

flange-turner (flanj'ter "ner), n. Same as

flanging-clamp (flan' jing-klamp), n. In forg ing, a large and massive beam-clamp for holding large work while it is being hammered to form a flange on its edge. It consists of two horizontal beams. The upper one is adjustable by means of screws; the lower one is rigid and is designed to hold formers over which the hot metal is bent to make the flange.

flanging-hammer (flan' jing-ham "er), n. 1. A hand-hammer used for turning a flange on the end of copper-pipe, etc.—2. A machine for turning up the edges or forming flanges on the edge of metal plates for boilers, pipes, tanks, etc.

flank, n.—Flank en potence (milit.), a flank which is either advanced or refused and perpendicular to the rest of the line.

operation of electric advertising-signs.

flashing¹, n. 4. In elect., on commutators of direct-current dynamo-electric machines, the

flanky (flang'ki), a. $[flank + -y^1]$ In leathermanuf., loose and coarse: as, a flanky skin. Flemming, Practical Tanning, p. 116.

flannel, n.—Weish flannel, flannel made from the flash-lamp (flash'lamp), n. In photog., a lamp wool of Welsh sheep.

The flash-lamp (flash'lamp), n. In photog., a lamp for producing a flash-light. Powdered mag-

lannel-flower, n. 3. An Australian plant, Actinotus Helianthi, of the parsley family. flannel-flower, n. It bears white flowers in simple umbels sur- flash-spectrum (flash'spek "trum), n. The rounded by a many-leaved involucre, which is longer than the flowers and looks as if it were cut out of white flannel.

flannel-leaf (flan'el-lef), n. The mullen, Ver-

flannellet, n. 2. A cotten fabric weven and finished in imitation of wool flannel.

finnel-moth (flau'el-môth). n. Any moth of the family Megalopygidæ. Especially the crinkled flannel-moth, Lagoa crispata, whitish in color, with its wings furnished with long curly hairs, resembling flannel. Its larvæ feed on apple, oak, elm, and raspberry.

 \star flannel-teaf.

The Mexican name of a species of flap, n. 10. In mycol., same as *flab.-11. In

flapmingo (flap'ming-gō), n. [An alteration of flamingo. Compare *flamenco.] One of the file-fishes, Monaeanthus ciliatus, found in the West Indies and northward to Florida.

flapper, n. 6. pl. Hinged channeled irons attached to the top of the low portion of the door of a landau. When up, they support the door of a landau. When up, they support the door-glass frame: when the glass is lowered, they fall flat upon the door-bar .- 7. In crnstaceans, the tail, or the telson together with the appendages of the last abdominal segment. flap-rein (flap'ran), n. A strap extending from the bridle-bit to the flap of a saddle for training a horse to hold his head in a desired po-

flare-spot (flar'spot), n. In photog., same as ghost, 8.

Thus obtained a flatter field and freedom from "flare-spot" [in portrait objective]. Encyc. Brit., XXXI. 693.

flare-up, n. 3. Nant., a distinguishing light exhibited as a signal by a pilot vessel, or a signal flare to a vessel which is overtaking another vessel, used as a warning to the ship coming up from astern. flaser (flä zer), n. [G. dial. fluser, dial. form

of flader, a streak, vein.] In German mining language, a streak or vein.

The word has been transferred to English use in connection with 'structure,' as flaser structure, a structure in dynamically metamorphosed granifoid rocks which consists of rounded and uncrushed areas in the midst of finegrained and drawn-out materials, thus initating flow-lines.

Kemp, Handbook of Rocks, p. 187.

flaser-gabbro (flä'zer-gab#rō), n. Dynamically metamorphosed gabbro which has the flaser structure.

flashi, v. I. intrans.—To flash back, to strike back: said of a flame of the Bunsen type in which, owing to undue admixture of air, ignition at the base of the burner occurs by the transmission of flame through the tube.— To flash over, in elect, to pass, as a spark, from one commutator har to another.

II. trans. 7. In photog., to cover with an

exceedingly thin layer, as of metal in a plating-bath.

The so-formed negative is sprung from the wax, cleaned and polished, and flashed over with a very thin layer of nickel in a nickel bath.

Nature, Jan. 29, 1903, p. 301.

flash¹, n. 9. In elect., an accidental electric arc of short duration and great intensity. flash-board (flash'bord), n. Same as flashingboard.

flash-boiler (flash'boi "ler), n. A type of boiler, first perfected for steam motor-cars, in which the steam is instantly made by bringing small the steam is instantly made by bringing small masses of hot water upon very hot surfaces. Such surfaces are usually tubes, heated by the fire on the outside, while the hot water is forced through them. A boiler of small bulk will make a large amount of steam per hour, the steam being usually superheated, which favors economy. The boiler has no store of reserve energy, but for this reason is safer. Semiftash boilers are those in which there is some water, at all times, in process of heating before flashing into steam. In the true flash-boiler there should be no liquid water except the last discharge of the feed-pump undergoing instant transformation into steam. formation into steam.

flasher1, n. 6. A device for automatically lighting and extinguishing incandescent lamps or groups of lamps: used especially in the

carrying of a spark from one brush to another, when it appears as a flash encircling the commutator-surface

nesinm or aluminium is blown into an alcohol or gas flame.

spectrum of bright lines or luminous arcs seen



Flash-spectrum. Eclipse of 1900. (Evershed.)

or photographed during a total eclipse of the sun at the beginning and end of the total obscuration. It lasts for a few seconds only.

seuration. It iasis for a few seconds only.

phoneties, a flapping motion of the tongue or uvula or the sound produced by it, as in vocalizing the letters l or r.

The most distinct glide-consonants are the flaps, of which the Norwegian 'thick' l is an example.

II. Succet, Eng. Sounds, p. 12.

flapmingo (flap'ming-gō), n. [An alteration of flamingo. Compare *flamenco.] One of the file-fishes. Monaeanthus ciliatus, found in the

intervening space is a very perfect vacuum. The glass surfaces of the vacuous space are often silvered, the conductivity for heat being thus reduced to a mini-mum and liquid air can be preserved in the flask for hours or rs or while even for days, while it is kept cold by its own evaporation.— Er-



own evaporation— in lenmeyer's flask, a conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when the conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom, used especially when conical glass vessel with a flat bottom.

conical glass vessel with a flat bottom, used estiquids are to be decanted from precipitates.

antitoxin flask.

See *antitoxin.—
Gilles's flask, a graduated flask used in volumetric analysis.

(See the cut.) The extra 100 cubic centimeters is used in meters is used in the cut. meters is used in standardizing the solution.—Liter flask, in chem., a glass flask, usually furnished with a

glass flask, in chem., a glass flask, usually furnished with a ground-glass stopper, having a mark on the neck indicating the capacity up to that level of a liter at a particular temperature, commonly 15° C. It is much used in connection with volumetric analysis, for preparing solutions of determinate strength.—Miquel flask, a culture-flask used in the bacteriological study of water.—Soyka's bacteria flask, a culture-flask with parallel sides, one of which may be ruled in squares for counting.

flask-shell (flask'shell), n. A mollusk with a flask-shaped shell; in Great Britain, a boring mollusk, Gastrochæna modiolina.

flat¹, I. a. 11. In cotton-shipping, not compressed; not hard packed. Cotton which is to he shipped any great distance, by rail or ship, is usually compressed in very powerful presses to reduce the bulk as much as possible. Cotton which has not been through such a press is said to be flat.

12. In printing, said of the proof or print of a plate or expressive in realist which has preseived.

plate or engraving in relief which has received the flat impression of the press without the overlay used to develop light, shade, and perspective.—13. In golf, said of the lie of a club, when the head is at a very obtuse angle to the shaft .- 14. Not distinguished by characteristic termination: as, a flat adjective (a noun that occupies an adjectival position before another noun and becomes an adjective without inflection or modification of form: as, a stone wall; garden flowers); a flat adverb (see *adverb).

II. n., 4. (g) Something that is flat and shallow, as a basket or hamper for carrying produce to market, a shallow two-wheeled hand-cart, etc.

8. In ship-building: (b) A platform, deek, or

floor which is of restricted area and does not form an important part of the vessel's struc-

It is evident, moreover, that the greatest loss of longitudinal stability must result from the flooding of compartments near the bow and stern, unless the buoyancy of the water-line area at the tops of these compartments is preserved by watertight flats or platforms.

White, Manual of Naval Arch., p. 120.

14. A narrow bar of iron or wood, covered with card-clothing, surmounting the main cylinder of a cotton-carding machine.—15. In hort., a shallow box, usually 2 to 4 inches deep, used by gardeners to start seeds and cuttings, and also to serve as a tray on which to carry and also to serve as a tray on which to carry pots.—Alkali flat. See *alkali.—Heel of the flat, that part of a top flat of a cotton-carding machine which is nearest to the main cylinder.—Mahogany flat, the bedbug, Cimex lectularius. [Local, southern U. S.]—Stationary flat, in cotton-manu(., a small piece of wood faced with flannel, which rests on the top drafting-rollers of a drawing-frame, to clear the rollers of loose cotton and impurities. and impurities.

flat¹, r. t. 6. In leather-manuf., to shave or smooth on the flesh side. C. T. Davis, Manuf. of Leather, p. 403.

flat1, adv.-Flat aback.-See *aback,

flatfoot (flatfût), n. 1. In pathol., a condition in which the arch of the foot is broken down, the sole touching the ground throughout its entire area .- 2. A condition in heavy draft-horses (usually of the fore feet), in which the heel is low, the ground-surface broad, the sole flat or slightly convex, and the wall more acutely slanted than is normal.

flat-hammer (flat'ham'er), n. The hammer first used by the gold-beater in flattening out a pile of quartiers or pieces of gold ribbon.

flathead, n. 4. Notothenia coriiceps. a fish of flavovirescent (fla vo vi-res ent), a. [L. the family Trachinidæ found in Australian starus, yellow, + virescens, virescent.] Vireswaters. Also called Maori-chief.

flatman (flat'man), n. One who navigated a flatboat: used especially in early river navigation in the Ohio and Mississippi valleys.

Flatness of field, in photoy, the property in an objective of bringing the rays to a focus on a plane surface, as that of the sensitive plate. While this is theoretically impossible, many lenses are now made which approximate flatness of field very closely. See *curvature of field.

flat-square (flat'skwär), a. Having reetangular cross-sections: said of a file.

flattening (flat'ning), n. In regetable teratol., the abnormal assumption by normally tol., the abnormal assumption by normally cylindrical stems, branches, or other organs of a compressed or flattened condition. It occurs in Coccolobis, Bauhinia, Ruscus, Phyllanthus, etc., in the spadies of araceous plants, and the petioles of aquatic plants. This phenomenon is to be distinguished from fasciation (which see). Masters.

flatter-dock (flat'ér-dok), n. 1. Same as candock, 2.—2. Same as *batter-dock, 2.

flattie (flat'i), n. [flat' + dim.-ie. Cf. sharpie, sharpy.] A flat-bottomed boat.

Flat-ware presser, a workman in a pottery who makes

Flat-ware presser, a workman in a pottery who makes flat-ware, such as plates, sancers, etc., in a mold or on the jugger. See *pgger*1, 2 (d).

flat-waste (flat'wast), n. In cotton-manuf., the impurities and short fibers of eotton which gather on the flats or upper carding-surfaces of a carding-machine; also, the loose fibers which gather on the clearing-flats that rest on the top drawing-rollers of a drawing-frame.

flatwoods (flat'wudz), n. pl. 1. A local name in Ohioforvalleys formerly occupied by rivers but now flats and covered with woods. - 2. In Alabama, especially in the Coosa valley, a type of land consisting of an impervious clay derived from the Cambrian shales, supporting a dense growth of dwarf oaks, pines, etc.

flat-works (flat werks), n. An ore deposit lying parallel with the inclosing rocks but of later origin than the walls. Geikie, Text-book

of Geol., p. 819.

flantino, n. 4. In organ-building, a two-foot stop giving fluty tones.

flautone, n. 2. In organ-building, a stop pitched an octave lower than the ordinary flute-stop. flavazol (flav-az'ol), n. [L. flavus, yellow,

flavazol (flav-az'ōl), n. [L. flavus, yellow, + az(o) +-ol.] A mordant coal-tar color, similar to, if not identical with, gambine *yellow.
flavenol (flav'en-ōl), n. [L. flavus, yellow, + -en+-ol.] A colorless crystalline compound, C16H13ON. Also called 2',4'-hydroxyphenylmethylqninoline. It melts at 238° C.
flavin, n. 2. A bright yellow crystalline compound, C13H12ON2. Also called 2.2'-diaminobenzophenone. It melts at 135° C.—Diamond flavin, a mordant coal-tar color of the monozo type, derived from benzidine and salicylic acid. It dyes chromiummordanted wool orange-yellow in an acid bath.
flavinduline (fla-vin'dū-lin). n. [As flav(in)

flavinduline (fla-vin'dū-lin), n. [As flav(in) + induline: A basic coal-tar color of the azonium-chlorid type. It dyes tannin-mordanted A basic coal-tar color of the azocotton yellow.

flavocastaneous (flä"vo-kas-tā'nō-us), a. [L. flavus, yellow, + castanea, ehestnut, + -ous.]
Of a yellowish-chestnut eolor. Annals and Mag. Nat. Hist., June, 1903, p. 615.

flavocobaltic (fla-vo-ko'bâl-tik), a. [L. flavus,

flavohyaline (flā-vō-hī'a-lin), a. [L. flavus, vellow. + Gr. ναλος, glass.] Yellowish and yellow, + Gr. valoc, glass.] Yellowish and transparent, as the wings of certain insects. Annals and Mag. Nat. Hist., April, 1904, p. 290.

flavol (flav'ōl), n. [L. flavus, yellow, +-ol.] A bright yellow erystalline compound, C₁₄H₁₀ Also called dihydroxyanthracene.

flavoline (flav o-lin), n. [flavol + -inc².] A cuta Epilinum.

erystalline compound, C₁₆H₁₃N, prepared synthetically from quinoline. It melts at 65° C. family, especially of the genus Linum.

yellow, $+ E. phen(yl) + -in^2$.] A direct coaltar eolor.

flavotestaceous (flavo-tes-ta'shius), a. [L. flavotestaceous, of a shell.] Dusky yellow. Annals and Mag. Nat. Hist., June, 1903, p. 611.

flarus, yellow, + rirescens, virescent.] cent with a yellow tinge. [Rare.]

f flavovirescent (flå "vö-vi-res'ent), a. [L. flavus, yellow, + virescens, virescent.] Virescent with a yellow tinge. [Rare.]

flax, n.—Blue flax. See Lewis's wild *flax.—Cathartic flax. Same as purging-flax.—Cotton flax, flax which has been prepared to resemble cotton, usually by chemical means, as with hydroxid and carbonate of the countries.—Dutch flax, the false flax, a fine quality of flax produced in Belgium, whence it is exported to other countries.—Dutch flax, the false flax, Camelina sativa.—Dwarf flax. Same as purging-flax.—East Indian flax, Reinwardtia trigyna, a small shrub of northern India, closely related to and resembling flax.—Evergreen species native to Crete.—False flax. (a) Camelina sativa, also C. microcarpa, so called from its resemblance to flax and because it often grows in fields of flax as a weed. (b) The field-cress or mithridate mustard, Lepidium campestre.—Lewis's wild flax, Linum Lewisii, a large blue-flowered species very abundant on the western prairies and plains of North America, extending to Alaska: long confounded with the similar Old World species. L. perenne. Its stenns yield a strong, fine fiber, utilized by the aborigines for cordage, etc., and the plant has been recommended for experiment as a source of commercial fiber. In California it is called blue flax, other local species having flowers of some different color.—Mountain flax
See *mountain-flax.—Native flax (a) In Australia, Linum merginale, a congener of the common flax. Though a smaller plant it yields fiber of excellent quality which is used by the aborigines for making flashing-nets and cordage, (b) In New Zealand, L. monogynum; also the New Zealand flax, Phormium tenax. See Phormium.—Perennial flax, Linum perenne, the large blue-flowered wild species of Europe and Asia, a congener of the common small yellow-flowered species of the pease and cordage, except seed of the plant has been recommon small yellow-flowered species of the eastern ican L. Lewisii, which is still included in it by some botanists, inhavlughe

hotanists, inhaving heterogonous flowers.—Rocky Mountain flax. Same as Leviis's wild *fax. — Wild flax. (a) Linum Virunianum,
the common small yellow-flowered species of the eastern
United States. Also called slender yellow flax. (b)
Same as Lewis's wild *fax. (c) Same as tond-flax. (d)
Same as false *fax (a). (e) The garden tickseed or ealliopsis, Coreopsis tinctoria.—Yellow flax, any yellowflowered species of Linuar. usually with a further qualifying adjective: as, the slender yellow flax, L. Virginianum;
the stiff yellow flax, L. medium; the Florida yellow flax, L.
L. Floridanum of the southern United States; the ridged
yellow flax, L. striatum; the grooved yellow flax, L.
sulcatum. L. rigidum, the large-flowered yellow flax, is
a species of the western United States.

[Bax_blade (flaks/blsd) n. In New Zealand.

flax-blade (flaks'blåd), n. In New Zealand, a leaf of the New Zealand flax. See Phormium. See *dodder1. flax-dodder (flaks'dod#er), n. flax-drop (tlaks' drop), n. The flax-dodder, Cuscuta Epilinum.

flax-lily (flaks'lil"i), n. 1. Same as flax-bush. -2. A variety of Dianella lævis, an Australian fiber-plant belonging to the lily family. It yields a strong, silky fiber and was formerly much used by the aborigines for making baskets.—3. In Tasmania, Dianella Tasmanica, Called also broad-leaved flax-lily.

lavocobaltic (flā-vō-kō'bâl-tik), a. [L. navus, yellow, + E. cobalt + -ic.] Noting a class of amino-nitro cobaltic salts. The chlorid has the formula Co₂Cl₂(NO₂)₄(NH₃)₁₀.

flavohyaline (flā-vō-hī'a-lin), a. [L. flavus, flax-star (flaks'rip'l), n. Same as ripple!.

flavohyaline (flā-vō-hī'a-lin), a. [L. flavus, Linum-stellatum, of the primrose family, a nation of the Mediterranean region, bearing greenish star-shaped flowers.

flax-tail (flaks'tal), n. The eommon eattail or reed-maee, Typha lalifolia.

flax-vine (tlaks-viu), n. The flax-dodder, Cus-

thetically from quinoline. It melts at 65° C.

flavone (flav'on), n. [L. flavus, yellow, +-onc.]
A group of naturally occurring yellow coloring-matters, some members of which are used as dyes. The parent substance is called phenylpheno-y-pyrone, C15H10O2.
flavopallid (flā-vō-pal'id), a. [L. flavus, yellow, + pallidus, pale.] Pale with a yellow tinge. [Rare.]
flavophenin (flā-vō-fe'nin), n. [L. flavus, the flavophenin (flā-vō-fe'nin), n. [L. flavus, the flavophenin (flavophenin)]
flavophenin (flavophenin)
fl

Idea-beetle

latitudes and at high altitudes in Europe, Asia, and North America.—Canada or Canadian-fleabane, the horse-weed, Leptilon Canadense.—Daisy-fleabane, any plant of the genus Erigeron, but more especially E. ramosus, E. annuas, and E. Philadelphicus. The western deisy-fleabane is E. Bellidiastrum, a small species, cinerconspubsecent throughout, with purplish flowers, found out he plains of Nebraska, Kansas, and Texas.—Dwarffleabane, the low or purple horseweed, Leptilon divarication, of the Missispipi valley and Texas, a small hairy plant, rarely a foot high, with larger heads than the Canada fleabane and purplish rays.—Early fleabane, Erigeron vermos, a low plant with spatulate root-leaves and rather large white- or pink-rayed heads, found in moist soil from Virginia to Florida and Louisiana. It flowers in early spring.—Marsh-fleabane, any of the American species of Pluchea. P. camphorate is the salt-marsh fleabane. P. fotida, P. petiolata, and several other species grow in inland swamps, especially in Florida. See Pluchea.—Philadelphia fleabane, Erigeron Philadelphias, the most widely distributed and one of the most beautiful of American fleabanes, having soft pubescent stems and

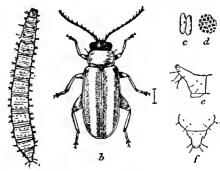


Philadelphia Fleabane (Eriseron Philadelphicus) Two fifths natural size. (From Britton and Brown's trated Flora of the Northern States and Canada.)

leaves and large terminal heads, with rose-purple rays. Also called sweet scabious and skevish.—Running fleabane, Erigeron flagelluris, a small delicate plant running by decumbent rooting stems, the small oblong leaves mostly near the ground, and the large single heads with white or pink rays borne on long slender peduncles. It is confined chiefly to the Great Plains from South Dakota to New Mexico.—Salt-marsh fleabane, See marsh-fleabane.—Spire fleabane, the salt-marsh fleabane.—Spire fleabane, the salt-marsh fleabane.—Spire fleabane, Erigeron divergens, a diffusely branching species, ranging over the entire western United States from Montana to Washington, and south to Texas and Mexico. It is a hairy plant with large heads, the narrow violet or purple rays separated considerably from one another.—Three-nerved fleabane, Erigeron subtrinervis of the Plains and Great Basin, having lanceolate three-nerved leaves and large solitary terminal heads with very numerous, long, and showy blue or pink rays.

fleabane-mullet (fle'ban-mul"et), n. eommon European fleabane, Pulicaria dyscuterica.

dea-beetle, n.—Banded flea-beetle, Systena tæniata, a species which is found commonly on beans and peas.—Convex flea-beetle, Psylliodes convexior, a beetle which occurs on the sugar-beet and on rinharh and other garden vegetables.—Cneumber flea-beetle. Same as potato ★flea-beetle.—Egg-plant flea-beetle, Epitrix fuscula, a beetle which occurs on the egg-plant, cabbage, potato, and other plants.—Elm flea-beetle, the imported elm leaf-beetle. See *klaaf-beetle.—Elongate flea-beetle, Systena elongata, a species which lives on weeds, but sometimes cats the leaves of the cotton-plant.—Horseradish flea-beetle, Phyllotreta armoraciæ, which feeds on the leaves of cruciferons weeds and vegetables.—Pale—



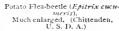
Pale-striped Flea-beetle (Systena blanda).

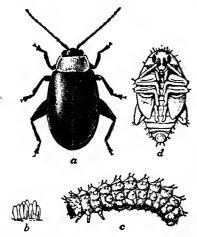
a, larva; b, beetle; ϵ , eggs; d, sculpture of egg; ϵ , anal segment, from side; f, same from above. a-d, six times natural size; ϵ , f, much enlarged. (Chittenden, U. S. D. A.)

etriped flea-beetle, an American chrysomelid beetle, Systena blanda, which injures the foliage of tomatoes and

potatoes.—Potato flea-beetle, a small American chrysomelid beetle, Epitrix cucumeris, which eats small round holes in po-tato-leaves. Also called cucumber flea-beetle. See flea-beetle. — Red-head-

then-beetle.—Red-headed flea-beetle. Systema frontalis, a species noted for the damage which it inflicts upon sugar-beets.—Red - legged fleabeetle, Crepuddera runipes, a species which injures the buds and therefoliage of fruit-trees.—Spinach flea-beetle, an American chrysomelid beetle, Disonpeha xanthomelerna, black in color, with a yellowish prothorax and ahdomen, and of wide distribution. It feeds on spinach and the sugar-beet.—

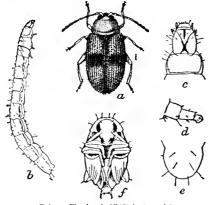




Spinach Flea-beetle (Disonycha xanthomelana).

beetle; b, egg-mass showing mode of escape of larva at right; all-grown larva; d, pupa, a, c, and d, five times natural size; nore enlarged. (Chittenden, U. S. D. A.)

Strawberry flea-beetle, Haltica ignita, a widely distributed metallic-colored species which lives both as larva and as adult on the leaves of the strawberry and certain other plants, more frequently perhaps on the evening primrose.—Sweet-potato flea-beetle, Chætocnema confinti, a bronze-colored species which frequently destroys the leaves of young sweet-potato plants.—Tobaccoflea-beetle, Epitrix parvula, a reddish-brown species



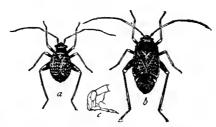
Tobacco Flea-beetle (Epitrix parvula). a, beetle; b, larva; c, d, c, larval details; f, pupa. All much enlarged. (Chittenden, U. S. D. A.)

which punctures the leaves of young tobacco-plants,— Vielaceous flea-beetle, Crepidodera helvines, a copperty, violet, or greenish-black species, often injurions to the foliage of the cherry.— Wavy-striped flea-beetle, Phyllotreta vittata, a species black in color, with a yellow wavy stripe down each wing-cover. Its larve mine the leaves of crustifency waters. wavy stripe down each wing-cover. Its larvæ minc the leaves of cruciferons vegeta-bles, on which the adult bee-tles feed.—Western flea-beetle, Phyllotreta pusitla, a dark polished olive-green spe-cies which damages cabbage, turnips, and sugar-beets in the western United States.

flea-bng (fle'bng), n. Any small capsid bug of the genus Halticus or its near allics.—Potato flea-bug, an American capsid bug, Halticus Uhleri, which feeds on the leaves of the potato and other garden crops.



Western Flea-beetle (Phyl-lotreta pusilla). (Riley, Much enlarged, U.S. D. A.)



Potato Flea-bug (Halticus Uhleri). a, brachypterous female; b, full-winged female; c, head of male outline, a, b, much enlarged; c, more enlarged. (Chittenden, in outline, U. S. D. A.)

flea-dock (fle'dok), n. Same as *batter-dock, I. flea-mint (fle mint), n. The pennyroyal, Mentha Pulegium.

flea-weevil (flē'wē"vil), n. A beetle of the family Curculionidæ.—Apple-leaf flea-weevil, an American curculionid beetle, Orchestes pallicornis. flebotomy, n. A simplified spelling of phle-

flèche, n. 4. In a chart, a barb attached to an arrow to indicate the force of the wind which blows in the direction of the arrow. Ordinarily six flèches are used to represent six different grades of wind from calm to hurricane; but in British charts sometimes twelve are used .-5. One of the points on a backgammon-board. Flechsig's myelination method. See *myelination.
—Flechsig treatment. See *treatment.

flection, n. 6. In geom., same as flexure, 1.

Flectional adverb. See *adverb.

fleece, n. 6. In anat., white fibers, resembling wool, encircling the corpus dentatum in the wool, encircling the corpus dentatum in the cerebellum. Also called *fleece of Stilling*.—Fallen fleece of a diseased animal.

fleece. the fleece of a diseased animal.

fleece. the fleece of a diseased animal.

fleece. the fleece of a diseased animal.

fleece, the fleece of a diseased animal.

fleet¹, v. t.— To fleet the messenger (naut.), to shift the eyes of the messenger, an endless rope nsed for heaving in a cable by a capstan. [Obsolete.]

Flect in being, a fleet which, though it may be so inferior to the fleet of the enemy as to be unable to engage in open fight with him, is yet unconquered and able to hamper his offensive movements.

his offensive movements.

A fleet in being, therefore, is one the existence and maintenance of which, although inferior, on or near the scene of operations, is a perpetual menace to the various more or less exposed interests of the enemy, who cannot teil when a blow may fall, and who is therefore compelled to restrict his operations, otherwise possible, until that teet can be destroyed or nentralized. It corresponds very closely to "a position on the flank and rear" of an enemy, where the presence of a smaller force, as every military student knows, harasses, and may even paralyze offensive movements. When such a force is extremely mobile, as a fleet of armoured cruisers may be, its power of mischief is very great; potentially, it is forever on the flank and rear, threatening the lines of communications. It is indeed as a threst to communications that the fleet in being is chiefly formidable.

A. T. Mahan, War with Spain, p. 76.

The fleet, the navy, especially the Royal Navy: as, admiral of the fleet.

fleet⁵ (flet), a. Skimmed; skim: applied to skim-milk or to cheese made from it: as, fleet

milk, fleet cheese. [Eng.]
flegm, n. A simplified spelling of phlegm.
Fleischman's hygroma. See *hygroma.
Fleitmann's test. See *test1.
Flem. An abbreviation of Flemish.

Flemingia (fle-min'ji-ä), n. [NL. (Roxburgh, 1803), named in honor of John Fleming (died in 1815), a British physician who wrote on Indian botany.] A genus of dicotyledonous plants of the family Acanthaceæ. See Thunbergia.

flemingin (fle-min'jin), n. [Flemingia + $-in^2$.] An orange-red crystalline powder, $C_{12}H_{12}O_3$, obtained from Moghania congesta (Flemingia eongesta of Roxburgh), and used as a dye. Its commercial name is waras (wurus) or wars.

Flemish accounts (naut.), abbreviated or deficient records.—Flemish architecture, fake. See \star architecture, \star jake¹.—Flemish loop. Same as Flemish eye (which see, under eye¹).

flemish2 (flem'ish), v. i. [Origin uncertain.] To make a quivering movement of the tail: said of a dog; to feather.

flesh, n.—To go the way of all flesh, to meet the fate of all living beings; to die. flesh, v. II. intrans. To become more fleshy,

as one who has been ill and is convalescent: used with un.

fleshen (flesh'n), a. [flesh, $n_{\cdot \cdot}$, + -en².] Of flesh; composed of flesh: as, fleshen hearts.

flesher, n. 5. Same as *flesh-split: commonly applied to sheepskin.

When unsplit it is called a roan; when split in two, the upper half is called a skiver, the under or fleshy half a flesher.

W. Matthews, Modern Bookbinding, p. 37.

Spring flesher, a long, thin, pliable knife with a handle at each end: in distinction from the ordinary stiff

flesh-glove (flesh'gluv), n. A glove of somewhat rough material specially made for the same purpose as a flesh-brush.

fleshing (flesh'ing), n. 1. In leather-manuf., the process of shaving or scraping the loose flesh from hides or skins. Sadtler, Handbook of Indust. Chem., p. 325.—2. The distribution or the condition of the flesh of an animal.

This bull presents a well-nigh invulnerable body of beef; the holes the critics pick in it are few. He has ample scale and width, and the evenness of his fleshing is quite ont of the usual.

13th Bien. Rep. Kan. State Board Agr., 1902-04, p. 228.

Green fleshing, the process of removing the flesh from a hide or skin while it is green, or before it has undergone any of the tanning processes. C. T. Davis, Mannf. of Leather, p. 379. fleshing-beam (flesh'ing-bem), n. A beam for working out the flesh side of a hide or skin.

fleshing-machine (flesh'ing-ma-shēn"), n. machine which fleshes hides or skins by means

of a roller fitted with knives. C. T. Davis, Manuf. of Leather, p. 148.

flesh-split (flesh'split), n. In split leather, that part of the hide or skin which is nearest the

flesh, as distinguished from the *grain-split. Also called flesher. C. T. Davis, Manuf. of Leather, p. 429.

Fletcherism (flech'er-izm), n. [Horace Fletcher (b. 1849).] The taking of food only when hungry, with extremely thorough mastication, continued until the bolus of food is entirely liquefied.

with a fleur-de-lis (as a criminal).

fleured (flerd), p. a. Decorated with conventional flowers.

fleuron, n. 2. In arch., a floral ornament; specifically, the large conventional flower usually placed in the center of the abacus of a Corinthian capital or classic ceiling-caisson; also, the floreated termination of a Gothic finial.

dew⁴ (flö), n. [Prob. from *flew², r., = *flue⁸, r., contained in verbal noun flewing, fluing.]
A layer or fold of cloth as it comes from the flew4 (flö), n.

A layer or fold of cloth as it comes from the loom. R. Marsden, Cotton Weaving, p. 480. flew⁵, n. See *flue⁸. flewing (flö'ing), n. [Prop. *fluing, prob. < flue (spelled also flew), waste downy matter, etc.: see flue³.] The process of examining cloth for blemishes in weaving by folding it upon the front of the loom as it is unrolled from the cloth-beam. R. Marsden, Cotton Weaving p. 479 Weaving, p. 479.

flex1 (fleks), n. [L. flexus, pp.: see flex1, v.]
A point of contrary flexure or a point of inflexion.

The ordinary singularities of a plane curve would thus be the node, the cusp, the link, and the flex.

Cayley, Collected Math. Papers, V. 521.

Flexibilia (flek-si-bil'i-ä), n. pl. [NL., neut. pl. of L. flexibilis, flexible.] An order of the Crinoidea in which the tegmen is composed of numerous small loosely joined movable pieces. All species are Paleozoic and are stemmed except Marsupites and Uintercrinus, from the Cretaceous formation, which are without colors. which are without columns.

flexibilitas cerea (flek-si-bil'i-tas sē'rē-ā). [NL., 'flexibility of wax.'] A form of musenlar rigidity in catalepsy in which one can bend the limbs of the patient with a little force, the member retaining the position in which it was last placed.

flexil, a. A simplified spelling of flexile.

flexile, a. 2. In bacteriol., applied to filamentous forms of bacteria which are twisted and curved, although retaining their rigidity.

flexing (flek'sing), n. A bending; in geol., a bending or crumpling of layers or strata.

flexuosity (flek-sū-os'i-ti), n. [flexuous + -ity.]
The quality of being flexuous or full of bends and curves.

The cerebrum exhibits a decidedly superior degree of fissural complexity with notable fixuosity of the gyres; particularly of the pre-frontal, parieto-occipital, and parieto-temporal areas. Amer. Anthropologist, Oct.-Dec., 1903, p. 617.

The contest between my fleshen and servile nature and the Law's spirituality of origin.

F. W. Farrar, St. Paul, 1L 235 (trans. of Rom. vii. 14).

or pertaining to flexure or the bending of an electic solid; producing or tending to produce elastic solid; producing or tending to produce flexure: as, a flexural stress.—Flexural couple. See *couple.—Flexural strength, the strength of an elastic solid as measured by its resistance to forces tending to hend it.

The transverse or flexural strength of the slates was aelected for experiment because of the ease and accuracy with which the tests can be made.

U. S. Geol. Surv., 1897-98, p. 258.

flexure, n. 4. In geol., the folding or bending flexure, n. 4. In geol., the folding or bending of struta under compression.—Basicranial flexure, a hend in the embryo at the upper end of the medulla oblongata.—Cerebral flexure, one of the bends or flexures in the embryonic brain.—Cervical flexure, a bend or flexure in the neural tube of the vertebrate embryo at the junction of the brain and the spinal cord.—Compound flexure, in geol., a flexure or fold which contains other smaller

tains other smaller flexures or crumplings subordinate to the ma-jor system.—Cranial flexure, the bending or flexure of the em-pryonic vertebrate or flexure of the embryonic vertebrate hrain around the anterior end of the notochord.—Curve of flexure, See *curve.—Elasticity of flexure, See *clasticity.—Mesencephalic flexure, a bend or flexure in the neural inhe of the vertehrate



tube of the vertehrate embryo at the level of the middrain, or mesencephalon. See cut.—Reversed flexure, in geol., an overturned fold.—Symmetrical flexure, in geol., a fold with equal dips on each side of its axis.—Unsymmetrical flexure, in geol., a fold in strata with steeper dips on one side of the axis than on the other.

flexure-fault (flek'sūr-fâlt), n. In geol., a fault situated within some portion of a fold and genetically connected with the development

genericany connected with the development of it. Flexure-faults usually occur on the steeper limb of an asymmetrical fold. Overthrust faults are one type of them. Dana, Manual of Geol, p. 109.

flexus (flek'sus), n. [L., a bending, a winding: see flexuous.] A bend or bending.—Hallux flexus, a deformity marked by flexion of one joint of the great toe with extension of the other. Also called hammer-toe.

flick1, v. II. intrans. 1. In cricket: (a) To move the wrist or forearm quickly at the moment of delivering the ball: said of the bowler. [Colloq.] (b) To rise quickly from the pitch; bump: said of the balt. Hutchinson, Cricket, p. 110.—2. To flutter; flit, as a bird. R. F. Burton.

flick¹, n. 2. In cricket, a quick turn of the bowler's wrist or forearm at the moment of delivering the ball.

flicker¹, n. 2. Specifically, in psychol., an unstable visual perception, occasioned by the intermittence or intensive fluctuation of stim-

Flicker method, the method of flicker photometry (which flint-brick (flint'brik), n. A hard brick made e, under *photometry).

The brightnesses of these colors were determined by Rood's flicker-method. Amer. Jour. Psychol., XIII. 139.

Flicker photometer. See *photometer.

flicker-tail (flik'er-tail), n. 1. The gopher. flint-flake (flint'flāk), n. In archæol., one of [Western U. S.]—2. An epithet popularly the fragments of flint from which, in proapplied to the State of North Dakota, in alluhistorie times, implements were made, or one sion to the gopher, which is very common in that State. Encyc. Brit., XXXI. 256.

flier, n. 8. One of the fresh-water sunfishes,

Centrarchus macropterus, found in the southern United States.—9. An apparatus attached to a printing-machine, usually a gang of parallel rods worked by a rocking shaft, which seizes each sheet as it is printed and conveys it to the delivery-table.—10. One of the two lower-most leaves of a tobacco-plant.

Flyers, the first two bottom leaves, which are overripe and very trashy.

Vearbook U. S. Dept. Agr., 1899, p. 435.

flight), n. 5. In archery: (c) The course of an and heated. See $flip^2$ and $flip \cdot dog$. arrow through the air. (d) The distance traflipper, n. 5. In a sawmill, a steam-operated versed by an arrow.—10. In mach.: (c) Λ device for flipping, upsetting, or throwing wing or scraper, pushed or pulled through the trough of a conveyer by a chain, to drag the load through it. (d) A flat bucket or vane on the periphery of a wheel-pump or on the chain which it drives. In practice this vane is made

to traverse a pipe or box which prevents the water from flowing back, and as such pumps are used for only very low lifts, a fair percentage of the water is carried up.

11. Same as flyboat.—12. In angling, the

set of spinning-baits attached by the trace to the reel-line in a spinning-tackle.—13. A primary, flight-feather, or remex: a term commonly used by pigeon-fanciers.—14. The distance a bird may or does fly; the height at which it flies: in these senses, largely figurative.—15. A group of three or more locks situated in such close proximity along a canal that the level of water between any two adja-eent locks of the series may economically be flitches: as, to flitch hogs; to flitch halibut. raised and lowered to produce a lift: in distinction from locks arranged in isolated pairs with considerable distance between the different pairs. A greater number of lifts, and hence a greater aggregate height of lift, can be accomplished by a given number of locks if arranged in a flight than it is the accomplished by a given number of locks if arranged in a flight than by a given number of locks if arranged in a flight than if the same number are arranged in isolated pairs. Flight of colors. See *color.—Flight of ideas, the mental state in which ideas follow one another in rapid succession, the patient being mable to keep his mind fixed on any one subject.—Nuptial flight, the flight of the queen bee during which she unites sexually with the males or drones. The queen bee leaves the hive soon after her escape from the broad-cell, and, meeting the males in the air, is fertilized, probably by a number of males, and returns to the hive with her spermatic receptacle filled with male cells, which may retain their vitality and their fertilizing power for the rest of her life. See normal *parthenogenesis.

flight! (flit), r. [flight!, n.] I. intrans. To take flight; fly: an English sporting use.

II. trans. To shoot (wildfowl) in their flight

to or from their feeding-grounds.

flight-conveyer (flit-kon-va"er), n. See ★con-

flight-muscle (flit'mus"1), n. One of the museles used in flight; a wing muscle.

flight-shooting, n. 2. in archery, distance-shooting with flight-arrows.

flimflam (flim'flam), r. t.; pret. and pp. flimflammed, ppr. flimflamming. [flimflam, n.] To cheat out of (money), as in making or receiving change or the like. [Slang.]
flimsy, n. 3. A manifold copy of a report or

despatch made on flimsy; reporters' 'copy'; a duplicate or a triplicate writing made on flimsy.

findosa, flindosy (flin-dô'zā, -zi), n. [Australian corruption of Flindersia.] The rasp-pod or erow's-ash, Flindersia australis. See Flindersia and rasp-pod.

fling, n. 6. A sudden or rapid throwing: whipping action; a sidewise motion with respect to the principal direction of motion: as, the fling of a connecting-rod.

flinkite (fling'kit), n. [Named for Prof. Gustav Flink, a Swedish mineralogist.] A basic manganese arseniate occurring in greenishbrown orthorhombic erystals: found in Sweden. For the determination then of the reflecting power, for example of a vermilion disc, it was only necessary to select from the series a gray disc which when combined with it in equal parts gave no perceptible flicker.

O. N. Rood, in Amer. Jour. Sci., Sept., 1893, p. 173.

Direction of flint-glass.—Flint age. See *age.—Flint corn. See *corn!.

> of pulverized flint; fire-brick. Stand. Dict. flint-core (flint'kor), n. Same as $core^1$, 2 (k). flint-dried (flint'drid), a. In leather-manuf., dried in the sun. Modern Amer. Tanning,

> historie times, implements were made, or one of the chips broken off in shaping implements. lint-flaker (flint 'flā "ker), n. Same as flint-flaker *flaker, 2.

> flint-knappery (flint'nap":r-i), n. In archæol., a place where flint was i napped or chipped. flint-paper (flint'pā "per), n. Paper coated with glue and finely crushed quartz or flint, used like sandpaper for polishing.

> flioma (fle-ō'mā), n. Sebastodes pinniger, one of the rockfishes of the family Scorpanida: found on the Pacific coast of the United States.

Blue-pigeon fler. See *blue-pigeon.

flier-frame (fli'ér-fram), n. Same as throstle, 2.

flier-grame (fli'ér-gram), n. Yarn that is spun on the throstle or fly-frame.

flightly, n. 5. In archery: (c) The course of an heated. See flip² and flip-dog.

flip-das, n. 5. A kind of tea-cake. [U. S.]

flip-flap, n. 5. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

flip-flap, n. 6. A kind of tea-cake. [U. S.]

fli

over a log, cant, or piece of timber from a set of live rolls to other rolls, or for throwing a log out of the log-slide to the log-deek pre-paratory to rolling it down the sloping deek to the log-loader.

I did n't wonder at folks thinking that preacher done irted me. Fursman, Sanetified Town, p. 72.

II. intrans. 4. In archery, to fly unsteadily: said of an arrow.

flitch, n. 4. A strap; a doubling-plate; fishing-bar; a metal or wooden plate bolted to a beam or girder at a joint or other weak spot, to strengthen it and keep it straight when exposed to endwise thrust.

litch (flieh), v. t. [flitch, n.] To cut into

flitch-plate (tlieh'plat), n. A strap or plate of rolled metal used to connect two or more pieces of a flitch-beam.

loat, v. i. — Floated and set fair. See lath floated and set fair, under lath.

float, n. 12. A timber drag used for dressing off roads, especially race-courses.—15. In stereotyping by the plaster process, the iron plate (about half an inch thick) which upholds the baked plaster mold in its dippingpan. The plate and the pan float in a bath of the much heavier medium of melted type-metal.—16. In geol. and mining, loose pieces of ore which have become detached from the parent mass in place and have traveled a greater or less distance. They indicate the presence of a vein and guide the prospector in his discoveries.

In the South claim, beside the marbles supposed to underlie the surface croppings, chrome iron ore is found as "foat" all over the surface, and at one point a deposit of 75 or 100 tons crops above the surface. U. S. Geol. Surv., 1897–98, p. 241.

17. pl. Commercial fertilizers consisting of low-grade phosphates ground to an impalpa-ble powder. They are used with special ad-vantage in connection with green manures and in composts to render the phosphoric acid more available .- Erdmann's float, in chem., a holmore available.— Erdmann's float, in chem., a hollow eylinder of glass, about two inches long and sealed at both ends, of rather smaller diameter than the hurette in which it is placed and floating with uniform immersion in the liquid to be measured. It has a transverse mark at about the middle of its length. The graduation of the burette is read off at the level corresponding to the mark upon the float. This little appliance permits a reading to be made without error, due to the meniscus surface of the liquid.

float-boat (flot'bot), n. An old name for a ship's long-boat; so called because in some eircumstanees it was not hoisted on board, but towed astern; a raft for transporting eargo and passengers.

float-carbureter (flot'kär"bū-ret-er), n. See

carbureter.

float-chamber (flot'ehām"ber), n. The ehamber surrounding a float, as in certain forms of

float-traps, float-valves, etc.

float-cut (flot'kut), a. Single-cut; cut in one direction only: used in connection with files, to distinguish from double-cut.

floater, n. 5. A dead human body found floating in the water. [U. S.]—6. In Mississippi and Tennessee, a representative in the State legislature who may be elected indifferently from either of two or more counties.—7. A vat in which hides are tanned. C. T. Davis, Manuf. of Leather, p. 403.—8. A eask, buoy, or other hermetically sealed vessel containing messages or records and left to drift on the ocean surface in the hope that it will be found by others. See *drifter. Geog. Jour. (R. G. S.), XII. 527 .- 9. A floating island. [Louisiana.]

Occasionally some of the land is torn away and becomes an island. Such islands are known as flottants or floaters, by the Creoles, and are among the most picturesque sights of these Louisiana lakes, sailing upon them, borne hither and thither by the winds or currents.

Sci. Amer. Sup., May 30, 1903, p. 22,911.

10. On the stock-exchange, a certificate, bond or other paper, especially one not officially funded or listed, that is accepted as a recognized security.

On the Stock Exchange, where slang abounds, 'floaters is a term which would puzzle outsiders. Floaters are exchequer bills and similar unfunded stock.

Temple Bar Mag., Feb., 1871, p. 320.

for earburetting an air-current in motor-ears, or in internal-combustion engines, in which the rising of the level of the liquid gasoline raises a valve to close the flow from the inlet, and a lowering of the level opens the flow again. Much used in modern motor-cars. The Automobile, May 2, 1903, p. 478.

float-gage (flot'gāj), n. Same as floating gage. floating, n. 8. The process of fattening oysters and scalleps by placing them in fresh or brackish water, thus causing the tissues to become distended. See float, n., 1 (e), and float, v. t.. 3. Also known as fattening, laying out, and

float-gage

Floating battery. (b) Same as De la Rive's \star ring. — Floating fly. Same as \star dry-dy.— Floating plate. Same as \star doat, 15.— Floating policy. See \star policy2.

float-key (flot'ke), n. A sliding key: a feather; a spline; a key which can move axially in a groove or keyway.

float-quartz (flot'kwarts), n. See float-min-

float-stage (flöt'stāj), n. A raft: a construction of timber, or of barrels and timber; a floating stage: a buoyant platform held to a vessel's side by painters, or by fore-and-aft guys, and on which footing is obtained by men at work upon

the outside of the ship. float-trap (flot trap), n. A device for automatically discharging, by the aid of the steampressure, the water of condensation from a tank

liquid. As the level of the liquid changes, the flow. Science, June 21, 1901, p. 988, float rises or falls, thus closing or opening the floodometer (flu-dom'e-ter), n. A gage or invalve.

flob (flob), v. [Alse flub; imitative: ef. flop.]

I. intrans. 1. To flop; bang.—2. To puff; swell. Compare *flub.

II. trans. To puff; cause to swell. [Prov. Eng. in all uses.]

flocculate (flok'ū-lāt), r.i. [floccul(us)+-ate2.]
To form visible loose, light masses, or flocculi, as of clay in soil-water or of nitrogenous substances in milk. The addition of lime or salt causes soil-water to flocculate; ammonia prevents the flocculation or breaks it up. A sheet of uniform stratus cloud often flocculates with numerous cirro-cumulus or alto-cumulus clouds arranged in rank and file.

flocculency (flok'ū-len-si), n. Same as floccu-

flocculous (flok'ū-lus), a. [floccul(us)+-ous.] Resembling or of the nature of flocculi; floc-

floculus, n. 5. in astron., a name given by Hale to cloudy wisps, bright or dark, with which the sun's surface appears to be covered when photographed with the spectroheliograph by the light of some special wave-length, as, for instance, through a line in the spectrum due to some special element such as calcium, hydrogen, or iron. —Fissure of the flocculus. See ★ fissura flocculi. Astrophysical Jour., Jan., 1904, p. 42.

flock-duster (flok'dus"ter), n. A duster adapted to shredding and dusting wool flock. Also flock-opener.

flocking (flok'ing), n. 1. The act of removing flocks from a fabric. See flocking-machine.— 2. A collection of damaged or broken cotton fibers from the combing-needles of a cottoncombing machine. It is liable to be formed when the needles are imperfectly adjusted.

flock-opener (flok'op"ner), n. Same as *flock-

flocoon (flo-kön'), n. [F. flocon. < floc. < L. floc- floor-plan (flor'plan), n. In arch., a drawing cus, flock: see $flock^2$.] The filamentous, waxy which shows the plan of one story, especially secretion of certain plant-lice, especially of those of the subfamilies Chermesinæ and Pemphiqinæ.

floetz, n. See fletz.

flog, v. t.—To flog the clock, to move the hands forward surreptitiously and thus shorten the time one has to be on duty. [Slang.]

flogger, n. 3. In bridge, a separate score-sheet or-book in which the winnings and losings on each rubber are entered. Also called washbook.

flood, n.—Mainflood. (a) High water. (b) A large, broad body of water; main tide. (c) The main ocean; main sea. N. E. D.

flood, r. t. 2. See *splash, 4. floor-push (flor'push), n. An electric push-openings in a bridge or viaduet over a valley or lowland through which flood-water may operated with the foot. pass during high water: used in distinction from a channel arch, which spans the channel and through which water continuously or usu-

flood-board (flud'bord), n. One of several boards or timbers placed horizontally one on another between suitable supports or piers, another between suitable supports or piers, another between suitable supports or piers, and a central style at the anis of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

**Comming arge pieces, such as ny-w

usually on the top of a permanent dam, wall, dike, or bulkhead, to confine flood-waters temporarily.

flood-dam (flud'dam), n. See *splash-dam. flood-ground (flud'ground), n. The portion of a river valley which becomes submerged in times of flood; a flood-plain or river-flat. Dana, Manual of Geol. (4th ed.), p. 193.

flood-hatch (flud'hach), n. A sluice or gate, usually rectangular and of timber, sliding in vertical grooves or ways in a bulkhead or dam impounding water, for the purpose of closing a flood-opening; a flood-gate: to be opened by raising during floods, to prevent the water above the dam from reaching an undesirable

flooding, n. 3. A method of applying water for irrigation by permitting it to spread over nearly level ground, with or without restraining checks or small dikes built of earth. In wild flooding the water is turned upon the field and guided by a hoe or shovel, without the previous construction of checks. In the check or block system the land is graded to a certain extent and the water controlled by checks or dikes.

or pipe-line. The valve is operated by the rising or falling of a float attached to it.

float-valve (flot'valv). n. A valve to which is attached a float for regulating the flow of a liquid Asthelayel of the liquid absquare the

strument for indicating the height of water in

a stream subject to floods.

flood-pipe (flud pip), n. A pipe by means of which some place is flooded.—Magazine flood-pipe (nawab), one of a set of pipes leading from a seavalve to a magazine by means of which sea-water is admitted to flood the ammunition-rooms when the magazine

of flood.

Sweeping up from the sandy shores of the sea across marshes, flood-plains and well-watered forests.

Pop. Sci. Mo., March, 1902, p. 387.

flood-plane (flud'plan), n. The highest level to which water rises during a time of flood. Such levels are often recorded by flood-marks, or bench-marks cut into stone walls, wooden posts, or buildings.

floor, n., 5. (b) In wood ship-building, same as floor-timber. (c) In iron ship-building, the bottom part of a frame, consisting of the floorplate, frame-bar, and the reverse frame-bar.-10. A unit formerly used in the measurement of excavation and embankment. Its magnitude was different in different localities, but was generally equivalent to a prism of earthwork 18, though sometimes 20, feet square, and 1 foot in depth.

flooring-machine (flor'ing-ma-shen"), wood-working, a machine for planing and finishing flooring, ceiling, siding, and casing. It is essentially a planer and matcher. flooring-plate (florring-plat). n. One of the

plates which underlie the ambulacral grooves in the class Edrioasteroidea. They are mostly arranged in double series, and resemble the ambulacral ossicles of the Asteroidea.

floor-light (flor'lit), n. A piece of glass, or a frame with many pieces of glass, let into a floor to allow of the transmission of light from above.

which shows the plan of one story, especially with reference to those parts which are in connection with the floor rising out of it. Thus the dotted lines indicating patterns of the ceiling and all indications of objects several feet above the floor have no necessary place in a floor-plan.

floor-plate (flor'plat), n. 1. A foot-plate; a plate, usually of iron or steel but sometimes built up of boards, used as a floor around engines and boilers. The use of such plates permits of easy access to pipes placed beneath them, as they are usually held in place only by their own weight.

2. A massive plate usually of cast iron, with

slots on its upper face, forming part of the floor of a machine-shop, so that work can be

button inserted in the floor of a room and

floor-rest (flor'rest), n. A heavy standard which rests on the floor and supports the toolrest for a hand-lathe. It is used by pattern-makers for turning large pieces, such as fly-wheels, etc., the bed of the lathe being cut away to permit such large work to

cerned with the floor, as the pavement, stringers, and floor-beams, and in railroadbridges also the ties, rails, and guard-rails: used in distinction to the trusses or arches, whose function it is to support the floorway.

The floor of the bridge, which is supported upon the crown of the arches and upon steel bents extending from the arches to the floorway, provides for a driveway 23.5 feet in width, and two footways for foot passengers 8.8 feet in width, making a total width of floorway of 41.3 feet.

Sci. Amer. Sup., May 23, 1903, p. 22894.

floose (flös), n. See *falus.

Floral zone. See *zone.

floran (floran), n. [Of undetermined (Cornish?) origin.] In mining, tin ore which is of fine grain or which has been very finely stamped.

floreate, floriate (flore, floriate), r.; pret, and pp. floreated, floriated, ppr. floreating, floriating. I. intrans. To flower out; blossom.

Baring-Gould.

II. trans. To decorate with flower-patterns. floreation, floriation (flo*rē-, flo*ri-ā'shon), n. Decoration with flower-patterns.

Florentine, n. 4. [l.c.] Same as *fanchonnette.

—Florentine school of painting. See ★painting. Florentine school of sculpture. See ★sculpture. Florentine twill, n. Same as ★cassimere-twill.

flore pleno (flö're ple'no). [L., abl. of flos plenus, 'full flower'] With the flower full: used in hort, with reference to flowers which have the petals (or in composites the rays) multi-plied so as to fill the whole disk; double-flowered; double.

2. A flowering or blossoming

The age of greatest [artistic] florescence all over the area

Eneyc. Brit., XXXI. 59.

flood-plain (flud'plan), n. A nearly level allowed plan forette (flo-ret'), n. [F., dim. of fleur. OF. luvial plain formed by deposition of land waste flor, flower.] A French coin of the time of by graded or aggrading streams during times Charles VI., equal to 20 deniers: so called from the three fleurs-de-lis crowned on the obverse. floretum (flo-re'tum), n.; pl. floreta (-tg). [NL., \langle L. flos (flor-), flower, +-ctum.] A botanical garden limited in its scope to the scientific cul-

tivation of flowers. Florida bean, caper-tree, etc. See *bean1, etc.—Florida clover. See Richardsonia.
floridean (flo-rid'é-an), a. Of or belonging to

noridean (no-rid e-an), d. Of or belonging to the Florideæ.—Floridean pit. See ≠pit1.
Floridian series, in Amer. geol., a series of Pliocene Tertiary beds extending through the Atlantic States. They abound in marine fossils, and have been divided into a number of subordinate groups.
florid-song (flor'id-sông), n. Figurate or contrapuntal music, as distinguished from plain-

florigraphic (flō-ri-graf'ik), a. [L. flos (flor-), flower, + Gr., ράφειν, write.] Of or pertaining to flower-writing or literature in regard to flowers. G. S. Hall, Adolescence, II. 209. florin, n. 5. A Polish silver coin of the value

of about 12 United States cents.—Double florin, an English silver coin of the value of four shillings, author-

floristic (flo-ris'tik), a. [flora + -istic.] Having in view, or otherwise related to, a flora: opposed to acological. See *phytogeography. floristically (flo-ris'ti-kal-i), adv. In a floristic view. F. E. Clements.
floristics (flo-ris'tiks), n. pl. Same as floristic

*phytogeography.

The species, considered primarily with reference to numbers, would be represented by distribution or floristics. Pound and Clements, Phytogeog. of Neb., p. 15.

florula (flor'ū-lä), n.: pl. florulæ (-lē). [NL., dim. of floru, flora.] A little flora, as of a limited area or, in fossil plants, of a particular locality: either the plant content or the systematic exhibit.

florule (flor'ūl), n. [NL. florula.] Same as *florula. Amer. Jour. Sci., Dec., 1903, p. 417. flory-boat (flo'ri-bōt), n. [Origin of flory-unknown.] A small boat employed in carrying passengers between a vessel and the shore. floscelle (flo-sel'). n. [L. floscellus, dim. of flos, flower.] In certain of the echinoids or sea-urchins, an arrangement of the ambulacral rosette around the peristome in which the ambulacra are depressed and the intervening areas projected into lip-shaped ridges. floscule (flos'kūl). n. 2. Any rotifer of the family Flosculariidæ.

flosculus (flos'kū-lus), n.; pl. flosculi (-lī). [L. flosculus, a little flower: see floscule.] A tubular organ with a central style at the anus of

floss-silk, n. 2. Loose or broken filaments of silk from the cocoons.—3. A soft, coarse yarn made from silk and used in making shawls, bands, and ordinary silk fabries. flotation, n. 3. The act of launching, or 'float-

notation, n. 3. The act of launching, or 'floating,' a new enterprise, a loan, a new issue of stocks or bonds, or the like.— Center of flotation. See *center1.— Curve of flotation. See *certer.— Surface of flotation, in naval arch, in the theory of the unresisted rolling of a vessel, the surface formed by the envelop of the load-water planes of a vessel.

flounce?, n. 2. In saddlery, a covering for a pitch believe without of lock provides the surface of the planes of a vessel.

pistol-holster, either of leather or bearskin.

pistol-holster, either of leather or bearskin.

founder², n.—Arctic founder, a small flounder, Liopsetta glacialis, found in arctic seas.—Eel-back flounder, a species of flounder, Liopsetta pataami, found along the New England coast; the female is nearly scaleless.—Fourspotted flounder, a species of flounder, Paratichthys oblongus, found along the Atlantic coast from Cape Cod to Cape flatteras.—Peacock flounder, a large species of flounder, Paratichtys it is remarkable for the curved streaks of blue scattered over the body.—Pole flounder, the deep-sea flounder, Glyptocephalus canaglossus, of the North Atlantic.—Southern flounder, Paratichthys lethostigma, a flounder found on the South Atlantic coast of the United States.—Starry flounder, a large, coarse flounder, Platichthys stellatus, with black spots; found in the North Pacific.—Summer flounder, the common large flounder, Paratichthys delataus, found from New York southward along the Atlantic coast. See cut at Paratichthys.—Winter flounder, the small rough-scaled flounder, Pseudopteuronectes americanus, common along the New England coast. flour, n.—Clear flour, a trade-name for the third of the nectes americanus, common along the New England coast.

flour, n.—Clear flour, s trade-name for the third of the three grades into which wheat flour is commercially divided. See patent * flour and straight * flour, - Flour of rocks. See * rock-flour, - Graham flour, unbolted wheat flour or wheat meal, retsining the bran: used in making brown bread (which see, under bread).—Patent flour, flour made from wheat by roller-milling instead of by grinding between millistones; the first of the three grades into which flour is commercially divided.—Roller-process flour, flour made by the roller process (which see, under * process).—Standard flour, as defined by the United States Department of Agriculture, flour prepared from standard wheat, and containing not more than 13.5 per cent. of moisture, not less than 8.5 per cent. of protein, and not less than 4 per cent. of ash.—Straight flour, a trade-usme for the second of the three grades into which wheat flour is commercially divided. See patent * flaur and elear * flour.

flour-beetle, n. 2. Any one of several beetles

see patent *faur and clear *four.

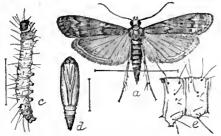
flour-beetle, n. 2. Any one of several beetles of the genus Tribolium, as T. ferrugineum and T. confusum.— Broad-horned flour-beetle, a cosmopolitan beetle, Echocerus cornutus, limited in its distribution in the United States to the sea-cosst towns, and found in ground cereals of various sorts.— Confused flour-beetle, a cosmopolitan beetle, Tribolium confusum, occurring ingrain of all kinds, usually following the stacks of the true grain-weevils. Its principal damage is done to flour.—Depressed flour-beetle, a cosmopolitan heetle, Padorus subdepressus.—Rust-red flour-beetle, the most abundant of the flour-beetles, Tribolium ferrugineum, occurring in various stored cereal products in most parts of the world.—Slender-horned flour-beetle, the smallest of the tenebrionid flour-beetles, Palorus ratzeburgi.

flour-moth (flour'môth), n. Anyone of several small moths whose larvæ feed on flour, as the Indian-meal moth, Plodia interpunctella, or the meal snont-moth, Pyratis farinalis.—Mediterranean flour-moth, a cosmopolitan phycitid moth, flowers and flowering plants, flow-gate (flogat), n. A long gate at the side of a toundry-mold from which the molten metal flows into the mold at several points.

flower-oi-the-gous See *Disa, with cut. flower-show (flour'er-shō), n. A public exhibition of flowers and flowering plants, flow-gate (flogat), n. A long gate at the side of a toundry-mold from which the molten metal flows into the mold at several points.

flows into the mold at several points.

flower-oi-the-gous See *Disa, with cut. flower-show (flour'er-shō), n. A public exhibition of flowers and flowering plants, flow-gate (flogat), n. In leather-manuf., a wheel for smoothing or brushing the flesh side of sheepskins. C. T. Davis, Manuf. of Leather, p. 511. flour-moth (flour'môth), n. Any one of several



Mediterranean Flour-moth (Ephestia huchmella). a, moth; c, larva; d, pupa, enlarged; e, two joints of larva, more enlarged. (Chittenden, U. S. D. A.)

Ephestia kuehniella, which does great damage in flour-mills. The larve form cylindrical silken tubes in which they feed. The infested flour becomes felted together and lumpy, and clogs the milling machinery. flour-weevil (flour/we^svl), n. Any one of the

flour-beetles.

flour-worm (flour'werm), n. The larva of any one of the flour-moths or flour-beetles.

flow1, v. i. 9. In the differential calculus, to enlarge (or diminish) continuously, that is, by

large (or diminish) continuously, that is, by infinitesimal increments (+ or -), flow!, n. 9. A quicksand. [Scotch.]—Ehb-and-flow structure. See *cbb.—Flow of marble, in geal., the gradusl bending or deformation of marble, either minutely when in hlocks at the surface or in mass and more extensively when buried beneath a heavy load of overlying strata; due to the plasticity developed under strain. Nature, July 9, 1903, p. 231.—Tube of flow. See **tube.

flowage, n. 2. In mech., gradual internal flub (flub), v. [Var. of *flob.] motion or deformation, without fracture, of a [Prov. Eng.]

viscous solid such as asphalt.—Zone of flowage, in geol., the deepest of the three zones into which the earth's crust is conceived to be divided with regard to the deformation of rocks. In the zone of flowage the rocks are confined on all sides, yet loaded beyond their resistance as determined at the surface. Earth-movements therefore develop a viscous flow in these solids. The upper limit of the zone of flowage varies in depth, according to the nature of the rock, from 500 meters for soft shales to 10,000 meters for firm granites. The correlative zones are the zone of fracture and the mixed zone of fracture and flowage. The terms were suggested by C. R. van Hise.

flow-blue (flo'blö), n. In eeram., blue color which spreads or flows more or less through the glaze which is placed upon it. Also called flown blue.

flow-dike (flo'dik), n. A shallow artificial channel to convey running water: generally enannel to convey running water; generally employed in drainage. [Obsolete.]

Flower of chivalry. See *chivalry.—Flowers of arsenic, of ocher. See *arsenic, *ocher.

flower-basket (flou'er-bas'ket), n. 1. A bas-

in which flowers are held. - 2. A hexactinellid sponge, Enplectella aspergillum. Also called Venus's flower-basket.

flower-beetle (flou'er-be#tl), n. Any one of many beetles which habitually frequent or feed upon flowers. A number of scarabaid beetles of the tribe Crtoniine have this habit, as the hermit flower-beetle, Osmoderma eremicola, the rough flower-beetle, Osmoderma eremicola, the rough flower-beetle, Osmoderma eterhicola, the rough flower-beetle, Euphoria nuclancholica. Many of the Malachiidæ and Cleridæ are also flower-beetles, and certain species of the firefly family, Langueridæ, particularly of the subfamily Telephorinæ, which contains the so-called soldier-beetles, feed on pollen and sare called flower-beetles.—California flower-beetle, a western United States scarabacid beetle, Hoplia callipuge, which feeds on flowers.

Alowerer n. 2. A person employed to paint. many beetles which habitually frequent or

flowerer, n. 2. A person employed to paint flowers on pottery. [Eng.]

This last was usually done by women 'howevers,' who scratched a rough floral pattern into the body of the ware and rubhed a little zaffre or powdered cobait glass over the incisions, a kind of ceramic tattooing which was largely practised at Burslem about 1750.

R. L. Hobson, in Burlington Mag., IV. 148.

n. 3. The spawning of pelagra areas of the spawning of the flowering, n. 3. The spawning of pelagie fishes, which sometimes cover large areas of the surface of the sea with their spawn.—4. flue-register (flö'rej" is -ter), n. In organThe appearance of the surface of lakes and building, same as flue-stop. other large bodies of fresh water due to the occurrence of considerable quantities of algae, usually blue-green forms.

flower-midge (flou'er-mij), n. A midge that infests flowers.—Clover flower-midge an American cectdomylid fly, Dasyneura trifolii, which breeds in the flowers of red clover. Formerly called clover seed-midge.

flower-of-Jove (flou'er-ov-jov'), n. The rosecampion, Lychnis Flos-Jovis. Also Jupiter'sflower.

flow-glaze (flo'glaz), n. A glaze on pottery or porcelain which flows down the sides of the vessel, usually in streaks of different colors.

flow-line (tlō'līn), u. In igneous rocks, one of a number of streaks or bands of different color, or parallel arrangement of erystals, which indicate the direction of differential flow or planes of movement along which the molten magma spread or flowed during its eruption just before its solidification. See fluidal struc-

flow-structure (flo'struk"tūr), n. Same as fluidal structure

flox, n. A simplified spelling of phtox. F. L. S. An abbreviation of Fellow of the Lin-

nwan Society.

fluatation (flö-ä-tä'shon), n. A trade-name for treatment with so-called 'fluate' solution. See fluatally (flö'i-dal-i), adv. In the manner of * fluate, 2.

fluate, n. 2. A trade-name for a solution of a silico fluoride (salt of hydrofluosilicie acid) proposed for use by brushing over the surface of building-stone in order to close the pores

fluate (flö'āt), v. t.; pret. and pp. fluated, ppr. fluating. To treat with the so-called 'fluate' solution. See * fluate, 2.

fluavil (flo'a-vil), n. [Appar. < L. flu-ere, flow, + F. av(al), down, +-il.] That portion of crude gntta-percha which is dissolved by boiling absolute alcohol and which remains in solution after alban has separated out on cooling.

To bang; flop.

Fluctuation structure. Same as fluidal struc-

flue⁸, flew⁵ (flö), n. [Also flewe; ME. flew, flow; related to MD. rluwe, a fishing-net, D. flow, a snipe-net, F. flu, a net (Boiste). Origin obscure.] A fishing-net, stationary or used as

flue-chamber (flö'ehām"bér), n. A chamber or enlarged section in an exhaust-flue, formed to secure a thorough mixture of the fuel-gas with oxygen, or else to diminish the velocity of flow of the gas, so that dust or solid matter carried with it may have time to settle and be precipitated out.

flue-cure (flö'kur), v. t. In the tobacco industry, to cure (tobacco) in a close barn by artificial heat distributed by flues of stone, brick, or iron. Flue-curing is practised upon 'bright-yellow' tobaccos. See *tobacco.

flue-dust (flö'dust), n. The dust which collects in the flue of a metallurgical furnace, and which contains some very fine particles of metal, usually in the form of oxids.

flue-gas (flö'gns), n. Any mixture of gases from the flues of smelting-works or other chemical factories.

flue-heater (flö'hē"ter), n. 1. A device for heating a flue or air-shaft to promote the cireulation of air. -2. A heater for feed-water or other material placed in the channels or passages carrying hot gases from a furnace.

fuellen, n.—Sharp-pointed fluellin, Kickxia Ela-tine, a plant of the figwort family having hairy stems and sharp-pointed triangular hastate leaves, native of Asia, but naturalized in Europe and in North America from Canada to North Carolina.

flue-net (flö'net), n. Same as * flue8. Habak-

kuk, i. 15 (margin).

fluent, a. 4. In fluxious, enlarging (or diminishing) continuously, that is, by infinitesimal

building, same as flue-stop.
flue-scraper (flö'skrå'per), n. A device for cleaning the small flues of a multitubular cleaning the small flues of a multitubular boiler. It consists of pieces of sheet-metal twisted into a helix of the diameter of the inside of the flue, or of brushes of wire or scraping-edges, and fastened to a rod long enough to reach through the flue from end to end. Modern scrapers are often revolving devices, driven by a motor and pushed through the tube while in motion.

flue-sheet (flö'shēt), n. The plate into which

the flue or flues of a boiler are fastened. In

of Leather, p. 511.

fluffment (fluf/ment), n. [fluff + -ment.] Light, loose talk or material. [Cumberland, Eng.]—2. Fuss or fussiness in either dress or manner. A. E. Burr, in The Century, XXXIX.

fluid. I. d.— Fluid measure. Same as apothecaries measure (which see, under measure).

II. n.—Cephalorachidian fluid. Same as cere-brospinat fluid.—Coley's fluid, a serum containing the toxins of the erysipelas streptococcus and of Bacillus prodigiosus, employed in the treatment of sarcoma and proagnosus, employed in the treatment of sarcoma and other malignant growths.—Flux of a fluid, in phys., the flow in cubic centimeters per second through any imagi-nary surface in a fluid mass; the surface integral of fluid velocity over such a surface.—Pasteur's fluid, a nutrient solution used for the cultivation of bacteria and other micro-organisms, supposed to contain all the elements of

a fluid.

fluidiform (flö-id'i-fôrm), a. [L. fluidus, fluid. + forma, form.] Of fluid form; gaseous; ethereal; intangible.

fluidism, n. 2. Same as humoralism.

fluke¹, n. 6. A result of accident or lucky chance rather than of skill.—7. A failure, as of a yacht-race for lack of wind.—Mush-room fluke, the circular iron flange or umbrella shape at the end of a mushroom-anchor shank or stem. A mush-room and the stack of the circular iron shank or stem. room anchor has no stock.

fluke1, v. t. 2. In shooting, to hit by a chance

Fluking kangaroos at 300 or 400 yards is not exhilarating sport, as anyone might understand if he tried cata-pulting grasshoppers at 50.

F. G. Aflalo, in Smithsonian Rep., 1901, p. 695. fluke², n.—Bronchial fluke. Same as lung ★fluke.— Indian liver-fluke. Opisthorchis noverca (Braun, 1903), a trematoid worm found in the liver of man and dogs in India. It is from 9 to 12 millimeters long.— Lung fluke, $\it Phistomoringeri.$

3. Uncertain; shifty; said of the fluky, a. 3. Uncertain: shifty: said of the wind. Also flooky.
flume, n. 4. An inclined trough in which

water runs, used in transporting logs or timwater runs, used in transporting logs of timbers.— Rating flume, a conduit or long box, usually rectanglar in section, forming part of an irrigating canal or ditch and arranged for the purpose of showing the quantity of water flowing through the canal or ditch. The flume is rated by suitable measurments, that is, the relation of height of water to quantity in the flume is ascertained and indicated by marks on the sides. H. M. Wilson, Irrigation Engineering, p. 93.

flume, v. I. trans. 2. In lumbering, to transport, as logs or timbers, by a flume.

II. intrans. 1. To conduct a channel or canal, by a flume, along an artificial temporary construction in situations where an earth or masonry channel cannot readily be fluorindine (flo-o-rin'din), n. [fluor(ide) + secured by excavation and embankment. To build a flume or artificial channel and its supporting construction.

The original scheme was to develop the Coquitlam by fluming along the steep hillside a distance of about seven niles. Elect. World and Engin., May 16, 1903, p. 837.

fluming, n. 2. An artificial channel and its supporting construction, generally of timber: used to conduct a stream or canal in situations where an earth or masonry channel cannot readily be secured.

flunky, n. 4. A cabin waiter on a passenger-

fluo-aluminate (flö "ō-a-lū'mi-nāt). n. In chem. a compound of aluminium fluoride with the fluoride of a more electropositive metal, as the mineral cryolite, sodium and aluminium fluoride.

fluocalcium (flö-ō-kal'si-um), n. In chem., same

as *calcium fluoride.
fluoniobate (flö-ō-nī'ō-bāt), n. [fluo(ride) + niob(ium) + -ate1.] In chem., a compound of niobium fluoride with a fluoride of a more electropositive metal: also called niobifluoride or niobiofluoride.

fluoradelite (flö-ō-rad'e-līt), n. Same as *til-

fluoramide (flö-ō-ram'id). n. In chem., an explosive liquid of oily consistency said to have been obtained by electrolysis of a solution of ammonium fluoride. The name implies the presence of hydrogen as a constituent. The substance has also been called nitrogen fluoride, on the assumption that it consists of nitrogen and fluorin only. Its existence is doubtful.

fluoran (flö'ō-ran), n. [fluor(ide) + -an.] A crystalline compound. C_{20} H_{12} O_3 , formed together with phenolphthalein, of which it is the

annydrid. fluoranthene (flö-ö-ran'thēn), n. [fluor(ide) +Gr. $av\theta_{0\varsigma}$, flower, + -ene.] A solid hydrocarbon, C_{15} H_{10} , found in coal-tar, in American petroleum, and in the organic distillate obtained in the preparation of mercury from its ores in Idria, whence its other name, idryl. It melts at 110° C. Sadtter, Haudbook of Indust. Chem., p. 394.

fluorapatite (flö-ö-rap'a-tit). n. See *ehlorap-

fluorate (flö'o-rat), n. [fluor(ide) + -atel.] In chem., same as fluate: the correct modern term is fluoride.

fluorene (flö'o-ren), n. [fluor(ide) + -ene.] A solid hydrocarbon, C₁₃ H₁₀, contained in portions of coal-tar boiling at 300-400° C. If not quite pure it has a violet fluorescence. called orthodiphenylenemethane or 2.2'-methy-lenebiphenyl. It melts at 113° C.

Fluorescence absorption. See *absorption.

Fluorescente absorption. See *absorption, Fluorescent screen, a screen usually of some material pervious to X-rays, one side of which is coated with calcium tungstate, calcium sulphid, barium platino-cyanide, or other substance which fluorescens under the action of these rays or under other influences. When used in X-ray examinations shadows appear on the screen. Similar screens are used in the spinthariscope, and in experimentation on luminescence. See also *fluorescepte.

fluorescer (flö-o-res'er), n. A fluorescent substance. Nature, March 31, 1904, p. 523.

auorescin (flö-ō-res'in), n. [fluorescc + -in2.] A colorless crystalline compound, $C_{20}H_{14}O_5$, prepared by the action of zinc dust and sodium hydroxid on fluorescein. It melts at 126° C. fluor-herderite (flö-or-her der-it), n. See \star herderite.

fluoridation (flö " o -ri -da 'shon), n. In geol the process whereby fluorin combines with bases, and more especially with calcium, to

substance obtained by heating a mixture of fluor-spar and concentrated sulphuric acid with silica or any silicate. It is a colorless gas of irritant odor and high density, decomposed by water with formation of a jelly-like mass of silication and silication and

of silica or a silicic acid.

fluorin, n. After seve fluorin, n. After several abortive or doubtfully successful attempts by various chemists to isolate the element fluorin this result was finally attained by Moissan in 1886. He submitted to electrolysis anhydrosen hydrotuoric acid in which a little potassium-hydrogen fluoride had been dissolved, using a specially constructed apparatus of platinum alloyed with irdium. Fluorin so obtained is a gas of pale greenish-yellow color, with a strongly irritant and penetrating odor, liquefiable at about — 185° C. under atmospheric pressure, and intensely active in its chemical relations to other substances. It combines even in darkness with hydrogen with violent detionation; silicon, horon, arsenic, antimony, sulphur, and iodine take fire spotaneously in the gas; and it decomposes water with liberation of oxygen in the form of ozone. With oxygen itself fluorin will not combine.

 $ind(igo) + ine^2$.] A weakly basic dye, $H_{20}N_4$, very fluorescent in alcoholic solut 4, very fluorescent in alcoholic solution. fluoroform (flö o-ro-form), n. [fluor(ide) + form(ie).] A colorless gas, CHF₃, which liquefies at 20° C., under the pressure of 40 atmospheres. It is an analogue of chloroform and iodoform and is formed from these substances by the action of silver fluoride. Also called trifluor methane.

fluoroformol (flö för jörjörjör möl), n. [fluoroform + -ol.] The trade-name for fluoroform form + -ol.] The trade-name for fluoroform (CHF₃) in dilute solution in water: recommended for medical use as an internally administered antiseptic in pulmonary phthisis.

Also called fluoryl.

fluorography (flö-ō-rog'ra-fi), n. [fluor(idc) + Gr. -γραφία, < γραφέιν, write.] The process of etching on a surface of glass by means of hydrofluorie acid.

fluorol (flö' $\bar{0}$ -r $\bar{0}$ l), n. [fluor(ide) + -ol.] two per cent. solution of sodium fluoride: used as an antiseptic in place of corrosive sublimate and formaldehyde.

fluoroline (flö'o-ro-lin), n. [fluorol + -ine².] A volatile base, C₁₂H₁₃N, found in parafilmoil from lignite coal-tar. It has the odor of aninoline.

fluorometer (flö-ō-rom'e-ter), n. ratus for the determination of fluorin by the action of sulphuric acid upon a mixture of the substance with powdered quartz, the volume of the silicon tetrafluoride evolved being measured.—Dennis fluorometer, an apparatus used in conjunction with X-rays in locating foreign substances in the body, or determining the nature of fractures or dislocations.

fluorophore (flo'\(\tilde{\gamma}\) o-\(\tilde{\gamma}\) o-\(\tilde{\gamma}\) of the presence of which in the molecule of a cal genus of the family Flustrellidæ. Gray, compound is supposed to cause the exhibition of fluorescence. Such groupings are the ring **Flustrellidæ** (flus-trel'i-dē), n. pl. [NL., < structures in pyrone, acridine, anthracene, Flustrella + -idæ.] A family of ctenostomastructures in pyrone, acridine, authracene, etc. Nature, Nov. 5, 1903, p. 15. fluoroscope (flö'ō-rō-skōp), n. [fluor(escence)

+ Gr. σκοπείν. view.] An aparatus signed for observing the effect of the Röntgen rays by means of their action on a fluorescent stance. It con-

sub- // Fluoroscope.

Stance. It consists essentially of a tube or box closed at one end by a screen coated with a fluorescent substance, as tungstate of calcium. When an object, as the hand, placed before a vacnum-tube is observed through the fluorescepe, the shadows of its parts that are not transparent to the X-rays are seen on the fluorescent screen.

fluoroscopic (flö"ō-rō-skop'ik), a. Of or pertaining to the fluoroscope or to fluoroscopy. fluoroscopy (flö-ö-ros'kö-pi), n. The art of using the fluoroscope or of examining by means of a fluorescent screen, the shadows of bodies exposed to X-rays.

fluorotype (flö'δ-rō-tip), n. [fluor(ide) + Gr. flute-douce (flut'dös), n. [F.] An old name for τίπος, type.] In photog., a photographic the transverse flute, and for an organ-stop process in which sodium fluoride is used in imitating it. sensitizing the paper.

fluoryl (flö' $\tilde{0}$ -ril), \tilde{n} . [fluor(ide) + -yl.] Same as *fluoroformól.

as "juorojormot. fluosilicate, n. I. (b) In chem., a compound of silicon fluoride with a fluoride of a more electropositive element, as Na₂SiF₆=2NaF+ SiF₄; also called silicofluoride.

yield fluorides. Van Hise, U. S. Geol. Surv., fluotantalate (flö-ō-tan'ta-lāt), n. [fluo(ride) + tantalum + -ite².] In chem., a compound of tantalum fluoride with a fluoride of a more electropositive metal: also called tantalofluoride.

fluotitanate (flö-ō-tī'tan-āt), n. [fluo(ride) + titan(ium) + -atel.] In chem., a compound of titanium fluoride with a fluoride of a more electropositivo metal: also called titanifluoride

or titanofluoride.

Fluotitanic acid, in chem., a compound of titaninum fluoride with hydrogen fluoride (hydrofluoric acid), ll_TIF_6 = 2HF + TiF_4; also called hydrogen titanifluoride or titanofluoride. It may be viewed as derived from metatitanic acid (ll_TiO_3) by replacement of oxygen by fluorin

fluozirconate (flö-ō-zer'kō-nāt), n. [fluo(ride) +zircon(ium) + -ate¹.] In chem., a compound of zirconium fluoride with a fluoride of a more electropositive metal: also called zirconifluoride or zirconofluoride.

flurish, v. and n. A simplified spelling of flourish.

flurry, n. 6. The seum that forms on top of a dye-vat, as an indigo-blue vat.

flush¹, n. 5. In tea-growing, a fresh growth of shoots with leaves fit for picking. After the removal of the pekee tip (see *pekee) and the younger leaves a new flush is secured from axillary buds by stimulative culture or by removing the greater part of the blant's foliare.

ulative culture or my removing the greater partially children foliage.

flush², v. i. 3. To put out a new growth, as plants which have been partially deprived of their foliage: especially applied to tea-plants.

The trees flush three times a year . . . of these three flushes the first gives the best leaf, and brings the highest prices.

Kew Bulletin, 1896, p. 15.

flush⁹, n.—Four flush, in poker, four cards of the same suit; a bobtail.—Monkey flush, in poker, a flush of three cards only.

flush-board (flush'bord), n. Same as *flashboard.

flush-gate (flush'gāt), n. A gate, sluice, or valve placed in a dam, reservoir-wall, or pipesystem, to be opened when desired to flush out the reservoir, the channel below the reservoir, or the pipe-system.

Next to the waste gates comes the flush gate, which is 16 ft. wide, and has its top edge at the same elevation when in normal position as the top of the main dam. Elect. World and Engin., Feb. 13, 1904, p. 307.

flushing-tower (flush'ing-tou"er), n. A postor after-condenser; a condenser, in the form of a vertical box, used in the manufacture of sulphuric acid to condense the acid which is

not condensed in the first condenser. flush-joint (flush'joint), n. In masonry, a joint between stones or bricks which has been filled with cement or mortar so as to be flush with

tous gymnolæmatous Polyzoa, having the zoœcia immersed in a gelatinous crust, the ori-

cocia immersed in a gelatinous crust, the orifice bilabiate, and larvæ with a bivalve shell. Flustrella is the typical genus.

flutel, n., 1. and 2. The variety of names applied both to fintes proper and to finty stops in the organ is very great. Thus the older direct flutes are also called straight, a-bec, or beaked: these were made in different sizes, with different fundamental tones, and were then distinguished as discant, alto, tenor, and base flutes. The transverse flute is also called trarerse flute, flute douce, flauto traverso, flute traversiere, German flute, cross-flute, etc. In the modern orchestra, besides the standard flute in C, the smaller size, called the octave or piccolo flute, is used; but in military bands several varieties are found, as the terz or tierce flute, and the fourth or quart flute, the fundamental tones of which are E₇ and F respectively. The old flute d'armour was an alto flute, its fundamental tone being A. Organ-stops of a fluty tone are of two kinds, with stopped or with open pipes and belonging properly to the stopped diapason and the open dispason classes respectively (see diapason). Unfortunately, most of the names used for these stops either have no fixed and recognized meaning or are purely fanciful.—Corno flute. See *corno-flute.—Douhle flute, a direct flute with two tubes and (usually) a common monthpiece.—Onion flute, a toy musical instrument of a sort represented by the kazoo.—Swiss flute. (a) An old name for the transverse flute. (b) In organ-building, a flue-stop with open metal pipes of narrow measure and penetrating tone.

flute-organ (flöt'ôr gan), n. A barrel-organ fitted with a set of pipes of flute-like tone. flute-pipe (flöt pip), n. In organ-building: (a) Same as flue-pipe. (b) Specifically, a pipe in any one of the many flute-stops.

fluter, n. 3. In laundry-work, a hand- or powermachine, consisting essentially of a pair of

flute-tool (flot'töl), n. Same as flute-bit.

fluting, n.—Magnesium fluting, a group of lines in the spectrum of magnesium fluting a group of lines in the spectrum of magnesium which present the appearance of the fluting of a column.

Fluvial formation, a deposit of river sediment along the lower course of a stream formed through inability of the stream to carry away its overload; an accumulation of the sediments of a river within its own valley.—Fluvial period. See *period.

fluvioglacial (flö"vi-ō-glā'shial), a. [L. fluvius, a river, + glacies, ice, + -al'i.] Pertaining to the combined action of rivers and glaciers. Science, June 21. 1901, p. 988.—Fluvioglacial theory, in geol., a theory which involves the action of glacial ice, of flowing water, and sometimes also of wind, and which is advanced to explain certain superficial deposits which have no connection with the underlying rock. The loess of China is an example.

fluviograph (flö'vi-ō-graf), n. [L. fluvius, a

fluviograph (flö'vi-ō-graf), n. [L. fluvius, a river, + Gr. γράφευ, write.] An instrument devised by W. M. Fuller for measuring and recording automatically the rise and fall of a river. The record is made at an observation station by the aid of an electric attachment.

fluviolacustrine (flö'vi-ō-lā-kus'trin), a. [L. fluvius, river, + lacustris, of a lake, + -incl.] In geol., noting those sediments which are partly the result of flowing waters and partly of lakes; such, for instance, as deltas formed in lakes and passing into beach gravels and sands. Geikic, Text-book of Geol., p. 1202. fluviology (flö-vi-ol'ō-ji), n. The science of rivers and streams, in their physical forms and actious.

One of the elementary principles of the modern science of fluriology is that a vigorous stream will in time grade its channel consonant to its baselevel, whether that baselevel be another stream or static water.

Amer. Geol., Jan., 1904, p. 43.

Fluviomarine series, a name given by Edward Forbes to a series of Oligocene thin-hedded sediments in the Hampshire basin and on the Isle of Wight, England, which are partly of marine, partly of brackish, and partly of fresh-water origin. Geikie, Text-book of Geol., p. 1249.

fluviometer (flö-vi-om'e-ter), n. [L. fluvius, nita and fly-agaric. a river, + metrum, a measure.] An apparatus fly-ball (fli'bal), a. Having balls or weights for determining the height of water in a which fly outward from the action of centrifuriver; a river-gage.

flux, n., 8. (b) Continuous motion.—9. In flyblow, n. II. a. Of the nature of flyblow: enameling, a colorless vitreous base, composed flyblown. Mrs. Browning. enameling, a colorless vitreous base, composed of silica mixed with minium or red lead and potash or earbonate of soda. See *fondant2, 2. potash or earbonate of soda. See *fondant2, 2.

—10. In bot., the slimy exudation from wounds in the bark of various trees.—Baumé's quick flux. See *density.—Flux of fluid. See *fuid.—Gold flux. See *density.—Flux of a fluid. See *fuid.—Gold flux. See *density.—Flux of a fluid. See *fuid.—Gold flux. Same as *aceturin, 1.—Light flux, in photom, the whole beam of light from a sources: specifically, the quantity of luminous energy given off by a source of light divided by the time in which it is given. The unit of flux is called the lumen. This is the heam, from a unit light source, contained within a unit solid angle (the angle which subtends a square meter at a radius of 1 meter).—Magnetic flux. See magnetic *keircuit.—Mainz flux, a colorless glass, rich in lead, used for the manufacture of imitation diamonds or other imitation gems, the colors being added to this magma.—Salivary flux, salivation.—Sebaceous flux. Same as *seborrhea.—Unit of magnetic flux. See *tunit.

flux-root (fluks'röt), n. The pleurisy-root, Asclepius tuberosa, the root of which is used in dysentery.

Hyper dragon, handleap, horse, etc. See *dragon, etc. See *tragon, etc. See

dysentery.

flux-turn (fluks'tern), n. In elect., the mean magnetic flux through one turn of a coil multiplied by the number of turns.

fly¹, r. i.—To fly up into the wind, to come up into the wind; act as though the helm was to leeward; have the vessel's head point into the wind.

the vessers near point into the wind.

In 1, 1, 3, (i) Same as swift1, n, 2. (j) Naut, in a screw-log, a hollow copper cylinder about 10 inches long, having a number of blades or fins twisted to a helix of uniform pitch which cause the log to make a revolution in traveling a certain distance through still water.

10. Naut, an old-fashioned name for the

compass-card.—Fly rollway. See *rollway.

fly2, n.—Ant-decapitating fly, a phorid fly, Apocephalus pergandei, which lays its egg on the neck of the black carpenter-ant, Camponotus pennsylvanicus. The larva penetrates the head of the ant which eventually becomes separated from the body.—Big-eyed fly, any syrphoid fly of the family Pipunculidæ: so called from the very large eyes.—Black fly, (b) Same as coller *plant-louse.—Circular-seamed fly, a book-name for any dipterous insect of the suborder Cyclorhopha (which see).—Floating fly. Same as *dry-fly.—Golden-eyed lace-winged fly, any neuropterous insect of the family Chrysopidæ. See cut under Chrysops.—Grass-stem fly, any one of very many species of the dipterous family Oscindæ, whose larve live in the stems of gramineous plants.—Green-bottle fly, any green sarcoplagid fly of the genus *Lucilia* or some closely allied genus. Also green-bottle.—Hippelates fly, any oscinid fly of the genus *Lippelates* fly, any oscinid fly of the genus Hippelates. They are very small flies which swarm about the eyes of human beings and domestic animals and are supp-seed to transmit the disease known as pink-eye.—Humpbacked fly, any true fly of the family *Phoridæ* (which see).—Long-legged fly, any dipterous insect of the family *Dolichopodulæ.—Midgecompass-eard .- Fly rollway. See *rollway.

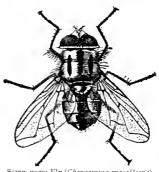
corrugated rolls, used in forming flutings in fabries and clothing.

flute-tool (flöt'töl), n. Same as flute-bit.

fluting, n.—Magnesium fluting, a group of lines in the spectrum of magnesium which present the appearance of the fluting of a column.

fluting of a column.

worm fly, an Americansareo-phagid or flesh-fly, Chrysomyia maccillaria, which lays its eggs on sores and wounds in domestic ani-mals and hu-man beings, its larvæ develop-ing in the same places and greatly aggravating the injury. It will also oviposit in the nostrils of human beings, larvae veloping in the posterior nares and fauces.—



w-worm Fly (Chrysomyia macella enlarged. (Howard, U. S. D. A.)

posterior nares and faures.—
Small-headed fly, any member of the dipterous family Acroceridæ (which see).—Spear-winged fly, any true fly of the family Lonchopteridæ (which see).—Stem-eyed fly, an American fly of the family Diopsidæ, Sphyracephada brevicornis, which has a horn-like process on either side of the head, on the tip of which the eye is situated. It is commonly found on the leaves of skunk-cabbage.—Tangle-veined fly, any dipterous insect of the family Venestrindæ (which see).—Thick-nead fly, any dipterous insect of the family Compositæ. See Compidæ and cut under Comps.—Tobacco white fly, any dipterous insect of the family Legrodulæ, Alegrodes tabaci, occurring on tobacco-leaves.—White fly, (c) Any homopterous insect of the family Alegrodulæ, (see Aleurodulæ); specifically, the white fly of the orange, Alegrodes citri.—Yellow-fever fly, an undetermined fungus-gnat of the family Myedophilidæ, and probably of the genus Sciara, which occurs sbundantly at times in the southern United States. Its simultaneous swamning with yellow-fever outbreaks gave rise to the popular name, but the fly has no connection with the fever.

fly-amanita (fli'am-a-ni"tä), n. See *Ama-

fly-amanita (fli'am-a-nī"tä), n. See ★Ama-

gal force as they are revolved.

fly-by-night (flī'bī-nīt), n. A jib set like a studding-sail; a squaresail set on some sloops

flycatcher, n.—Great-crested flycatcher, Myiar-chus crinitus, a large species of the eastern United States.
—Paradise flycatcher, an East Indian bird of the genus
Terpsiphone. See Terpsiphone.

See *.Imanita.

Flying dragon, handleap, horse, etc. See *dragon, etc.

- Flying kites, the loftiest sails in a ship, the skysails, moon-rakers, sky-scrapers, and star-gazers, all of these, except the skysail, being to a certain extent legendary sails claimed to have been carried on lofty ships in former times. — Flying party. Same as flying column (which see, under column).—To set flying, to hoist (a sail) from the deck to its position aloft, as, for instance, a maintopmast staysail on a schooner, or a club or sprit topsail.

Hying-fish, n. 2. A small constellation of the southern hemisphere, Piscis Volans. Sometimes simply Volans.—Sharp-nosed flying-fish, a small flying-fish, fodiator acutus, found on both coasts of tropleal America.

Hying-homer (fli'ing-hō"mèr), n. A homing-pigeon raised for flying and not for its markings or other points.

ings or other points.

flying-machine, n. Remarkably successful results have been attained both with dirigible balloons and with "heavier-thao-air" machines. See *air-ship, and *aëro-rangement fitted to a lens, by means of which the fears can be adjusted to different lengths.

flying-rings (fli "ing-ringz'), n. pl. Apparatus in gymnasiums consisting of wooden or iron rings eovered with leather and attached to focusing-screen (fo'kus-ing-skren), n. ropes suspended in pairs from beams or in a series.

fly-mold (fli'mold), n. The fungus, Empusa museæ, which is parasitie on the house-fly. fly-mushroom (fli'mush"röm), n. Same as fly-

ayaric. See *Amanita.

fly-off (fli'ôt), n. That portion of the rainfull or precipitation upon the earth's surface which fodder

is evaporated and returned to the atmosphere: distinguished from the run-off, or that portion of the rainfall which flows away from the surface to form rivers. J. W. Powell.

fly-pulley (fli'pul"i), n. A pulley which is free to move endwise on the shaft.

fly-table (fli'tā"bl), n. 1. A table with flaps or folding leaves.—2. The table on which printed sheets are laid in order when they have been delivered by the fly. See cut of stop-cylinder machine under printing-machine.

fly-tick (flī'tik), n. A larval mite, Trombidium muscarum, commonly found attached to the house-fly.

fly-title (fli'ti"tl), n. The abbreviated title of a book on a fly-leaf before the full title-page. fly-trap, n. 2. In bot.: (b) The pitcher-plant, Sarracenia purpurea; also the trumpet-leaf, S. flava, the leaves of which entrap flies and other insects

fly-weight (flī'wāt), a. Having weights which fly out as they are revolved.—Fly-weight governor. See *yorernor.

in the large of th

A contraction of fathom.

fo. An abbreviation (b) of Foreign Mission.

fo. An abbreviation of folio.

F. O. An abbreviation (b) of Foreign Office.

foal, n.-To be in foal, to be pregnant, as a mare.

foam-flower (fom flow er), n. The false miterwort, Tiarella cordifolia: so named from the light effect and white color of its flower-clusters. See coolwort.

foaming (fō'ming), a. Specifically, noting a class of sectional boilers in which each unit discharges the steam-gas formed in it into a chamber above the level of any water which may accumulate in the latter. The disengagement of steam from the water is therefore more tunniltuous, by reason of the small area of cross-section, than in the other type called 'drowned,' where the ends of the generating-units are below the water level, and steam only frees itself from water at the larger disengagement area of the larger vessel or drum.

Focal disease. See *disease. - Focal idea, focal sen-Focal disease. See *disease.—Focal idea, focal sensation, in psychol., a sensation or idea given in the state of maximal clearness, as the direct object of attention: opposed to marginal idea or sensation. Amer. Jour. Psychol., XII., p. 252.—Focal interval, the distance between the foci of the two refracting surfaces of the segment of a sphere, as the cornea. See *interval of Sturm.—Focal plane, point, radii. See *plane1, etc.

their magnifying power.

fly-eater (fli'o'ter), n. A small Australian fly-eateher of the genus Gerygone. focimetric (fo'si-me'trik), a. [focimetry] focimetric (fo'si-me'trik), a. [focimetry] focimetry or the focimetry -ic.] Of or pertaining to focimetry or the focimeter.

focimetry (fō-sim'e-tri), n. [focimeter + $-y^3$.] The art of measuring the focal lengths of mirrors, lenses, or optical systems.

focoid (fo'koid), n. [focus + -oid.] One of the two eircular points at infinity, or points where every circle in a given plane meets the straight at infinity or figurative straight of that plane.

focometric, a. Same as *focimetric. focometry (fō-kom'e-tri), n. Same as *focim-

focus, n. 5. In pathol., a center of morbid action; one of the primary or principal lesions. Jonr. Exper. Med., Nov. 29, 1901, p. 45.—Actinic focus, the focus to which the shorter and, chemically, most active rays are gathered by a lens or optical system. The actinic focus, on account of the greater refrangibility of the chemically active rays, lies nearer to the lens than the so-called optical focus.—Chemical focus, in photog., that point to which light rays inducing chemical changes, particularly in silver salts, are brought by the refractive power of a lens or objective.—Depth of focus, in optics, that property of a lens system which gives, simultaneously, well defined images of near and distant objects.—Equivalent focus, the focus of the single lens which is equivalent to a given lens system.

focus-adjuster (fō'kus-a-jus*fter), n. An arfocus, n. 5. In pathol., a center of morbid

rangement fitted to a lens, by means of which the focus can be adjusted to different lengths for different purposes. Woodbury, Eneye. Diet. of Photog., p. 210.

photog., the material used in a camera upon which the image formed by the lens is seen. It is usually of very finely ground glass. Glass coated with a semi-opaque substance, as starch paste, may be used. Glass may be made mat by the use of fluorides.

fodder, n.—To pull fodder, to strip the leaves from standing corn. Each handful (termed a hand) is tied with a twisted leaf and hung on a broken stalk to cure. On gathering, a day or two later, three or four hands are tied into a 'bundle.' The expensive practice of pulling fodder,

formerly universal in the southern United States, is giving way to the process of shredding the stover, forming a kind of 'corn hay.'

foddering (fod'er-ing), n. The act of supplying fodder to eattle; feeding out fodder. Foehn sickness. See *sickness.

ing fodder to eattle; feeding out fodder.

Foehn sickness. See *sickness.

fog1, n.—Barometric fog, a fog produced by the condensation of aqueous vapor in the atmosphere due to the cooling consequent on the expansion of the air when the barometric pressure diminishes, as when a wave of low pressure passes over a station, or when air is drawn horizontally into an area of low pressure.—Chemical fog, in photog., a defect in gelatin negatives giving a veiled appearance. It is due to the emulsion used. Nature, Aug. 21, 1902, p. 389.—Cosmic fog. See *cosmic.—Dry fog. (a) A light fog whose particles do not wet objects, but are themselves slowly evaporating owing to the warmth of the sun or of the ground and the dryness of the air; a fog from which all the heavier particles of water have dropped away, leaving their own latent heat of condensation in the air to evaporate the remaining fogparticles. Apparently the air between the drops in a foggy atmosphere is not necessarily saturated with moisture. (b) An atmospheric haze due to the presence of fine solid matter, such as dust or fine solf through the solid matter, such as dust or fine solf through the solid matter, such as dust or fine solf matter such as dust or fine solf matter such as dust or fine solf matter, such as dust or fine solf propercy of a particles collect about themselves special atmospheres of an escalar and prairie fires. These carbon particles collect about themselves special atmospheres of aqueous vapor and other gases. The spectrum of the transmitted light shows only the red and ultra-red waves. As the upper layers of the dry fog cool of by radiation and the little atmospheres of vapor become water, the dry fog changes to a drizzing mist and often to steady rain. Prairie fires and the resultant dry fog are mentioned

fog², n.—Yorkshire fog, the velvet-grass, Holcus lanatus, See Holcus, (Eng.) fog-bank, n. 3. A term applied to a mist of

condensing vapor of any liquid, not necessarily water, consisting in reality of an immenso number of minute drops of the liquid in a state of suspension.

When sulphur or other nuclei are put into the globe containing benzol vapour the result is peculiar. Instead of distributing themselves homogeneously throughout the receiver they usually collect in a heavy band near the bottom. This is invisible until revealed by the first exhaustion, when a heavy sluggish fog-bank is seen, only a few centimetres high. Nature, Oct. 8, 1903, p. 549.

fog-billow (fog'bil"o), n. Fog the upper surface of which is thrown into waves, breakers, and billows by the action of a gentle wind.



Fog-billows. (McAdie.)

fog-buoy (fog'boi), n. A buoy placed over or near a shoal, and provided with either a bell

or an automatic whistle.

fog-chamber (fog'chām'ber), n. In physics, a closed vessel containing dust-free air saturated with some vapor and used in the study of nucleation and the phenomena of condensa-

fog-drip (fog'drip), n. The drops of water which fall to the ground after being formed by the running together of the particles of fog collecting on solid bodies, especially vegetation.

fogger3 (fog'er), n. A man who, in foggy or snowy weather, places detonators on a railroad-track to apprise the engine-driver of the position of a signal or switch. [Eng.] foggie (fog'i), n. [Also fogie; prob. connected with fog2.] A bumblebee. [Prov. Eng. and

Scotch.]

fogging (fog'ing), n. Fog-signaling on railways by means of detonators attached to the rails, etc.

But if, as sometimes happens, a fog continues for several days, great difficulty is experienced in obtaining sufficient men to carry on this important duty without undue prolongation of their hours of work. When this happens, signalmen, shunters, porters, yardsmen, and even clerks may have to be called on to take a turn at "fogging." Encyc. Brit., XXXII. 148.

fog-limit (fog'lim"it). n. In physics, the difference between the outside atmospheric pressure and the pressnre within a closed vessel containing dust-free air saturated with moisture at which condensation of the moisture begins.

A particular fog-limit and hence a particular size of ucleus is reached for each case until the fog-limit van-hcs.

C. Barus, in Science, Feb. 17, 1905, p. 275.

fogman (fog'man), n. A man engaged in signaling moving railway-trains during fogs.

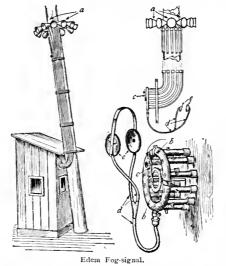
Many attempts have been made to design a mechanical apparatus for conveying to a driver the requisite informa-tion as to the state of the signals during a fog, and for enabling the fogmen to be dispensed with. Eneye. Brit., XXXII. 148.

Encyc. Brit., XXXII. 148.

fogo (fō'gō), n. [A variation of hogo, perhaps suggested by foh or fie.] A bad smell; a stink; a steneh. [Scotch and north of Ireland.]
fog-scale (fog'skāl), n. Any arbitrary system of recording the intensity of fog. Symons's proposed scale requires the establishment of a set of five screens at a uniform distance of 20 yards from the observer, illumined by lamps from behind by night but by white screens and sunlight by day. Screen number 1 has narrow alternate white and black stripes and number 5 has broad stripes. The others are intermediate. The scale of 1, 2, 3, 4, 5, indicates that the stripes on number 1, etc., have become invisible owing to the diffuse light of the fog.

fog-signal, n.—Edem fog-signal. an apparatus for

fog-signal, n.—Edem fog-signal, an apparatus for use on vessels at sea in thick weather, by which the di-rection of sound-waves approaching the ship can be de-termined. A series of twelve trumpet-shaped collectors



a, a, sound-collecting cones; b, b, terminals of conductors from a, a; c, c, contact arm to receiver-wires from conductors; d, d, receiver-wires connected electrically to c, c; e, c, telephone-receiver apparatus or car-pieces.

is fastened to a mast, each directed toward a different point on the horizon. From each collector an acoustic tube leads to a central receiving apparatus from which two ear-tubes lead to the operator's head. The collectors convey sound to the operator, but when any one is coupled to the ear-tube, the others are cut off. By testing around the circle the direction of any signal is easily and certainly determined.

In ounding line or outline.

foliobranch (fō'li-ō-brang'ki-āt), a. [L. foliom, a leaf, + branchiæ, gills, + -atel.]

Having the leaflets of the gills expanded and plate-like: a form characteristic of archaic tainly determined.

fog-tin (fog'tin), n. A tin piece for holding detonators or torpedoes on a railway-track: so called because used by British railroads during fogs, to notify the engineer of the location of a signal.

fog-trumpet (fog'trum "pet), n. A trumpet

used as a signal during fogs.

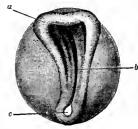
foil², v. II. intrans. In hunting, of an animal, to retrace its own track for the purpose of baffling the hounds; 'run the foil.' See foil², n. fold1, n. 7. In geol., a bend in strata varying from a monoclinal or a simple change in the inclination of the beds with a dip still in the same direction as before, through anticlinals and synclinals, which have respectively opposing and converging dips on each side of a central axis, to overturned, collapsed, and fancentral axis, to overturned, conapsed, and ranshaped folds, with very irregular dips. Folds are believed to be due to the compressive strains in the earth's crust. Compare monoclinal, anticlinal, synclinal, isocline, *dome, basin, 9, etc.—8. In the Brachiopoda, a term applied with distinctive value to the median elevation. with distinctive value to the median elevation of the shell, which is more or less pronounced of the shell, which is more or less pronounced in all except atrematous genera. Usually the fold extends along the longitudinal axis of the dorsal valve, accompanied by a corresponding sinus on the ventral valve, but in ontogeny this relation is sometimes found to be reversed in early stages, or it may manifest itself in either form only in the final stage of growth.—Arnold's fold, a sickle-shaped fold of mucous membrane in the lacrymal sac.—Carinate fold. Same as isoclinic *fold.

Conjunctival fold, the line where the conjunctiva is reflected from the eyehall upon the eyelid.

—Donglas's fold, ligament, or line, a crescentic line which marks the lower edge of the sheath of the posterior portion of the rectus abdominis muscle,—Epigastric fold, a duplicature of the peritoneum covering the epigastric vessels.—Gastro-ileal folds, a valve-like structure which separates the intestine from the chylific stomach in locusts.—Imaginal fold. Same as imaginal disk.—Isoclinic fold, ingeol., a fold whose sides have the same dip, usually a succession of closed synclinals and anticlinals of the most uniform type. The attitude, whether vertical, overturned, or recumbent, is synclinals and anticlinals of the most uniform type. The attitude, whether vertical, overturned, or recumbent, is not essential. Also called carinate fold.— Lime fold, in tanning, a streak or mark in a skin from the action of lime in one of the folds. [Rare.]—Marshall's fold, a duplicature of the pericardium inclosing traces of the left superior vena cava, a vessel concerned in the fetal circulation.—Medullary fold, in embryol., a fold of ectoderm which bounds the medullary plate on each side during the first stages in the development of the central nervous system. Also called

central nervous sys-tem. Also called neural fold.— Opercular fold, in embryo fishes, a fold of skin grow-ing back over the branchial region to form the opercu-lum.

folder, An attachment to a sewing-machine for bending and folding the fabric previons to sew-ing. It is made in a great variety of forms to produce the different plaits,



Medullary Fold.

Medullary Fold.

A Frog Embryo at the time of the appearance of the neural or medullary folds: seen from the dorsal surface. Magnified about 15 times. a, neural or medullary fold: the reference line points to the junction of the anterior and the left lateral folds: b, neural groove; c, yolk-plug, greatly reduced in size, but still visible through the blastopore. (From Marshall's "Vertebrate Embryology.")

folds, and bands used in garment-making and in decorative sewing.—5. In sheet-metal work, a hand-power machine for folding over the edges of sheet-metal plates to form a lock, turning the edges of small tinware and roofingplates, etc.; a tin-folding machine.

folding, n.—Intermittent folding, in geol., folding renewed at intervals, with periods of quiet between.

folding-machine, n. 3. A machine, or a hand-tool, for turning over and folding under the edges of vamps or other parts of a shoe; the edges of vamps or other parts of a shoe; a vamp-folding machine.—Straight-edge folding machine, a hand-power machine for folding leather or fabrics; an edge-folding machine. It folds only in a straight line. Other machines follow the shape of the vamp or other part of a shoe.

foliary (fô'li-ā-ri), a. Same as foliar.

foliate, v. t. 3. In arch.: (a) To adorn by means of foliation. See foliation, 7. (b) To divide, as an arch, into smaller arches or foils. See foil1, 7.

foliate, a. 4. Arranged in foliations: said of a pattern: divided into foliations: said of a bounding line or outline.

foliobranchiate (fō-li-ō-brang'ki-āt), a. [L. folium, a leaf, + branchiæ, gills, + -atel.] Having the leaflets of the gills expanded and plate-like: a form characteristic of archaic types of pelecypod mollnsks like Nucula and

Yoldia. Also foliobranch.

foliolose (fô'li-ō-lōs), a. [NL. *foliolosus, < foliolum, foliole.] Bearing folioles or leaflets,

especially an abundance of them.

folk-craft (fök'kraft), n. Popular or demoeratie art and skill in social self-control.

Suggestion, education, and publicity the choice instruments of the new folk-craft that is taking the place of the old state-craft. $E.\ Ross.$ Social Control, p. 432.

folk-dance (fok'dans). n. A popular dance, or the music for it, which originates in the same way as a folk-song and is similarly transmitted by tradition. Folk-dances and folksongs are always historically intermingled.

folk-medicine (fok'med"i-sin), n. The traditional medical maxims, remedies, and methods current among the people.

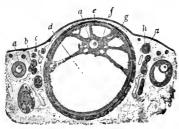
folk-state (fok'stat), n. A political state embracing only one homogeneous folk or people: in distinction from a composite nation formed by federation or conquest and comprising peoples of various bloods and languages that must be assimilated. Gumplowicz (trans.), Outlines of Sociol., p. 153.

folk-tale (fok'tāl), n. A folk-story.

folletage (fol'e-tāj), n. [F. feuilletage, puff-paste, the rolling of paste, \(\chi \) feuilleter; roll paste, turn over leaves, \(\chi \) feuillet, a leaf: see feuilleton.] A disease of the grape-vine in Cal-

ifornia due to a condition of the soil in combination with intense heat. Also called sunstroke. nation with intense heat. Also called sunstroke. follicle, n.—Agminate follicles. Same as Peperian glands (which see, under gland).—Ciliary follicles. Same as Meibomian glands (which see, under gland).—Dental follicle, the membranous bag which incloses the tooth before its eruption. See dental sac.—Follicles of Lieberkühn. Same as Lieberkühn's glands (which see, under gland).—Meibomian follicles. Same as Meibomian glands (which see, under gland).—Montgomery's follicles, depressions in the mucous membrane of the uterus.—Nabothian follicles, little vesicles on the mucous membrane of the cervix uteri, caused by distention of the mucous glands. tion of the mucous glands

follicle-cell (fol'i-kl-sel), n. In histol. of the cells which go to make up a follicle,



A. follicle-cells.

A, follicle-cells.

Section through part of the ovary of an adult rabbit. The section is taken vertical to the surface of the ovary, and shows one fully formed Graafaan follicle and others in various stages of development. Magnified.

a, ovum; b, nests of epithelial cells derived from the deeper layers of the genital epithelium; c, primitive ovum; d, cavity of Graafaan follicle; c, outer layer of Graafaan follicle critunica granuless; f, inner layer of Graafaan follicle or tunica granuless; f, inner layer of Graafaan follicle or discus proligenus; g, outer layer of columnar epithelial cells, investing the ovary; h, follicle cells surrounding an ovum. (From Marshall's "Vertebrate Embryology.")

such as the follicle which incloses the egg in the ovary.

Follicular mange. Same as *demodectic aca-

follow, v. I. trans.—To follow (its) innings, in cricket, said of a side when, having completed its first innings, it immediately begins its second, in consequence of having made a certain number of runs (75 in a one day's match, 100 in a two days' match, and 150 in a three days' match) less than its opponents. Also to follow on,

II. intrans.—Follow-on rule, in cricket, the rule which requires that the side which bats first and leads by 150 runs in a three days' match, or by 100 runs in a two days' match, or by 75 runs in a one days match, shall have the option of obliging the other side to go to the bat immediately for the second time. See to *follow (its) innings.—To follow through, in golf, to allow the club, after striking the ball, to follow, without break or pause, on the line of the ball's flight until the swing ends.

follow, n. 2. The difference in the external diameter of a spring, especially of a coiled or helical spring, when unloaded and when com-pressed by its working load. The torsion of the rod which forms the coil tends to increase

the diameter as the spring closes. follower, n. 4. In pile-driving, a wooden block placed on top of a pile that is to be driven deeper than the weight of the pile-driver can By the use of such a block the pile can be driven even after its head is under water.

-5. A wheel which is driven by another wheel, either by a belt or by a tooth connection. - 6. The smaller element of a compound piston, which is bolted to the larger to complete the structure. It is usually a plate, or it may be a ring. In old English designs using fibrous packing, the follower was called the junk-ring.

following, p. a. 3. In nacul arch., said of the edge or end of a surface or blade, as a propeller blade, which is in the rear when moving through water: opposed to leading1.

follow-rest (fol'o-rest), n. Same as rest1, 6 (b). follow-shot (fol'o-shot), n. In billiards, the reverse of the *draw-shot (which see). Also

follow-through (fol'ō-thrö), n. In golf, the course described by the club in the swing after the hall is struck.

Fomalhaut (fo-mal-hât'), n. [Ar. fumm, mouth, + ul, the. + hūt, a large fish (applied to a whale and to a cod).] The first-magnitude Fish, Piscis Austrinus.

fond⁴, n. 4. A gravy from braized and spiced meats which serves as the foundation for fond⁴, n.

fonda (fon'dä), n.

fondamenta (fon-dä-man'tä), n. [Venetian fondamenta (L. fundamenta, pl.), earlier

damentum, foundation.] A seaside quay; primarily, a landing-place: in Venice [cap.], specifically applied to the great quay which reaches from the Ducal Palace to the Public Garden in the Fondamenta degli Schiavone.

fondant² (fon-don'), n. [F. fondant, ppr. of fondre, melt: see found³. v.] 1. A thick, smooth, creamy paste of sugar, used as a basis of French cream candies.—2. The base or flux, in enamel, which is colored throughout by metallic oxids while in a state of fusion.

fonetic, fonetist, etc. Simplified spellings of phonetic, etc. fonic, a. A s

fonic, a. A simplified spelling of phonic. fonograf, fonografer, etc. Simplified spellings of phonograph, etc.

fonologic, fonologist, etc. Simplified spellings of phonologic, etc. fonotype, fonotypic, etc. Simplified spellings

of phonotype, etc. Fontainebleau schools of painting. rnaintina.

Fontana, spaces of. See *space. fontanal (fon-ta'nal). a. [L. fontanalis, var. of fonlinalis, of a fountain: see *fontinal.] Fountain-like.—Fontanal decussation. Same as *fountain decussation.

The section fontanelle, a.—Mandibular fontanelle, a small, colliptical opening in the proximal half of the lower jaw of many birds.—Supraorbital fontanelle, a perforation in that part of the canium which forms the upper portion of the orbit.

font-cover (font'kuv"er), n. In church arch.,

a permanent and often decorative protection for the open top of baptismal font. It frequently has the shape of a spire with planacles, or of a decorative eupola, or in some cases is some cases is richly sculptured. It may be hung with a pulley or windlass from a binged arm overhead, so that it can be swung clear of the font after better light and result of the second sec dug lifted a few inches.

fontein (fontin'), n. [D.: see fountain.] A fountain or spring: com-mon in South as,

AfricanDutch place-names: Bloemfontein.

fontinal (fon'ti-nal), a. [L. fontinalis, \(\) fons, a fountain, spring: see fount, fountain.] In phytogeog., growing in or about springs: said of a plant formation.

The rupestrine flora exhibits four types: The fontinal or dripping rock, the soil-covered ledge, the bare rock and the cliff summit types. Science, Jan. 29, 1904, p. 170.

food, n.—Respiratory food, food which supplies heat to the body by oxidation, and is then excreted through the lungs in the form of earbon dioxid and water.
food-chopper (föd/chop#er), n. A domestic

machine for cutting up raw or cooked meat,

vegetables, crackers, etc. food-groove (föd'gröv), n. In brachiopods, a ciliated groove leading along the arms of the lophophore to the mouth; in crinoids, a ciliated groove on the ventral surface of a brachial.

food-of-the-gods (födl'ov-THE-godz"), n. Au umbelliferous plant, Ferula Narther, the prin-cipal source of asafetida. See asafetida and

star situated in the mouth of the Southern food-rope (föd'rop), n. In ascidians, a viscid mass of food-particles held together by a slimy substance secreted by the endostyle and passed

fonda (fon'dä), n. [Sp. fonda, also honda, = fool-hay (föl'hā), n. The old-with grass, Pr. fronda = lt. fanda, fionda, an inn, a purse, = OF. fonde, F. fronde, a sling, purse, < L. funda, a sling.] In Spain and Spanish-speaking countries, a hotel, inn, tavern or boarding-house.

[Sondamenta (fön'dä), n. [Sp. fonda, also honda, = fool-hay (föl'hā), n. The old-with grass, Panicum capillare, and the rough bent-grass, Agrostis hiemalis, grasses resembling each other in the long, slender branches of their panicles: neither of much agricultural formal passed the same structure, toward the oral aperture. The old-witch grass, Agrostis hiemalis, grasses resembling each other in the long, slender branches of their panieles: neither of much agricultural value. which fools may be gaged or measured. ney Smith. [Humorous.]

plural of It. fondamento, foundation, & I., fun-fool-proof (föl'pröf), a. Preof even against the ignorant or meddlesome handling of fools; secure against accidents even in the hands of a stupid person: said of machinery. [Humorous.]

> The standard of construction has been raised, and it is claimed that the new motor starters are as fool-proof as rheostats can be constructed.
>
> Elect. World and Engin., Feb. 18, 1905, p. 371.

16. Naut.: (a) The lower edge of a sail. (b) The part of a mast near the deck.

17. In bot., one of various organs of attach-—17. In bot., one of various organs of attachment. (a) A petiole. (b) The stalk of a frond in Ierns. (c) The claw or point of attachment of a petal. (d) The organ of attachment and temporary nutrition of the embyro. (e) The base of hair below the epidermis.—Antennary feet. See ★antennary.—Circular foot, a unit of surface equal to the area of a circle whose dimneter is one foot. It is equal to 0.785398 + of a square foot, and is used in order to dispense with the fractional number 0.785+.—Cord foot. See ★cord1.—Foot clue. See ★clue.—Foot lining, a horizontal band of canvas on the bottom of a squaresail, designed to strengthen and take the chafe on that part of the sail.—Foot of the perpendicular, in geom., the point where the perpendicular meets the straightline or plane to which it is a right angles.—Mandibular foot, the second trunk-appendage of the dicular, in geom., the point where the perpendicular meets the straight line or plane to which it is at right angles.—Mandibular foot, the second trunk-appendage of the manulins larva of Crustaeea, so called because it develops into one of the mandibles of the adult.—Morton's foot. Same as metatarsalpia.—Off their feet, in printing, said of composed types that are not strictly vertical in a mass, and that receive undue impression on one side only of the face. Each printing-type, however small, rests at its base on two slight projections called feet. When one line or a larger mass of composed type is slightly tilted, the types are off their feet, and impression is unavoidably strong on one side and weak on the other: signify titled, the types are off their feet, and impression is unavoidably strong on one side and weak on the other; when they are truly vertical and rest squarely on both feet, they are on their feet. De l'inne, Mod. Book Composition, p. 260.—Reel foot, a pronounced degree of talipes equinovarus, so called because of the peculiar gait of bearers of such a deformity.—Tabettic foot, the distorted foot seen in some cases of tabes dorsalls.

footage (fut'āj), n. In mining, a piece-work system of paying miners in which they are paid for each running foot of work done.

coot-ball ear, deformity of the external ear an effusion of blood from injury, as in loot-ball.

foot-boat (fút'bōt), n. An old name for a small ferry-boat designed to carry foot-passengers only

foot-bond (fut'bond), n. An electric bond between the butted ends of two trolley-road rails. Hydraulic foot-bond, an electric bond of this kind formed by a copper band or cable attached at each end to solid copper tapered plugs which are forced by a 'hydraulic' compressor into holes drilled in the loot of the two rails.

foot-brails (fut'brālz), n. pl. See *brail. foot-brake (fut'brāk), n. A brake which is applied or released by a lever or treadle operated by the foot.

foot-candle (fut/kan*dl), n. A British unit of illumination equal to 12.2 luxes; the illumination produced by a British standard candle at tance of one foot in a horizontal direction. See *candle-foot and *illumination, 1.

foot-clonus (fút'klo"nus), n. Same as ankleclonus

foot-disk (fût'disk), n. The lower attached end of the body of certain zoantharian polyps, as

foot-drop (fút'drop), n. Dropping of the anterior portion of the foot when the limb is raised from the ground, due to paralysis of the flexor muscles.

footeite (fut'it), n. [Named for A. E. Foote of Philadelphia (died 1895).] A hydrated oxid and

chlorid of copper occurring in deep-blue mono-clinic crystals: found in Arizona. foot-fringe (fut'frinj), n. In gastropods, the fringed or digitate margin of the epipodium.

foot-gland (fut'gland), n. In certain bryozoaus, a collection of granular cells at the bottom of the stalk arranged around a central space communicating with the exterior.

footing, n. 17. In archery: (a) A piece of hard wood or other material placed at the forward end of an arrow to give weight and serve for the attachment of the head; foreshaft. (b) The position of an archer in shooting.

foot-lever (fût'lev"er), n. A treadle; a lever for operating a machine or mechanism by the pressure of the foot.

footling¹, n. 3. One of the strips of board which run longitudinally on top of the frames in the bottom of a boat.

foot-maker (füt'ma"ker), n. In glass-manuf., a workman who makes the feet of dishes, goblets, etc. Wcbb, Indust. Democracy, II. 490.

footman, n.—Banded footman, a small lithoslid moth, Ozonadia unifascia, with lead-colored fore wings crossed by a yellow band and with pink find wings. It is rather common throughout the South Atlantic United States.—Painted footman, Hypoprepia fuscosa, a species with red-and-yellow wings, occurring in the eastern United



Font-cover, Baptistery of St. I Church, Notting Hill, London

States.—Pale footman, Crambidia pallida, a drab-colored species, occurring in the northeastern United States.—Striped footman, Hypoprepia miniata, a species occurring in the eastern United States. It is scarlet in color, with three broad lead-colored longitudinal stripes on the fore wings.—Two-colored footman, Lexis bicolor, a species occurring in Canada and the northern United States. It is slate-colored, with the prothorax, tip of abdomen, and costa of the fore wing yellow.

foot-phenomenon (füt fē-nom e-non), n Same as antibe-clame.

Same as ankle-clonus.

foot-power (fut'pou'er), n. Power applied by the motion and pressure of the foot, as for driving a bicycle or machine.

foot-pump (fut'pump), n. A portable pump intended to be operated by hand, and having

a bracket or stirrup so that it can be held in place by the pressure of the foot.

foot-rill (fut'ril), n. In coal-mining, an entrance to a mine formed by driving a level into a hillside; a dip-road used for bringing

foot-rot, n. 2. A disease of the orange and other eitrous trees, supposed to be due to Fusarium foraminoöptic (fō-ram in-nō-op'tik), a. In Limonis, but also affected by the use of fertilizers and methods of cultivation. Also called

gum-disease.—3. Same as *bottom-rot. foot-scab (fūt'skab), n. Any acarine disease

a press used to compress hay or straw into

bales for shipping.

forager, n. 2. A foraging ant, an ant of the tropical and subtropical genus *Eciton*.

tropical and subtropical genus Eciton.

foramen, n.—Conjugate foramen, an aperture between two apposed bones formed by a notch in each.—
Foramen centrale. Same as foramen of Scenamering.
—Foramen licisivum, the opening between the premaxillary and maxillary, in such a skull as that of a deer: so called because the opening is formed, as it were, by cutting into the premaxilla.—Foramen interosseum, in ornith., the space between the distal ends of the coraeoid and clavicle and the proximal end of the scapula through which passes the great tendon of the wing muscle. Also foramen triosseum.—Foramen of Botal. Same as duetus Botall.—Foramen of Magendle, an opening in the pia over the fourth ventricle of the brain.—Foramen of Morgagni, Same as foramen cæcum (c).—Foramen of Tarini, the uterine opening of the Fallopian tube.—Foramen supracoracoideum. Same as supracoracoid *foramen.—Foramen supracopyriforme, an opening above the pyramidalis nuscle through which the glutcal vessels and superior glutcal nerve emerge from the pelvis.—Foramen triosseum. Same as *foramen interosseum.—Foramen in of Morgagni, the openings of Littré's glands in the spongy portion of the urethra.—Illo-ischiadie foramen, in ornith, the oblong space between the illum and ischium;

the ilio-ischiadic fissure closed posteriorly by the union of the ilium and ischium.—Ischiatic foramen. Same as ilio-ischiadic *foramen.—Orbitomasal foramen, in ornith., a perforation in the anteorbital plate (prefontal) for the passage of the orbitomasal an erve.—Parietal foramen. (c) An opening in the parietal bone, or between the parietal bones of reptiles; the pineal foramen.—Pneumatic foramen, an opening, or perforation for the admission of air, found in various bones of many species of birds, very frequently in the humerus and almost always in the femur.—Repugnatorial foramen. Same as repugnatorial pore.—Supracoracoid foramen, in ornith., a perforation through the distal half of the coracoid; also foramen supracoracoideum.—Supratrochlear foramen, a perforation in the olecannal fossa, immediately above the distal end of the humerus, occurring as an anomaly in man, but constant in some other animals. Also known as olecranon perforation.—Trigeminal foramen, the perforation for the exit of the trigeminal nerve.—Vagus foramen, the perforation of foramen in the hinge-plate of certain telotrematous brachiopods, Athyris, through which it has been supposed the posterior part of the intestine passed.

Foraminiferal limestone, sand. See *limestone, *sand1.

forbesite (forbz'it), n. [Named for David Forbes, an English chemist.] A hydrated arseniate of nickel and cobalt, occurring in grayish-white fibrous crystalline masses: found

foot-scab (fût'skab), n. Any acarine disease of the feet; in particular, the chorioptic scab of sheep. The minute parastese cause an intense tense of sheep. The minute parastese cause an intense tense of sheep. The minute parastese cause an intense tense of sheep. The minute parastese cause an intense tense of sheep. The minute parastese cause an intense tense of the feet; in particular, the chorioptic scab of sheep. The minute parastese cause an intense tense of the feet; in particular, the chorioptic scab of the feet; in particular, the chorioptic scale of nice of the feet; in particular, the chorioptic scale of the feet; in the chorioptic scale of the feet; in the c

horse-power

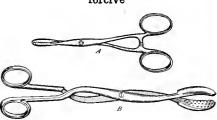
force majeure (fôrs mä-zher'). [F.] Superior force

force-nozle (fors'noz"l), n. A blast-nozle; a nozle through which the exhaust-steam from a locomotive-engine passes to force the draft. force-oiler (fors'oi'ler), n. A device for feeding oil under pressure to bearings; a pressure feed-oiler.

force-pipe (förs'pip), n. A pressure-pipe; the discharge-pipe from a pressure-pump. force-power (förs'pou"er), n. The magnitude

of a force.

of a force, forceps, n.—Axis-traction forceps, an obstetrical forceps with an attachment which enables traction to be made in the line of the pelvic axis.—Bone forceps, a forceps with sharp bills, used for cutting bone.—Epilating forceps, a forceps used for pulling out hairs.—Fixation forceps, a forceps used to hold the eye steady during an operation upon it.—Hemostatic forceps, a forceps used for the compression of an artery to centrol hemorrhage during a surgical operation.—Ligature forceps. (b) A forceps used to grasp and hold an artery while it is being ligated.—Lion forceps, a strong forceps with short scratted blades, used for grasping and crushing bone.—Lithotomy forceps, a forceps used for removing the stone from the bladder in the



Forceps A, hemostatic forceps; B, lithotomy forceps.

operation of lithotomy.— Major forceps, a collection of nerve-fibers passing from the corpus callosum to the occipital lobes.—Minor forceps, a collection of nerve-fibers passing from the corpus callosum to the frontal lobe.—Roller forceps, a forceps having a roller at the extremity of each broadened or fenestrated blade, used to compress the granulations of the lids in trachoma.

forcherite (för sher-it), n. [Named for V. Forcher.] A variety of opal colored orange-yellow by orpiment: found in Styria.

foraminoöptic (fō-ram "i-nō-op'tik), a. In craniom., relating to the foramen magnum and the optic foramen.—Foraminoöptic line, the distance between the basion and the optic foramen.

forbesite (fôrbz'it), n. [Named for David Forbes, an English chemist.] A hydrated arseniate of nickel and cobalt, occurring in grayish-white fibrous crystalline masses: found grayish-white fibrous crystalline masses: found for in the foramen of the foramen.

forcing, n., 1. In horticultural use forcing denotes:

(a) The rearing of plants ontside of, or in sdvance of, their natural seasons, by means of artificial heat and under glass. (b) The process of compelling flowers to appear from bulhs and tuberons parts (as from rhizomes of lily-of-the-valley) by subjecting them directly to an unusually high degree of heat, as when the pots or boxes are placed on hot pipes in a more or less confined space, forcing-hill (fōr'sing-hil), n. A hill of plants

are placed on hot pipes in a more or less confined space, forcing-hill (for sing-hil), n. A hill of plants so prepared as to be forced beyond its season just where the plants grow. Usually the earth is heaped around a box, forming a hollow embankment when the box is removed; then over the area s pane of glass is laid. Sometimes the seeds are planted in the bottom of a depression and the pane is laid over the cavity on the surface of the ground. L. H. Bailey. See **xhand-box*.

forcing-jet (for'sing-jet). n. The jet of steam which comes through the blast-nozle and goes up the stack of a locomotive, thus forcing or inducing the draft; also, the steam jet in an injector for feeding boilers.

forcing-machine (for sing-ma-shēn"), n. A

machine for forcing one piece over another on which it fits tightly. Such machines are used for forcing gears, pulleys, propellers, etc., on or off their shafts, and are operated either by a screw or by hydraulic

forcing-press (för'sing-pres), n. A hydraulic press, of massive construction, for pressing locomotive wheels, armatures, motor-gears, etc., npon shafts or axles where a very tight or horizontal position, and a resistance-head to hold the wheel or other object and sustain it against the powerful pressure of the ram. It is also used to force wheels from the axles or shafts. One type is called a wheel-

forcipiform (fôr-sip'i-fôrm), a. [L. forceps (forcip-), forceps, + forma, form.] Having the form of a forceps.—Forcipiform pedicellaria, in a startish, one of the pedimeulate pedicellaria in which the two hooks cross each other and are attached to the end of the basal plate fartbest from them.

Forcipiger (fôr-sip'i-jer), n. [NL., \langle L. forceps (forcip-), forceps, + gerere, carry.] A genus of butterfly-fishes of the family of Chætodontidæ, having the snout very long with the short jaws at its end. F. longirostris is common in the South Seas.

forcipressure (for'si-presh-ur), n. [For *for-cipipressure, < L. forceps, forceps, + pressura, pressure.] Arrest of hemorrhage from the cut end of a blood-vessel by pressure made by a self-retaining forceps.

Bleeding vessels in the dura may be caught with the hæmostatic forceps; if the bleeding be not checked by such forcipressure, a curved needle threaded with catgut may be carefully passed under the vessels and the ligature then tied.

Buck, Med. Handbook, VII. 877.

forcipulate (fôr-sip'ū-lāt), a. [NL. forcipulatus. < *forcipulus, dim. of forceps, forceps: see forceps.] Shaped like a forceps, as the pedicellariæ of echinoderms.

forcive (fōr'siv), a. and n. [force¹ + -ivc.]

I. a. Of or pertaining to 'force' as distinguished from 'energy.'

To any one who has stood aloof from the polemic between the 'energetic' and the 'forcive' view, it must seem proved that the former has rendered a permanent service to physics.

Science, March 25, 1904, p. 510.

II. n. An imaginary distribution of pressure over a level surface of water, such as to re-place the pressures due to a given series of waves distributed over the same area.

By a suitable synthesis of a series of distributed forcives with their associated surface displacements, the solution was put in a form which lent itself towards the elucidation of several important problems.

Nature. Feb. 16, 1906, p. 383.

ball.

Fore-and-aft motion, rig, road, tackle.

*motion, fore-and-aft sails, *road, *tackle.

fore-and-after (for and af ter), n. 1. A vessel, such as a sloop or schooner, which carries forehead-drop (for'ed-drop), n. In a harness, fore-and-aft sails only.—2. A cocked hat have an ornamental strap which rests against a ing the peaks in front and behind, such as is worn for full dress in the navy.

Where the crown-piece of the bridle.

Fore-awning (för å ning), n. The forecastle for

fore-awning (for'a"ning), n. The forecastle awning; the awning which extends from the

foremast forward.

forebay, u. 2. A recess at the entrance of a eanal or hydraulic device. Also called bay.— 3. The sick-bay; also, an old name for the spar-deck galley on a merchant vessel. fore-bowline (for bo'' lin), n. The bowline be-

longing to the bowline-brindle gear on the leech of the fore-course.

fore-cabin (for'kab"in), n. A cabin situated

in the forward part of a vessel.

fore-caddie (for kad-i), n. In golf, a person employed to go in advance of the players to watch where their balls alight. [Scotch.]

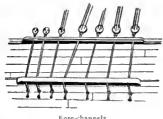
forecast, n. 3. Specifically, in meteor., a statement of the expected weather. Official daily weather forecasts were first published by Fitzweather forecasts were first published by Fitz-roy in England in 1861.—Forecast district. See *district.—Long-range forecast, in meteor., a state-ment of the weather to be expected at some quite distant date, such as a week, a month, or a year.—Seasonal forecast, in meteor., a statement of the general average character of the weather during an approaching season, especially as to rainfall, temperature, or wind; the pre-diction of climatological averages rather than of detailed weather items. Seasonal forecasts of the monsoon rains have been officially published in India annually since 1885.

forecaster, n.—Weather forecaster, one who is skilled in meteorological science, and is regularly and officially engaged in forecasting the weather from the data supplied by meteorological observing-stations.

forecastle-deck (för'kås-l-dek), n. See *deck, 2. forecastle-head (för'kås-l-hed), n. The forward part of the forecastle-deck, or topgallantforecastle near the knight-heads.

fore-chains (for ehanz), n. pl. Strong, narrow plates of iron bolted to the ship's timbers plates of from boffed to the ship's timbers through the side, abreast the foremast. To the apper ends of these plates deadeyes are secured by an from strap, and through these deadeyes are reeved the lanyards of the lower rigging. The ship's channels are also called chains, as fore-chains, main-chains, and mizzen-chains. On some vessels the upper ends of the chain-plates carry turnbuckles instead of deadeyes for setting up the lower rigging.

platformsor projections on the outside of a narrow vessel, situated abreast of the respective masts and designed to give a great-



er spread to the lower rigging by having the upper part of the chain-plates secured to the

forefather's-cup (för'fä-Thèrz-kup), n. The pitcher-plant, Sarracenia purpurea, forefeel (för'fēl), n. In psychol., an anticipatory feeling or anticipatory taetnal perception; a taetual image associatively aroused by the presentation of a visual, auditory, etc., stimu-

The sight of Ice yields a forefeel of Its coldness, the smell of baked means a foretaste of their savor.

Encyc. Brit., XXXII. 59.

Foresail, n—Balloon-foresail, a large sail of light canvas carried in place of the regular fore-staysail, that is, the first head-sail forward of the foremast.

forefeeling (for-fe'ling), n. A presentiment; a foreboding.

A strong forefeeling that much of my destined life in this world was yet to come. Kinglake, Eothen, p. 309.

fore-glow (for'glo), n. A glow seen in the east before sunrise, corresponding to the after-glow seen in the western sky after sunset.

handed player when it is on the left side.

fore-hatch (for hach), n. The hatch next abaft the foremast on sailing-vessels, but generally forward of the foremast on steamers.

horse's forehead. The upper end is attached fore-shrouds (for'shroudz), u. pl. The shrouds to the crown-piece of the bridle.

foreign-hearted (for'an-har"ted), a. Affected foreign sympathies, ideas, or ideals in literature and art; foreign at heart.

The classical school [in England] could not find encouragement for the ideals they admired, and were forced to seek the realization of their hopes... in sumy Italy and other distant lands,... and when they returned they were foreign-heurted.

Patten, Development Eng. Thought, p. 351.

fore-intestine (for'in-tes"tin), n. The first of the three primary divisions of the alimentary eanal of an insect; the divisions indicated in the embryo; the stomodæum of the embryo. It includes the mouth and pharynx, the pumping-apparatus of haustellate orders, the esophagus, the crop, the sucking-stomach and the proventriculus. A. S. Packard, Text-book of Entom., p. 299.

fore-kidney(för'kid "ni), n. Same as proncph-

foreland, n. 3. The portion of the shore usually left outside of a protecting dike or embankment for the purpose of breaking the force of the waves.—4. In phys. geog., low alluvial land added to the coast of the mainland by the action of the sea or of streams. Geog. Jour. (R. G. S.), 1X. 538.—Foreland grits. See ★grit2. fore-leech (for'lech), n. The luff of a sail; that part of a fore-and-aft sail which is against the

mast. Also written fore-leach. [Eng.] forellenstein (fö-rel'en-stin), n. [G. forelle, trout, + stein, stone.] A phaneroerystalline rock composed of lime-soda feldspar and olivin with a little pyroxene, the olivin sometimes changed to serpentine. The dark minerals changed to serpentine. appear as spots in the feldspar and suggest the

spotting of trout.

forelope (för'löp), r.i. To act as a fore-looper.

foremast-hand (för' mast-hand), n. A man shipped before the mast; a forecastleman.

foremast-officer (för'mast-of''i-ser), n. An old designation of the boutswain, earpenter, and sailmaker on a merchantman.

fore-channels (för ehan elz), n. pl. Smail fore-milk (för milk), n. Same as colostrum, 1. horizontal foren, forener. Simplified spellings of foreign,

fore-note (for'not), n. In music, same as approg-

giatura or *vorschlag. fore-orlop (för'ôr"lop), n. The forward part of the orlop-deck; the space forward of the hold on the orlop-deck.

forepaled (for pal), r. t. and i.; pret. and pp. forepaled, ppr. forepaling. 1. To fence off. Hence—2. In mining, to prevent the caving of an excavation by the use of shores or planks and braces so placed as to support the walls; shore; also, to drive the ends of the shoringplanks ahead of the end of the exeavation, in very loose material, to hold it in place.

outside rim of the channel.

fore-course (tōr'kōrs), n. The foresail of a square-rigged vessel, being that sail which is bent to the foreyard.

forefather's-cup (tōr'fā-Thērz-kup), n. The pitcher-plant, Sarracenia purpurea.

forefeel (tōr'fēl), n. In psychol., an anticipation of the keel.

forefeel (tōr'fēl), n. In psychol., an anticipation of the keel.

foresail of a fore-purpose (tōr'pēr'pos), n. Previous design; set purpose. Southey. Doctor, lii.

fore-rake (tōr'rāk), n. That part of a ship's head which projects beyond or overhangs the foresail of the keel.

fore-rigging (for'rig"ing), n. The shrouds, and their ratlines, of the fore lower mast.

fore-royal (for 'roi 'al), n. The sail next above the topgallantsail on the foremast.

fore-set (for'set), a. In geol., noting certain beds of a delta-deposit formed chiefly from heavier sediments rolled down a stream along the bottom and dumped at the steeper slope. Fore-set heds are those of greatest inclination and variability in a delta, often characterized by cross-hedding; they are underlain by the bottom-set and overlain by the top-set beds. See *kbed1. Chamberlin and Salisbury, Gcol., I. 191.

foregon, p. a. A simplified spelling of fore-Fore-sheet horse, traveler. See *horse1, $\star traveler.$

Fordilla (for-dil'ā), n. [NL., named for S. fore-guy (for'gī), n. A rope leading forward W. Ford, a paleoniologist.] A primitive Cambrian genus of bivalved shells believed to be a pelecypod mollusk. forel (for), interj. In golf, a warning ery ('look out, before!') uttered to attract the attention of a person who is liable to be struck by the

breakwater or dike, built to diminish and dissipate the force of waves before they strike the

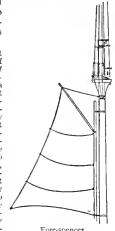
breakwater proper. fore-shoulders (för'shöl/derz), n. pl. The projeeting parts of a vessel's bows in the vicinity of the water-line.

fore-spencer (for'spen"ser), n. The fore-andaft sail which sets on a small extra mast abaft the foremast. This sail

has a gaff, but no boom, and is sometimes referred to as the fore-trysail.

forest, n., 1. A forest judged by the character of the stand may be timberland or woodland. These conor woodland. These constitute the two grent classes of forest between which it is possible to draw a practical but not an absolute distinction. Timberland may be broadly defined as that kind of forest which con-tains in commercial quantity trees of sufficient size and of the required kind to furnish sawlogs, pulpwood, ties, poles, or wood for simi-lar uses; woodland as forest lar uses; rocolland as forest which contains trees fit for fire-wood or fencing, but no trees, or very few, which are suitable for the uses enumerated above. A timber tract is a body of timber-land, usually of large area.

A wood-lot is a forest of small area in which the wood is used mainly for fuel, fencing, and other farm purposes.



A wood-lot is a forest of small area in which the wood is used mainly for fuel, fencing, and other farm purposes.

4. In plytogeog., specifically, a closed woodland, that is, one in which the crowns of the trees touch.—Absolute forestland or soil. See *absolute.—Communal forest. Same as town *forest.—Composite forest, a forest in which both seedlings and sprouts occur in considerable number.—Crown forest.bed. See forest-bed group, under forest.—Crown forest, federal forest. See national *forest.—Federal forest seerve. See national *forest.—Federal forest reserve. See national forest *reserve.—Forest army-worm, cover, engineer, etc.—See ***emy-worm, etc.—Forest floor, the deposit of vegetable matter on the ground in a forest. Litter includes the npuce but slightly decomposed portion of the forest floor; humus the lower portion, in which decomposition is well advanced.—Forest influences, the influences exerted by forests on rainful, temperature, wind, evaporation, humidity, runof, dust, water-supply, and other climatological matters. Forest influences are determined by means of observing stations placed within and without the forest. In general, in comparison with equal areas of prairie, forests tend to cool the air, to add less moisture by evaporation, to retard the run-off, to diminish erosions and floods, to conserve the rainful and snowfall without altering the average run-off, to produce less dust and injurious germs, to prevent the water-table within the forest from sinking lower down, and to keep the soil from freezing.—Forests have no particular influence on the amount of rainfall.—Forest service, that branch of the government service, in the Department of Agriculture, which is charged with the administration of the national forest reserves, and with forest investigations and cooperative forest work throughout the University of the summan of the forest of the same age and composition, grown under similar conditions.—Keeper of the forest, in Eng. forest he highest average which has been found in a given lo 4. In phytogeog., specifically, a closed woodland, that is, one in which the crowns of the trees

rich in terrestrial herbs, especially grasses.—Thorn forest, a tropical type of woodland, like the savanna forest in foliage and average height, but more verophilous, very rich in nuderwood and slender-stemmed liams, poor in terrestrial herbs, especially grasses, usually without epiphytes, and abounding in thorny plants.—Town forest, a forest which is the property of a city, town, or village. Also called communal forest.

fore-stage (for staj), n. The fighting-platform or forecastle which was built on the forward neart of the upper deek of ancient vessels.

part of the upper deck of ancient vessels.

orestation (for-es-tā'shon), u. The planting

forestation (for-es-tā'shon), u.

or establishment of forests; afforestation. Forestay tackle. See *tackle. fore-staysail (för'stä säl or -sl), n. The first headsail forward of the foremast, which sets on the forestay.

forester, n. 3. (a) One who is versed in forestry. (b) One who practises forestry as a profession.—7. [cap.] A member of any one of several benevolent and fraternal societies. of several benevolent and fraternal societies, (a) A member of the Ancient Order of Foresters, founded in Yorkshire, England, in 1745, and introduced into the United States in 1832. It has 'courts' or lodges in 36 countries, a membership of over a million, and disburses per annum over \$5,000,000. (b) A member of the Independent Order of Foresters, founded in Newark, New Jersey, in 1874, with 'courts' or lodges in many countries. (c) A member of the Foresters of America, originally part of the Ancient Order of Foresters, but separated from it in 1880.

8. A pony raised in the New Forest. [Local, Eng.]—Langton's forester, a common moth. Alumia langtonii, occurring in Canada, the northern United States, and California.

forest-grown (for est-gron), a. Grown in the forest from self-sown seed.

forest from self-sown seed.

forestian (fo-res'ti-an), a. [ML. foresta, forest.] Of or pertaining to forests.—Forestian epoch, in gcol., a subdivision of the Pleistocene or glacial series in northern Europe. It comprises the Lower Forestian, or fourth interglacial epoch (Ancyclus beds of the Baltic area and Littorina clays of Scandinavia), lying between the Mecklenburgian or fourth glacial epoch and the Lower Turbarian or fifth glacial epoch; and the Upper Forestian, or fifth interglacial epoch, indicated by a buried forest between the deposits of the fifth and sixth glacial epochs.

fore-stomach (för'stum/ak) a A dilutation

forestry, n.—Bureau of Forestry. See *bureau. forest-survey (for est-ser-va"), n. An inspection or survey of woodlands or forests to ascertion or survey of woodlands or forests to ascertain the kinds, qualities, and number of trees on a given area. It includes also the study and examination of the commercial value of the trees as lumber and the value of the land in relation to lumber-produc-

forest-wind (for est-wind), n. 1. A wind in a forest.—2. In forestry, the wind which blows gently from an adjacent forest after it has been cooled by noethrnal radiation from the snrface of the leaves.

fore-swifter (for'swift"ter), n. The forward

shroud of the fore-rigging. fore-tacks (för'taks), n, pl. The tacks of the fore-course or foresail.

4. Same as forelock2. foretop, n.

foretopgallantmast (for 'top-gal" ant or -to-The mast next above the gal'ant-mast), n. foretopmast.

foretopgallantsail (för'top-gal"ant or -to-gal' ant-sal or -sl), n. The squaresail next above ant-sal or -sl), n. The squaresall next above the topsall on the foremast of a square-rigged

foretopgallantyard (for top-gal ant or -to- fork-head, gal ant-yard), n. The yard next above the which is sp gal'ant-yard), n. The yard topsail-yard on the foremast.

fore-topsail (for'top-sal or -sl), n. The squaresail on the foremast next above the course or

fore-trysail (for'tri-sal or -sl), n. Same as *fore-speneer

Forfars (for fars), n. [Named from Forfar in Seotland.] Coarse, heavy, unbleached linen fabries, made in Forfarshire, Seotland.

forfex, n. 2. A pair of anal organs which open or shut transversely and cross each other, as in

hammer for forging large pieces which is worked by machinery; a steam-hammer or

power-driven hammer. forge-limber (forj'lim"ber), n. The limber of a forge-wagon, as distinguished from the guncarriage limber or the eaisson-limber; part of a field-battery

forget2, forgett (fôr-get'), n. In glove-making,

forget², lorgett (10r-get), n. In glott-making, same as fourchette, 2.

forge-test (fōrj'test), n. A bending test applied to wrought-iron and steel plates or bars. Specimens are bent both hot and cold, and also with and across the grain; the angles to which they are to be bent without fracture, and the radius about which they must be bent, depend in each case on the use for which they are intended and the thickness of the plate.

are intended and the thickness of the plate.

forget-me-not, n.— White forget-me-not, any species of several genera of the borage family (Playiobothrys, Oreocarya, Cryptanthe, etc.), related to and somewhat resembling Myosotis, but bearing white thowers. These plants, forming many species, are natives of western North America and Mexico. Some or all are included under the names *nievitas and *nopcorn-flower (which see).—Wild forget-me-not, the bluet or innocence, Houstonia cærulea.—Yellow forget-me-not, in California, any plant of the boraginaceous genus Amsinckia. They are very rough hairy herbs with yellow flowers shaped like those of the forget-me-not. A. spectabilis, common southward in the State, has the flowers half an inch wide. Called also woolly-breeches.

forging? (for inng), n. | forge3, v., + -inq1, |

forging² (fōr'jing), n. [forge³, v., + -ing¹.]

A defect in a horse's gait consisting in striking the heel of the front shoe with the toe of the hind shoe, which produces a clicking sound. It is not considered so serious a fault as over-

reaching or grabbing.

forgiv, v. A simplified spelling of forgive.

forhed, n. A simplified spelling of forehead. epochs.

fore-stomach (fōr'stum"ak), n. A dilatation of the esophagus just above the stomach.

forest-rat (for'est-rat), n. See *rat¹.

forestry, n.—Bureau of Forestry. See *bureau.

forest-survey (for'est-ser-vā"), n. An inspection or survey of woodlands or forests to a seer-

chine fitted with fast and loose pulleys. By moving the bar which carries the pins endwise the belt can be shifted. (b) A piece of steel fitting into the socket or chuck on a lathe, used for driving the piece to be turned. -9. A position, in a game of chess, where two pieces are attacked at the same time by

a pawn.—Electric fork, in acoustics, a tuning-fork which is actuated by means of an electromagnet.—Giant fork, in psychophys., a large tuning-fork, with a range of from 16 to 25 vibrations per second, used for determining the lower limit of tonal hearing.—Self-interrunting fork Same mining the lower limit of tonal hearing.—Self-interrupting fork. Same as electric *fork.—Silver-fork deformity. See *deformity. fork, v. t. 4. In ehess, to attack

(two hostile pieces) with a pawn. forked-leaf (forkt'lef), n. In the southern United States, the Turkey oak, Quercus Catesbæi: so called from the shape of the

n. 2. A rod-end which is split or divided to form an opening for the reception of the end of another rod, the two being then fastened by a pin or

fork-tined (fôrk'tīnd), a. Noting antlers that lack the large, more or less depressed browtine found in the wapiti and European red deer of the genus Cervus: contrasted with *brow-tined. The South American swamp deer, Blastoeerus paludosus, and the mule-deer, Odocoileus maerotis, have typical fork-tined

the male of Raphidia. Kirby and Spence.

forficiform (för-fis'i-förm), a. [L. forfex (forficiform (för-fis'i-förm), a. [L. forfex (forficiform) fic-), seissors, + forma, form.] Having the form of seissors.—Forficiform pedicellariæ, in asteroids, one of the pediunenlate pedicellariæ in which the two hooks are attached to the end of the basal plate nearest to them.

forficulid (för-fik'ū-lid), n. and a. I. n. A member of the Forficulidæ.

II. a. Of or belonging to the Forficulidæ or earwig family.

forge¹, n.—Double-blast forge, a forge for blacksmiths nee having two twyers or openings to admit the blast below the bed of fuel. The heat is less locally intense, and a larger mass may be uniformly heated for hammer treatment.

forge³, r. i. [Prob. a particular nse of forge¹,

isometric system) correspond to those of the octahedron (holosymmetric class). In such cases the complementary forms (which may he enantiomorphous) are often distinguished as positive and negative, plus and minus, or direct and inverse.

25. A flower-bnd of the cotton-plant.

Forms appearing in May bloomed in 21 to 32 days, U. S. Dept. Agr., The Cotton Plant, 1896, p. 263.

Biologic form. See *hologic.—Center of form. See *center!.—Form factor. See *hologic.—Porms of address. Such forms are governed principally by social and official customs rather than the search of t



From Algert, N. J. Bank Food and Excellent Division. A process of the process of

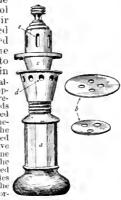
they are in condition for use. II. intrans. 3. In elect., to convert the active material of the positive plate of a storage-cell into lead monoxid or that of the negative plate into spongy lead, either by the action of the charging current or by direct chemical means.

formacoll (fôr'ma-kol), n. [forma(ldehyde) + Gr. κόλλα, glue.] Same as formaldehyde *gelatin.

formalinize(fôr'ma-lin-ize), v. t.; pret. and pp. formalinized, ppr. formalinizing. [formalin + formalinized]

surface of the plates of a secondary or storage-

cell) by repeated charge and discharge, so that



methyl alcoholic solutions of formaldehyde.

containing up to 40 per cent. of the latter.

formalina (for-ma-li'nä), n. [NL.] An iodine
derivative of formaldehyde. It has been used for inhalation in cases of consumption. Also ealled igazol

Barringtonia formation. See *Barringtonia.—Bonaventure formation, a name given hy Logan to a heavy sheet of red conglomerates and sandstones which unconformably overlie the Devonian and Silurian limestones of Gaspé, Canada, and are regarded by him as wholly of early Carboniferous age. It is named from the island of Bonaventure, which is composed wholly of these rocks. Later writers have assigned the lower portion of these beds, which attain a thickness of several thousand feet, to the Upper Devonian; but they are all deposits of lacustrine or estuarine origin, and are now regarded as representing one of the Old Rcd lakes which were numerous in northern latitudes during Devonian and carly Carboniferous times.—Boone formation, in geol., a subdivision of the Carboniferous in Arkansas, regarded as equivalent to the Burlington and Lower Keokuk groups. It attains a thickness of 250 feet and is underlain by the Eureka shale and overlain by the Wyman sandstone.—Burrum formation, in geol. the lower division of the Jurassic formation in queensland, Australia.—Cape May formation, strata formed during a portion of the Pleistocene period in New Jersey.—Climatic formation, a plant formation the character of whose vegetation is governed by atmospheric precipitation. According to Schimper, the author of the distinction, climatic formations fall into three types—woodland, grass-land, and desert. Opposed to edophic *Cormation, and alternatively termed district formation.—Closed formation, a pant formation in which the ground is completely occupied, as in a meadow.—Columbia formation, in geol., a subdivision of the Quaternary formation of the Atlantic coastal plain and the Mississippi valley, consisting of a series of subestuarine and subunarine deltas and associated delta-deposits. It is characterized by wide-spread stratified deposits and associated terraces which are newer than the Lafayette formation.—Clustural plant formation, in polylogeog, an aggregation, in a given region, of cultivation, are here heluded.

—Dakota format

at bickness of 450 feet, and is underlain by the Bonstout formation lite lower part is characterized by Chometer perspectation—Edaphie formation, in phylopeny, a plant formation have excetation of which is chiefly determined by elaphic influences (see **edaphic*)—Heat of formation, is powed, a strained by elaphic influences (see **edaphic*)—Heat of formation, is powed, a strained by elaphic influences (see **edaphic*)—Heat of formation, is powed, a strained by elaphic influences (see **edaphic*)—Heat of formation, is powed, a strained of the formation of the fo

the base of the Cretaceous system along the inner edge of the middle Atlantic coastal plain region, and attaining its greatest development in Maryland. The deposits are almost wholly of fresh-water and estunatine origin, and portions contain an abundant flora of early Cretaceous expression, together with some brackish-water mollusks, fishes, plesiosaurs, and dinosaurs. The series has been divided into the lower Patuxent and Arundel stages which may be of late Jurassie age, and the upper Patapseo and Raritan stages which are of Lower Cretaceous age.—Rancocas formation, in geod., a division of the Upper Cretaceous in New Jersey lying above the Monmouth and below the Manasquan divisions, and consisting chiefly of greensand marls earrying many fossils. ratapaco and Karitan stages which are of Lower Cretaeeous age.—Rancocas formation, in geol., a division of
the Upper Cretaceous in New Jersey lying above the
Monmouth and below the Manasquan divisions, and consisting chiefly of greensand marls carrying many fossils.
—Raritan formation, in geol., a subdivision of the
Lower Cretaceous (Potomac group) of the Atlantic coast
region extending from New Jersey into Maryland and
attaining a thickness of 500 feet. It is underlain by the
Patapseo formation and overlain by the Matawan formation, and is characterized in New Jersey by plant remains
and a few brackish-water molluscan shells.—Salt formation, a series of related strata containing beds of rock
salt or brine.—Santa Cruz formation, in geol., a
division of the Tertiary series, in southern South
America lying above the Patagonian and remarkable
for the profusion in number and variety of its mammalian remains which represent a fauna of austral
type strongly contrasted with contemporary faunas of
northern latitudes. It is regarded as of Miocene age.
—Soudan formation, in geol., a series of fragmental
sediments, jaspers, and iron ores of the Archean cra,
in the Vermilion iron range of Minnesota.—Star formation, in geol., a division of the Carboniferous
linestone in Australia.—Timber Creek formation,
in geol., a series of sandstones and limestones at the
hase of the Upper Cretaceous in Texas.—Trinity formation, in geol., the lower division of the Comanche
series of the Texan Lower Cretaceous series, comprising
the Travis Peak, Glenrose, and Palway beds. The formation consists of conglomerates, sands, and limestones,
with abundant molluscan fossils.—Tularosa formation,
in geol., a series of sands marls containing fresh-water
shells of Pliocene age, overlying the Tertiary Otero marls
in southeastern New Mexico.—Tuscaloosa formation,
in geol., a series of sondy marls containing fresh-water
shells of Pliocene age capping the Tertiary Otero marls
in southeastern New Mexico. —Tuscaloosa formation,
in geol., a erous period, occurring near Aspen, Colorado

formatol (fôr'ma-tōl), n. [form(aldehyde) + -ate¹ + -ol.] A disinfecting and antiseptic dusting-powder containing formaldehyde.

formatore (fôr-mā-tō're), n.; pl. formatori (-rē). [lt., a former.] One who models in

wax or plaster.

When found, one side of the skull and some fragments of limb-bones were all that was exposed; but the skilful removal of the matrix by Mr. J. Hall, assistant formatore in the Museum, has revealed most of the skull, the upper surface of the pelvis, and the femur.

Proc. Zool. Soc. London, 1899, p. 776.

formatory (fôr 'mā - tō-ri), a. [NL. *formatorius, (L. formarc, form: see form, v.] Tending

or serving to form. Ruskin. formene (fôr mēn), n. [, [form (ic) + -ene.]

Same as methane.

former², n., 2. (b) One of a number of appliances and machines used in bending and shaping sheet-metal into tubes, cylinders, shaping sheet-metal into tubes, cylinders, boxes, and other forms. For making cylindrical blanks for round vessels and pipes, the machines employ long bending-rolls in groups of three, the sheet-metal being hent to the right diameter by the size and adjustment of the rolls. Small machines using two short rolls having irregular faces are used in forming blanks for pepper-boxes, candlesticks, and other small cylindrical vessels. Forming-machines for making square or triangular blanks for boxes and pipes are properly sheet-metal bending-machines. Wire-forming machines, used in making wire rings, handles, and bails, all use rolls or sections of cylinders round which the wire is bent to give it the proper shape. r shape

The templet used for the cutting of gearteeth; the guide used for giving desired motion to the cutter when forming or cutting irregularly shaped pieces in a profiling-machine. -4. In elect., a frame upon which the coils of certain types of armatures and transformers certain types of armatures and transformers are wound.—Line-former, two concentric strips of brass leads, used by job-printers to keep in proper position lines of type arranged for a curve.—Molding-former, an appliance for reproducing the exact form of any molding or irregular surface. It consists of a large number of thin metal strips inclosed in a frame. Placed over the molding, or horizontally against it, the outer ends conform to the surface on which they rest and reproduce its form. A binding-serew holds the strips in place when removed from the molding.—Silp-roll former, a former in which one of the rolls can be released from the machine for convenience in slipping the thished blanks off the end of the roll.—Square-pan former, a tinman's stake for bending the edges of tin-plate in making baking-pans, etc.

resembling an ants' nest or formicary. Annals and Mag. Nat. Hist., Oct., 1903, p. 427.

formicary, n. II. a. Of or pertaining to ants or an ant-bill or community: as, formicary routine. The Atlantic. Feb., 1892, p. 180.

formicate (fôr'mi-kāt), v. i.; pret. and pp. formicated, ppr. formicating. [L. formicare, swarm as ants, \(\lambda formica, an ant. \right] To swarm \(\text{(in the manner of ants)} \). Lowell.

formicide 2 \(n \). "formicide for "formicicide."

formicide², n. [NL. *formicida for *formicicida, \(formica, \text{ ant, } + c\tilde{c}dcre, \text{ kill.}] \text{ One who or } \) that which kills ants; a substance destructive to ants.

In the coffee regions the damage done by them is so serious that the Brazilian Government at one time offered a large premium for a successful formicida or ant exter-

I'an Hise, U. S. Geol. Surv. Monographs, XLVII. 456. formicivorous (for-mi-siv'ō-rus), a. [L. for-rare. devour.] Feeding on

mica, ant, + vorare, devour.] Feeding on ants: a term applied to certain birds and mam-mals such as the flickers and ant-eaters.

ants: a term applied to certain birds and mammals such as the flickers and ant-eaters.

formin (fôr'min), n. Same as *urotropin,

forming-machine, n., 2. (b) In hat-making,
a felt-forming machine. It is the second machine
used in the process of hat making and follows the blowing-machine. It consists of an air-tight chamber having
an air-inlet at the top and an air-outlet at the bottom.

When ready for use a hollow come or form of perforated
metal is placed in the chamber in such a position that it
covers the outlet, so that when an air-suction or exhaust
is started all the air must be drawn through the perforations of the cone. When the chamber is closed and the
exhaust started, a blast, bearing a cloud of loose hair
from the blowing-machine, is turned on and the floating
hair gathers in a film on the former, being pressed down by
the perforations. When this film is sufficiently thick, the
blast and exhaust are cut off, the chamber is opened,
and the former is removed and plunged into water, when
the film readily slips off in the shape of a felt cone the
exact shape of the former and ready for the next process
of working and matting together to form a felt hatbody. See blowing-machine.— Lock-forming machine,
a machine for making the book or lock on parallel edges
of the blanks used in making the hook or lock on parallel edges
of the blanks used in making the hook or lock on parallel edges
of the blanks used in making the hook or lock on parallel edges
of the blanks used in making the hook or lock on parallel edges
of the blanks used in making the hook or lock on parallel edges
of the blanks used in making the hook or lock on parallel edges
of the blanks used in making the fook or lock on parallel edges
of the blanks used in making the fook or lock on parallel edges
of the blanks used in making the fook or lock on parallel edges
of the blanks used in making the fook or lock on parallel edges
of the blanks used in making the fook or lock on parallel edges
of the blanks used in making the fook or lock on par

forming-rolls (fôr'ming-rols), n. The rolls used in a forming-machine; also, the machine

forming-tool (fôr'ming-töl), n. In machine-shop practice, a shaped cutter used in a lathe to give a special shape or form to a piece of

form-maker (fôrm'mā/ker), n. One who works at a brake, in a cracker factory, forming the dough into sheets to be run on the cuttingmachine.

formoform (fôr'mō-fôrm), n. [form(aldehydc) + form(ic).] A dusting-powder consisting of

form(ie).] A dusting-powder consisting of starch, zine oxid, thymol, and formaldehyde. formol (fôr'möl), n. Same as *formalin. formopyrin (fôr-mō-pi'rin), n. [form(aldehyde) + (anti)pyrin.] A white crystalline compound obtained by the action of formaldehyde on antipyrin. It is antipyretic and antipyrin. tiseptic.

formose (fôr'mōs), n. [form(aldehyde) + -ose.]
A mixture of at least two substances formed by the polymerization of formaldehyde under the influence of calcium oxid. It contains a

sugar, $C_6H_{12}O_6$.

form-quality (fôrm'kwol'i-ti), n. In psychol., that which gives to a group of elementary mental processes a certain perceptual or idea-tional form, or indicates the specific grouparrangement: regarded by certain authors as a positive ideational content, appearing in consciousness together with such ideational complexes as are composed of separable ele-ments, but referred by others to the laws of association and the selective activity of atten-The term was introduced by C. von Ehrenfels in 1890.

In a very great variety of mental complexes, over and above the elements into which the complex falls, there remains, he insists, a mental factor which is a necessary and characteristic feature of the complex,—something which may remain unchanged even though all the elements be altered. This new factor, this 'positive ideational content,' is the form-quality.

**Amer. Jour. Psychol., X111. 276.

formula, n.—Cippoletti's, D'Arcy's, Francis's, etc., formula, various algebraic formulæ devised by the

anthors whose names are given, to express the quantity of flow of water in terms of length, depth, etc., in a measuring-device. — Constitutional or structural formula, a formula expressing not only the kind and number of atoms in the molecules of any substance, but also their arrangement or order of attachment to each other. See graphic formula.—Descartes's formula, in optics, the trigonometrical statement of the relation between the anglea of incidence (i) and of refraction (r), viz.: $\frac{\sin i}{\sin r} = n$, where n is the index of refraction. This is known as Snell's law, but the statement of it in the

Is known as $Snell's\ law$, but the statement of it in the above form is attributed to Descartes.—Dimensional formula, an algebraic expression indicating the manner in which the three fundamental quantities of any system of measurements—usually length, mass, and time—enter into any derived physical quantity. Thus the dimensional formula of a force is LMT^{-2} .—Euler's formula. (b) In geom., F + S = E + 2. In any convex polyhedron the number of faces increased by the number of summits exceeds by two the number of edges.—Fechner's formula, Fechner's fundamental formula, in psy-backway the formula dS = dR where S stands for

 $E(t_1-t_2)=b\left(t_1-t_2\right)+c\left(t_1^2-t_2^2\right)$, where E is the electromotive force, t_1 and t_2 are temperatures of the junctions, and b and c are constants which depend upon the metals employed.—Formula of Stefan. See Stefan's *law.—Fourier-Bessel formula, a fornula expressing the algebraic ann of a series of sinea and cosinea of successive multiples of a unit angle. The coefficients and angles may be so adjusted that the sum total shall represent the observed variations of any natural phenomenon. It serves as an interpolation formula if the observed quantities are not governed by any known law, but as a serial development if the natural law is known.—Fresnel's formula. See reflection *equations.—Galton's formula, a formula of natality (which see) devised by Francis Galton.

If we denote the paternal age by p, the maternal by p,

If we denote the paternal age by p, the maternal by m, and the degree of natality by n, the formula is $\begin{array}{l} m+p+n=91 \\ n=9t \\ 1-(m+p); \end{array}$

$$m + p + n = 914$$

 $n = 914 - (m + p)$:

that Is to say, the natality can with satisfactory reliability be estimated to be equal to the difference between the age of both parents taken together and the number 911.

Philos. Trans. Roy. Soc. (London), 1895, ser. B, p. 847.

Garrod's formula. See muscle *formula.—Green's formula, an equation for the distribution of magnetism in a cylinder acted upon by a uniform external force parallel to its axis. It is

$$\lambda = \pi k X pa \frac{\frac{px}{a} - \frac{px}{a}}{\frac{pl}{e^{\frac{a}{a}} + e^{-\frac{pl}{a}}}},$$

where λ is the linear density of free magnetism at a distance x from the middle of the cylinder, whose radius is a and length 21, k is the coefficient of magnetization, X the magnetizing force, and p a constant.—Heron's

 $\Delta = \sqrt[4]{s(s-a)(s-b)(s-c)}$

where $s=\frac{1}{2}$ (a + b + c), and $\Delta\equiv$ area of any triangle.—Holman's formula, the equation,

$$\sum_{0}^{t} e = mt^{n}$$
,

which expresses the relation between the electromotive force of a thermo-element and the temperature of the hot junction. In this formula e is the electromotive force for a difference of temperature of 1° C., and t the temperature to be measured, and m and n are constants. -Hypsometric formula, the formula $II = \frac{B}{B} \log \frac{B}{B}$

where B is the pressure (in centimeters of mercury) and S the density (referred to mercury) of the air at the earth's aurface; H centimeters the height, and y the atmospheric pressure at the elevation Ii.—Lambert's formula, a formula for obtaining the mean wind direction from a table of observed directions, namely,

tan
$$\phi$$
 = $\frac{E - W + (NE + SE - SW - NW) \cos 45^{\circ}}{N - S + (NE + NW - SE - SW) \cos 45^{\circ}}$

tan \$\phi = \footnote{N} \ N - S + (NE + NW - SE - SW) \cos 45''\$

where \$\phi\$ is the angle between the north and the mean wind direction measured round by east.—

Le Chatelier's formula. See \$Le Chatelier's *k_nw\$
of radiation.—Moseley's formula, in naval arch., an
expression for the dynamical stability or the work done in inclining a vessel to a given angle. It considers the immersed and the emerged wedges of equal volume formed by the load-water planea in the upright and inclined positions and the distances of their centers of volume from the inclined water-plane. The product of the sum of these distances by the ratio of the volume of a wedge to the total volume of the under-water hull is diminished by the product of the versed sine of the angle of inclination and the distance between the center of gravity and the center of buoyancy in the upright position. The resultant quantity multiplied by the displacement or weight of the vessel la the work done in inclining the vessel to the given angle.

—Muscle formula, a plan devised by A. H. Garrod for expressing by letters and symbola the presence or absence of certain leg-muscles used by him in classifying birds. The letters A B X Y represented respectively the femorocaudal, accessory femorocaudal, semitendinosus, and accessory semitendinosus, while + indicated the presence

and — the absence of the ambiena. For example, A B X + showed that the first three muscles and the ambiens were present.—Nerve formula, a method of noting the arrangement of the spinal nerves, especially in the lower vertebrates, such as fishes, where some of the nerves of the pectoral and pelvic girdles have been fused, thus lessening their apparent number.—Neumann's formula, see reflection *equations.—Phalangeal formula, a method of expressing the number of joints or phalanges in the digits of either the fore foot or hind foot, the enumeration being from the innermost digit outward.

The shalangeal terms of \$2.2, 4.5, 4.

The phalangeal formula is 2, 3, 4, 5, 4.

Osborn, The Reptilian Subclasses Diapsida Poisson's formula, land Synapsida.

$$\frac{\partial^2 V}{\partial x^2} + \frac{\partial^2 V}{\partial y^2} + \frac{\partial^2 V}{\partial z^2} = \nabla^2 V = \Delta^2 V = 4\pi\rho,$$

where ρ is a function of x, y, z, the coordinates of a point in space, and V may denote temperature, or concentration of a solution, or electric and magnetic potential, or the Newtonian potential due to an attracting mass, etc. — Stansfield's formula, the equation $T\frac{dE}{dT} = aT + b$, which ex-

value.—Fechner's measurement formula, Fechner's metric formula, in psychophys., the formula $S = k \log \frac{r}{r}$ where S is a sensation of given intensity, k is a constant value, R is the stimulus which evokes S, and r is the liminal value of this stimulus. If we make r=1, the formula becomes $S=k\log R$.—Ferrel's gradient formula becomes $S=k\log R$.—Ferrel's gradient formula or the electromotive force of a thermo-electric couple, proposed by M. P. Avernarius of Kief (1863). It has the form $E_{\{t_1-t_2\}}=b(t_1-t_2)+ct^{t/2}$

The sacred myths have a constant bearing upon formulistic prayers and observances.

Rep. Bur. Amer. Ethnol., 1897-98, p. 231.

fornix, n. 4. In topical geom., a part of a surface which, in conjunction with another similar part which inseparably accompanies it, increases the cyclosis of the surface by two. Increases the cyclosis of the surface by two. If cut away, it would leave two holes in the aurface. Viewed from one side of the surface, it appears as a tobular bar (however much distorted or knotted) bridging the space from the edge of one hole to that of the other and leaving a transverse tunnel beneath formed by the twin fornix; while viewed from the other side it appears as a tunnel joining one hole to the other with a transverse bridge above formed by the twin fornix.— Fornix longus, a term sometimes used as a synonym for the arched portion of the fornix in the mammalian brain. Certain of the fibers are supposed to originate in the gyrus fornicatus. fornicatus.

fortescue (fôr'tes-kū), n. [Appar. from a surname Fortescue, whence by a popular adaptation the form forty-skewer, as alluding to the many sharp spines. But some consider forty-key the start of the same consider forty-key the skewer to be the original.] A scorpænoid fish, Pentaroge marmorata, found in Australian waters.

Fortescue, or 40-skewer, a fish of New Sonth Wales, Pentaroge marmorata, Cuv. and Val., family Scorpænidæ; called also the Scorpion, and the Cobbler. All its names allude to the thorny spines of its fins. The name Fortescue is an adaptation of Forty-skewer by the law of Hobson-Jobson.

E. E. Morris, Austral English.

Fortification lines, the edge of a zigzag luminous figure sometimes observed aubjectively during an attack of

megrim.
Fortified milk. See *milk.

pound obtained by the action of formaldchyde

Fort Pierre group. See *group1.

fortress, n.—The fortress. Same as \star Sebastopol. fortuitism, n. 2. The doctrine that a tendency direction which development takes and an inherent impossibility of an indefinite sum of ehange in the opposite direction. The case is supposed to he analogous to that of a large number of gamblers playing against one another. Some of them are ruined from time to time and drop out of the game; and thus the average capital of those who remain tends to increase.

Fortuitons variation. See *rariation.

forty, n.— Half forty. See *half. forty-legs (fôr'ti-legz), n. An Australian myria-

pod, Cermatia or Scutigera smithii.

n. Same forty-skewer (fôr'ti-skū'ér), *fortescue.

forty-spot (fôr'ti-spot), n. A shrike, Pardalotus quadragintus, one of the diamond-birds. [Australia.

forward!. I. a.—Forward glancs, in cricket, a glance-stroke played forward; a stroke by which the ball is turned in its course, usually to the leg side, by playing forward with the surface of the bat held abantwise.—Forward play, in cricket, the act of stocking or stopping the bowling by stepping forward with the left foot and meeting the ball soon after it has pitched.

II. n. In foot-ball, basket-ball, and other games, a player in the front line of the team. forward, adv. 4. In ericket, in front of the batsman's wicket: said of a fielder's position. forwarding-yard (fôr'wärd-ing-yärd), n. See *drill-yard

fosfate, fosfatic, etc. Simplified spellings of phosphate, etc.

fosforic, fosforus, etc. Simplified spellings of phosphoric, etc.

phosphate, etc.
fosforic, fosforus, etc. Simplified spellings of phosphoric, etc.
foss, n. A simplified spelling of fosse.
fossal, n.—Amygdalold fossa, the interval between the pillars of the fauces occupied by the tonsil.—Crotaphite fossa. See **erotaphite.—Douglas's fossa. Same as rectoraginal pouch (which see, under pouch).—Epigastric fossa. (a) The urachal fossa. (b) The pit of the stomach.—Ethmoid bossa, a groove on the cribriform plate of the ethmoid bone in which lies the olfactory lobe.—Eustachian fossa, a sulcus in the petrous portion of the temporal bone which lodges a part of the Enstachian tube.—Fossa capitis femoris, the depression on the head of the femur giving attachment to the ligamentum teres.—Fossa cerebelli. See occipitat fossæ.—Fossa costalis, depression on the body of a vertebra where it revises the seed of the femur giving attachment to the ligamentum teres.—Fossa of Rolando, a groove which marks the division between the parietal and frontal lobes of the brain.

—Fossa sellæ. Same as pituitary fossa.—Harderian fossa, the depression in advance of the orbit in which the llarderian gland is lodged. See gland.—Hypogastric folds.—Hypogastric folds.—Hypoga

fossette, n. 3. A hollow of considerable depth in the grinding-face of a tooth, more or less completely surrounded by enamel folds: typically shown in such a tooth as the molar of a rhinoceros. See cut under *tooth.

fortoin (fôr'tò-in), n. [for(maldehyde) + (co)- fossiform (fos'i-fòrm), a. [L. fossa, ditch, + toin]. A yellow, tasteless crystalline com- forma, form.] Having the form of a fossa or forma, form.] Having the form of a fossa or pit; pit-shaped.

pound obtained by the action of formaldehyde on cotoin. It is used as an intestinal astringent in diarrhea.

Fort Pierre group. See *group1.

fortress, n.—The fortress. Same as *Sebastopol.

fortuitism, n. 2. The doctrine that a tendency in the universe toward a certain direction of development may be accounted for by continual fortuitous changes, combined with an inherent possibility of an indefinite sum of change in the direction which development takes and an indefinite sum of change in the direction which development takes and an indefinite sum of change in the direction which development takes and an indefinite sum of change in the direction which development takes and an indefinite sum of change in the direction which development takes and an indefinite sum of change in the direction which development takes and an indefinite sum of change in the sediments were laid down.

fossula, n. (b) In anat., one of the numerous slight depressions on the surface of the brain. fostite (fos'tit), n. [(sul)phost(cat)ite.] A trade-name for cupric sulphate converted into a dusting-powder, for application to plants as a fungicide, by being soaked up in solution by an inert mineral powder, such as soapstone, and dried. Also known as cupric steatite and sulphosteatite.

F. O. T. An abbreviation of free on truck. [Eng.]

Fothergilla (forth-er-gil'a), n. [NL. (Murray, 1774), named in honor of John Fothergill (1712-1780), an English physician and botanist.] A genus of shrubs of the family Hamanelidaceæ. It is distinguished from related genera by having anetgenus of shrubs of the family Hamameudaceæ, It is distinguished from related genera by having apetalous flowers in terminal spikes, a bell-shaped and 5-to-7-lobed calyx, numerous stamens, and the fruit a 2-partitioned and 2-seeded capsule. There are three species of the southern Alleghany region, two of which, F. Carokina (F. Gardein of Murray) and F. major, are planted for ornament. The former is sometimes known as witch-adder. fotograf, fotografer, etc. Simplified spellings of photograph, etc.

fotometer, fotometric, etc. Simplified spell-

ings of photometer, etc. fototype, fototypic. Simplified spellings of

phototype, phototypie.

Foucault prism. See *prism.

Foucault's method. See *method and relocity *light.

foujdar (fouj'där), n. [Also fousdar, phousdar: < Hind. Pers. faujdār. a military commander. < Pers. fauj. a regiment, + dār, one who holds.] Formerly, in Persia, a military officer; in India, under the Mogul government, an officer who had charge of the police

and criminal matters. [Anglo-Indian.] foujdari (fouj-dă'rē), n. [Hind. faujdārī, < faujdār: see foujdar.] In India, a local native

court of justice.

court of justice.

Foul block, a block in which the rope has jammed.—
Foul chain. Same as foul hauve.—Foul coast, a coast which is lined with reefs and breakers.—Foul ground, a harbor in which rocks, sheals, or wrecks endanger navigation.—Foul hand, in poker, a hand containing more or fewer than five cards, any part of which has been lifted or looked at.—Foul tip, in base-ball, a pitched ball just tipped by the batsman's club, so that its direction and speed are not appreciably altered.—Foul water (naut.).

(a) Water in which the bottom mud and sand rises to the surface. See to make foul water, (b) Water which shows unequal soundings. (c) Water resting on a bottom of rocks and shoals.—Foul wind (naut.), a head wind.

foul-lines (foul/linz), n. pl. In base-ball, lines drawn from the outer corner of the home plate

drawn from the outer corner of the home plate along the outer edge of first and third bases to the boundaries of the ground. See foul1.

foundation, n. 9. In ship-building, any part of a ship's structure which is built up or specially reinforced to support heavy weights, as cially reinforced to support heavy weights, as Lyttetton, Cricket and Golf, p. 14. engines and boilers, turrets, guns, boat-cranes, four-horned (for'hôrnd), a. Having four horns,

foundation-bolt (fonn - dā' shon - bōlt), n. A Tetraceros quadricornis, of India. large and heavy bolt nsed to secure the base of steel columns to the foundation stones or to foresteel heavy machinery to a floor.

Tetraceros quadricornis, of India.

Fourier-Bessel formula. See *formula.

four-in-hand. I. n. 3. A long scarf or necktie. One of the ends (which are broader than the content which surrounds the neck) is wound

A bed-plate for a steam-engine or heavy machine, usually of cast-iron.-2. An anvil or base-plate upon which ornaments are arranged in a stamping- or embossing-press.—3. A plate used in a foundation which is built up of plates and angles, as the engine foundations in a ship.

foundation-stop (foun-dā'shon-stop), n. See

founder³, v. i. 4. In golf, to drive the ball into the ground by turning in the face of the club when striking.

founder-shaft (foun'der-shaft), n. In mining, the original shaft for a mine. [Eng.] foundry-proof (foun'dri-pröf), n. The last proof of composed type, supposed to be nearly free from fault. The proof-reader of the printing-house reads it for the detection of unnoticed typographical blemishes. When the type is not electrotyped or stereotyped it is called the press-proof.

fountain, n. 8. A fountain-shell or wateringpot shell; any shell of the genus Aspergillum.

-Fountain decussation, a decussation of nerve-fibers of the crura cerebri beneath the posterior longitudinal fasciculus.

fountain-brush (foun'tan-brush), n. A marking, painting, or stenciling brush having a reservoir in the handle for ink or paint. Pressure upon a button at the end of the handle releases enough ink to wet the brush. When the brush is worn out it can be removed from the handle and a fresh brush affixed.

fountain-dues (foun'tān-dūz), n. pl. Naut., the amount of money charged against a vessel for furnishing her with fresh water while in harbor and filling her water-tanks for sea.

fountain-pump (foun' tān-pump), n. A pump

for throwing a spray like a fountain, for use on a lawn or for spraying trees.

fountain-syringe (foun 'tān-sir "inj), n. A

rubber bag terminating in a flexible tube, with

appropriate tip for the administration of urethral, vaginal, or rectal injectious. fountain-tree (foun'tān-trē), n. The deodar,

Tountain-tree (foun tan-tre), n. The deodar, Cedrus Deodura. See deodur.

Fouquieriaceæ (fö-ki-ā-ri-ā'sē-ē), n. pl. [NL. (Dumortier, 1829), \(\int Fouquieria + \acceptace - accepta \). A family of dicotyledonous choripetalous plants of the order Hypericales, consisting of the the single genus Fouquieria (which see).

Fouquieriaceous (fö-ki-ā-ri-ā'shius), a. Belonging the state of the state o

ing to the plant family Fonquieriaceæ.

four, n. 7. In ericket, a boundary; also, a ball hit by the batsman, which reaches the boundary, thus scoring four runs. See *fourer.

which lies just back of the first sacral and is crossed by the transverse processes of the sacrals.—Fovea triangularis. Same as ventricle of Arantius.

foveation (fō-vē-ā'shon), n. [foveate + -ion.]

Hutchinson, Cricket, p. 314.—Four up and three to play, in golf, noting the score of a player when he has four holes to the good, and there remain only three holes to be played: he wins the match.—Long fours, candles about eight inches long, weighing four to the pound.—Short fours, candles from four to five inches long, weighing four to the pound.

fourchette, n. 5. The combination in one hand of the eards immediately above and below the In entom., punctured with foveolæ, as the one led, such as queen and 10 over a jack.

—Imperfect fourchette, the combination in one hand of the card immediately above and that next below the card led: as, queen, 9 on a jack led.

fourchite (för'shīt), n. [Fourche Mountaio, Arkansas, + -ite².] An olivin-free monchi-Arkansas, + - ite^2 .] An olivin-free monchiquite; a dark porphyry or non-porphyritic aphanite with hornblende or pyroxene in a more or less glassy ground-mass. It occurs in dikes.

four-coupled (för 'kup"ld), a. Having four driving-wheels coupled or connected by side-rods, fox^1 , n. 5. A drain carried the standard American passenger-engine which has two such drivers on each side.

four-course (for kors), n. In farming, a course of erop-rotation which is completed in four See rotation of crops, under rotation. t (fōr'kut), a. Cut into four parts, as a four-cut (for'kut), a. piston-ring.

four-cycle (for'si'kl), n. Same as four-phase cycle (which see, under internal-combustion *mo-

four-cylinder (for sil in-der), a. Having four cylinders, either working together or each one working separately from the others.

Fourdrinier machine. See *paper-machine. fourer (för'er), n. [four + -er^1.] In cricket, a four; a hall hit by the batsman, which reaches the boundary, thus scoring four runs. H. R.

over the other, passed up between the neck and the tie, and then brought down in front through the loop thus formed.

II. a.—Four-in-hand coach, a heavy coach, with square boot and box, and fitted with roof-seats on the main body, a driver's seat on the box, and a footman's seat on the bot: a gentleman's drag, wrongly called a tally-ho, (a name given to an individual coach introduced into New York by Colonel Kane, about the year 1876).—Four-in-hand harness, a set of harness for four horses—two leaders and two at the pole. The standard pattern is without breechings. The pole-team have pads: these may be omitted on the leaders. The bridles of the pole-team are fitted with rein-rings to support the lead-reins.

four-o'clock, n.— Californian four-o'clock, Mirabilis Californica of southern California, a species with numerous small flowers resembling diminutive azaleas. Parsons and Buck, Wild Flowers of California, p. 208.—Four-o'clock family, the plant family Nyctaginaceæ.

four-on (för'on), a. Said of an arrangement of pages for presswork by which four copies in quadruplicate can be printed together on the same sheet by the same operation. See *two-on. De Vinne, Mod. Book Composition, p. 349. four-phase (for faz), a. Having four phases or conditions; in gas-engines, four-cycle

foursome, a. II. n. Agolfmatch in which four persons engage, two playing against the other two.

foursquare, a. II. n. A figure with four equal

fourteener (för'tën"er), n. A line of poetry of fourteen syllables. G. Saintsbury.

fourth. I. a .- Fourth state of matter. See *matter. II. n.—Fourth best, in whist and bridge, the fourth card of any suit counting from the top: the modern substitute for the penultimate and antepenultimate.

four-toes (fōr'tōz), n. The plantain-leaf ever-

lasting, Antennaria plantaginifolia. Also called dog-tocs and pussy-toes.

dog-toes and pussy-toes.

Fovea canina. Same as canine fassa (which see, under canine).—Fovea capitis femoris. Same as *fassa capitis femoris.—Fovea ischiadica, in arnith., the most evident depression on the lower side of the pelvis, lying just in advance of the first true sacral vertebra.—Fovea jugnlaris, the depression at the root of the neck between the sternal origins of the sternamstoid muscles.—Fovea lumbalis, in arnith., a small depression on the under side of the anterior part of the flium.—Fovea navicular).—Fovea navicular).—Fovea navicular).—Fovea nuches, the groove at the back of the neck just below the skull.—Fovea pharyngis. Same as Rosenmüller's fossa.—Fovea pudendalis, in arnith, that depression on the under side of the pelvis of a bird which lies just back of the first sacral and is crossed by the transverse processes of the sacrals.—Fovea triangularis. Same as ventricle of Arantius.

foveation (fo-vē-ā/shon), n. [foveate + -ion.]

this phenomenon in the pock-mark or vaccination-scar. Biometrika, Feb., 1903. p. 137. foveiform (fō'vō-i-fôrm), a. Having the character of a pit, depression, or fovea.

foveolated (fō'vē-ō-lā-ted), α. Same as fore-

In entom., punctured with foveolæ, as the clytra of certain beetles.

fowl1, n.—Hollow fowl, "poultry, rabbits, etc.; any meat not sold by butchers." Halliwell.

fowl-mite (foul'mit), n. See *chieken-mite. fowl-pock (foul'pok), n. fowl-tick (foul'tik), Same as *hen-pox.

Either Argas persicus of Sonth Africa, or Argas miniatus of America, giant mites which attack chick-

under another watercourse by means of a depressed culvert forming an inverted siphon. Commonly called a dip-culvert or a dive-culvert.—6. One of the northern constellations (Vulpecula), situated between the

Fowl-tick (Argas mini-atus). constellations of the Swan magnified (Marx, U.S. and the Dolphin.—7. [Tr. D.A.)
G. fuchs.] A freshman in a German univer-

sity. [Not used in American colleges.]

A duel was going on between two Füchse (Freshmen). . . The two "foxes" fought out their time and were released, greatly to their own satisfaction.

J. M. Hart, German Universities, pp. 71, 72.

fox-chop (foks'chop), n. A cultivated form of the dog's-chop, Mesembryanthemum caninum. fox-farming (foks'fär-ming), n. The industry of rearing the blue or arctic fox (Vulpes lagoof rearing the blue or arctic fox (Vulpes lagopus) for its valuable skin. Uninhabited islands of the Aleutian chain in Alaska are used for the purpose, the animals being allowed to run wild. The only care given them consists in supplying them with food, and they are trapped as in the wild state.

fox-feet (foks'fēt), n. The fir club-moss, Lycopodium Selago.

foxglove, n. 4. The pitcher-plant, Sarracenia

foxglove, n. 4. The pitcher-plant, Sarracenia purpurea.— 5. The trumpet-ereeper, Campsis radicans.—American foxglove, Dasistoma Pedicularia, a large, much-branched, viscid-hairy herb of eastern North America, with broad twice-pinnatifid leaves and large yellow flowers resembling those of the foxglove in shape.—Blue foxglove, the throatwort, Campanula Trachelium. See throatwort, 1.—False foxglove, (b) Any species of Dasistoma, American plants with large yellow flowers, related to the foxglove. D. Javum is the downy false foxglove; D. Levigatum, the entire-leaved foxglove; B. Pedicularia, the fern-leaved foxglove; D. Virginicum, the smooth foxglove; and D. grandiforum, the western false foxglove.—Ladies'- or lady's-foxglove, the mullen, Verbascum Thopsus.—Lousewort foxglove, the American lousewort, Pedicularia Canadensis.—Mullen foxglove, (b) Digitalis Thapsi, native in Spain.—West Indian foxglove, the Spanish calalu, Phytolacca actandra.—White foxglove, the haskwort, Campanula latifolia. See haskwort.—Yellow foxglove, the downy false foxglove, Dasistoma flavum.

fox-grass (foks' gras), n. See salt-marsh

fox-grass (foks'gras), n. See salt-marsh

fox-head (foks'hed), n. 1. The head of a fox.
-2. A drinking-cup in the form of the head of a fox, suggested by the Grecian rhyton. Such cups were made by European potters in the latter part of the eighteenth century.

Fox Hills group. See *group1. fox-key (foks'kē), n. A split key into the end of which is driven a thin wedge of steel to prevent it from working out.

fox-poison (foks'poi"zn), n. The spurge-laurel, Duphne Laureola.

Duphne Laurcola.

foxtail, n.—Alpine foxtail, Alopecurus alpinus, an erect short-headed species which occurs in the arctic regions of both hemispheres.—Branching foxtail, Chætochloa composita, a stout species with a bristly, branching paniele. It extends from the West Indies into southern Florida. The name has also heen applied to one of the windmill-grasses, Chloris rerticillata.—Bristly foxtail, Chætochloa verticillata, a species with rather short adhesive awns, a weed found sparingly in waste places. Sometimes also the Hungarian grass C. Hailea.—Floating foxtail, the water-foxtail, Alopecurus genicalatus, a species widely diffused in Europe, Asia, and North America, affording excellent grazing in wet places.—Large foxtail, in California, the larger species of barley-grass. Hordeum, more properly called squirreltail.—Meadow-foxtail, a pasture-grass, Alopecurus pratensis, native in Europe and introduced into North America. It is valuable in mixtures for pasture in moist ground on account of its earliness and other good qualities. Its heads, like those of other species of the genus, suggest a small timothy. See cut on following page.—Mountain foxtail, Alopecurus occidentails, an erect species growing in monntain meadows of the Rocky Mountains, occasionally abundant and yielding a fine, long, bright-colored hay. The heads are thicker and shorter than those of the meadow-foxtail.—



Small foxtail, in Small foxtail, in California, the small-er species of Hor-deum. See large *foxtail.—Smooth foxtail, Chætochloa imberbis, a species somewhat resem-bling the yellow fox-tail, but easily dis-tinguished by its longer bristles and by its rootstocks. longer bristles and by its rootstocks. It is widely diffused in several varieties, being found in the southeastern United States, the West Indies, and Mexico.—Western foxtail. Same as mountain *foxtail.—Yellow foxtail.—Yellow foxtail.—Yellow foxtail.—Weethea *foxtail. — Yellow foxtail, Chætochloa glauca, a very eommon grass of mild latitudes, appearing as a weed in cultivated ground. vated ground. Also known as pigeon-grass (which see). See cut at ★Chætochloa.



Meadow-foxtail (Alopecurus pratensis), a, plant, one fourth natural size; b, spikelet; c, flowering glume; d, stamens and pistil. (b, c, and d slightly enlarged.)

foxtail-pine (foks tal-pin'), n. 1. See foxtail-pinc, under pinc!.—2. Pinus Balfouriana, a small tree of 1. See foxtail-pinc, under the northwestern United States, resembling P. aristata, but having the scales destitute of prickles.—3. The lobbolly-pine, Pinus Tædu. foxy¹, a. 4. In painting, marked by a disagreeable, hot quality of color.—5. Penetrating and well acquainted with the ways of the world; sharp; especially, having an air of knowingness: it then signifies a not very es-

timable character.

F. P. An abbreviation of fire-plug.

F. P.S. An abbreviation (a) of Fellow of the Philogical Society; (b) of Fellow of the Philosophical Society of Great Britain.

Fragilitas (fra-jil'i-tas), n. [L.] Brittleness.

Fragilitas cfrainium, brittleness of the hair.—Fragilitas ossimum, a condition in which the bones break very easily, sometimes as a result of simple muscular action.

Fragm., frgm. Abbreviations (a) of fragment;

(b) of fragmentary.

Fr. An abbreviation (b) of France; (c) of Fri-

dan. fractabling (frak'ta-bling), n. A coping, as of a fractable, but the term often extended

of a fractable, but the term often extended to include the coping of any wall.

fractile (frak'til), a. [L. fractus, broken, + -ile,] That may be broken or eleft; pertaining to breakage or cleavage.

fraction, n., 4. In math.: (c) Iu geom., any multiple of any submultiple of a magnitude.— 5. In chem., one of the parts into which a substance is separated in the process of fractional distillation. See fractionation.—Continued fraction of the second order, a fraction whose numerator and denominator are themselves continued fractions. See continued fraction, under continued.—Ordinal fraction, a mark for an object interpolated in a natural

fraction (frak'shon), r. t. [fraction, n.] Same as fractionate.

Although the gas contained so little silicon hydride, they succeeded in fractioning it.

Amer. Chem. Jour., March, 1903, p. 282.

Fractional crystallization, diffusion, equation, function, number. See *crystalliza-

fractionate, v. l.—Fractionating tube. See *tube. fractionator (frak'shon-ā-tor), n. ln chem., an apparatus for fractional distillation. fracto-cumulus (frak'tō-kū'mū-lus), n.; pl.

fracto-cumulus (frak'tō-ku'mu-nus), n., p.:
fracto-cumuli (-li). A ragged cumulus; an ill-legs.
defined cloud in the first stage of condensation fraktur (fräk-tör'), n. [G., < L. fractura, breakdefined cloud in the first stage of small, low atmoing: see fracture.] In printing, the form of face of the ocean or land; send. The fractocumulus is, relatively speaking, a low cloud, lying some distance below the flat base of the ordinary cumulus. See *cloud1, 1.

fracto-nimbus (frak' tō -nim "bus), n.; pl. fracto-nimbi (-bī). An ill-defined, ragged. or broken cloud from which rain falls or is threat-

ening to fall. See *cloud!, 1.

fracto-stratus (frak' tō -strā" tus), n.; pl.

fracto-stratus (frak' tō -strā" tus), n.; pl.

fracto-strati (-fi). The edge of a stratus

cloud which is disappearing through the

evaporation of its moisture, leaving only rag
disappear.

See

F. R. A. M. An abbreviation of Fellow of the

Royal leading to gr Music.

frambœsia! (fram-bɛ'si-al), a. [frambæsia +

-all.] Relating to or of the nature of fram
bœsia or yaws. Luncet, May 30, 1903.

frame-plate (frām'plāt), n. A rolled plate

frame-plate (frām'plāt), n. A rolled plate

frame-plate (frām'plāt), n. A rolled plate

frame-plate (frām'plāt), n. A rolled plate ged portions which soon disappear. *cloud1, 1.

*cloud., 1.

fracture, n. 4. In phonol., same as breaking,
2. A. L. Mayhew, Old Eng. Phonol., V. i. § 81.

- Barton's fracture, fracture of the lower articular end
of the radius.— Bennet's fracture, a fracture of the first
metacarpal bone.— Complicated fracture, a fracture
associated with injury to other structures, such as an important nerve or a targe blood-vessel.—Depressed
fracture, a fracture in which the broken part is stucken
below the general surface of the bone: noting usually a
common form of fracture of the skull.—Extracapsular
fracture, fracture of a bone, such as the hip-bone, near

the joint but outside of the capsular ligament. - Fracture the joint but outside of the capsular ligament.—Fracture fever. See */ever.1—Hickory-stick fracture. Some as greenstick fracture.—Incomplete fracture, a fracture in which the bone is not broken entirely across: a greenstick fracture is of this nature.—Intra-articular fracture, a fracture involving the articular surface of the bone.—Intracapsular fracture. See intracapsular.—Linear fracture, a fracture running lengthwise of the bone.—Multiple fracture, fracture of several bones or of one bone in several places.—Silver-fork fracture. Same as Colles's fracture.—Spontaneous fracture, a fracture produced by a Silver fork fracture, Same as Colles's fracture, respontaneous fracture, as a fracture produced by a very slight force, such as simple muscular contraction, due to abnormal brittleness of the bone or to its partial destruction by a cancer or other lesion.—

Sprain fracture, rupture of a tendon from its point of attachment to the bone, a splinter of the latter being torn away with the tendon.—Willow fracture. Same as greenstick fracture.—Zone of fracture, a name suggested by C. R. Van Ilise for the outer portion of the earth's crust, in which the deformation of rocks produces fractures and open cavities. As the depth increases and the load becomes greater, weak rocks, such as shales, can at 500 meters no longer maintain cavities, and the limit of resistance of even the firmest granities is reached at 10,000 meters, or the zone of *falorage* (which see). Between these limits lies the mixed zone of fracture and flowage, embracing rocks of variable resistance.

frænum, n. See frenum.

fragarianin (frå-gå 'ri-a-nin), n. [Fragaria + -in².] A glucoside found in the roots of Fra-

-in2.] A glucoside found in the roots of Fragaria vesca

fraghan (frân), n. [Also frawn, representing, respectively, the spelling and the present pronunciation of lr. fruochan, the plural of fruochag, a whortleberry, \(\langle fruoch, heath. \)

The whortleberry, Vaccinium Myetillus, fragil, a. A simplified spelling of fragile, fragilin (fraj'il-in), n. [L. fragilis (see def.) $+ -in^2$] A compound crystallizing in red or reddish-yellow needles and found in *Sphæro*phorus fragilis.

fragment (frag'ment), r. i. [fragment, n.] To break up into pieces: said of a cell-nucleus or nucleolus that breaks up amitotically into two or more pieces of unequal size.

fragmental, a. 2. Same as clastic. fragmented (frag'men-ted), p. a. Broken into fragments; specifically, in biol., broken or separated into parts each of which forms a new individual. See fragmentation.

A few streptococci and isolated filaments are found in the exudate of the catarrhal broughitis and in the alveoli filled with fragmented leukocytes and organizing exudate.

Jour. Exper. Med., Oct. 25, 1900, p. 162.

Fragrant fern. See *fern. frail*, n. 4. A wooden carrier or crate used by glaziers to carry sheets of glass. [Eng.] frailejon (frü-ē-lā-liōn'), n. [S. Amer. Šp., aug. of Sp. fraile, a friar: see friar. The name alludes to some fancied resemblance of the plant to a friar with his gown and cowl.] general name for a growth of peculiar tall composite plants belonging to the paramos of the equatorial Andes. Their densely hairy ensiform leaves are as long as the arm and form rosettes, sometimes pressed to the ground, sometimes crowning a massive stem clad with dead leaf-bases.

fraising-machine (fra zing-ma-shēn n), n. A profiling-, forming-, or routing-machine used in roughing out the carving or shapes on such articles as canes, umbrella-handles, and chair-

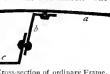
pointed letter used in ordinary German books and newspapers. It differs from the older German black-letter in the greater stiffness and similarity of the shapes, and in the points or finials with which it bristles. Though black and forbidding, fraktur is a thin character. The small letters are about one fifth narrower than roman letters of same size of body. DeVinne, Mod. Book Composition, p. 253.

This is Fraftur Type.

frambæsiform (fram-bē'si-fôrm), a. Resembling frambæsia or yaws

frame, v. t. 7. In ship-building, to erect and adjust the frames of (a vessel) in place above the keel on the building-slip.

frame, n., 5. (b) In ship-building, one of the ribs or transverse members which extend up on each side of the keel and support the outside planking or plating. In a wooden vessel a frame is made up of curved pieces of timber. The lowest piece is the floor-timber, which extends across the keel.



The next piece is the first futtock, the lower part of which laps on one side of the floor, and the upper part laps on the side of the second futtock, the lower end of the last on the side of the second futtock, the lower end of the latter butting against the upper end of the floor-timber. The successive pieces are called third, fourth, etc., futtocks, and the last the top-timber. The various pieces are through-bolted to each other across the central joint, thus forming the complete frame. In iron and steel vessels the frames are of the most varied construction, owing to the ease with which the material can be worked into various forms. The simplest is that consisting of a frame angle-bar, a reverse frame angle-bar, and a floor-plate. In the upper part of the frame the frame-bar and reverse frame angle-bar, and a floor-plate. In the upper part of the frame the frame-bar and reverse frame angle-bar, as a reverse frame angle-bar, and a floor-plate. In the upper part of the frame the frame-bar and reverse frame-bar. In the lower part the two bars are spread part and riveted to the floor-plate interposed between them. (See cut under floor, 5.) In modern steel vessels, particularly men-of-war, a single piece, as a channel-bar, bulb-angle, or Z-bar, takes the place of the frame-bar and reverse frame-bar. This is called a solid frame. In vessels with a double bottom the frame in the lower part becomes a part of the cellular bottom and is a more complex structure. (See cut under *bottom.). The frame of a protected craiser with double bottom is shown under frame, 5. In large merchant steamers with double bottom is a generally similar construction is adopted. The frame of a protected erniser with double bottom is shown under frame, 5. In large merchant steamers with double bottoms a generally similar construction is adopted. The upper part of the frame is a piece separate from that in the bottom, and it is secured to the margin-plate by a bracket and gusset. (See cut under *bracket1.) Other forms of frames are used in vessels in various places. (See deep *frame, *belt-frame, *web-frame.) The deep longitudinal members in the framework of the double bottom are sometimes called longitudinal frames, but more usually longitudinals. A boss-frame is one of the frames at the stern which are curved out around the stern-tube. The transom-frame is that at the stern-post in vessels having an overhanging stern. It has a very deep floor which is riveted to the upper interior part of the stern-post, and the radiating stern-frames abaft it, forming the contour of the stern, are secured to it at their heels.

6. (g) In bee-keeping, an open four-cornered box, read-

6. (y) In bee-keeping, an open four-cornered hox, readily removed from the hive, in which the bees construct their combs. (h) In printing, same as composing-stand,

10. In bowling or tenpins, a division of the game through which a player continues at one setting of the pins. Three balls usually constitute a frame.—11. In pool: (a) The triangle used to spot the balls in pyramidal form at pyramid, continuous, following, and fifteenball pool and their offshoots. (b) The leg or game played with such a set of balls at all except continuous pool.—Ampère's frame, a support for a couple of wire helices through which

an electric current is made to pass. The coils then be-have as if they were magnets. Wires magnets. Wires bent in other forms may be similarly suspended.—Deep frame, in iron ship-building, one of the frames in the side of a cargo-ves-sel which has no lower deck or holdbeams. In such ves-

Ampère's I-rame

beans. In such vessels the frames are about 50 per cent. deeper transversely than in a similar vessel with hold-beams or lower deck.—
Frame angle-bar, in iron ship-building, the outer bar of a frame to which the outside plating is riveted. See **Frame, 5(b).—Inframe, in ship-building, said of a vessel of which the frames are erected and regulated in place on the building-slip before the outside planking or plating is put on.—Intermediate frame, in ship-building, an extra frame for additional strength placed between two of the regularly spaced frames of a vessel.—Square frame, in ship-building, one of the frames which stand square across the central plane of the vessel, as distinguished from a cant-frame or cant. The greater part of the frames of all vessels are square frames, and in modern iron and steel vessels, in which the material used permits beveling without loss of material, nearly or quite all are square frames.

frame-angle (fram'ang"gl), n. Same as * frame angle-bar.

frame-bar (fram'bar), n. Same as *frame angle-bar.

frame-hive (fram'hiv), n. A beelive so constructed as to contain movable frames.

frame-lifter (fram'lif"ter), n. A strip of lace,

frame-plate (fram'plat), n. A rolled plate forming the web of the side-frame for a locomotive.

frame-slotter (fram'slot"er), n. A slotting-machine especially adapted for finishing the side-frames of locomotives.

Frame-slotting machine. See *slotting-ma-

frame-work, n. 4. Spinning done on a throstleor ring-frame; also, knitting done on a stocking-frame.

framing-piece (fram'ing-pēs). n. piece of wood placed at the center of a carriage head at right angles with the axle and extend-ing from the front of the fifth wheel-plate to in equal quantities, mixed and sweetened, and frozen. ing from the front of the fifth wheel-plate to the horn-bar.

franceschino (fran-ehes-kē'nō). n. [It., Francesco, Francis.] A Tusean silver coin of the value of 5 paoli.

francescone (fran-ches-kō'ne), n. [It., < Francesco, Francis.] The silver ecudo of Francis of Lorraine, who died in 1737, equal to 10 paoli or 6% lire.

franchise. n.—Municipal franchise. (a) A legislative grant or charter by which a municipality, as a city, town, village, etc., is organized and empowered to make laws or ordinances for its own government. (b) A privilege or grant extended by a municipal corporation to a private corporation or person, as the right to maintain a street-railway, to use streets for water- or gas-mains, etc.

and Ernest Francke, mining engineers.] A sulphid of antimeny, tin. and lead, containing also small amounts of silver and germanium, found in the mining region of Las Animas, Bolivia.

Franco-Annamese (frang "ko-an-a-mes'), a. and n. I. a. Pertaining to both France and

II. n. A person of mixed French and Anna-

mese descent Franco-Canadian (frang/kō-ka-nā'di-an), a.

and n. I. a. Pertaining to both France and

II. n. A person of mixed French and Cana-

dian-Indian descent. [Rare.] **Francophil, Francophile** (frang'kō-fil), a. and n. [NL. Francus, French, + Gr. \$\phi(\cdots \cdots I. a. Very friendly to France or the French.

The Francophil attitude of Italy towards the end of the ranco-German war.

Encyc. Brit., XXIX. 634. Franco-German war.

II. n. One who is very friendly to France or the French.

Francophobe (frang'kō-fōb), n. [NL. Francus, a Frenchman, + Gr. -φο, λος, < φοβείν, fear.] One who is possessed with a morbid fear of the

N, E, D,French. Francophone (frang'kō-fōn), n. [NL. Francus, French, + Gr. φωνή, sound.] One who speaks the French language. Deniker, Races of Man,

frangulic (frang'gū-lik), a. [frangul-in + -ic.] Of or pertaining to frangulin.—Frangulte actd, a brownish-yellow crystalline compound, C₁₄II_SO₄, isomeric with alizarin.

Frankfort agreement. See *agreement. frankfurter (frangk'för-tèr), n. [G. Frankfurter wurst, 'Frankfort sansage.'] A highly seasoned variety of German sansage.

seasoned variety of German Sansage.

frankincense, n. 1. The principal trees yielding resinous exudations known as frankincense are: (a) Boanellia Carterii (see Boanellia); (b) the Norway spruce, Abies Picea; (c) the lobiolly-pine, Pinus Tæda (see frankincense, 2); and (d) Styraz punctata (see Styrax).—West African frankincense. Same as ★bumbo². See also benefits the street of the street of

franking-machine (frang'king-ma-shēn" A machine for cutting the ends of the bars for a window-sash in such a way as to give the

joints the appearance of mitered joints.

Frankist (frang' kist), n. One of a semi-frankist of Jews founded by Jacob F. Frank (1712-91) in the province of Pedolia, Poland. The Frankists are also called Zoharites, because they rejected the teachings of the Talmud and accepted for their guide the mystical doctrines of the cabala of the Zohar, or "book of splendor."

capala of the Zohar, or "book of splendor."

Franklinia (frangk-lin'i-\text{i}), n. [NL. (Bartram, 1785), named in honor of Benjamin Franklin (1706-90), the American statesman and scientist.] A genus of plants of the family Theaceæ, closely related to Lasianthus and by some anthors united with it. F. Alia freezle.

F. R. C. P. E. An abbreviation of Fellow of the Royal College of Surgeons (of Edinburgh, of Ireland, or of London).

F. R. C. V. S. An abbreviation of Fellow of the Royal College of Veterinary Suracons. and by some anthors united with it. F. Altanaha five in Georgia), is now known only in cultivation. It is a small tree, reaching a height of 20 feet, with lustrous but decidous Ioliage and handsome white magnolia-like flowers opening from late summer till autumn. It is hardy as far north as Philadelphia.

Tranklinist (French Cliviat) and Analysine white magnolia-like flowers of the light.

Tranklinist (French Cliviat) and Analysine white magnolia-like flowers of the late summer till autumn. It is hardy as far north as Philadelphia.

Franklinist (frangk'lin-ist), n. An electrician who advocated the one-fluid theory of electricity originated by Benjamin Franklin.

The terms Franklinism, Franklinist and the Franklinian system occur in almost every page.

Priestley, Hist. of Electricity, I. 193.

A straight frank-tenure (frangk'ten "ūr), n. In feudal luw, a helding in frank-fee.

> F. R. A. S. An abbreviation of Fellow of the Royal Astronomical Society.

> frasco (fräs'kē), n. [Sp., a flask: see flask.] A liquid measure used in some Spanish-Ameriean countries, equal to about 2½ United States

> frase, n. and v. A simplified spelling of phrase. fraseologic, fraseologist, etc. spellings of phraseologic, etc. Simplified

> Fraser-Mortimer variation. See *variation. Fraser's attack. See *attack.

fraser's attack. See Fattack.
frasil, n. See frazil.
Frasnian (fras'ni-an). a and n. [F. Frasncs,
a town of Belgium.] I. a. In geol., of or
pertaining to the lower division or stage of

francisc (fran-sisk'), n. [francisca.]

Franckean (frank'ē-an), a. Of or pertaining to the work or opinions of A. H. Francke, one of the leaders in the Pictist movement in Germany at the beginning of the eighteenth contury.

II. n. The Francian division.

frass (fräs), n. [G. frass, food for swine, nasty food (OHG. frāz, food), < OHG. frezzen, G. fressen, = AS. fretan, eat, devour: see fret!.] The excrement of a larval insect.

frate (frä'te), n. [It., < L. frater, brother:

frate (fra'te), n. [It.. < L. frater, brother: see friar.] An Italian friar or monk.

fraternalism (fra-ter'nal-izm), n. [fraternal The character of being fraternal; specifically, the enltivation and safeguarding of that fraternity, or brotherhood of an entire people, demanded by the French revolutionists.

In a New Zealand aiming to realize a democratic fraternalism, conscience strikes its high noon. E. A. Ross, Social Control, p. 53.

fraternity, n.— Greek-letter fraternity, in the United States, a (generally) secret society, formed among undergraduate collegians, chiefly for social purposes, and designated by two or more letters of the Greek alphabet. A fraternity usually consists of several 'branches or chapters' situated in the various colleges. Many have large and costly 'fraternity houses.' Membership does not terminate on graduation.

Fratricellians (frat-ri-sel'i-anz), n. pl. Same as Fratricelli.

frau (frou), n. [G., = D. rrouw, etc.: see frow¹.] In German use, a woman; a married woman; a wife; lady; as a title, Madame; Mrs.: as, Frau Schultze.

fraud, n. Badge of frand. See *badge1.—Fraud order, in postal service, an order from some postal authority to a local postmaster suspending the delivery of mail-matter to any party known or suspected of using the mails for illegal purposes.

fräulein (froi 'lin), n. [G., ⟨ frau, woman, lady, + dim. -lein.] In German use, an unmarried woman; a young lady; as a title,

Miss: as, Fräulein von Reuter.

frazzle (fraz'l), v.; pret. and pp. frazzled, ppr. frazzling. [Also frazle; erig. E. dial., a var. of fasel, E. dial. fazle, fazzle, farzel, v., perhaps by association with fray2, v.] I. intrans. To ravel out, as the edge of a fabrie; unravel;

II. trans. To wear, as by hard usage, into

frazzle (fraz'l), n. [frazzle, v.] A shred; a tatter; a frayed rag; a frayed or worn-out condition: as, to be worn to a frazzle. [Prov.

Eng. and U. S.]

F. R. C. I. An abbreviation of Fellow of the Royal Colonial Institute.

F. R. C. O. An abbreviation of Fellow of the Royal College of Organists.

F. R. C. P. An abbreviation (a) of Fellow of the Royal College of Physicians; (b) of Fellow of the Royal College of Preceptors. F. R. C. P. E. An abbreviation of Fellow of

free, a. 19. In hort., abundantly blooming or fruiting; also, of profuse and rapid growth.

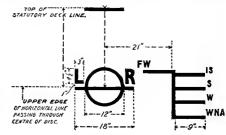
—Free association, in exper. psychol., an association freely effected by the observer, in an experiment upon the association of ideas—effected, that is, in terms of his mental constitution and existing stock of ideas, without restraint or suggestion from the side of the experimenter: opposed to ambiguous or partially constrained and to univocal or constrained associations. E. B. Titchener, Exper. Psychol., II. I. 192.—Free cheeks, hit, idea, etc. See *check, etc.—Free coinage, a phrase denoting that the mint is open to any one who may

hring hullion to be coined. The United States mint is now (1906) closed to the free coinage of silver.—Pree Methodist Chnrch. See Free Methodists, under Methodist.—Pree of general and particular average, in marine underwriting, a clause limiting liability to total loss. See average.—Free overside, in com., free of all charges down to the moment of discharge: said of merchandise bought for import: same as *ex ship.—Free Quaker. See quaker.

freeboard' (fre'bord), n. [Also formerly freeborder.] A margin of ground, specified in some cases as two and a half feet in width, in other cases much more, claimed beyond or out-

other cases much more, claimed beyond or outside of a fence which incloses a place, as a park or forest. [The nautical use is later: see free-board.]

free-board, n. The minimum free-board to which British merchant vessels may be loaded is indicated by a mark known as the Plimsoll mark. Lloyd's Register is empowered to assign the deepest water-line to which a vessel may be loaded. The lines must be permanently marked on the side of the vessel, as shown in the cut.



Free-board Marking for Steamers

FW is the fresh-water free-board line to which the ship can be loaded in a fresh-water harbor. S is the corresponding summer load-line for the same displacement in salt water. W is the winter free-board line. WNA is the winter free-board line for voyages in the North Atlantic. IS is the line for summer voyages in the Indian Ocean. LR is ILOyd's Register. For sailing-vessels the FW and WNA lines only are marked.

Fw and war mass only are market.

Freedom, n_* — Economic freedom, the exercise of deliberate and free choice in economic activities, as in the sale or purchase of commodities or services, the production or consumption of wealth, or the selection of an occupation; absence of legal or customary restraints upon economic conduct.

freedomism (freedom-izm), n. [freedom + -ism.] The doctrine of the freedom of the will; libertarianism: opposed to necessitarianism. [Rare.]

It may be true that consciousness is an illusory guide, but this is nothing in favor of necessitarianism. . . If it be illusory, argument on either side of the question is perfectly fufile; for I have nothing but the testimony of consciousness to the cogency of the argument for necessitarianism. But if that authority be impeached, I am as much in the dark about that theory as I can possibly be about freedomism.

J. H. Hystop, Elem. of Ethics, p. 214.

free-fooder (frē'fö"der), n. One who is opposed to the taxing of food-stuffs. [Nonce-word.]

That class of free-fooders which regards any legislative interference with the buying and selling of anything of the nature of food, however bad, as noxious economic heresy, and a restriction of the free play of competition.

Nature, Dec. 24, 1903, p. 179.

shreds, rags, or tatters; fray out; tear to freeing-port (freeing-port), n. In ship-building, a hole in the bulwarks close to the deck, with a hele in the bulwarks close to the deek, with a flap-cover which opens outward to permit water that comes on the deek to run overboard

freely. Also freeing-sentile.
freeing-scuttle (fre'ing-skut'l), n. Same as
*freeing-port.

free-select (fre'se-lekt"), v. t. To select and take up (undisposed-of erown lands) under the Australian land laws, and acquire title to the same by annual payments during a series of See *frce-selection. [Australia.] vears.

free-selection (fre'se-lek shon), n. A system by which a settler in an Australian colony may select, take up, and acquire perfect title to a block of from 40 to 320 acres of crown lands at a fixed rate per acre (usually twenty shillings), and pay for the same at the rate of one shilling per aere per annum for twenty years. [Aus

free-selector (fre'se-lek"tor), n. One who freeselects erown lands in Australia. See *free-selection. [Australia.]

Advocating the free and unlimited coinage of silver at an arbitrary

standard rate: as, the free-silver party.

Free-stater (fre'sta'ter), n. A native or inhabitant of the Orange Free State of South Africa, now a British colony with the title of 'Orauge

free-wheel (fre'hwel), v.i. 1. To ride a bievele with the wheel free from the control of the pedals; coast .- 2. To free the wheel of a bicycle from the control of the pedals.

freez, v. and n. A simplified spelling of freeze. freeze¹, v. t.—To freeze out, (b) In poker, to cause one to lose all his original stake in a game of freeze-out. See *freeze-out, 2.

freeze-out (frez'out), n. 1. The act of freezing out. See to freeze out, under freeze¹, v. t.

2. A variety of poker in which each player starts with an equal number of chips and no one is allowed to replenish his stock or to withdraw or loan any part of it. As soon as any player has lost his capital he is frozen out, and must retire from the game.

freezer, n. 2. A sheep whose mutton is intended to be frozen and exported. [Australia.] freezing-tank (fre zing-tangk), n. In ice-mak-ing, a large tank fitted with cold-brine circulating pipes and containing cold brine which is kept in constant circulation by means of a brine-agitator, in which distilled water is brine-agitator, in which distilled water is placed in cans to be frozen. It is usually fitted with a can-filler, an air-hoist, and a traveling crane for lifting the cans of ice and conveying them to the ice-dump, where the blocks are loosened and discharged, and, if too large, are sawed into convenient shapes for handling. A large tank may have a capacity of 100 tons of ice a day. Pregier line. Same as Fregier **straight.-Fregier point, straight. See **point, **straight.-Fregier point, straight. See **point, **straight.-Cost, freight, and insurance. See **cost2. The person in the employ of a transportation company who

the employ of a transportation company who has charge of the freight-carrying department of its business, either at the head office (the general freight-agent), or at some particular port or station.

freight-ton (frat'tun), n. Forty enbic feet of cargo: frequently used as the basis of freight charges in ocean transportation of light bulky goods irrespective of their actual weight. See ton^1 , 2 (k).

freight-tonnage (frat'tun"aj), n. Stowagespace for cargo on a vessel measured in freighttons of 40 cubic feet.

Freight tonnage is simply a measure of cubical capacity. Merchants and shipowners make considerable use of this measurement, although it has no legal authority.

White, Manual of Naval Arch., p. 72.

White, Manual of Naval Arch., p. 72
fremitus, n.—Hydatid fremitus. Same as hydatid
thrill (which see, under thrill).
Fremont cottonwood. See *cottonwood.
French boston, cliff, curve, decimal candle, gall,
gray. See *boston, etc.—French minute, a centesimal
minute. See centesimal division.—French schools of
painting, schools of sculpture, seal. See *painting,
*sculpture, *seall.—French second, a centesimal second. See centesimal division.—French weed. (b) The
penny-cress, Thlaspi arrense: said to be so called, on account of its effensive qualities, in parts of Canada of antiGallic sentiment. See penny-cress and *stinkreed, 3.
French (french), r. I. trans. [French, a.] 1.
To prepare according to the French mode.—
2. To dress, as a chop, by partly freeing the
bones.—3. In metal., to carry out the last step

bones. - 3. In metal., to carry out the last step in the refining of metallic antimony, by which

'bowl metal' is converted into 'star metal.'

II. intrans. [l. c.] In bot., to appear distorted and unnatural, owing to some abnormal condition of the plant. See *frenching.

French-fried (french'frīd), a. Said of potatoes

which are cut into strips, triangular in section, and fried in hot fat.

frenching (fren'ching), n. The peculiar distorted and dwarfed condition of cotton, tobacco, corn, and other plants, due either to some fungus or to disturbed nutrition: often used synonymously for the mosaic disease. See mosaic *disease.

Frenchism (french'izm), n. [French + -ism.] A custom, usage, or idiom peculiar to or characteristic of France or the French; a Gallicism.

frenologer, frenologic, etc. Simplified spelling of phrenologer, etc.

ing of phrenologer, etc.

frenum, n.—Frenum Morgagni, a duplicature of tissue serving as a stay to the fleocæcal valve.

freq. An abbreviation (b) of frequent.

frequency, n., 3. Specifically, the numerical measure of the rate of vibration of an oscillating body, or the rate at which the cycles of any periodic motion repeat themselves. In acoustics, frequency is synenymons with pitch, although the pitch of a sounding body is asnally expressed in terms of the number of single vibrations per second, whereas frequency is given in double or complete vibrations. The frequency of vibration of bodies sending ont waves capable of affecting the human ear lies between two fairly well-defined limits. The lower anditory limit, which corresponds in pitch to the lowest andible tone, is about 20 complete vibrations per second. The npper limit varies somewhat with the individual, but lies between 15,000 and 20,000 complete vibrations per second. The frequency of vibration to which light-waves are due is very much higher than that of sounding bodies. Since the frequency necessary to maintain a train of waves is directly proportional to the velocity of the wave-motion, S.—32

and since ether-waves move with a velocity about one million times as great as that of waves in the air, the frequency of ether-waves would be a million times as great as sound-waves of the same wave-length. Sound-waves, however, have a wave-length about a million times that of light-waves, so that the frequency of light-waves is about a million million times as great as that of sound-waves. Light-waves, like sound-waves, have a considerable range of frequency, but the limits of visibility, which correspond to the limits in wave-length of the visible spectrum, lie closer together than the limits of andibility. The longest wave-length which produces an effect upon the eye is .76 μ, frequency 4 × 10¹⁴ vibrations per second; while the shortest wave-length to which the eye is sensitive is about .40 μ. These waves, which constitute the extreme violet of the system, have a frequency of 7.5 × 10¹⁴ vibrations per second. Ether-waves of frequency too great to affect the eye are also known to exist. These, which constitute the ultra-violet spectrum, are detected by means of their action upon the photographic plate or by their power of producing fluorescence. The shortest ether-waves known to exist have a wave-length of about .1 μ and a frequency of 30 × 10¹⁴ vibrations per second. Ether-waves the length of which is too great to affect the eye are also known to exist. These constitute the infrared spectrum and are detected by means of their thermal action. The longest waves known to be due to the vibrations per second. It is possible by electrical means to produce ether-waves the length of which is too great to affect the eye are also known to exist. These constitute the infra-red spectrum and are detected by means of their thermal action. The longest waves known to be due to the vibrations per second and 0. The terms high frequency and low frequency are purely relative, the former being applied to comparatively rapid and the other to comparatively slow rates of vibration. Thus a musical tone having a frequency of

1,000 electric oscillations per second is called a nighter quency discharge.

4. In elect., see *atternating.—Convergence frequency. See *convergence.—Frequency converter, this device the motion is turned through a right angle, as the driven wheel; &d., driven shaft is parallel to the feat of the driven wheel; &d., driven wheel; &d., driven shaft is parallel to the feat of the driven wheel; &d., driven shaft is parallel to the feat of the driven

of its tegument so as to form a raw surface friction-hammer (frik'shon-ham "er), n. which will readily unite with a similar surface when the two are brought into apposition.—
To freshen ballast, to shift the ballast about.
Freenel-Arago law. See *law!.—Fresnel's biprism.

*biprism fret1, v. t. 6. To form by fretting or corrosion.

Let it stampe wrinkles in her brow of youth, With cadent Teares fret Channels in her cheekes. Shak., Lear, l. 4.

fret³, n.—Curvilinear fret, in ornamentation, a form developed in curved lines, as distinguished from straight lines and angles; curvilinear pattern.—Dovetail fret, in arch., a fret which has obtuse and acnte angles, being made up of diagonal lines, which gives to each section or member a wedge shape, as of a dovetail.

freta, n. Plural of *fretum.

fret-board (fret'bord), n. In musical instruments of the lute and zither classes, a strip of
friction-pulley (frik'shon-pull'), n. A pulley some or all of the strings can be stopped so as to alter the pitch of their tones. In the violin and similar instruments frets are now unusual, and the analogous part is called the content of the string can be stopped so as to alter the pitch of their tones. In the violin friction-ring (frik shon-ring), n. A loose and the analogous part is called the content of the string product of the string board.

fretum (frē'tum), n.; pl. fretu (+ii). [L. fre-tum, a strait, sound, channet.] In embryol., a constriction in the embryonic heart between the ventricle and the bulbus arteriosus.

F. R. G. S. An abbreviation of Fellow of the Royal Geographical Society.

F. R. H. S. An abbreviation (a) of Fellow of the Royal Historical Society; (b) of Fellow of the Royal Horticultural Society.

Fri. An abbreviation of Friday.

friar, n.—Reformed friar, one of the membera of a re-formed branch of a monastic order; specifically [eap.], a member of the Observantines, a branch of the Franciscana

dating from 1419. friar's-cowl, n. 2. Same as friar's-cap. frib (frib), n. [Imitative: cf. fribble.] A short, loose piece of a fleece of wool.

- Moment of friction, the product of the Frictional force which resists rotation, as of a shaft in its bearing, into the distance between the axis of rotation and the surface at which the friction occura.—Starting friction, static friction. See statical *friction.—Statical friction.—Statical friction frest. Also called starting friction and sometimes static friction.

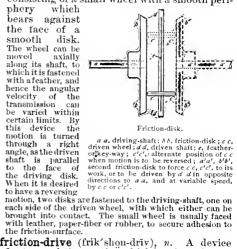
friction-brake, n.—Water friction-brake, a testing device in which the friction of a thin layer of water contained between a revolving and a stationary disk is used to absorb the power generated by the engine. Trans. Amer. Soc. Mech. Engin., XXIV. 740.

friction-calender (frik'shon-kal"en-der), n. A machine, consisting of three or more steel and paper cylinders, operated in contact with one another and at different degrees of speed, for imparting a gloss to cotton, linen, and other fabrics in the process of finishing.

friction-composition (frik'shon-kom-pō-zish"on), n. A mixture of substances capable of being readily ignited by moderato friction, as on the heads of ordinary matches, in artillery friction-primers, etc.

friction-disk (frik'shon-disk), n. 1. A device consisting of a small wheel with a smooth peri-

phery which bears against the face of a smooth disk. The wheel can be



for transmitting motion which involves the use of a friction-clutch or friction-gears.

drop-hammer which is lifted by friction-rollers acting on either a board or a strap. When the nip of the rollers is released, the hammer falls and delivers its blow.

friction-head (frik'shon-hed), n. In hydraul., the head lost in friction by an outflowing liquid. The friction-head is usually computed by the

figure. The friction-head is usually computed by the formula $4\mu \frac{L}{D} \cdot \frac{v^2}{2g}$, where D is the diameter of the efflux pipe, L its length, v the velocity of the outflowing liquid, μ the coefficient of skin-friction, and g the acceleration due to gravity. See head, τ .

friction-hoist (frik'shon-hoist), n. A light

hoist driven by the friction of the smoothly turned or grooved surfaces of pulleys or disks. If the applied load is excessive some of the friction-surfaces alip and the danger of breaking is lessened.

friction-clutches or -brakes. It is divided at one point of its ctrumference, and either pressed outward against a female portion or clamped around a male central portion by means of a lever or cam.

friction-roller (frik'shon-ro#ler). n. 1. A roller in a roller this sign-roller, w. 1. A roller in a roller in a roller in a roller small rollers which revolve in a bearing and the inner portion of whose periphery forms a bearing for a shaft. (b) one of a number of conical rollers which rum between two conical anriaces to form a non-frictional thrust-bearing.

ing.
2. A roller of small diameter, used with others to form a wedged frictional contact between a wheel and its shaft. This takes the place of a key and is used on drawing- and printing-presses to momentarily connect the driving-wheel to the crank-shaft. friction-socket (frik'shon-sok'ct), n. In drilling, a fishing-tool used for taking hold of a tool lost in the hole. Dialect Notes, II. vi. friction-sprocket (frik'shon-sprok'ct), n. A

Royal Institute of British Architects.

fricadillo (fri-ka-dil'ō), n. [Kitchen Sp. (?), < Sp. fricando, < F. fricandeau: see fricandeau and frieandelle.] A meat-ball or roll.

Friction draft-gear. See **draft-gear.*—Kinetic friction, the resistance which has to be overcome to maintain a sliding solid in uniform motion; sliding friction or slipping friction. See magnetic friction. See magnetic friction to the piece to be turned.

Friday, n.—Good-Friday grass. See *grass. Friedlander's bacillus. See *bacillus. Friedreich's disease. Same as Friedreich's

ataxia (which see, under ataxia).

friend, n.—Lady's friend, an officer of the House of Commons, prior to the abolition of parliamentary divorces in 1857, whose duty it was, when a husband sued for divorce or prayed for the passage of an act to divorce him from his wife, to see that proper provision was made by the husband for the wife's support.

friendly, a. II. n.; pl. friendlies (-liz). One who is friendly or acts as a friend; specifically, a native of a naturally hostile country who is not F. R. M. S. An abbreviation of Fellow of the Frondist (fron'dist), n. A member or suponly not hostile, but who acts as a friend to a

traveler, explorer, or the like.

Fries. An abbreviation (a) of Friesian; (b) of Friesic.

Frieslander (frêz'lan-dêr), n. An inhabitant of Friesland.

friez, n., v. t., and a. A simplified spelling of

frieze², n.—Irish frieze, a heavy, shaggy woolen cloth made from long, strong wool, compactly fabricated and made from long, strong wool, compactly fabricated and very durable: specially identified with Irish manufac-

frieze-cutter (frēz'kut"er), n. A machine for cutting a molded surface along the edge of a

board or strip. frigate, n.—Jackass frigate, a vessel between a sloop of war and a frigate in character, which carried a whole tier of guns and had a light spar-deck over its hattery. It also carried a couple of guns on the quarter-deck and one or more on the forecastle-deck.

fright, n.—**Precordial fright**, extreme anxiety, attended with a peculiar and distressing sensation over the region of the heart, probably due to a functional disorder of the sympathetic nervous system.

or the sympaneae nervous system.

frigotherapy (frig*\(\tilde{\ell}\)-ther'\(\text{a-pi}\), n. [Irreg. \(\left\)

L. frigns (frigor-), cold, + Gr. θεραπεία, medical treatment.] Same as *crymotherapeutics.

frijolito (fre-hō-lē)(1)(1), n. [Mex. Sp.] The

proper form of frigolito. ril, v. and n. A simplified spelling of frill. fril, v. and n. A simplified spelling of frill. frill², n. 4. The shell of a kind of scallop.

frill?, n. 4. The shell of a kind of scallop.
fringe, n.—Alleghany fringe, the climbing fumitory,
Adlunic fungosa.—American fringe, the fringe-tree,
Chionanthus Virginica.—Haversian fringes. See
synovial folds, under synovial.—Herschel's fringes,
interference fringes observed at the line of separation
between the totally reflected and the ordinarily reflected
light which emerges from a prism placed upon a plane
glass or mirror.—Interference fringe. See interference, 5.—Purple fringe, the smoke-tree, Cottinus Cottinus.
Also called false and purple fringe-tree.—Synovial
fringes. See synovial folds, under synovial.—White
fringe. Same as American *fringe.—Wood-fringe.
Same as Alleghany *fringe.
Fringe-bush (frini'bish). n. Same as fringe-

fringe-bush (frinj'bush), n. Same as fringe-

fringe-cup (frinj'kup), n. The two-leaved bishop's-cap or miterwort, Mitella diphylla: The two-leaved so called from the fringe-like petals rising out

of a cup-shaped calvx.

fringe-flower (frinj'flou"er), n. Any plant of the genus Schizanthus, of Chilean origin, several species of which have been introduced into belonging to the Solanaceæ, the corolla limb is more or less two-lipped and laciniate. Schizanthus pinnatuse has pinnatisect leaves, and flowers variable in color, the lower lip usually violet or lilac, the upper one paler, with a yellow blotch at its base and spotted with violet or purple. Also called butterfly-flower. See Salpiylossideæ.

fringe-loom (frinj'löm), n. A loem so equipped as to form the weft into long loops beyond the selvage.

fringe-moss (frinj'môs), n. Any moss of the genus Trichostomum.

fringe-tree, n.—False fringe-tree, the smoke-tree,

frison (fri-zôn'), n. [F.] A heavy woolen cloth with a long, thick nap, originally made in Friesland.

frit-fly (frit'fli), n. A European fly, Oscinis frit, whose larva seriously damages growing wheat and other small grains.

and other smart grants.

Pritillaria, n., 1. In California, F. pluriflora is the pink, F. coccinea the scarlet, and F. liliacea the white fritillary. F. pudica, on the eastern slopes of the Sierras, has solitary yellow flowers. The bulbs of F. Camachateensis were once a staple article of food among the aborigines of Kamchatka. For other species see *mission-bells and *stink-bells, Persantilly (under Persian) and toad-lily, 2.

fritillary, n.—Diana fritillary, and marcian mymphalid butterfly, Semmonyache diana, occurring in the hilly country of the southern United States, and in the larval state feeding on violets. It is remarkable for the great difference in color of the two sexes, the male having the wings brown broadly banded with orange, while the wings brown broadly banded with orange, while the wings of the female are black bordered with metallic blue.

—Great spangled fritillary, Arymnis cybele, and American species which occurs in Canada and the northeastern United States. Its larve feed on the leaves of the satern United States. Its larve feed on the leaves of the southern United States and reaching as far north as southern New Jersey and Pennsylvania and west to California. Its larve feed on passion-flower plants.—Meadow fribillary, Brenthis bellona, a small American species occurring in Canada, Colorado, and the northern Canada, Colorado, and the northern contents of the foreign of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. The water-snead of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to the region of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to passion of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to passion of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to passion of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. The verile values.

Fronto-orbital (fron*tō-for'bi-tal), a. Relating to passion of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to passion of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to passion of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Relating to passion of the forehead and orbit.—Fronto-orbital (fron*tō-for'bi-tal), a. Rela

United States. Its larvæ feed on violet plants.—Silverbordered fritillary, Brenthis myrina, a small American species occurring throughout Canala and the northern United States. Its larvæ feed on violet plants.—Variegated fritillary, Euptoicta claudia, occurring east of the Rocky Mountains, more abundantly in the southern United States. Its larvæ feed on the passion-flower, portulaca, violet, mandrake, stonecrop, and tick-trefoil. frizzing (friz'ing), n. 1. The act of producing a curled appearance.—2. A curly finish given to a heavily napped fabric.

498

to a heavily napped fabric.

F. R. Met. S. An abbreviation of Fellow of the Royal Meteorological Society.

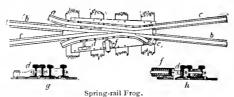
Royal Microseopical Society.

Frobenius's method. See *method.

frog!, n. 2. The presence of mucus on the vocal cords, causing hoarseness and an inclination to cough or hawk: usually called frog in tion to cough or hawk: usually ealled frog in the throat.—3. Aphthæ in children.—Catholic frog, a species of toad, Notaden bennetti, found in eastern Australia. Its popular name is derived from the dark cross on its back. Also called Holy-Cross toad.—Cohnheim's frog. Same as salt *frog.—Frog in the throat. See *frog1, 2.—Salt frog, a frog from whose vessels the blood has been drained away, its place being taken by a saline solution: used for physiological experiments. Also called Cohnheim's frog.

Frog 2. 3. An attachment to the frame of a

frog2, n. 3. An attachment to the frame of a loom, against which an iron finger strikes, stopping the machine should the shuttle fail to make timely passage through the warp.—4. In lumbering: (a) The junction of the two branches of a flume. (b) A timber placed at the mouth of a slide to direct the discharge of the logs.—Spring-rail frog, a railroad frog in which one of the four rails which form it is free to slide sidewise



a, guide-rail; b, main-line service-rail; c, siding-rail; d, spring-rail frog, closed and in normal position; c, pivot on which it turns; f, spring controlling spring-rail frog; g, elevation showing position of rails on a line drawn between first and second tie; h, elevation showing position of rails on a line drawn between second and third

upon bearings laid upon the ties. In its normal position the free rail is pressed by a spring against the three fixed rails of the frog, closing the opening and making the linerail practically continuous. When a car passes to or from the siding its wheels press the free rail to one side and open the frog, the spring closing it after the last wheel has passed. See frog2, 2.—Trolley frog, a device for fastening together trolley wires at any point where the trolley wire branches, and properly guiding the trolley wheel along the trolley wire on the movement of the car over the track. Houston, Diet Elect.

frog3, n. 3. In a carriage, an ornamental piece wood covered with silk or worsted woven to match the carriage-fringe.—4. In a harness, a pear-shaped ornament of patent leather, finished at the narrow end with a ring

frog-boot (frog'böt), n. A piece of heavy felt shaped to fit around the frog of a horse's foot and to fill the space between the frog and the

frog-cheese (frog'chez), n. The contents of

any immature puffball.

frog-eye (frog'i), n. A disease which affects tobacco-leaves, producing numerous small white spots. It is attributed to a fungus, Cereospora Nicotianæ. See *lcaf-blight.

frog-eyed (frog'id), a. Affected by the disease called frog-eve.

frog face (frog fās), n. A deformity, caused by the presence of an intranasal tumor, in which the face assumes a fancied resemblance to that of a frog. Buck, Med. Handbook, IV.

frog-flower (frog'flou"er), n. Any plant of the genus Ranunculus.
frog-grass, n. 2. The toad-rush (which see,

under rush1).

frog-leaf (frog'lef), n. The water-shield or water-target, Brasenia Schreberi.
frog-lily (frog'lil"i), n. The yellow pond-lily

-SilverAmerican *frog's-mouth (frogz'mouth), n. 1. Same as northern frogwort (frog'wert), n. The buttercup, Ra-1. Same as

nunculus bulbosus.

fromage (fromage, or, shape: see form, v.] Cheese. fromenty, n. See frumenty.

frondigerous (fron - dij'e-rus), a. [L. frons (frond-), leaf, + gerere, bear.] In bot., bearing fronds or leaves.

porter of the Fronde.

frondivorous (fron-div'ō-rus), a. [L. frons (frond-), leaf, + vorare, devour.] Devouring or feeding on leaves. Southey.

front. I. n. 10. In theat language: (a) That part of a theater which, from the actor's point

of view, lies in front of the curtain; the auditorium or audience part; hence, the audience itself: as, to be in the front. (b) Everybody engaged to work before the curtain.—11.

Milit., the entire system of defenses constructed along one side of the polygon inclosstructed along one side of the polygen inclosing the site to be fortified: as, a bastion or polygonal front.—12. The forehead-piece of a bridle, generally of leather with metal trimmings.—13. The exterior surface of a lock mortised into a door; the portion of a lock that is visible and through which the bolt passes; in a rim-lock, the end facing the door from —14. In cutow, practically the form passes; in a rim-lock, the end facing the door-frame.—14. In entom., practically the forehead; the part of the face between the eyes and between the vertex and the clypens.—Armored front, a false front used with a mortised lock as a temporary protection to the lock-front.—Astragal front, a lock-front having a molded (astragal) surface corresponding to the same type of door-molding.—Dry front, unting a microscopic objective which is separated by an air-gap from the object; in contradistinction to immersion lens.—Front of operations, the imaginary line connecting the front of the different columns or detachments of an army in active campaign.—Swing front, a device applied to a photographic camera which enables the objective to be placed at different angles to the axis of the camera.—To change front. See *change.

II. a. 3. In phonol., modified in utterance

II. a. 3. In phonol., modified in utterance by the configuration of the central portion of the front or upper side of the tongue.

Front vowels are rounded by the lips only.

H. Sweet, Eng. Sounds, p. 2.

Front matter, in printing, all the type-work before the text of a book. Title-page, dedication, table of contents, preface, etc., are rated as front matter.—Front office.

front, v. t. 5. In phonol., to pronounce with the front of the tongue, or as a 'front' sound. See *front, II. a. 3.

frontad (fron tad), a. [front + -ad3.] In an anterior direction. Buck, Med. Handbook, II.

3. Land that lies along a river frontage, n.

frontage, n. 3. Land that lies along a river or creek. [Australia.]

Frontal apron. Same as *apron, 6.—Frontal area, the surface of the skull extending from the orbits to the coronal suture.—Frontal index, moraine. See *index, *moraine.—Frontal point, in anthrop, the point where a line drawn inward from the higher outer part of the supercliary border of the frontal lobe intersects the mesial border of the cerebrum. Cunningham.—Frontal protuberance. Same as frontal eminence.—Frontal shield. (a) See frontal. (b) See *shield.

frontalis (fron-ta'lis), n. [NL.: see frontal.]

The anterior fleshy portion of the occipitofrontal is muscle.

frontalis muscle.

front-fall (frunt'fal), n. The falling of the front of a honse.

One front-fall of this kind in Fleet Street maimed several persons.

Southey, Doctor, clii. frontispiece (fron'tis-pes), v.t.; pret. and pp.

frontispieced, ppr. frontispiecing. [frontispiece. n.] 1. To furnish with a frontispiece.

—2. To use as a frontispiece: as, to frontispiece a map.
frontlet, n. 6. The skin which covers the

forehead of a mammal, particularly of a ruminant.

Frontonasal hinge, shield.

fronto-orbital (fron tō-ôr'bi-tal), a. Relating to the region of the forehead and orbit.—Fronto-orbital sulcus. See **sulcus.

Relating to the ferehead and to the zygomatie arches.—Frontozygomatic index. Same as stephanozygomatic kindex. Topinard.
frontward (frunt ward), adv. [front +

-ward.] Toward the front: as, a "road that frontward leads," S. Lanier.

The creature who stands front-ward to the stars.
The creature who looks inward to himself.

Mrs. Browning, Aurora Leigh, vii. 281.

frost, n. 6†. A spiked sole put on shees to enable one to walk on ice without slipping.

Great Rain and very Slippery; was fain to wear Frosts. Judge Sewall (Jan. 19, 1717), in A. M. Earie's Costume [of Colonial Times, p. 111.

Degrees of frost, temperatures expressed in degrees below the freezing-point. On the Fahrenheit scale the reading of the thermometer subtracted from 32° gives the temperature in degrees of frost: thus twenty degrees of frost correspond to +12° F; forty degrees of frost to -8° F.

-Jack Prost, a nursery personification of frost, especially in connection with the frost traceries on the window-name.

frost-bow (frôst'bō), n. A halo of white light attending the sun in cold weather. The term is applied popularly and indiscriminately (I) to the white rainbow of 18° to 41° radius, produced by the action of minute globules of water (the colored rainbow due to large drops has a radius of 40° to 42° 30°); (2) to the white halos of 22° and especially of 46° radius, due to the action of icervitals.

[Rare.]

[Rare.]

[Fruendal, (rö-en'dal), a. [L. fruendus, to be enjoyed (< frui, enjoy), + -at1.] Same as *fruendive.

[Fruendive.]

[Fruendal]

[Fruendus]

[Fruendive.]

[Fruendive]

[Fruend

frost-crack (frôst-krak), n. A wound in the trunk of a tree, caused by the splitting of the bark due to unequal shrinkage during a sudden frost.

Frosted heart. Same as *iced heart.

frost-figure (frôst'fig"ur), n. The formation of ice-needles or arboreseent figures on windew-panes or other surfaces by deposition of the frozen vapor of the atmosphere.

frost-flower (frost'flou'er), n. 1. Any plant of the genus Aster: so called on account of

especially likely to occur; an ice-cave.

frost-itch (frôst'ich), n. Same as pruritus hiemalis (which see, under pruritus).

hiemalis (which see, under pruritus).

frost-lamp (frôst'lamp), n. A lamp burned beneath the oil-chamber of a lighthouse lamp during cold weather, to proper the oil of the fruitarian (frö. 15/2) and fruitarian (fro. 15/2) and fruitarian during cold weather, to prevent the oil of the

latter from congealing. frost-mark (frost'mark), n. In gcol., the peculiar ring-like or hummocky surface produced upon loose sediments by the action of frest upon their contained water.

frost upon their contained water.

frost-plant (frôst' plant), n. Any plant on the stems of which crystals of ice are formed during the first freezing weather of autumn. The best-known plant exhibiting this phenomenon is *Hetianthemum Canadense*, but it has been observed in other species of that genus. (See frostweed.) The next most important Irost-plant is the American dittany. Cunita and roiganoides. Crystals of great beauty and perfection have been observed in this plant near Mount Vernon, Virginia. Less marked frost phenomena have been observed in annumber of other plants, as *Ptuchea camphorata* and P. fætida*, the heliotrope, and some thistles.

frost-ridge (frôst'rij), n. A prominent ridge on the trunk of a tree, formed by the repeated opening and healing of a frost-crnek.

frost-signal (frôst'sig*nal), n. A flag-signal indicating the appreach of a frost that is likely to prove injurious to vegetation. It is a white

to prove injurious to vegetation. It is a white flag with a black center. See cold-wave signal, under signal.

frostweed-aster (frôst'wed-as "têr), n. Same as white heath-*aster.

frowzled (frou'zld), a. Rumpled; tousled;

disheveled; frowzy.

Frozen ball, in billiards, the cue-hall in fixed contact with one or more object-balls.

F. R. P. S. An abbreviation of Fellow of the

Royal Photographic Society.

frs. An abbreviation of francs.
Frs. An abbreviation of Friesian or Friesia

R. R. S. C. An abbreviation of Fellow of the Royal Society of Canada. F. R. S. E. An abbreviation of Fellow of the

grain, + schiefer, sehist] In petrog., a thinly laminated fine-grained schist containing nu-

merous concretions resembling grains of wheat. It is one form of contact-metamorphism produced in clay slates and phyllites. The concretions appear to be incipi-ent stages in the formation of crystals of and alusite or sim-ilar minerals.

fructicultural (fruk-ti-kul'tūr-al), a. [*fructiculture (L. fructus, fruit, + cultura, eulture) +
-all.] Of or pertaining to fruit-culture.

fructiform (fruk'ti-form), a. [L. fructus, fruit, + forma, form.] Of the nature of or having the form of fruit: as, fructiform productions.

fructivorous (fruk-tiv 'o-rus), a. [L. fructus, fruit, + rorarc, eat.] That feeds on fruit; fruit-eating: as, a fructivorous bird.

fructosuria (fruk-tō-su'ri-ā), n. [NL. fructus, fruit, +-ose + Gr. ovpov, urine.] The preseuce of fruit-sugar in the urine when veided. fructule (fruk'-tūl), n. [NL. *fructulus, dim. of fructus, fruit.] One of the earpels or component fruits of a compound or aggregate fruit. [Rare.]

enjoyed, + -ivc.] Reserved for the satisfaction of desires: as, fruendire wealth. C. H. Chase, Prin. of Econ., p. 15.

frugalism (frö'gal-izm), n. [frugal + -ism.]
A conscious cultivation, defense, and advo-

caey of thrift and prudence by many persons or by a class; a kind of cult, distinguished from the personal habit of frugality.

frugalist (frö'gal-ist), n. [frugal +-ist.] One who accepts the puritan creed and practice of

*frugalism (which see).

Given the conditions of climate, drink, and disease, the thoughtful, cool-blooded, home loving frugatist was bound to outlive in the industrial masses the careless, roistering sensualist.

E. Ross, Social Control, p. 34.

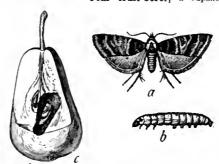
frost-flower (frost now control of the genus Aster: so ealled on account of the lateness of its blooming. —2. One of the ice-crystals of a frost-plant. See *frost-plant. fruit, n.—Ballistic, cataputic fruit. See *boltistic, *cataputic Confluent fruit, a compound fruit.—Fruit fallen, the produce of any possession detached therefrom and capable of being enjoyed by itself. Thus a next preaentation, when a vacancy has occurred, is a fruit fallen from the advowant. Wharton.

fruit, v. II. trans. To bring into fruit under cultivation.

fruitarian (frö lä ri-an), a. and n. [fruit + arian. The proper type would be fructuarian.] I. a. Of or pertaining to fruits; consisting solely of fruits and nuts, as a diet.

One of the chief objects of the series of experiments was to furnish data as to the value of nuts as food. Fruits contain little protein, and nuts are relied on in the fruitarian plan of eating to balance the ration.

Sci. Amer., Oct. 10, 1903, p. 255.



Pear Fruit-borer (Nephopteryx rubrixonella).

moth; b, larva; c, damaged pear with pupa. a, b, natural

Royal Society of Edinburgh.

F. R. S. L. An abbreviation (a) of Fellow of the Royal Society of Literature; (b) of Fellow of the Royal Society (London).

F. B. S. S. An abbreviation of Fellow of the Royal Statistical Society of the Royal Society (London).

F. R. S. S. An abbreviation of Fellow of the Royal Statistical Society.

F. R. S. S. A. An abbreviation of Fellow of the Royal Statistical Society of Arts.

fruchtschiefer (fröcht'she fer), n. [G. frucht, grain, + schiefer, sehist 1] In petrage a think.

the fig-eater, Allorhina nitida. - Brown fruit-chafer, an American cetoniid beetle, Euphoria inda, of

modest colors and wide distribution, which feeds on ripe fruit and Indian corn.—Pear fruit-chafer. Same as brown *fruit-chafer, n. 2. Same as fruiter. fruit-ether (fröt'e"ther), n. See *ether1.

fruiterer, n.

fruit-fly, n.— Cherry fruit-fly, a trypetid fly, Trupeta cingulata, which lays its eggs on cherries, in which its larve develop.

fruit-garden (fröt'gär"dn), n. A garden devoted to the growing of fruit.

fruit-maggot (fröt'mag"ot), n. A maggot which infests fruit.—Cherry fruit-maggot, the larva of a trypetid fly, Rhagoletis cingulata, which infests the fruit of the cherry.

fruit-mill (fröt'mil), n. A fruit-press. fruit-separator (fret'sep"a-ra-tor), n. A ma-

chine for sorting fruits according to size. fruit-stall (fröt'stâl), n. A stall in a market

or public place where fruit is sold.

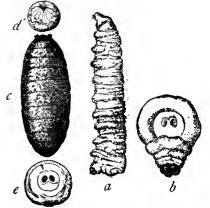
Fruit-tree bark-beetle. See *bark-beetle.—Fruit-tree leaf-roller. See *teaf-roller.

tree leaf-roller. See **leaf-roller.* fruit-worm, n.— Cranberry fruit-worm, the larva of a phycitid moth, **Mineola vaccinii, which laya its eggs on the young fruit of the cranberry: the larvae enter the berries and eat out the seed-chambers, a single larva sometimes destroying four herries.— Currant fruit-worm, the larva of an American geometrid moth, **Tephroclystis interruptofasciata.* It feeds on both the fruit and the foliage of the currant, and pupates between folded leaves.— Green-fruit worm, the larva of any one of several American noctnid moths, notably of **Iylina* antennata, which feeds on the foliage and young fruit of the apple, pear, peach, and strawberry.— Morelos orange fruit-worm, the larva of a Central American trypetid fly, **Trypeta ludens.** which lays its eggs on young citrus



Morelos Orange Fruit-worm (Trypeta Indens) Adult fly, Female, Enlarged, (From "Insect Life,")

fruits, its larvæ feeding on the pulp. It is common in parts of Mexico, and derives its name from the Mexican state Morelos. Its accidental introduction into the



Morelos Orange Fruit-worm (Trypeta Indens). a_i larva; b_i and segment; c_i poparium; d_i head; e_i and segment, a and e enlarged; b, d_i and e still more enlarged. (From "Insect Life.")

southern United States, and especially into California is greatly feared.—Peach fruit-worm, the larva of a Japanese tineld moth allied to Grapholitha.—Raspberry fruit-worm, an American dermestid beetle, Byturus unicotor, whose small white larva is often found on the inside of red raspberries after they are picked.

frunt, n., a., and v. A simplified spelling of front.

frustrate, a. II. n. A weak contraction of the ventricle of the heart, the impulse of which is imperceptible at the wrist, giving the impression of intermittent pulsations. Buck, Med. Handbook, IV. 599. frustulation (frus-tū-lā'shon), n. [frustule +

-ation.] A method of non-sexual reproduction in Cnidaria — It consists in the abstriction of small portions from lateral branches which bear no hydranths. These portions, except for the absence of cilia, resemble planulæ, becoming attached and giving rise to new colonies. Allman.

nles. Allman.
fruticetum (frö-ti-sē'tum), n.; pl. fruticeta
(-tā). [Nl., (L. frutex (frutic-), shrub, +-etum.]
A collection of living shrubs, usually for scientific exhibition; a scientific shrubbery.

fry¹, n.—Lamb's fries, the testicles of the lamb, prepared for eating. Called also maintain-oyster.
fry², n. 3. Any small edible fishes, as those of the family Engrandidæ, the anchovies, and certain fishes of the family Chipcidæ, as the sardines, and of the family Atherinidæ.—4. The roce of fishes, especially that of such fishes as: roe of fishes, especially that of such fishes as fudge-box (fuj'boks), n. The space on the fulcrum, n. 7. In rotifers, the short stem of are used for food.

Frying-pan brand, a large brand used by Australian cat-tle-stealers to cover and thus obliterate the brand of the owner of the stolen cattle.

fth., fthm. Abbreviations of fathom.

fuang (Siamese pron. fe'ang), n. [Siamese feua'ng (Michell, 1892).] A current Siamese silver coin, one eighth of a tical, equivalent to 3½ United States cents.

 \mathbf{fub}^3 (fub), n. The lowest quality of wool taken from a fleece.

fuchi (fö'chē). n. [Jap.] The ring into which the base of the handle of a Japanese sword The two principal parts of the hilt are the fuchi and kashira.

the fuchsia, n.—California fuchsia, Zauschneria Californica. Called balsamea by the Spanish Californians, who use it as a vulnerary. See Zauschneria.—Native fuchsia, in Australiasia, any one of several species of native plants. (a) In Australia and Tasmania, species of the genus Mazeudozeron, belonging to the rue family, especially M. speciosum. (b) In Queensland, a shrub of the family Myoporacere, Pholidia maculata. (c) In New Zealand, the kotukutuku, Fuchsia excorticata. See *kotukutuku, *konini, and *tookytook.

fuchsia_tree (fū'shiš_trā). n. The kotukutuku

fuchsia-tree (fū'shiä-trē), n. The kotukutuku, Fuchsia excorticata. See *kotukutuku.

fuchsin, n.—Acid fuchsin. See **acid-fuch*in.—Fuchsin bodies, minute rounded hyaline bodies, staining readily in fuchsin solution, found in certain malignant tumors.—New fuchsin. Same as new **magenta.

fuchsinophil (fök-sin'ō-fil), a. and n. [fuchin the presence of fuchsin dye: said of certain fuel either in an internal-combustion engine fuel either in an internal-combustion engine

II. n. A leucocyte which has a selective ac-

tion for fuchsin stain.

fuchsinophilic (fök-sin-ō-fil'ik), a. [fuchsinophil + -ic.] Same as *fuchsinophil.
fuchsinophilous (fök-si-nof'i-lus), a. Same

as *fuchsinophil.

fuchsone (fök'sön), n. [G. fuchson.] A name suggested for diphenylquinomethane, $(C_6H_5)_2$ C:C₆H₄O. An important group of dyes is derived from this compound, and a system of nomenclature was based

on the name fucose (fū'kōs), n. [L. fucus, seaweed, + -ose.] fugal² (fū'gal), n. [(centri) fugal.] A local A crystalline sugar, $C_6H_{12}O_5$, obtained by heating seaweeds with dilute sulphuric acid. fuddah (fud'i), n. Same as *fadda.



Fuddling-cup

lish earthenware cup made of several receptacles molded together and communicating one with another. To empty one it was necessary to empty all.

fudge, v. i. 2. In printing, to make use of improper materials or methods to produce a needed result with greater speed.

fudge, n. 2. In newspaper parlance, matter of supposed importance, as the latest snorting news or sensational stuff, which comes to hand too late to find a place in the plates before going to press, and is inserted in a special place by cutting the plates. See *fudge-box - 3. In a printing a newspaper parlance, matter of another of his attributes.

ful, a., n., adv., and v. A simplified spelling of full.

ful across full a box.—3. In printing, an unworkmanlike practice.—4. A kind of home-made candy composed of milk, sugar, butter, and chocolate,

boiled together, flavored with vanilla, and, when nearly cool, poured into a rectangular pan and cut into squares: more fully designated chocolate-fudge. When chopped walnuts form crum; specifically, in ichth., pertaining to the nated *chocolate-fudge*. When chopped walnuts form an ingredient it is known as *nut-fudge*. The name alludes to the hasty amateur manufacture.

front page of a newspaper cut out, or arranged to be cut out, if need be, to receive the matter called 'fudge,' that has come in while

Fuel ratio, the amount of heating-capacity in a fuel as compared with another fuel taken as a standard. Every coal has a capacity to raise a certain number of pounds of water one degree Fahrenheit for each pound burned: the ratio, experimentally determined of this heating-capacity or ealorific power to that of a pound of pure carbon is the fuel ratio of that coal.—Gaseous fuel, fuel in a gaseous state, which of late years has come to be more and more extensively used. It is chiefly represented by the 'natural gas' of petroleum regions, the waste combustible gases escaping from iron-smelting furnaces, and 'generator' gas specially made from coal or other solid forms of fuel. Among the advantages attending the use of gaseous fuel are the absence of ash, the high temperature attainable by application of the 'regenerative' principle, the easy transference for short distances through pipes or fines, and the easy control of consumption. On the other hand, limitations are placed on the use of such fuel by its bulkiness, and the consequent restriction of storage and of transport to any great distance.—Liquid fuel, fuel in a liquid state, as crude petroleum or the more or less purified hydrocarbon oils derived from it. Great importance attaches to its use under certain conditions. Among the chief advantages are the freedom from ash, the very high heat-producing value, the capability of storage without any waste of space and in tanks of any shape, the ready transference through pipes, and the easy control of consumption. Use of such fuel has been adopted to a greater or less extent in war-ships, pleasure-craft such as naphthal-aunches, and automobiles or motor-cars. For the last-named purpose alcohol has been to some extent substituted for petroleum products.—Patent fuel, a trade-name for coal-dust or coke-dust incorporated with pitch or other binding-material and molded into blocks or briquets.

or in a furnace. It is derived from crude petroleum by separating out the naphtha and kerosene by distilla-tion, and by abstracting part of the lubricating-oil.

fuel-value ($f\bar{u}'$ el-val $''\bar{u}$), n. The amount of heat which may be furnished to the body by oxidation of any given article of diet.

By fuel-value is here meant the total energy which a given substance can yield the body; in other words, it is the heat of combustion of that part of the food which is capable of oxidation within the body.

Encyc. Brit., XXVII. 444.

abbreviation for centrifugal: applied in Australia and elsewhere to centrifugal machines.

fuddah (fud'ā), n. Same as *fadda. fuddling-cup (fud'ling-kup), n. An old Eng- fugato, n. II. a. Of the nature of a fugue; to full-arc (ful'ārk), n. An electric arc supplied full-arc (ful'ārk), n. An electric arc supplied be rendered in fugue style, but not according

fuggerite (fug'ér-it), n. [Prof. E. Fugger of Salzburg + -ite².] A tetragonal silicate closely allied to gehlenite in composition, but differing in physical characters: found in the monopolite. of the Monzoni valley in the Tyrol.

fugitate (fū'ji-tāt), v. t.; pret. and pp. fugitated, ppr. fugitating. In Scots law, to sentence to outlawry for fugitation.

hand, and sometimes accompanied by a deer, another of his attributes.

ful, a., n., adv., and v. A simplified spelling of full.

fulaari (fö-lä-ä'ri), n. [New Guinea.] One of several masked executive officers in each village of British New Guinea, who, in accordance with native custom, are charged with all the sails set that properly belong to the pean placed by the taboochief on accordance. been placed by the taboo-chief on cocoanuts,

areca-nuts, etc., when a failure of crops is threatened.

processes on the base of fin-spines and rays by which the fin is erected.

the incus, one of the parts of the mastax or pharyngeal mill.—8. In the trilobites, the bend or the point of abrupt curvature of the thoracic pleura, which divides them into proxi-

the owner of the stolen cattle.

f. S. An abbreviation of foot-second.

f. S. An abbreviation of Fellow of the Society of Arts.

F. S. I. An abbreviation (a) of Fellow of Surveyors' Institute: (b) of Fellow of Surveyors' Institution: (c) of Free Sons of Israel.

F. S. S. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the whole of a circle.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. In abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. In printing, a taper or wedge-shaped slug designed to form part or the whole of a circle.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. An abbreviation of Fellow of the Statistical Society.

F. S. Sc. A. In printing, a taper of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgor

tion by lightning.

fulgurant, a. 2. In pathol., with lightning-like rapidity: an epithet applied to the pains of locomotor ataxia, because of the suddenness of their appearance.

fulgurating (ful'gū-rā-ting), p. a. Darting or shooting in the manner of lightning; lancinating: as, fulgurating pains.
fulgurator (ful'gū-rā-tor), n. In phys., a devico used in the study

phys., a device used in the study of the spark-spectra of substances. It consists of a vertical glass tube with platinum wires, a and b, which afford a spark-gsp. The terminal b is surrounded with a cspillary tube to the top of which the liquid to be vaporized by the spark rises, covering the platinum wire. The spark passes between the surface of this liquid and the upper terminal. fulgurite, n. 2. An explosive of the nitroglycerin class, used for blasting: similar to dynamite, but

blasting: similar to dynamite, but the nature of the dope has not been disclosed by the inventor.

been disclosed by the inventor.

full¹, a.—Full house. (b) In poker, same as full¹, a, 3.—Full line. (b) In printing, a line of composed types of letters only that fill the measure of the page or column. A fill the measure of the page or column. A fill the measure of the page or column. A full that consists partly of letters and partly of quadrats is known as a break line.—Full up of, full to satiety; 'sick and tired of 'sas, he was full up of the place. [Australia.]—Keep full for stays! an order to the wheelsman to keep a good full on the vessel so as to accelerate her speed a little before going in stays in order that she may come about quickly.—Keep her full! an order to keep the sails full of wind.

full¹ a A A ridge of grayel formed back of

full1, n. 4. A ridge of gravel formed back of a beach by storm-waves. [Local, Eng.]

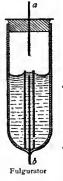
The wash of the waves, owing to percolation, piles up the pebbles thrown forward by the breaker, forming a bank, or ridge, or Full, and this is the action proper to the sea on a shore of shingle.

Geog. Jour. (R. G. S.), XI. 536.

To hold a good full, naut., to steer so as to keep the sails well belief out by the wind; to keep the vessel off sufficiently from the wind to fill her sails. full¹, adv. 5. In organ-playing, with all the stops drawn; with the whole power of the instrument; as, the piece was played full.

tors: as, brothers or cousins of the full-blood, or full-bloods of a certain tribe or race. Fuller's board. See *board.—Fullers' chalk. Same as fullers' earth.—Fullers' earth. (b) In geol., specifically, the middle subdivision of the Lower Oölites of the Jurassic system in Great Britain, constituting the Fullonian group or stage. It is underlain by the Bajocian series, with the Cheltenham beds at the top, and overlain by the Bathonian, the lowest member of which is the Great or Bath Oölite.—Fullers' grease. Same as Yorkshire **xgrease*, except that the term fullers' grease, when used in its strictly specific sense, applies only to the fatty acids recovered from the scouring of woolen cloth, excluding the grease from raw wool.—Fullers' scale. See **xsale3.

full-rigged ship. See ship.



full-toss (ful'tos), n. In cricket, same as *full-pitch.

fulminate, n.—Mercuric fulminate, a valuable explosive agent, made by the addition of alcohol to a warm of magnety in ultiple acid. It forms small yellows agent made by the addition of alcohol to a warm of magnety in ultiple acid. It forms small yellows agent made by the addition of alcohol to a warm of magnety in ultiple acid. It forms small yellows. piten. fulminate, n.—Mercuric fulminate, a valuable explosive agent, made by the addition of alcohol to a warm solution of mercury in nitric acid. It forms small yet lowish-white crystals, having acid. It forms small yet lowish-white crystals, having the composition HgC₂N₂O₂, very readily exploded by slight heating, friction, or a blow. It is too violent in its effects and too expensive to be used as a principal or primary explosive, but it is largely used in detonators and percussion-caps, to bring about the explosion of other materials, such as guncotton and dynamite. Also known as fulminating mercury or simply as fulminate. simply as fulminate.

fulminuric (ful-mi-nū'rik), a. Derived from fnlminic and uric acids.— Fulminurle acid, a colorless solid, $C_3H_3N_3O_3$, isomeric with cyanuric acid. It explodes at 145° C. Sometimes called isocyanuric acid.

fulsum, a. A simplified spelling of fulsome.

rulsum, a. A simplified speting of fulsome. fulvo-hyaline (ful*vō-hi'a-lin), a. [L. fulvus, yellow, + Gr. iáāxvōc, of glass: see hyaline.] Transparent but dark yellowish in color. fulvo-rufous (ful*vō-rö'fns), a. [L. fulvus, yellow, + rufus, red.] Dark yellowish red. fuma (fū'ma), n. [A back-formation from L. fumare, subject to smoke or vapor, < fumus, smoke vapor: see fund.] A trad, recent for smoke, vapor: see fume.] A trade-name for the vapor of carbon disulphid when applied to plants as an insecticide.

fumagine (fū'ma-jin), n. [NL. *fumago (fu-magin-), < L. fümus, smoke, + -ago (-agin-), as in imago, image, with a sense suggested by ærugo, rust.] The black or brown coating upon the leaves and stems of plants formed by

the mycelium of various fungi.

fumago (fū-mā'gō), n. [NL. (Persoon, 1818),

L. fumus, smoke, + -ago as in imago, image;
used in NL in a special sense: see imago.] A name which has been applied to the conidial

condition of species of Capnodium.

fumarine (fū'ma-rin), n. [Fumaria + -ine².]

A bitter alkaloid, C₂₁H₁₉O₄N, coutained in Fumaria officinalis. It crystallizes in prisms and is optically active.

fumarole, n. Sainte-Claire Deville distinguishes the following: (a) Dry fumaroles, which are very hot and yield volatilized anhydrous (for example, ferrie) chlorids. (b) Acid fumaroles, which yield sulphurous and hydrochloric fumes and steam. (c) Alkaline fumaroles, which yield sal ammoniae and steam at approximately 212° F. (d) Cold fumaroles, below 212° F., which yield steam, carbon dioxid, sulphureted hydrogen, etc. Annales de Chimie et de Physicae. 111 19

et de Physique, LII. 19.

fumarolic (fū-mā-rol'ik), a. Characterized by, pertaining to, or due to the action of fumaroles.

The placing of various ore deposits of many well-known districts in such classes as fumarolic solfataric, pneumatolytic, etc., without giving evidence for such a distribution, seemed to the speaker to be premature. Science, April 3, 1903, p. 543.

fumatorium (fū-ma-tō'ri-um), n.; pl. fumatoria (-ä). [NL.: see *fumatory2, fumitory2, n.] A fumatory; specifically, in recent use, an airtight structure in which small trees or other plants are fumigated to destroy scale or other insects.

funatory² (fū'ma-tō-ri), n. [NL. funatorium (recent use), \(L. funare, pp. fumatus, smoke: see fume, v.] Same as funitory² (which is a less correct form).

fumba (fom'ba), n. [Also mfumba; < Swahili fumba, with noun-prefix mfumba, connected with fumba, close, shut.] A sleeping-bag of matting used by the natives in the lower Zam-

besi valley.

fumble, n. 2. In base-ball, foot-ball, and other games, an act of fumbling.

The world's a well strung fidle, mans tongue the quill, That fills the world with fumble for want of skill.

N. Ward, Simple Cobler, p. 87.

fume, n.—Lead fume. See $\pm lead2$.

fume, v. i.— Lead time. See Aceast.

fume, v. i.— Fuming nitric acid, sn impure nitric acid containing other oxids of nitrogen; a reddish-yellow fluid giving off acrid fumes of the same color.— Fuming oil of vitriol. Same as Northausen acid or fuming sulphuric acid (which see, under sulphuric acid).

fumé (fū-mā'), a. [F., pp. of fumer, smoke.]
1. Smoked: as, verre fumé ('smoked glass'). -2. Smoky; having a smoky tint: as, quartz fumé. -3. That has been subjected to the process of fuming, as oak, in order to obtain an antique appearance.

fume-chamber (fum'chām"ber), n. A box or chamber connected with a ventilating shaft or exhaust, used in laboratories to carry off offen
Eunctional adaptation, hypertrophy, mem
Functional adaptation, hypertrophy, mem-

fumerole (fu'me-rol), n. See fumarole. fumigant, a. II. n. A substance used in fumigation. Jour. Soc. Chem. Industry, XIII. 657.

fumigate, v. t. 4. To darken the color of fundal placenta. See *placenta. (wood) in imitation of the effect of age and smoke. The process is also known as fuming.

of ammonia, in order to give it an appearance of age.—5. In photog., the process of exposing albuminized paper to the fumes of ammonia, which makes the paper print a trific more quickly and gives it a purple tone.

fumitory¹, n.—Bulhous fumitory. (a) The hollow-root or moschatel, Adoxa Moschatellina. (b) The hollow-wort. Capnoides carum.

fumivorous (fū-miv'ō-rus), a. [L. fumus, smoke, + vorare, devour.] Smoke-consuming. It [crematory apparatus] . . . is fumivorous, [and] emits no smell. Buck, Med. Handbook, III. 361.

funa (fö'nä), n. [Jap. funa.] The Japanese name of the common goldfish, Carassius auratus, found in the rivers of Japan.

funambulism (fū-nam'bū-lizm), n. [L. funambul-us, a rope-walker, + -ism.] The art of tight-

rope walking; rope-walking.

Funariaceæ (fū-nā-ri-ā'sē-ē), n. pl. Funaria + -aceæ.] A family of mosses of the order Bryales, typified by the genus Funaria.

They are characterized by the pear-shaped capsule provided with a neck and often raised on a long stalk. The family inclines 12 genera, of which Funaria and Physconitrium are the most important.

The family inclines 12 genera, of which Funaria and Physconitrium are the most important.

function, n.—Automorphic function. See *automorphic.—Characteristic function, in thermodynammorphic.—Characteristic function, in thermodynamics, a function of the generalized coordinates, the generalized forces, the temperature, energy, and entropy of a system in equilibrium, in terms of which all the properties of the system can be expressed.—Chromatic function. See *chromatic.—Compensation of functions. See *compensation.—Decreasing function, a function which decreases when its independent variable is increased.—Diaphoric function, a function of the tions. See *compensation.—Decreasing function, a function which decreases when its independent variable is increased.—Diaphoric function, a function of the differences of specified arguments.—Differential of a function of see *differential.—Element of an analytic function. See *dement.—Empiric function, a relation between two variable quantities, found by direct observation.—Equipotential function, a function in hy means of which equality of potential is specified.—Fractional function, a function in which the variable occurs in the denominator: as, \$a/x\$, or \$b/x^2\$.—Function of position on a Riemann's surface, a function of a function considered as having a value for every point of the Riemann's surface that is connected with the latter function.—Galton's function. See ancestral *inheritance.—G-function, Same as Green's *function.—Graph of a function, graph of the function f(x). See *araph.—Green's function, (a) A potential function which at all points of a contour is equal to log1/r, where r is the radius vector of the point from a fixed origin. (b) A function differing from that just defined by log1/r.—Group of a function. See *grapn.—Hyper-holic function. (c) A function bearing a relation to a rectangular (equilateral) hyperbola similar to that of the ordinary circular functions of trigonometry to a circle. The hyperbolic functions are not so named on account of any analogy with what are termed elliptic functions. See the extract.

The elliptic integrals, and thence the elliptic functions, The elliptic integrals, and thence the elliptic functions, derive their name from the early attempts of mathematicians at the rectification of the ellipse... To a certain extent this is a disadvantage;... because we employ the name hyperbolic function to denote cosh u, sioh u, etc., by analogy with which the elliptic functions would be merely the circular functions cos ϕ , sin ϕ , etc.

Greenhill, Elliptic Functions, p. 175.

Greenhill, Elliptic Functions, p. 175. Increasing function, a function which increases when its independent variable is increased.—Infinity of a function. See *infinity.—Inverse function or inverse of a function. When y=f(x), then x equals some function of y, say $x=\phi(y)$. These functions, f and ϕ , are then said to be inverse functions or anti-functions of one another. The sign of this inversion is minus one written as an index to the functional symbol: thus, $f=\phi-1$ and $\phi=f-1$, so that x=f-1 (y) and $y=\phi-1(x)$.—Kleinian function, antomorphic function which remains unchanged by the transformations of a Kleinian group.—Likehranched functions, functions of one and the same Riemann's surface.—Monodromy of a function. See monodromic function, under monodromic.—Octahedron function, a sextic function whose fourth derivative is identically zero, the canonical form being xy (x^4-y^4).— y^4 -function, a function denoted by y^4 , prononneed y, y.

$$\label{eq:energy_energy} \mathcal{E}u = \frac{1}{u^2} + \Sigma' \left[\frac{1}{(u-w)^2} - \frac{1}{w^2} \right],$$

where Σ' denotes a sum extended over all values of w except the value w=0.—Singular point of a function, See *point1.—Tesseral function, the function called by Heine and Todhunter associated function of the first kind; a function converted into a tesseral harmonic by the factor $\cos \sigma \phi$ or $\sin \sigma \phi$.—Verb function, an operator containing a purely symbolic letter β to denote the base of a given operation, so that when this verb function operates on a subject x, it produces the result obtained by writing x for β in the verb function: thus, using square brackets to inclose each separate operation, $[(c + \beta)^2]x = (c + x)^2$, whereas $[c + \beta]^2x = [c + \beta]$ (c + x) = c + (c + x) = 2c + x - Zero of a function. See *zero. where Y denotes a sum extended over all values of w exbrackets to inclose each separate operation, $\{(c+\beta)\}$ = $(c+x)^2$, whereas $[c+\beta]^2 x = [c+\beta] (c+x) = (c+x) = 2c + x$. Zero of a function. See $\bigstar zero$.

ory, murmur, paralysis, psychology, selection. See *adaptation, etc.
function-theory (fungk'shon-the "ō-ri), n.
Same as theory of functions (which see, under

function)

order to support the doctrine of Leibnitz that space and motion are purely relative, as against the doctrine of Newton that space is a thing. The difficulty in the Leibnitzian doctrine is that rotational velocity is not relative, unless some peculiar hypothesis is introduced to account for the phenomena. These hypotheses have usually consisted in supposing the existence of some motionless thing to which all motion is relative; but no good reason has ever been given for rejecting Newton's view that space itself is this motionless thing.—Fundamental gneiss. Same as *basement complex.—Fundamental length, plate or zone. See *length, *plate.

Fundad content. See *content3

Funded content. See *content3. fundicolar (fun-dik'ō-lär), a. [L. fundus, bottom, + colere, inhabit, +-ar3.] Inhabiting or living upon the sea-bottom: as, fundicolar mollusks.

Professor Pelseneer enumerates a few Magellanic species separately, and divides the Antarctic species into littoral, of which there are three species; fundicotar, of which there are twenty-nine, and pelagic, of which there are five.

Science, April 22, 1904, p. 658.

fundiform (fun'di-fôrm), a. [L. funda, a sling, + forma, form.] Having the form of a sling or a loop

funeral-director (fū'ne-ral-di-rek"tor), n. An undertaker. [U. S.]

Fungi, n. pl. Recent investigations have added much to the knowledge of the life-histories and relationships of this large group of plants. The term, as commonly used to include the slime-molds and bacteria as well as the fungi proper, does not signify a natural group. The present tendency is to restrict its use to the Eumycetes (true fungi). The cytological studies of Harper and others confirm the opinion that the rusts (Uredinales) are most closely related to the Basidiomycetes, while the researches of Thaxter have shown the existence of what appears to be a new order, the Myxobacteriales, showing characters of both Myxomycetes and bacteria. Various recent systematic arrangements of the fungi have been proposed, notably those of Brefeld, Schröter, Saccardo, and Engler and Prantl. These classifications differ chiefly in the terminology used, the relative rank given to different groups, and the position assigned to certain orders of more or less doubtful relationship. The sporological system of Saccardo, used in his "Sylloge Fungorum" as a basis for the division of the larger groups of the Pyrenomycetes, Discomycetes, and Fungi Imperfect, is very convenient but artificial. The following arrangement is based upon that given in Engler's "Syllabus." The termination of the classes of fungi to which they belong. Class I. Myxomycetes: orders Accusiales, Plasmodiophorales, Myxomycetes: orders Accusiales, Plasmodiophorales, Myxomycetes: orders Mucronulus, Entomophthorales, Tuberales, Class VI. Ascomycetes: orders Protomycets; orders Eubacteriales, Thiobacteriales, Eumycetes (true fungi): Class 111. Archimycetes: orders Parmeliales, Hetvellales, Saccharomycetales, Betwieteles, Phastailes, Perivales, Indeed, Tuberales, Plusteriales, Phacutiales, Perivales, Indeed, Tuberales, Puscales, Russilianycetes: orders Parmeliales, Engistrales, Puscales, Undales, Tuberales, Puscales, Puscales, Puscales, Puscales, Undales, Subclass Homenbaskii — order Ustiagenales;

fungicidal(fun-ji-si'dal), a. [fungicide + -all.]

Relating to fungicides or to the killing of fungus or fungi; having the property of destroying fungous or fungoid growths.

fungivore (fun'ji-vōr), n. [F. *fungivore, < L. fungus, fungus, + vorare, devour.] A tradename for a crudo preparation containing iron sulphate used at one time in France or sulphate, used at one time in France as a fungicide application to plants, as, for example, to vines attacked by Oidium.

fungose (fung'gōs), a. Same as fungous.

fungus, n.—Algal fungus. See *algal.—Black
fungus, a mane applied to any member of the Pyrenomycetales.—Fairy-ring fungus, the mushroom Marnsmius Oreades, which forms circles or parts of circles in
lawns and pastures, popularly termed fairy rings. See
fairy ring, under fairy.—Pungus cancer. Same as
fungus hematodes.—Fungus cerebri, protrusion of the
brain-substance through a fracture of the skull. Also
called cerebral hernia.—Fungus-digesting plant. See
*plant1.—Grasshopper-disease fungus, a species of
Sporotrichum which attacks grasshoppers and causes
their death. This fungus has been distributed for the
purpose of checking the ravages of grasshoppers in certain
parts of the United States.—Oak-root fungus, Same
as oak-seedling *disease.—Pine-cone fungus, the fungus. *Ecidium strobilinum, occurring on the scales of the
cones of pine.—Pine-leaf fungus, the fungus *Herpotrichia nigra, occurring on the leaves and branches of the
pine and juniper. See *Herpotrichia.—Shot-hole fungus, any fungus which attacks the leaves of certain trees,
particularly cherries and plums, causing minute purple
or brown spots, which later loosen and drop ont. Cylindrosporium Padi, Septoria cerasina, and other forms are
responsible for this disease.—Sore-shin fungus, a
species of Rhizoctonia which attacks the weak seedlings
of cotton-plants, producing an ulcer just at or below the
surface of the ground and often destroying the plant.
See *damp, 6.

fungus-body (fung'gus-bod'i), n. The large fungose (fung'gos), a. Same as fungous.

fungus-body (fung'gus-bod"i), n. The large compound structure of the higher fungi: dis-

of the lower fungi. De Bary. fungus-gall (fung'gus-gâl), n. A peculiar galllike growth produced upon various plants by the irritation induced by fungi.

fungus-pit (fung'gus-pit). n. A pit in which mushrooms and other fungi are cultivated. fungus-trap (fung'gus-trap), n. That part of

the root of a plant which contains a fungus the ultimate fate of which is to be absorbed

by the host plant. Frank.

funicle, n. 5. The central connecting process in those colonies of graptolites which bear no

funicular, a. 2. In anat.: (b) Resembling a funicular, a. 2. In anat.: (b) Resembling a cord or rope: a term used in describing the arrangement of muscle- or nerve-fibers.—
Funicular action, action exerted by means of a rope or cable: specifically, in mech., the pull exerted at the ends of a stretched rope or cord when a transverse force is applied to its middle.—Funicular curve. Same as catenary curve.—Funicular railway. See #railway.
Funiculus amnti, a cord which persists for a while after the closing of the amnion and chorion, in runninants, forming a connecting band between them.

funk?, r. II, intrans. To smoke offensively, as a five or chimpey, with puffs or gusts.

funk², r. II. intrans. To smoke offensi as a fire or chimney, with puffs or gusts.

But there my triumph's straw-fire flared and funked Browning, Fra Lippo Lippi, l. 172.

funk3, r. II. trans. To shrink from or dread; be afraid of: back out from. [Colloq.]

He "funked" the cholera, as he said, and of course he got it. Having got it, he told me that he funked it no longer—and he got over it. Geog. Jour. (R. G. S.), XII, 198.

funk3, n. 2. One who funks, shrinks from, or avoids, or who is in a state of funk.

avoids, or who is in a state of funk.

funnel, n., 4. (c) In the chambered cephalopods, the
extension of the septum about the siphuncle.—Buechner
funnel, a special form of funnel made of porcelain, having a perforated bottom on which the filter-paper is laid
flat.—Meyer's funnel, a glass funnel with its lower rin
turned inward and provided with a tubulus: used to
place over liquids in the process of evaporation to condense and collect vapors.—Septal funnel, one of the
narrow funnel-like depressions in the four gastric ridges
of the scyphula of certain jellyfishes, as Aurelia; an
infundibalum.

funnel-low (fun'el-boks) w. One of a series

funnel-box (fun'el-boks), n. One of a series of square funnels used in metallurgical works for separating metal-bearing slimes according to fineness.

funnel-breast (fun'el-brest), n.

funnel-chest (fun'el-chest), n. A sinking in of the sternum, forming a conical depression of the anterior wall of the chest.

fnnnel-draft (fun'el-draft), n. The draft or current of air and products of combustion from a marine boiler caused by the difference in the weight of hot gas inside the funnel or chimney when compared with that of an

equal column of external air.

funnel-tube (fun'el-tūb), n. A small glass funnel prolonged at the bottom into a tube of considerable length, much used in chemical considerable length, much used in chemical laboratories. The thie is passed gas-tight through the cork of a bottle or flask. Also called tube-funnel.—Safety funnel-tube, an ordinary funnel-tube with a double bend, with or without one or more bulbs. A liquid may be poured through it into a gas-generating flask without the risk of being driven out by sudden increase of gaseous tension. It also limits access of air to the contents of the glass, a liquid seal or valve being established by the part of the introduced liquid which lodges in the bend.

funnel-twister (fun'el-twis"ter), n. A European rhynchitid beetle, Rhynchites betulæ, whose larvæ live in beech-leaves, which they

roll into a funnel shape.

funori (fö-nö'ri), n. [Jap.] 1. A seaweed,
Glæopeltis intricata, from which the Japanese
prepare a fine kind of glue.—2. The glue
made from this seaweed. It is used for paste, starch, and sizing, the glazing and stiffening of textile fabrics, etc. Nat. Geog. Mag., May,

1905, p. 208.

funt (fönt), n. [Russ. funtŭ, < G. pfund = E. pound.] The Russian pound, equal to nine tenths of an avoirdupois pound.

tinguished from the simple filamentous thallus furciferine (fer-sif'e-rin), a. [Furcifer + -inc2.] Relating to or characteristic of the deer of the genus Furcifer, frequently placed in the genus Cariacus.

> A late larval stage in schizopodous crusta-ceans, in which the paired, stalked eyes be-come more fully developed and the most anterior pairs of thoracic and abdominal feet begin to form in succession from before backward.

North Pacific.

furcula, n. 3. In embryol., a forked median

bryonic pharynx between. the third and fourth pairs of visceral arches. It de-velops into the epiglottis of the adult .- Furenta supra-analis, a small forked sclerite just above the anus of a grasshopper. furculite (fer kū-

lit), n. [L. fur-cula, a fork, +Gr. $\lambda i\theta o c$, stone.] A microlite which has a straight stem and forked extremities. F. Rutley, in Mineralogical IX. 266. Mag.,

furevernic (fūrē-ver'nik),

[fur(furacea) + Evernia (see def.) + -ic.] Derived from Evernia furfuracca.—Furevernic acid, an acid, incorrectly called furevernacid, said to occur, in traces, in Evernia furfuracea.

furfuracryluric (fér"fér-ak-ri-lū'rik), a. Noting an acid which appears in the urine after the ingestion of furfurol.

furfural (fér'fér-al), n. [L. furfur, bran, +-al3.] See furfural.

furfuraldehyde (fer-fer-al'de-hid), n. Same as

furfurane (fer'fer-an), n. [L. furfur, bran, + CH : CH A colorless liquid, CH : CH

formed by the distillation of barium pyromucate with soda-lime : one of the products of the distillation of pine wood. It boils at 31.4-31.6° C., has a characteristic odor, and imparts an emerald-green color to a pine splinter moistened with hydrochloric acid. It is the parent substance of a class of compounds similar in structure to the pyridine and thiophene derivatives.

furfurine (fér'fèr-in), n. [L. furfur, bran, + -ine².] A colorless crystalline basic compound, C₁₅H₁₂N₂O₃, formed by the action of a dilute potassium-hydroxid solution on furfuramide. It melts at 116° C.

furfurylamide (fer'fer-il-am"id), n. [furfuryl + amide.] Same as furfuramide. furil (fű'ril), n. [fur(oin) + -il.]

A yellow crystalline compound, prepared by the oxida-tion of furoin, melting at 162° C. It is the analogue of benzil, and has the formula C4H3 $O.CO.CO.C_4H_3O.$

furilic (fū-ril'ik), a. [furil + -ic.] Of or pertaining to furil.—Furilic acid, a colorless, unstable, crystalline compound, (C4H3O)2COH.COOH, prepared by the action of potassium hydroxid on finely divided furil.

furl (ferl), n. [furl, v.] 1. A roll of what is furled.—2. The manner of furling (a sail), or the appearance presented when furled: as, a vessel is judged by the furl of the sails.

furld, pp. A simplified spelling of furled. furlo, n. and v. t. A simplified spelling of furlough.

tenths of an avoirdupois pound.

fun-ting (fun'ting'), n. [Also fên-ting; Chinese fun (fān), flour; Ting Chau, a place noted for its pottery.] A Chinese porcelain having a white paste, resembling in appearance soft paste but in reality hard.

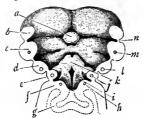
furca, n. 3. An inflected elastic anal organ ending in a fork, by which the animal is enabled to leap, as in Podura. Kirhy and Spence.

furcal (fer'kal), a. [NL. *furcalis, < L. furca, fork: see fork.] Of a fork; also, furcate or forked: as, the furcal processes of crustaceans.—Purcal orifice, a forked opening, as the sternal slit in certain Perlidæ.

furcilia (fer-sil'i-ä), n. [NL., < L. furca, fork.]

Furcimanus (fer-sim'a-nus), n. [NL., < L. furca, fork, + manus, hand.] A genus of zoarcid fishes found in the deep waters of the

protuberance arising in the floor of the em-



&, furcula.

The floor of the pharynx of a human embryo, twenty-three days old, seen from above.

embryo, (wenty-three days old, seen from above.

a, tuberculum impar; \(\delta\), mandibular arch; \(\epsilon\), hyoid arch; \(\epsilon\), first branchial arch; \(\epsilon\), second branchial arch; \(\epsilon\), first branchial arch; \(\epsilon\), first branchial arch; \(\epsilon\), first bartic arch in the third branchial arch; \(\epsilon\), iglottach in the first branchial arch; \(\epsilon\), first darch arch in the first branchial arch; \(\epsilon\), membrane closing the hyomandibular cleft, which afterward becomes the tympanic membrane. (From Marshall's "Vertebrate Embryology.")

furnace red. The retorts are elliptical in shape and, in the modern furnaces, their number exceeds 200. Also Belloin furnace, Elicherour's furnace a gas reheating furnace (other seeds in which are to be burning the property of the cold the product of the

of similar fire-brick chambers, which are thus heated up and become ready to serve the purpose of the first pair as these cool down, the gas- and sir-currents being shifted over at proper intervals from the one pair of chambers to the other. A number of other inventors have proposed modifications in detail of the original Siemens furnace.—Stetefeldt furnace, a shaft-furnace in which silver ores are chloridized and desulphurized by first pulverizing and mixing them with salt and then dropping them through a current of hot air. So called from its inventor.—Sulphate furnace, Same as salt-cake *furnace.—Wedding furnace, a form of furnace used at the Royal Porcelain Maunfactory at Berlin in 1861. It developed a very high temperature by the use of combustible gas along with a forced blast of air, the result being practically that of a blowpipe flame on a large scale. Furnaces of the same general character have been invented by Ekman, Fletcher, and others.

furnace-charger (fer'nās-chār'jèr), n. An of similar fire-brick chambers, which are thus heated up and become ready to serve the purpose of the first pair as those cool down, the case and air-currents being shifted the case are calculated to the case and air-currents being shifted the case are calculated to the case are calculated to

furnace-charger (fer'nās-char"jer), n. apparatus for weighing and feeding into a furunculous (fū-rung'kū-lus), a. Marked by furnace the proper proportions of ore, fuel,

furnace-gas (fer 'nas-gas), n. I. The produets of combustion from a lurnace.—2. The gas given off by a blast-furnace. This is rich enough in unconsumed carbon to be useful as a fuel for furze!, n.—Native furze, in Australia, an evergreen internal-combustion engines, for the production of steam, and for preheating the blast.

furzecoven (fer'nās-uv*n), n. A baking-furzace-oven (fer'nās-uv*n), n. A baking duets of combustion from a furnace. - 2.

furnace-oven (fer'nās-uv"n), n. A baking-

in bakeries.

furnace-plate (fer'nās-plāt), n. Iron or steel plate used to make the furnace or fire-box of

a steam-boiler.

furnisher, n. 2. In calico-printing, the cloth-covered roller or the cylinder-brush which furnishes the color to the engraved roller on the covered roller on the engraved roller on the engraved roller on the engraved roller on the covered roller on the engraved roller on the engra the eylinder printing-machine.

furniture, n., 3. (d) In a harness, all of the metallic parts with the exception of the bits and resettes.

the furniture-bug (fér'ni-tūr-bug), n. 1. The bedbug.—2. Any one of several thysanurous fusarial (fū-zā'ri-al), a. [Fusarium + -all.] insects of the family Lepismatidæ, commonly found on old furniture.—3. The silver-fish Afusarial disease of tomatoes occurs in Florida and

or slicker. See silver-fish, 6.

furoin (fū'rē-in), n. [fur(furaldehyde) + -o+ -in².] A colorless crystalline compound,
C4H3O.CO.CH.OH.C4H3O, melting at 135° C.
It is prepared by the action of potassium
cyanide on furfuraldehyde in dilute aqueouselachelia solution and overcompound to harvein alcoholic solution, and corresponds to benzoin. furonic (fū-ron'ik), a. [fur(furpropi)on(ie).]

Noting an acid, a colorless crystalline compound, C₇H₈O₃, formed by the oxidation of furfurpropionic acid. It melts at 180° C.

furred, a. 3. Fitted with a kind of partition made with furring strips, as an outer wall of The lath and plaster work are semasonry. The lath and plaster work are se-eured to the furring-strips and so are not exposed to the dampness of the wall.

Furriers' asthma. See *asthma.

Same as ambulacral grove (which see, under nmbulacral).—Dead furrow. Same as water-furrow. [U. S.]

The plowing of a thoroughly tiled field should leave no dead furrows for surface-water to follow.

W. I. Chamberlain, Tile Drainage, p. 68.

Riat furrow, in egri., a furrow so cut and so turned that the furrow-slice rests upon its face: opposed to tap *furrow.—Genital furrow, an infolding of the integriment just below the genital tubercle in the embryo: this becomes later the vulvar opening or the methra.—Ginteal furrow, the crease between the nates.—Interventricular furrow, a longitudinal depression on the external surface of the heart, on either side, marking the course of the septum between the two ventricles.—Jade-lot's furrows, various lines seen on the face in disease.—Lap furrow, in agri., a furrow in which the slice is so shaped and so turned that one edge rests on the preceding slice and 'another supports the succeeding one opposed to fat *furrow.—Lunold furrow, in glaciol., a crescentic depression due to subglacial crosion. Nature, April 10, 1902, p. 541.—Mayrian furrow one of the two oblique furrows which form a V-shaped figure on the mesonotum of male ants: not to be confounded with the parapsidal furrows.—Meridian furrow, a central furrow occurring in segmentation of the owns.—Nachal furrow. Same as *neck-furrow.—Open furrow, any furrow not filled by a furrow-slice; either a water-furrow proper or a cross-furrow for drainage.—Seed furrow, the last plowing before the sowing. Law, track Agr., p. 235.—To strike the furrows, in agri. to mark off the center of a ridge; to feer.—Ungual furrows, transverse grooves in the nalls, formed at the root during a severe illness or other period of lowerd antitition.—Vitelline furrow yolk-furrow, a linear depression on the surface of the ovum marking the eginning of segmentation.—Winter furrow, in barefallowing, the authmanal plowing. Loudon, Encyc. Agr., p. 892.

Furrow-pan (fur'ō-pan), n. In plowing. the bottom of the furrow compacted by the weight.

furrow-pan (fur'e-pan), n. In plowing, the bottom of the furrow compacted by the weight and action of the plow and horse; also the subsurface soil of a field so compacted.

standard the solid of a field so compacted.

furrow-whoel (fur'ō-lwel), n. In a plow, a small wheel running in the furrow. In gang sulky-plows, two are used, placed one behind the other at an angle. Instead of running vertically they are inclined outward to reduce the friction.

on which the fise is mounted, and a cover to prevent the escape of the mother metal when the fuse is overheated.

fuse-link (fūz'lingk), n. In elect., a link, made of fuse-wire or east from fusible metal, for inclined outward to reduce the friction.

a prince, lit. the first or chief person (L. primus or princeps), \(\) furist = AS. furst, E. first, a. \]
A German or Austrian title of nobility of lower rank than herzog, or duke, and higher than graf, or count. The title is usually translated prince': as, Fürst Bismarek. The feminine is fürstin.

A simplified spelling of furtive.

successive cruptions of boils.

fur-worker (fer'werk"er), n. In leather-manuf., a wheel for removing the oil from fur-skins. Modern Amer. Tanning, p. 204, furz, n. A simplified spelling of furze.

furzing. [For fuzz, v.] To become entangled, as silk fibers during the reeling from the cocoon.

These [weak cocoons] are separated from the other kinds, because in reeling they must be immersed in colder water in order to avoid any furzing or entangling in the operation.

Hannan, Textile Fibres of Commerce, p. 175.

bent, A. canina.

fusain (fü-zań'), n. [F., the spindle-tree, also charcoal made from it, (ML. fusago (fusagin-), (L. fusus, a spindle.] A crayon of fine charcoal; also, a charcoal sketch.

A fusarial disease of tomatoes occurs in Florida and also in England.

U. S. Dept. Agr., Div. Veg. Physiol. and Pathol.,
[Bulletin 17, p. 35.]

Fusarium (fū-zā'ri-um). n. [NL. (Link, 1809), L. fusus, a spindle.] Alarge genus of L. fusus, a spindle.] A large genus of hyphomycetous fungi, having more or less effused sporodochia and bearing mostly spineffused sporodochia and bearing mostly spindle-shaped or sickle-shaped light or bright colored conidia on branched conidiophores. About 300 species have been described, many of which are probably not distinct. Some are known to be the conidial forms of hypocreaceous ascomycetes and cause serious plant diseases, as F. vaninfectan, the conidial stage of Necosmospora vasinfecta, which causes the wilt-disease of cotton and cow-peas. See wilt-disease, under *disease,* and *wilt.* fuscin, n. 2. A black pigment found in the choroid and the epithelial layer of the retina, adjoining the choroid of the eve.

adjoining the choroid of the eye.

fuscohyaline (fus-kō-hi'a-lin), a. [L. fuscus, dusky, + Gr. ιάλινος, of glass: see hyaline.]
Dusky but translucent, as the wings of certain insects. Annals and Mag. Nat. Hist., April, 1903, p. 399.

porcelain or other refractory insulating material provided with terminals between which the fuse-wire of an electric circuit is connected. Fuse-blocks are commonly made in two parts, a base on which the fuse is mounted, and a cover to prevent the escape of the molten metal when the fuse is over-heated.

match which is set off by pulling a lanyard attached to a trigger.

fuse-wire (fūz'wīr), n. In cleet., wire made of an easily fusible metal and used to protect circuits from excessive currents. When the current passes a certain value, depending on the size of the wire, the latter melts, thus breaking the circuit.

furunculoid (fū-rung'kū-loid), a. [L. farunculus, a boil, + -oid.] Resembling a boil in appearance or sensation.

furunculose (fū-rung'kū-lōs), a. Same as *thrunculose*

thrunculose

furunculose*

Fusicoccum (fū-zi-kok'um), n. [NL. (Corda, 1829), (L. fusus, spindle, + Gr. κόκκος, berry.]
A genus of sphæ-

ropsidaceous fungi in which the pycnidia form more or less irregular chambers in a black leathery pusa black leatnery pus-tular stroma. The sporesare simple, hyaline, and usually spindle-shaped. The species occur chiefly on the branches of woody plants and some are regarded as the pycni-dial condition of species are regarded as the pychidial condition of species of the pyrenomycetous genns Diaporthe, F. Abietinum canses a girdling of the silver fir by killing the bark on the small

The technical name

of a process to which the harder resins, amber and copal, are subjected preparatory to using them in making varnishes. More than mere liquefaction being required, a partial destructive distillation is brought about by the continued action of heat, and volatile products are given off, after which the residue becomes soluble in turpentine and some other solvents. Sadtler, Bandbook of Indust. Chem., p. 109.

fusion, n. 6. In modern psychol.: (a) A mode of intimate connection of elementary mental processes, such that the connected elements are difficult of analysis, and the resulting complex approximates the simplicity of impression characteristic of the element itself. (b) The product of this connection; the blend or fused complex. The term has gained currency from its use in C. Stumpf's "Tonpsychologie" (1883, 1890). It is used with varying shades of meaning by different authors, and has not as yet received final definition.

By far the great majority of odours are not elementary at all, but compound,—mental complexes or fusions of the same sort as the note of a musical instrument, which is in reality a combination of a number of simple tones. E. B. Titchener, Exper. Psychol. 1. i. 70.

Aqueo-igneous fusion. Same as hydrothermal *fusion.

—Degree of fusion, the relative simplicity or complexity of a fusion of sensations. See the quotation.

plexity of a finsion of sensations. See the quotation. Since the fusion [of tones] presents all grades, from obvions complexity to a simplicity that counterfeits the simplicity of sensation, we may speak of a scale of fusion degrees. That fusion is the most perfect, which is most military in perception; that fusion is the least perfect, whose components fall apart most readily in perception.

E. B. Titchener, Exper. Psychol., l. 1, 171.

whose components fall apart most readily in perception. E.B. Titchener, Exper. Psychol., 1. i. 171.

Diffuse fusion, in Wundt's psychology, a fusion such as is presented by a noise, or a complex of noise and tone, in which the tonal elements may be referred to a certain region of the tonal scale, but cannot be separately identified as tones of definite pitch: opposed to distinct #fusion.—Distinct fusion, in Wundt's psychology, a fusion such as is presented by the clang or musical note, in which, while a single tone of definite pitch dominates the complex, the other modifying tones, though less in evidence, can also be identified by specially directed attention as tones of similarly definite pitch: opposed to diffuse #fusion.—Extensive fusion, in Wundt's psychology, the fundamental form of simultaneous association which gives rise to the idea of space. A fusion, for Wundt, is an association characterized by the intimacy of connection of the elements and the novelty of the resultant. The idea of space is termed an extensive fusion, in order to mark the nature of the total process which results from the association of the intensive and qualitative elements. Baldwin, Dict. of Philos. and Psychol., I. 308.—Heat of fusion. See fusion.—Hydrothermal fusion, fusion by heat in the presence of water or of water vapor; fusion by the combined action of like sensational elements: opposed to extensive *fusion.—Powder of fusion. See *powder.—Primary fusion, in embryod., union or fusion of undifferentiated structures, as in the formation of double monsters by the primary fusion of the axes of two embryods eveloping in the same egg.—Secondary fusion, union or fusion of embryonic structures at a relatively late stage, after they have been clearly differentiated.—Tonal fusion, in psychol.: (a) The mode of connection of simultaneous sensations of tone. (b) The perception set up by the concurrence of a number of simple tonal stimuli. See *fusion, 6.



fusion-disk (fū'zhon-disk), n. Same as *disk-

fusion-point (fū'zhon-point), n. The temperatnre at which a solid substance melts.

Fusoma (fu-zô mā), n. [NL. (Corda, 1837). (futil, a. A simplified spelling of futile.

L. fusus, spindle, +-oma.] A genus of hyphomycetous fungi, having the hyphæ but slightly spreading and bearing spindle-shaped septate conidia. F. parasitieum is a parasite on pine seedlings.

L. fusus, spindle, +-oma.] A genus of hyphæ but slightly spreading and bearing spindle-shaped septate conidia. F. parasitieum is a parasite roost.] A storeheuse for grain, etc., set on "Fuzzitypes' have no precise functions in illustrating fusus productions in the right hand. Also called milking and snowing.

[Colloq.] An interiorally blurred photograph. [Colloq.] house, = Hawaiian haka, a ladder, a hence the right hand. Also called milking and snowing. on pine seedlings.

fuss-budget (fns'buj"et), n. A nervous, fidgety person. [Dialect. U. S.] Dialect Notes, II. vi. fusser (fns'er), n. 1. One who fusses or makes a fuss over or about something.—2. One who 'fusses' over girls; a particularly active beau.

[New Zeal-and.]

futu (fö'tö), n. [Samoan and Tongan futu, Fiji vutu.] A name given in Samoa and Tongan futu, Fiji vutu.]

'fusses' over girls; a particularly active beau. [College slang.]
fustee (fus-te'), n. [Appar. a variation of mustee, mestee.] The offspring of a mestee and a white. [West Indian.]
Fustic snbstitute, a trade-name for a dyestuff consisting of quereitron extract to which stannate of soda or sulphate of zinc has been added. Sadtler, Handbook of Indust. Chem., p. 459.—Old fustic, a dyewood from Morus tinctoria, and also from Maclura tinctoria and Broussonetia tinctoria. See fustic.
fustin, n.—Patent fustin, a mordant acid coal-tar color of the monoazo type, prepared by combining diazotized aniline with fustic extract. It dyes wood yellow in an acid bath. An after-chroming renders the color faster. Also called wood yellow in Fusulinidæ (fu'sū-lin'i-dē), n. pl. [NL., \(Fu-\)

Fusulinidæ (fivsű-lin'i-dē), n. pl. [NL., $\langle Fu$ - fuz, n. and v. A simplified spelling of fuzz. sulina + -idæ.] A family of extinct Forami- fuze, fuzion. Simplified spellings of fuse, funifera, having fusiform or spherical ealeareous

roost.] A storehouse for grain, etc., set on four posts so beveled as to afford no held for rats that attempt to elimb them. [New Zeal-

ral tree having 4-cornered pyramidal fruit the outer portion of which is used by the natives as a fish-intoxicant. In Fijithe fruits are also used by the nsignatives as floats for fishing-nets and in playing a certain game. The tree is of wide distribution and is characteristic of the vegetation of the inner beach on many tropical shores. See *botony (with cut), and *Barringtonia formation. Also called hatty.

Future debt. See *debt.

fuye (fö'yā), n. [Jap.] The Japanese flute.



tests composed of spirally enrolled whorls which are divided into chambers by vertical septa and into chamberlets by transverse partitions.

fuzzing (fuz'ing), n. In shuffling cards, the act of taking one from the top and one from the bottom simultaneously, with the finger and thumb of the right hand. Also called milking

 ${}^{i}Fuzzitypes{}^{i}$ have no precise functions in illustrating geological phenomena. Rep. Brit. Ass'n Advancement of Sci., 1901, p. 341.

fuzzy-guzzy (fuz'i-guz"i), n. The common everlasting, Gnaphalium obtusifolium, so called from its fuzzy appearance. Also called feather-weed.

fyce, n. Same as fice.

fylactery, n. A simplified spelling of phylaetery.

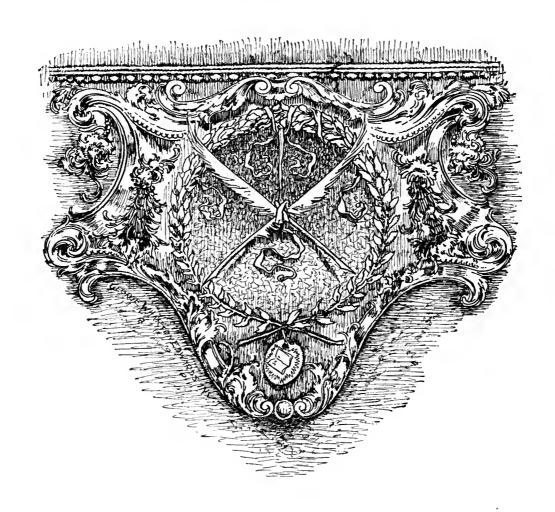
fyrk (fürk), n. [Sw. Dan.] A copper coin formerly current in Sweden and Denmark; 192 were equal to one rix-dollar.

fysic, fysical, fysician, etc. Simplified spellings of physic, etc.

fysiognomist, fysiognomy. Simplified spellings of physiognomist, physiognomy

fysiologic, fysiologist, etc. Simplified spellings of physiologic, etc.

F. Z. S. An abbreviation of Fellow of the Zoo-logical Society.











(h) The proper tone of the fourth or lowest string of the violin, which is therefore called the G-string. The violin or treble clef designates

the degree of the staff assigned to the G next above middle C.—6. In signed to the G next above middle C.—G. mediem. (b) G a, g, y, \(\delta \), \(\delta

of German and Germany; (c) [l. c.] of gram; (d) of gulf; (e) in a log-book, of gloomy weather.

Ga. 3. An abbreviation of Gaelic.

G. A. An abbreviation (a) of General Assembly; (b) [l. c.] of general average, gab⁶ (gäb), n. [Hind.] Same as gaub. gabare (gä-bär'), n. [F., < Pr. gabarra, = Sp. It. gabarra; origin unknown.] Naut., a store-

respectively. The management of the graph of the management of the graph of the gra

gabbro, n. It is proposed, in the field classification of igneous rocks in connection with the quantitative system of classification (1902), to use the term gabbro for all granular igneous rocks with dominant pyroxene and subordinate feldspar of any kind, with or without hornblende and mica. Such rocks would include the less feldspathic gabbros and norites, and some diorites. See *rock1.

gabbro-diorite (gab'rō-di*o-rit), n. 1. A rock intermediate between gabiro and diorite beverage and diorite beverage gabros and diorite beverage gabros and dispite beverage gabros and gabros gabros and gabros gab

intermediate between gabbro and dierite, having both pyroxene and hornblende in nearly equal amounts .- 2. A rock partly altered, or

completely metamorphosed, in which the horn-blende is secondary. Same as *metadiorite.
gabbroid (gab'roid), a. [gabbro + -oid.] In petrog., resembling or somewhat like gabbro; also suggested by Chamberlin and Salisbury (1904) as a general term applicable to any crystalline reck in which the ferromagnesian minerals predominate: thus, many diorites, gabbros, and delerites, and all peridetites would be gabbroids.

gabgab (gab'gab), n. [Chamerro gabgab, Tagaleg dapdap.] 1. On the island of Guam, the coral-tree, Erythrina Indica, the appear-ance of the bright searlet blossems of which announces the beginning of the rainy season. Its wood is soft and is used for making troughs.

—2. The South Sea arrew-roet. See *gaogua.
gabi (gä'bē), n. [Philippine Sp., also gaby,
gabc (spelled also gave), ⟨ Tagalog and Bisaya
gabi.] A name given in the Philippines to
the tare plant, Caladium Colocasia, the starchy roetstock of which is a food staple of the natives. Also called dagmai. See tarol and Colocasia.

gabilan (gü-bē-län'), n. [Sp., a hawk: see gavilan.] A name, in Mexico, of one of the large rays, Rhinoptera steindachneri.
gabing-ouak (gü-bing-ō-wäk'), n. [Tagalog

gabing-ouak, erow's-tare, (gabi, tare, + ouak, erow.] A very acrid stemless aroid, Typhonium divaricatum, which grows in damp places. [Phillipine Is.]

Gabien trip, wrought-iron gablon hoops so intertwined as to form an entanglement.

gabionate (gā'bi-on-āt), v. t.; pret. and pp. gabionated, ppr. gabionating. [gabion +-atc².]
To furnish or protect with gabions. Urquhart, tr. of Rabelais.

end.

gable. gable-wall (gā'bl-wâl), n. The wall which forms the gable-end of a house. In a simple square or rectangular house with doubled-pitched roof there are two side-walls and two gable-walls. Generally, but not always, a gable-wall rises into a pointed, triangular top. gab-motion (gab'mō"shon), n. A reversing valve-gear for slow-running steam-engines, in

which a gab-book is used to attach the eccenwhich a gab-hook is used to attach the eccentric-rod to the valve-stem or wrist-plate. There will be two eccentrics: one set relatively to the engine-crank for forward motion, and the other nearly 180 degrees from it for backward motion. Each will have its own rod, and will carry its gab-hook near the end. The engine, when started by hand, will continue to turn in the direction determined by the engagement of one or the other hook with the pin which drives the valve-rod.

(Gaboon rubber. See *rubber.

gaboric (ga-ber'ik), a. Same as *jaboric.—Gaboric acid. Same as *jaboric acid.

gaboridine (ga-ber'i-den), n. Same as *inhori-

gaboridine (ga-ber'i-den), n. Same as *jabori-

gaborine (gab'é-rin), n. Same as jaborine. Gackenia (ga-ke'ni-ä), n. [NL. (Heister, 1763), named in honor of A. C. Gackenholz (died 1717), named in honor of A. C. Gackenhot; (died 1717), professor at Helmstadt.] A genus of dicotyledonous plants of the family Brassicaceæ. To this genus belong the stock-gillyflowers, the most important species being G. incana (Cheiranthus incanus of Linneus), G. annua (Cheiranthus annua of Linneus), and G. tristis (Cheiranthus tristis of Linneus). See Matthiota.

gad¹, n. 8. A measuring-rod for land; a measure of length varying, in different districts, from nine or ten to as many as twenty feet—

from nine or ten to as many as twenty feet. -9. A division of an uninclosed pasture, said to have been usually 61 feet wide in Lincolnshire.

gad¹ (gad), n. [Ir. gad.] A cord or rope made from the fibers of the osier. [Irish.]
gadabout, n. 2. A light square box-wagon,

a substitute for the democrat.

a substitute for the democrat, gadenium (ga-dê'ni-um), n. [NL.] A name given to one of several alleged new chemical elements said to have been detected in rocks of glacial origin in Scotland. There is no good reason for believing in the existence of such a substance, and it is doubtful whether the original announcement was intended to be taken seriously.

gadfly, n.— American gadfly, Tabanus americanus.— Black gadfly, Tabanus atratus.— Black-striped gad-fly, Tabanus nigrovittatus.— Mexican gadfly, Tabanus mericanus

gadge (gaj), n. [A blunder due prob. to an imperfect memory of ganch, or a pseudoarchaism, gagge, old spelling of gag, erro-neously supposed to have been pronounced gadge (gaj).] A spurions word, in the passage quoted, intended to denote some instrument of terture.

Ah, they come! Fly you, save yourselves, you two! The dead back-weight of the beheading axe! The glowing trip-hook, thumbscrews and the gadge!

Browning, A Soul's Tragedy, i.

gad-hook (gad'hûk), n. A long pole terminating in an iren heek, used by millers to clear their streams of floating logs and branches. Also gad-crook. F. T. Elworthy, Dialect of West Semerset. [Eng. Dial.]
gadimine (gad'i-min), n. [Origin not ascertained.] A non-poiseneus ptomaine, C₇H₁₈ gage², v. t. 4. To adjust the proper quantity of water to be used in mixing hydraulic cermins and of corpses.

rings and of corpses.

gadolinia (gad-ō-lin'i-ä), n. [NL.: see gadolinium.] In chem., oxid of gadolinium, ene of the rare earths, found as a constituent of the mineral samarskite from North Carolina; also found in orthite.

gadolinic (gad-ō-lin'ik), a. In chem.: (a) Containing gadolinium as a chemical constituent: as, gadolinic nitrate or snlphate. (b) Relating to or derived from gadelinite.

gable¹, n. 4. In mech., the outer end or tip of the crank in a cranked axle or shaft. The finishing of this is termed cutting the gable.
gable¹ (gā'bl), v. t.; pret. and pp. gabled, ppr. gabling. To give to a roof a gable or gabled candom weight about 156. It perhaps represents a mixture of more than a single element.
gadolinum (gad-ō-li'num), n. In chem., same candolinum)

as gadolinium.

4. In music: (d) The G next shove middle C has (at French pitch) about 388 vibrations per second.

(h) The proper tone of the court of the proper tone of the court of the court of the court of the court of the shows a substance obtained by the court of the court of the shows a substance obtained by the court of the substance of the substance obtained by the court of the substance obtained by the court of the substance obtained by the court of the substance obtained by sibly ideutical with the morrhuic acid, C_9H_{13} NO₃, described by Gautier and Mourgues. gad-wand (gad'wond), n. A goad for oxen. gaidinic (je"i-din'ik), a. [See *gaidic.] Same

as *gaidic.

Gaelicist (gā'li-sist), n. [Gaelic + -ist.] A student of Gaelic; one who advocates the study and use of Gaelic.

So far as the patriotic, the national, situation is concerned, we think that Dr. Hyde and the Gaelicists may be reassured.

Evening Mail, Nov. 28, 1905.

gæsum (jē'sum), n. [LL. or ML. gesum, gesus, Gr. $\gamma ai\sigma ov$, $\gamma ai\sigma ov$, a spear; cf. AS. γair , a spear; see gar^1 , $gore^2$.] A long, heavy javelin peculiar to the ancient Gauls.

gaf, n. and v. A simplified spelling of $gaff^1$. gaff, n. and r. A simplified spenning of yaw.
gafff, n.—Fore-trysall gaff (naut.), the gaff to which
the head of the fore-trysall is bent.—Standing gaff,
gaffs which are kept hoisted, or throated and peaked,
and on which fore-and-aft sails are set by means of an
outhand, and furled by means of brails. These sails have

gaff³ (gaf), n. [Of slang origin?] Short for

gaff⁴ (gaf), n. [Origin obscure.] Used in the gaff-band (gaf') and), n. A split spring-band, designed to fit over a gaff, and held together, by a screw-bolt which draws the ends together, binding it to the gaff.

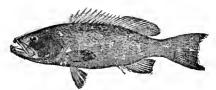
gaffer², n. 3. A workman in a glass-factory; a finisher.

gaff-net (gaf'net), n. Naut., an angler's net for landing fish: used in place of a gaff-hook. gaff-sail (gaf'sal), n. Naut., a fore-and-aft sail which sets upon a gaff: in distinction from a staysail or a squaresail, which set respectively upon a stay and a yard. See cut under aan1

gaff-string (gaf'string, n. Naut., an English term for a rope for making fast a portable post or staff to the side of a lighter.

Gaff-topsail clue-line. See *clue-line, *hal-

gag² (gag), n. [A particular use of gag¹, n.] A common name of Mycteroperca microlepis, a large serranoid fish, attaining a length of two



Gag (Mycteroperca microlepis). (From Bull, 47, U. S. Nat. Museum.)

ment.

ment.

gage², n. 5. A pipeful of tobacco. N. E. D.

—Auger-bit gage. See auger-bit.—Birmingham gage, a gage for wire and sheet-metals, which was adopted in Birmingham, England. See wire-*#page and *#B. W. G.

Boiler-plate gage, a caliber-square adapted to measuring the thickness of sheet-metals.—Carpenter's gage, a gage for scribing: used by carpenters to mark an incised line parallel to the edge of a board, or the like.—Circumference gage, a slide-rule and caliber-gage grad-nated to give readings of the relative circumference and diameter of a rope or other cylindrical body; an internal and external gage.—Closed-vacnum gage, a mercurial barometer-gage for pressures below 1,000millimeters. The upper limb of the U-tube is scaled and a trap inserted.—Combination gage, a gage which indicates two measurements, as pressure and vacnum, pressure and head of water, or pressure and temperature of stemm.—Compound gage. Same as combination *#gage.—Cylindrical*

gage, a standard steel gage for measuring internal and ex-

gage, a standard steel gage for measuring internal and external diameters.—Glass-cutter's gage, an instrument for measuring and marking glass. It is essentially a scratch-gage having a diamond-point at the end.—Hook-gage, a gage for measuring the height of water in a stream or reservoir in which the zero of the gage, or the point intended to coincide with the surface of the water, is the point of a sharp metal rod or heavy wire depending from the gage and bent in the form of a hook pointing upward and touching the water surface from beneath the surface.—McLeod gage, an apparatus for measuring very small pressures by taking a known volume of the gas whose pressure is to be measured and compressing it into a very small tube; its volume and pressure after compression having been observed its original pressure can then be calculated by Mariotte's or Boyle's Law.—Rallway-gage, the distance between perpendiculars on the insides of the heads of the two rails of a track. Standard gage is 4 feet 8½ inches; anything less than this is narrow gage; anything broader is broad gage. The dimension was fixed for the United States by the wheels of the British locomotive imported from the Stephenson Works in 1829. The gage, in England, is probably due to the fact that the distance from center to center of wagon-wheels is bive feet; the first rails were troughs or channels to receive these five-foot wheels. When the change was made to flanged wheels in place of flanged rails, the axle or center dimensions of the wheels were not changed, but the gage was made to conform to the dimension of the modified wheel-tread. Some railways in the United States it was six feet. The narrow gage in Europe is one meter: in the United States three feet; in the United States it was six feet. The narrow gage in Europe is one meter: in the England was seven feet; in the United States it was six feet. The narrow gage in Europe is one meter: in the England was seven feet; in the United States it was six feet. The narrow gage in Europe is one meter: in

Number.	Birmingham: inch.	Brown and Sharpe:	New British : inch.
0	0.34	0,325	0.324
10	0.134	0.102	0.128
20 30	0.035 0.012	0.032	0.036
40	0.012	0.010 0.0031	0.012 0.0048

gage-brick (gāj'brik), n. See gaged brick, under $brick^2$

Gaged work. See *work.

gage d'amour (gäzh dä-mör'), n. [F.] A

pledge or token of love.

gage-field (gāj'fēld), n. The field covered by
a photograph of a restricted area of the heavens, made with a given instrument, under constant conditions, for the purpose of gaging the abundance or density of the stars in that

As a specimen of a photographic gauge-field on a small scale, we may take Prof. Pickering's catalogue, from the Harvard plates, of 947 stars within 1° of the north celestial pole. The region examined lies about 27° from the zone of the Miky Way, but is nearly reached by a faint extension from it.

A. M. Clerke, In Smithsonian Rep., 1891, p. 107.

gage-plate (gāj'plāt), n. An adjustable stop fitted on shearing, punching, and cutting-off machines, as a guide for cutting or punching pieces to a uniform dimension.

gage-rod (gāj'rod), n. An iron or steel rod, from ‡ to ½ inchindiameter, the ends of which are tapered nearly to a point, used in measuring the internal diameter or bore of a piece which must be carefully fitted. Such a rod is also used to test the shape of flues of internally fired boilers when subjected to hydraulic pressure to ascertain if there is any tendency to flatten out or assume an oval form.

gage-tube (gāj'tūb), n. A tube used to connect a pressure- or other gage to the cylinder or vessel the pressure in which is to be ob-

gage-weir (gāj'wēr), n. A dam of which the whole, or a portion, consists of movable shutters or wickets, by opening or closing which at different stages of water the height of water above the dam can be regulated.

gaging, n. 4. Calcined gypsum added to plaster to regulate its rate of setting or hardening.

gaging-line (gā'jing-līn), n. A graduated line drawn on a gaging-rod or slide-rule which is galactase (ga-lak'tās), n. used for measuring the contents of casks.

gag-strap (gag'strap), n. A short strap which passes under a horse's jaw. The ends are secured to rings or eyes in the top arms of the

gaidic (gi'dik), a. [(hypo)gc(ie) + -id + -ic.]

Derived from hypogeic acid. - Gaidic acid, a colorless crystalline compound, $C_{16}H_{30}O_{2}$, melting at 33°C. It belongs to the oleic series and is formed by the action of nitrous acid on hypogeic acid, with which it is isomeric. Also called gwidinic acid.

Gaidropsarinæ (gi''drop-sa-ri'nē), n. pl. [NL., Gaidropsarus + -inæ.] A subfamily of ga-doids or catfishes, including the bearded rock-lings, typified by the genus Gaidropsarus.

Gaidropsarus (gi-drop'sa-rus), n. [NL. (Ra-finesque).] A genus of fishes, including the three-bearded rocklings, of the family Gadidæ, found in the North Atlantic. The commonest European species is G. mediterraneus. The genus is commonly known as Onos or Motella, but the name Gaidropsarus is much older.

Gaillardia, n. 2. [l. e.] A plant of the genus Gaillardia. Of the cultivated species, G. aristata is a perennial and G. pulchella and G. amblyodon are annuals, G. lanceolata of pine-harrens in the southern United States has the book-name of sweet gaillardia, from the scent of its flowers. Rayless gaillardia is G. suaris, found from Kansas to Texas. Various species are called blanket-flower in the West.

gain', n. Law of greatest gain, a phrase used to express the alleged universal tendency of human nature to try to secure a maximum amount of wealth, or satisfaction of wants, through a minimum expenditure of effort, or endurance of pain.

The fundamental law of human nature, and therefore of political economy, is that all men will, under all circumstances, seek their greatest gain.

L. F. Ward, Dynamic Sociol., I, 20.

Gainfahren marl. See *marl¹.

gaining-head (gā'ning-hed), n. The holder for revolving cutters on the end or head of a rapidly revolving shaft, by which rectangular channels or grooves are cut across the grain of timber. Such grooves or gains are cut by chiseledged entter which alternate with small segments of the edge of a circular saw, and which are all held in grooves or dovetailed channels in the tool-holder called the head. The saw-segments cut the fibers at the sides of the gain and the chisel-cutters remove the wood between to the desired depth.

gaining-saw (gā'ning-sâ), n. A saw for cutting square grooves or gains across the surface of timber: most frequently used in connection with or as part of a *gaining-head (which see).

gainshire (gān'sher), n. [Origin obscure; perhaps a dial. var. of *gancher, < ganch, v.] The barb of a fishing-hook. Halliwell.

gain-wheel (gān'hwēl) n. A pinion-gear on a

spinning-mule which canses a supplementary drawing of the roving, from the fact that the spindle-carriage gains, in its speed of outward traverse, upon the delivery-rollers.

gait¹, n.—Ataxic gait. See ★ataxic.—Cerebellar gait. See ★cerebellar.—Paralytic gait, a shuffling mode of progression in which the anterior portion of the foot drags along the ground at each step.—Spastic gait, progression by means of short steps, the ball of the foot first striking the ground and further progress being thereby momentarily arrested: observed in lateral apinal sclerosis.—Steppage gait. Same as stepping ★gait.—Stepping gait, a disorder of progression, often noted in multiple neuritis, in which the foot is raised far from the ground at each step. Also called steppage gait.

pait² (gāt). v. t. [aait² n.] To set up (gaits of

gait² (gāt), v. t. [gait², n.] To set up (gaits of grain) to dry. See gait², 2. gaiting-pole (gāt'ing-pol), n. A short pole attached to a sulky in such a position as to keep the horse straight in the shafts. It has a wooden roller which plays against the body of the horse.

gaize (gaz), n. [F.] A fine-grained frag-mental rock, of granular and porous texture and of silicious composition, distinguished by the fact that a considerable percentage of he silica is scluble in alkalis: found in the Cretaccons and Tertiary formations of France. Geikie, Text-book of Geol. (4th ed.), p. 166.

gala¹, n. 2. Festal attire; one's best clothes: as, to be in gala. [Scotch.] galach, n. See *galah.

galactacrasia (ga-lak-ta-krā'zi-ā), n. [NL., ⟨Gr. γάλα (γαλακτ-), milk, + κρᾶοις, mingling.] An abnormal condition of the milk of a nursing woman.

galactan (ga-lak'tan), n. [galact(ose) + -an.] A gummy substance, $C_6H_{10}O_5$ (γ -galactan), allied to manna, which is extracted from the galactan (ga-lak'tan), n. seeds of legumes and is formed to a small extent during certain fermentations. It is oxidized to mucic acid by means of nitric acid and yields galac-

[Gr. γάλα (γαλακτ-), milk, + -ase.] A proteolytic ferment, occurring in milk, and capable of digesting easein. It produces decomposition-products similar to those which normally occur in ripened cheese. It has been suggested that it may be responsible for many of the phenomena associated with cheese ripening which were formerly attributed to the action of bacteria.

Galactic acid, a yellow, syrupy, tetrabasic acid, $C_{14} B_{10}$ $O_9(?)$, formed by the gentle oxidation of lactose (milk-sngar).—**Galactic plane**, the plane of the galactic circle (which see, under galactic).

A most important and Jucid paper by Professor Simon Newcomb has been published on the position of the galactic and other principal planes toward which the stars tend to crowd. He states the problem thus: "It is well known that the sky appears to ns poorest in stars in the regions around the poles of the galaxy, and that it continually grows richer at a rate which is slow at first but more rapid afterwards, from the poles toward the galactic circle." Within the galactic girdle, the thickness of the stars in space is approximately constant, but in the Miky Way itself it is obvious that it-consists of agglomerations of stars which have often fairly well defined boundaries; the stars here are much thicker than outside the girdle.

**Knowledge*, Sept., 1904, p. 220.

galactin (ga-lak'tin), n. [Gr. $\gamma \acute{a}\lambda a$ ($\gamma a\lambda a\kappa \tau$ -), milk, + $\cdot in^2$.] An amorphous substance, $C_6H_{10}O_5$ (a-galactin), which is obtained from the seeds of certain legumes. It is strongly dextroyidate and videls calculated

the seeds of certain legumes. It is strongly dextrorotatory and yields galactose and a non-cryatallizing angar upon hydrolysis with dilute acids. It is possibly identical with gelose.

galactite, n. 2. A glucoside, C₉H₁₈O₇, found in the yellow lupine. It is crystalline, optically inactive, and melts at 140-142° C. It yields galactose on hydrolysis.

galactoma (gal-ak-tō'mā), n.; pl. galactomata (-ma-tā). [NL., < Gr. γάλα (γαλακτ-), milk, + -oma.] Same as galactoele.

galactometastasis (ga-lak*tō-me-tas'ta-sis).

galactometastasis (ga-lak*tō-me-tas'ta-sis),

n. [NL., ⟨ Gr. γάλα (γαλακτ-), milk, + μετάστασις, change: see metastasis.] Secretion
of milk from some part other than the normal breasts.

galactonic (gal-ak-ton'ik), a. [Gr. γάλα (γα-λακτ-), milk, + -one + -ic.] Derived from lactose.—Galactonic acid, a colorless acid, $C_6H_{12}O_7$, crystallizing in needles. It is prepared from lactose (milk-sugar) on oxidation by means of bromine, and is a racemic mixture. Also called lactonic acid.

galactopathy (gal-ak-top'a-thi), n. [Gr. $\gamma\dot{a}\lambda a$ ($\gamma\dot{a}\lambda a\kappa\tau$ -), milk, + - $\pi a\theta\epsilon\iota a$, $\langle \pi\dot{a}\theta o \varepsilon$, disease.]

Same as milk-cure.

galactophore (ga-lak' tō-fōr), n. [Gr. γάλα(κτ-), milk, + -φορος, ζφέρειν, bear.] A galactophorous duct

Both the galactophores, or glands, and the supportive areolar tissue develop rapidly.

G. S. Hall, Adolescence, L 420.

Same as *galactometastasis.

galactopoiesis, galactopoësis (ga-lak*tō-poi-ē'sis, -pō-ē'sis), n. [NL., < Gr. γάλα (γαλακτ-), milk, + ποίησις, making.] The secretion of milk.

galactopyra (ga-lak-tō-pī'rä), n. [NL., ζ Gr. γάλα (γαλακτ-), milk, + πυρ(ετός), fever, ζ πῦρ, Same as milk-fever.

galactoscope (ga-lak'tō-skōp), n. [Gr. $\gamma \dot{a}\lambda a$ ($\gamma \dot{a}\lambda a r$ -), milk, $+\sigma \kappa \sigma \varepsilon i v$, view.] A device for judging of the purity of milk. galactoside (ga-lak'tō-sid), n. [galactose + $-ide^1$.] A compound formed by the elimination of the elements of water from an alcohol and galactose. Mathematically, in the side of the sid hol and galactose. Methylgalactoside,

CH₃O.C.H.CH.OH.CHOH.CH.CH.CH.CH₂OH, from methyl alcohol and galactose, exists in two forms called α and β. The former is resolved into its constituents by the action of maltose or emulsin; the latter is

galactosis (gal-ak-tō'sis), n. [NL., < Gr. γαλάκ-τωσις, < *γαλακτοῦν, make into milk, < γάλα (γαλακτ-), milk.] Elaboration of milk by the lacteal glands.

galactotherapy (ga-lak-tō-ther'a-pi), n. γάλα (γαλακτ-), milk, + θεραπεία, medical treatment.] 1. Treatment of the nursing infant by means of remedies given to the mother or wet-nurse and excreted in part in the milk. 2. Same as milk-cure.

galactotoxicon (ga-lak-tō-tok'si-kon), n. [NL. Gr. γάλα (γαλακτ-), milk, + τοξικόν, poison.]
 A poisonous substance which has been found in spoiled milk.

galactotoxin (ga-lak-tō-tok'sin), n. [Gr. γάλa (γaλaκτ-), milk, + τοξ(ικόν), poison, $+ -in^2$ (see toxin).] A poisonous substance which has been found in spoiled milk.

nas been found in spoiled milk.
galafate (gä-lä-fä'te), n. Same as *calafate.
galag (gä'läg), n. [Also galak; Chamorro
name.] In Guam, the bird's-nest fern, Neottopteris Nidus. See *ekaha.— Galag-guaka (cattlefern), a name in Guam of a simple-fronded fern, Microsorium trioides, which grows on the ground in the forest.
Also galak-guaka.

galagala (gä-lä-gä'lä), n. [Tagalog galagala, pitch.] A name in the Philippine Islands of Dammara Philippinensis, a coniferons tree

yielding dammar-resin. Also called dammar. See Dammara and Philippine *dammar.

galah¹, galach (gā'laeh), n. [Heb. galah].
One whose hair is shaven, namely, a Roman
Catholic priest. The term is now applied by

gale² (gāl), r. i. To sail away before the wind, Jews to all Gentile clergymen.

galah² (ga-lä'), n. [Aboriginal Australian name.] The Australian rose-breasted cockatoo, Caeatua roseicapilla.

A shricking flight of galahs, on their final flight, before they settled to rest.

P. Adams, John Webb's End, p. 191, quoted in E. E. [Morris, Austral English.]

galalith (gal'a-lith), n. [Gr. γάλα, milk, + λίθος, stone.] A trade-name for a plastic material, a substitute for horn or celluloid, made by heating the casein of skim-milk, to which various coloring-materials are added, with acetate of lead or other metallic salts, and hardening by a solution of formaldehyde. Out of this material combs, handles for knives and forks, chessmen, buttons, and many other articles have been made. Sci. Amer., July 25, 1903, p. 50

galamai-amo (gä-lä"mi-ä'mō), n. [Tagalog galamai-amo, (*galamai, fingers or toes, + amo, monkey.] A climbing epiphytal plant, Schellera venulosa, which belongs to the Arabiacew. It has 5-foliate digitate leaves with an amplexical sheath at the base, the leaflets pointed at both the base and the apex, and the flowers are arranged in terminal umbelled panicles. The wood, when inclosed in a box, exhales a fragrant odor. The leaves in the form of an infusion are used as a remedy for skin-diseases and for bathing women after childbirth. Also called lima-lima.

galangal, n.—Edible galangal, the rush-nut or grassnut, Cyperus esculentus.—Lank galangal, C. stri-



Lank Galangal (Cyperus strigosus:

a, entire plant; b, a spikelet; c, an achenium, showing style and atigmas. (From Britton and Brown's "Illus, Flora of the Northern States and Canada.")

gosus, a common polymorphous American species ranging from Maine to Texas.

galang-galang (ga-läng ga-läng), n. An original Australian name for any cicada.

galangin (ga-lang'gin), n. [galanga + -in².] A light-yellow crystalline compound, C₁₅H₁₀ O₅H₂O, melting at 214-215° C. It occurs, together with camphorid and alpinin, in galangal-root. It is possibly a,1,3-trihydroxy-

galant (gä-lon'), a. [F.: see gallant.] In music, applied to a method of instrumental composition in which the number of parts or voices in the harmony varies freely according to the tonal effect desired, without any consistent effort to treat every tone as belonging to an independent and continuous voice-part, as in

the older contrapuntal style. galanterie (gä-lon-te-re'), n. the older contrapuntal style.

galanterie (gä-lon-te-rē'), n. [F.: see gallantry.] In music: (a) An embellishment or grace.

(b) A style of composition or of performance (c) In conin which embellishments abound. trapuntal writing, a style which disregards

strict rules. The term was most used in the eighteenth century, when the modern views of musical structure were superseding the older ones.

Galax, n. 2. [l.c.] The plant Galax aphylla, known also as galaxy and beetle-weed. Because of its persistent shining leaves galax is gathered in large quantities and sold by florists for annumental purposes

ists for ornamental purposes.

Galaxy, n. 3. [l. e.] Same as $\star galax$, 2: a

play upon that name.

gale? n, 1. Gales are classified as moderate, fresh, strong, and whole gales. See Beaufort *scale.—Straight-line gale, a long-continued gale from the same direction; a derecho; a gale that is due to a vertical rather than to a horizontal circulation of the wind; a gale that blows straight out, or nearly straight out, from a region and not around it.—Tail of a gale, the strong wind at the

end of a whole gale at sea.—**Topgallant gale**, a gale in which the old-fashioned English man-of-war can carry topgallantsails, such as force 7, a moderate gale, or force 8, a fresh gale, on the Beanfort scale; a gale of about forty or fifty miles an hour.

or to outstrip another vessel in sailing: generally with away. [Obsolete.]

gale³, n.—Fern or fern-leaved gale, the sweet-fern, Comptonia peregrina.

galeage (gāl'āj), n. [Also galiage; < gale4 + Ground-rent paid for a grant of land. -age.] Groun [Prov. Eng.]

galeatiform (gā-lē-at'i-fôrm), a. [Irreg. < NL. galeatus, helmeted, + L. forma, form.] Helmet-shaped: employed specifically in reference to brachiopods having the general aspect of Gypidula guleata.

galeeny (ga-lē'ni), n. [Also galliney, galiny, galany; \(\) Sp. gallina morisca, the guinea-fowl, \(\) 1. gallina, a fowl.] A guinea-fowl. [Prov. Eng.]

galempong, galempung (ga-lem'pong),



Galempong. In the Metropolitan Museum, New York

[Javanese ?] A Javanese musical instrument of the zither class, with from ten to twentyfive strings.

Galena black. See *black.

Galenical², a. II, n. Any preparation made from vegetable substances by simple physical means, as by infusion, decoction, lation, as opposed to chemical methods. Sci. Amer. Sup., Jan. 24, 1903, p. 22631.

galenochemist (gā-lē'nō-kem"ist), n.

who manufactures and uses both galenical and chemical remedies. [Obsolete.] galenoid (gā-lē'noid), n. [yalena + -oid.] A trigonal trisoctahedron, a form whose faces often occur on modified crystals of galena.

Galen's bandage. See *bandage. Segaler (gā'ler), n. [Also galor; \(\chi gale^4 + \cr^2 \)]
A collector of gale or manorial duty; also, an agent for the letting of mining licenses. [Prov. Eng. (Glouestershire).]

galeriid (gal-ē-rī'id), n. and a. I. n. A member of the lepidopterous family Galeriidæ.

II. a. Of or belonging to the lepidopterous family Galeriidæ.

Galin-Paris-Chevé system. Same as Chevé *system.

galipedine (ga-lip'e-din). n. [NL. Galipe-a syn. of Cusparia, + -(i)d + - ine^2 .] A crystalline alkaloid, $C_{10}II_{19}NO_3$, found in Cusparia (Angostura) bark. It melts at 110° C.

galipeine (ga-lip'ē-in), n. [Galipe-a + -ine²-] An alkaloid, $C_{20}H_{21}NO_3$, found in Cusparia (Angostura) bark, Galipea Cusparia. It crystallizes in white needles, melting at 115.5° C. galipine (gal'i-pin), n. [Galip-ea+-inc2.] Same as *galipeine.
gall², n. 6. A long space without weft in a piece of cloth.

gall³, n.—Aleppo gall, an oak-gall which comes from Persia and the East Indies by way of Aleppo. It contains from 55 to 60 per cent, of tamic acid and about 4 per cent, of gallic acid. It is valued in dyeing as a mordant for light and bright shades on cotton and silk because of the comparatively small amount of coloring-matter it contains.—Artichoke-gall, an oak-gall of European distribution occurring in Quercus pedunculata and Q. sessilifora and resembling a small artichoke. It is made by the cynipid Andricus pilosus.—Bullet gall, an American cynipid gall resembling a bullet, attached to the smaller twigs of oaks in the northeastern United States and produced by the gall-ily Holcospis globulus.—Eglantine gall. Same as bedegar.—French gall, anoak-gall of inferior quality in the amount (from 20 to 30 per cent.) of tannic acid it contains.—Indian galls, the unripe pods of Acacia scorphoides. They are used for tanning.—Multicellular gall, a gall containing a number of cells each inhabited by a larva, as the pithy blackberry-gall which occurs on the stems of the blackberry, each gall containing many cells of the larva of the cynipid Diastrophus nebulosus.—Seed-ilke blackberry-gall, a very small gall occurring in belt-like clusters about the canes of the blackberry, and produced by the cynipid Diastrophus nebulosus.—Turkish gall, an

oak-gall valued, in dyeing, for the tannin matter it contains.

— White galls, the unripe fruit of Phyllanthus Emblica. See myrobalan and Phyllanthus.
gall⁴ (gâl), n. A small silver coin of Cambodia,

worth about fourpence.

gallacetophenone (gal-a-sē-tō-fē'nōn), n. [gall-(ie) + acet(ie) + phen(yl) + one.] A pale yellow powder, CH_3 . $CO.C_6H_2(OH)_3$, known commonly as $alizarin\ yellow\ C$: employed in dermatology.

gallactucon (ga-lak'tū-kon), n. $[gall(ie)^2 +$ L. lactuca, lettuce, +-on.] A colorless, tasteless, non-poisonous crystalline compound, $C_{14}H_{24}O$, melting at 296° C. It is extracted from French lactucarium, derived from Lactuca altissimu.

gallamine (gal'a-min), a. (gall(ie)² + aminc.]
Derived from gallic acid and ammonia.— Gallamine blue. See *blue.
gallanil (gal'a-nil), a. [gall(ic)² + anil(ine).]
Formed by the action of aniline and certain related compounds upon gallic acid. Also gallanilic.-Gallanil green, indigo, violet. See ★green1,

gallanilic (gal-a-nil'ik). a. Same as *gallanil. gallanilic (gal-a-nli lK). a. Same as *gallanil. gallanilide (gal-an'i-lid), n. [gall(ie)² + anil-(ine) + -ide.] A colorless crystalline compound, C₆H₂(OH)₃.CO.NH.C₆H₅.2H₂O, formed by the action of aniline on gallic acid. It melts at 207° C. and is used as a food-preservative. For this purpose it is superior to salicylic acid, because the toxic dose is much higher on account of its slight solubility. Also called 3,4,5-trihydroxybenzanilide.

gallanol (gal'a-nōl), n. [gallan(ilide) + -ol.]
Same as *gallanilide.

gallazin (gal-az'in or ga-laz'in), n. [gall(ie)² + azin.] A mordant coal-ear color of the oxazin type, prepared by the action of one of the β -naphthol-sulphonic acids upon gallocyanine. It dyes chromium-mordanted wool an indigo blue shade.

gall-backed (gâl'bakt), a. Said of a horse whose back has been galled by an improperly

fitting saddle.

gallberry (gal'ber-i), n.; pl. gallberries (-iz). The inkberry, Ilex glabra, of the southern United States.

Gallberry (Hex glabra), while frequent in land that is too heavy to meet the requirements of truck-farming, is occasionally common on high-grade soils.

Kearney, Contrib. National Herb., V. 479.

Gallberry land, a local name for a type of land near the Dismal Swamp which in its natural state bears a growth of gallberry. The soil is somewhat rich in organic matter, therefore black, and is underlain by clay. Kearney. galled, p. a. 3. Worn away by washing; hence, sterile: said of land. gallery, n., 5. (b) By extension, any company or group of interested spectators, as at a golf-match: a forced use. (c) Sneeifically.

golf-match: a forced use. (e) Specifically, in écarté, spectators who are betting on either player and are allowed to offer suggestions .-11. A veranda; a piazza. [Canadian-French.]

—12. In a lamp-burner, the ring which supports the lamp-burner, the ring which supports the lamp-shade.—Infiltration gallery, an open trench or covered tunnel constructed in such a manner as to receive percolating ground or river waters.—To play to the gallery, to seek popular applause or good will.

gallery-deck (gal'e-ri-dek), n. See *deck, 2. galley-gun (gal'i-gun), n. Naut., an old-fashioned culverin.

galley-packet (gal'i-pak"et), n. Naul., the mythical navy despatch-vessel which brings naval news.

galley-pepper (gal'i-pep"er), n. Naut., the ashes and soot which accidentally found their way into the food from the galley-range. [Naval slang.

galley-press (gal'i-pres), n. 1. A form of printing-press made to take proofs of composed types on brass or zine galleys, by platen pressure. In the United States better known as a

proof-press. [Eng.]—2. A galley-proof. galley-slang (gal'i-slang), n. Naut., the vernaenlar of the galley; the idioms of the cook-

ing-quarters on a man-of-war. galley-stoker (gal'i-sto"ker), n. Naut. worthless member of the erew; a skulker. Naut., a

galley-wasp (gal'i-wosp), n. [Also galliwasp; $\langle galley + wasp$. The name was prob. first q galley + wasp. The name was prob. Insta applied to any large wasp that infested ships in West Indian ports. Compare gallinipper, a large mosquito, prop. *galley-nipper.] 1. In the British West Indies, any large bembecid wasp.

Then all, sitting on the sandy turf, deflant of gallivasps and jack-spaniards, and all the weapons of the insect host, partook of the equal banquet.

Kingsley, Westward Ho, xvii.

2. A West Indian lizard, Celeslus occiduus.

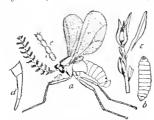
See galliwasp .- 3. The common lizard-fish, Synodus factors, of the Atlantic coast of the United States.

galley-west (gal'i-west), adv. A dialectal variation of collywest, collyweston. See *colly-

gall-fig (gàl'fig), n. The fruit of the fig-tree which contains the gall-flowers. See *gallflower, 1.

infertile female flower of the fig-tree in which the fig-insect lives.—2. Same as *gallweed.

gall-fly, n.—Cranberry gall-fly, a cecidomyiid fly. Cecidomyia oxycoccana, which causes a bunching of the tip-



Cranberry Gall-fly (Cecidomyia oxycoccana). male; b, larva; c, leaves showing work of larva; d, ovipositor

leaves of the eranberry into a compact bulb-like mass in which are found several of the larve. The larva is known as the tip-worm.—Parasitic gall-fly, any member of the subfamily Figitinæ of the hymenopterous gall-fly family Cynipidæ.

gall-fungus (gâl'fung "gus), n. Any fungus which produces galls: particularly applied to the gall of cranberries and related plants, due to Synchytrium Vaccinii.

gall-gnat, n.—Guest gall-gnat, Cecidomyia albovit-tata. a species which breeds in large numbers between the leaves composing the so-called pine-cone willow-gall, which itself is made by another gall-gnat, Cecidomyia strobiloides

gallhuminic (gal-hū-min'ik), a. Same as *melanogallic

Gallian² (gal'i-an), a. [For *Gallionian, < L. Gallio(n-) + -ian.] Of or pertaining to Gallio, the Roman proconsul of Achaia in the time of Paul the apostle: as, Gallian indifference. See Acts xviii. 14-17.

Perhaps even the official mind would be stirred to desert its attitude of Gallian indifference, $Lancet, \ April \ 4, \ 1903, \ p. \ 983.$

galliard² (gal'yard), n. [Cf. galliard¹.] A term used in northern England for a sandstone or grit of particularly close and uniform tex-

Gallicanist (gal'i-kan-ist), n. One who upholds

Gallicanism. See Gallicanism.
gallicin (gal'i-sin), n. [gallic2 + -in2.] A
derivative of gallic or tannic acid used as an antiseptic dusting-powder, or in solution in conjunctivitis.

Gallico-Anglian (gal"i-kō-ang'gli-an), n. An Englishman who favors France or the French gallied (gal'id), p. a. Naut., worried; harassed.

—Gallied whale, a whale in torment from a harpoon or the attack of a swordfish; a freuzied whale.

gallin (gal'in), n. [gall-ie²+-in².] Same as aullein

gallinivorous (gal-i-niv'o-rus), a. [L. gallina, hen, + rorare, eat.] That feeds on poultry: a gallinivorous animal.

gallinuline (ga-lin'ū-lin), a. [gallinule + -inel.] Pertaining to or resembling the galligallinuline (ga-lin'ū-lin), a. nule.

gallipeine, n. Erroneons spelling of *galipeine. gallisin (gal'i-sin), n. [gall(ic)² + iso(maltose) + -in²,] In chem., a substance analogous to dextrine, obtained by fermenting with yeast a solution of commercial glucose or starch-sugar and adding to the residual liquid absosugar and adding to the residual inquid absolute alcohol in excess. Gallisiu is precipitated as a white powder, of faintly sweetish taste, hygroscopic, dextrose by prolonged heating with dilute sulphuric acid. Probably identical with isomatione, Cl2H22O11. Sadtler, Handhook of Indust. Chem., p. 178.

gallisization (gal*i-si-zā'shon), n. Same as

 \star gallization.

gallium, n. The discovery of this chemical element was peculiarly interesting, as furnishing striking evidence of the soundness of the theoretical views, as to the relations of the elements, which led Mendeléjeff in 1869 to predict the existence of such a substance and give a description of the properties it would be found to exhibit his prediction required scarcely any correction when the element was actually discovered.

gallization (gal-ī-zā'shon), n. [gallize + -ation.] The preparation of grape-juice for fermentation by adding water and sugar, usu-

fermentation by adding water and sugar, usu-

gall-louse, n.—Grape-leaf gall-louse, the above-ground form of the grape-vine Phyllozera. See Phyllozera and gall-louse.—Hickory gall-louse, any one of several American species of the aphidid genus Phyllozera, which make galls on the hickory.

gall-maker, n.—Blackberry gall-maker, a cynipid gall-fly, Diastrophus turgidus, which makes a large oval gall on blackberry-stems.

flower, 1. gall-flower (gall'flout'er), n. 1. A modified and Gallo-American (gall'ō-a-mer'i-kan), a. and intertile female, thower of the figure in which n. 1. a. French-American: as, a Gallo-American:

can colony. Jefferson.

II. u. A native or descendant of a native of France who has settled in America, or has become an American (United States) citizen.

Gallo-Briton (gal-ō-brit'on), n. A Briton born in France or of partly French parentage; a Briton who is favorably disposed to France. gallobromol (gal- $\ddot{\phi}$ -brow(ine) + -ol.] Dibromogallic acid. It is

used as an antiseptic and astringent. Gallo-Celtic (gal-ō-sel'tik), a. Belonging to the Celts of France. N. E. D.

gallocyanine, n.—Brilliant gallocyanine. Same as *chromocyanine.

galloflavin (gal-o-flav'in), n. [gall(ie)2 + flavin.] A mordant coal-tar color prepared by the gentle oxidation of gallic acid. It dyes

chromium-mordanted wool a yellow which is fast to light and seap.

galloformin (gal-o-fôr'min), n. [gall(ie)2 + form(aldehyde) + -in².] A condensation-product of gallic acid and hexamethylene tetramine, which readily decomposes with the formation of formaldehyde. It is used as an antiseptic.

gall-of-the-earth (gâl"uv-ŦHē-erth'), n. (a)
Any plant of the genus Nabalus, especially N.
serpentarius. See Prenanthes. (b) Lactuca serpentarius. See Prenanthes. (b) Lac Floridana of the eastern United States. Pterospora andromedea, more properly called pinc-drops.

Gallo-German (gal-ō-jer'man), a. and n. I. a. Belonging to both France and Germany, or to both French and Germans.

II. n. 1. One of the French race born or resident in Germany.—2. A descendant of parents on one side French and on the other galop, $v.\ i.$ To dance the galop. See galop, German.

Gallo-Grecianst (gal-ō-grē'shanz), n. pl. Same as *Gallo-Grecks.

Gallo-Greekst (gal-ō-grēks'), n. pl. [L. Gallogræci.] The name of a Gallic people who settled in the larger 'Greece' of Asia Minor ealled from them Gallogræcia or Galatia. Holland, tr. of Pliny, I. 221. N. E. D. gallol (gal'ōl), n. [gall(ie) 2 + -ol.] A colorless crystalline compound,

O(C₆H₂(OH)₂)₂CH.C₆H₄.CH₂OH, formed by the vigorous reduction of pyrogallolphthallic anhydrid (gallein). It rapidly

darkens in air. Galloman (gal'ō-man), n. [F. *Gallomane.] A Gallomaniac.

Gallomaniac (gal-ō-mā'ni-ak), n. [L. Gallus, a Frenchman, + Gr. µavía, madness.] One who is very zealons for France and French interests and ways.

gallon² (gal'on), n. [Ir. gallán-mor, < gallán, branch, + mor, great.] The butter-bur er butterdock, Petasites Petasites.

gallonage (gal'on - āj), n. [gallon + -age.] Amount or capacity stated or reckoned in gallons: as, the gallonage of a tank, or the gallonage of an oil-well during the period named.

gallonitrate (gal-ō-nī 'trāt), n. [gallonitr(-ie) + -ate¹.] A salt of gallonitric acid.
gallop, v. t.—To gallop to a standstill, to gallop to a halt; tire out thoroughly: ss, to gallop several horses to a standstill (that is, to gallop, in competition with several horses, one after the other until they could gallop no more). more).

gallop, n.—Gallop rhythm, rapid succession of three heart-sounds followed by an interval of silence, resembling somewhat the eanter of a horse.

galloper, n. 5. A mounted (or unmounted) despatch-bearer on a battle-field; an aide-de-galvanization, n. 2. Therapeutic application

Gallophile (gal'ō-fil), n. [L. Gallus, a Frenchman, + Gr. φίλος, loving.] One who is friendly

Gallophobe (gal'ō-fōb), n. [L. Gallus, a Frenchman, + Gr. φοβείν, fear.] One who hates or fears France.

Gallophobia (gal-ō-fō'bi-ā), n. [NL., ζL. Gallus, a Frenchman, + Gr. -φοβίν ζφοβεῖν, fear.] Abhorrence or fear of France or French ways or institutions.

ally starch-sugar. See gallize. Sadtler, Hand-gallotannate (gal-ō-tan'āt), n. [gallotann(ie) book of Indust. Chem., p. 206. +-ate¹]. A salt of gallotannic acid.

above gallotannin (gal-ō-tan'in), n. Same as lannic

Gallovidian (gal-ō-vid'i-an), a and n. [NL. *Gallovidianus, (Gallovidia, Galloway.] I. a. Of or pertaining to the region of southwestern Scotland known as Galloway and corresponding to the counties of Wigton and Kirkendbright.

II. n. 1. A native or inhabitant of Gallo-ray.—2. A Gallovidian horse. See galloway. Galloway, n. 2. A breed of hornless cattle, of great antiquity, developed in the highlands of southwestern Scotland. The skin is dark, the hair usually black, and the body deep. They are hardy and docile.

gallows, n., 2. Specifically, on the great sheep-raising stations of Australasia, a high wooden frame on which the carcasses of butchered cattle or sheep are suspended; a meat-gallows. E. E. Morris, Austral English.

gallows-tool (gal'oz-tol), n. A clock-maker's rest on which work is held while it is filed. [Rare.]

gall-spot (gâl'spot), n. A sere spot produced

by rubbing or chang; a gall. gall-tree (gäl'trē), n. In the West Indies, the bitter ash or quassia, Picrasma excelsa.

gallweed (gâl'wēd), n. Same as five-flowered aentian.

gall-weevil (gâl'wē"vil), n. A beetle whose larvæ produce galls.—Cabbage gall-weevil, an English gardeners' name for a European curculionid beetle, Ceuthorhynchus sulcicollis, whose larvæ make small galls or swellings on the roots and stalks of cabbage and upon turnips.—Turnip gall-weevil. Same as cabbage *gall-weevil.

gallwort (gâl'wert), n. The common toad-flax, Linaria Linaria: so named from its bitterness. It is used as an unofficial remedy for dropsy, jauudice, and cutaneous eruptions.

Galoisian (ga-loi'si-an), a. Pertaining to or named for the French mathematician Evariste Galois (died 1832).—Galoisian corpus, equation. See *corpus, *equation.

galon' (ga-lon'), n. [Sp.: see gallon.] A Spanish-American measure of capacity, equal, in Porto Rico, to 3.785 liters, or one United States gallon.

galpon (gal-pōn'), n. [S. Amer.] The building provided on a farm in Pern, Uruguay, and other South American countries, for the accommodation of the laborers, etc. Proc. Zool. Soc. London, 1894, p. 305.

Galtonia (gâl-tō'ni-ā), n. [NL. (Decaisne, 1880), named in honor of Francis Galton, who in 1853 published a "Narrative of an Explorer in Tropical South Africa."] A genus of plants of the family Liliaceæ, closely allied to the hyacinths, and formerly referred to the same genus. Galtonia differs from Hyacinthus chiefly in having more numerous and flattened seeds. There are two species, both South African. G. candicans (Hyacinthus candicans of Baker) is a fine hardy bulbous plant bearing an ascending raceme or spike of drooping white fragrant flowers. It is also sometimes grown under glass.

Galtonian (gâl-tō'ni-an), a. [After F. Gallon.] Of or pertaining to Francis Galton, an Eng lish scientist, or to his theories regarding the question of inherited characters.

question of inheritation data acters. Galton's anticyclonic law. See *law!.—Galton's curve. Same as Quételet's *curre.—Galton's law of ancestral inheritance. See ancestral *inheritance (a).—Galton's method, weights. See *method,

galty (gâl'ti), a. [Also gaulty; < galt¹ + -y¹.] Marked by the presence of galt: of the nature of galt or stiff blue marly clay: as, galty lands; a galty place.

galv. An abbreviation (a) of galvanic; (b)

galv. An ab of galvanism.

Galvanic faradization. See *faradization. galvanistical (gal-va-nis'ti-kal), a. [galvanist + -ical.] Of or pertaining to galvanism; skilled in galvanism: as, a galvanistical philosopher.

of the constant electric current by means of the active electrode passed slowly to and fro over the surface.

galvanochemical alvanochemical (gal"va-nō-kem'i-kal), a. Relating to the chemical action of the galvanic current.

This treatment of stricture depends for its success chiefly upon the action of the electricity, which causes galvano-chemical absorption to take place—a process which is based upon the electrolytic properties of the which is based upon the tissues of the human body.

**Buck*, Med. Handbook*, III. 765.

dalyandenemical about by the passage of an electric current, as in the fluids or tissues of the human body.

galvanofaradic (gal'va-nō-fa-rad'ik), a. Relating to both galvanic and faradic electricity. galvanometer, n.—Oscillation galvanometer, a form of receiver or detector for electric waves, as in wireless telegraphy, invented by Ewing.—String galvanometer, an instrument consisting essentially of a silvered quartz thread stretched like a string in a strong magnetic field. When the current is passed through the magnetic field. When the current is passed through the thread the latter is deflected perpendicularly to the direction of the magnetic lines of force, and the amount of the deflection can be measured by means of a microscope with a micrometer eyepiece. Used instead of the capillary electrometer in physiological rescarch.

galvanomotive (gal*va-nō-mō'tiv), a. Controlled as to motions by the action of the

galvanic current: as, a galvanomotive needle. [Rare.]

galvanoplastically (gal"va-no-plas'ti-kal-i), adv. By the galvanoplastic process. galvanoplastie.

galvanoplastics (gal"va-nō-plas'tiks). n. Same

as galvanoplastics (gal va-no-plas tiks), n. Same as galvanoplasty or electrotypy. Jour. Soc. Chem. Industry, XII. 162.
galvanoplater (gal va-nō-plā ter), n. One who makes stereotype or electrotype plates by electrodeposition of metals from a solution of solution of metals. tion of a salt of the metal.

Serious poisonings, and even death, have in many instances resulted in this way (by absorption of potassium eyanid through slight abrasions) in photographers, galvano-platers, or by the handling of plate-polishing powders containing potassium cyanid.

Buck, Med. Handbook, 1V. 785.

galvanoscopy (gal-va-nos'kō-pi), n. [galvanism + Gr. -σκοπία, ζσκοπείν, view.] 1. Employment of galvanism for diagnostic purposes.—2. Determination of the direction of a galvanic current by the galvanoscope.

galvanotactic (gal "va - nō - tak ' tik), a. [galvanotanis (-tact-) + -ic.] Same as *electrotactic.

galvanotaxis (gal*va-nō-tak'sis), n. [galvan-ism + Gr. τάξις, disposition.] Same as *electrotaxis.

They [cases of unilateral directive stimulation] have been designated, according to the direction in which they occur in relation to the source of the stimulus, as positive or negative Chemotaxis, Phototaxis, Thermotaxis, Galvanotaxis, and so forth.

Encyc. Brit., XXXI. 715.

galvanotechnics (gal*va-nō-tek'niks), n. [gal-van-ism + technics.] The art of the electro-deposition of metals.

galvanotherapeutics (gal "va - nō - ther - a - pū' - tiks), n. Treatment of disease by means of galvanism. Also called galvanotherapy.

galvanotherapy (gal "va -nō -ther 'a -pi), n. Same as *galvanotherapeuties.

galvanotonus (gal-va-not'o-nus), n. [galvan-ism + Gr. τόνος, tension.] Same as elec-

galvanotropic (gal va-no-trop'ik), a. [galvanism + Gr. τρόπος, a turning.] Same as *electrotropic.

galways (gâl'wāz), n. Whiskers of a style peculiar to Galwaymen.

Mr. S—insists that it is a picture of a woman, notwith atsnding that the Celtie face has an ample growth of searlet galways.

Newspaper.

galziekte (gäl'zēk-te), n. [D., 'gall-sickness.'] A disease of eattle in the Transvaal caused by a large species of trypanosome (Trypanosoma theileri Laveran, 1902) measuring 50 microns in length by 3.5 to 4 microns in diameter. The mode of transmission is unknown. Like other trypanosomes, this parasite lives in the blood.

Details are given of the mode of growth and multiplica-tion of Tr. Thelleri, the cause of the cattle discuse known as Galziekte. Nov. 13, 1902, p. 46. tion of Tr. Tl as Galziekte.

gam² (gam), n. [Origin obscure.] A tusk or large tooth. [Scotch.]

gam³(gam), n. [OF. gambe, besides jambe, leg: see jamb.] A leg. [Slang.] gamasoid, a. and n. [NL. Gamasoid-ea.] I. a.

Resembling a mite of the superfamily Gamasoidea, or belonging to this group.

II. n. One of the Gamasoidea, gamba², n.—Gamba bass, gamba

gamba², n.—Gamba bass, gamba major, bass gamba, double gamba, in organ-building, a 16-feet stop with the tone of a gamba. gambade, n. 3. The leap of a horse. gambang (gam'bang), n. [Javanese and Malay gambang.] A Javanese musical instrument of the xylophone class, consisting of sixteen of the xylophone class, consisting of sixteen actions of recommendations. strips of resonant wood or metal fastened loosely on strings, and mounted on a concave wooden box or frame. The wooden form is called gambang kayu, the metal form gambang gongso.

Galvanuchemical change, chemical change brought gamba-work (gam'bä-werk), n. 1. In organ-about by the passage of an electric current, as in the halfding a collective name for the string stope. building, a collective name for the string stops, of which the gamba may be taken as a type. 2. A form of violin-piano.

gambeer (gem-bēr'), v. t. [Appar. from an unrecorded noun *gambeer, < F. gambier, an iron hook.] To take fish with a gambeering-iron or mackerel-gaff; to gaff. See gaff'.

gambeering-iron (gam-bēr' ing-ī "érn), n. A

mackerel-gaff (which see, under gaff¹).

gambette (gam-bet'), n. In organ-building, a

4-feet stop with the tone of a gamba.

Gambia rubber. See *rubber.
gambine (gam'bin), n. [gamb(oge) + -ine².]
A name given to several mordant coal-tar colors of the nitroso type. They all dye chromium-mordanted wool brown and iron-mordanted wool green.—Gambine B, a mordant coaltar color of the nitroso type, prepared by the action of nitrous acid upon dihydroxynaphthalene. Also called dioxine.—Gambine R, a mordant coaltar color of the nitroso type, prepared by the action of nitrous acid upon α-naphthol.—Gambine Y, a mordant coaltar color of the nitroso type, prepared by the action of nitrous acid upon β-naphthol. Also called Alsace green J.—Gambine yellow. See *yellow.

gambit, n.—Cochrane gambit, one of the chief lines of defense against the Salvio gambit, nanely, 6... P—B6. See yambit.—Double gambit, an attack in the King's Bishop's opening, where white sacrifices two pawns.—Gambit pawn. See *pawsu?—Greeo gambit, an interesting though abandoned attack of the King's Knight's gambit.—King's gambit declined, a defense to the King's gambit merein the second player tries to evade the attack by refraining from capturing the offered gambit pawn.—King's gambit from capturing the offered gambit pawn.—King's gambit refused. Same as King's *gambit declined.—King's Knight's gambit, 1 P—K 4, P—K 4; 2 P—K B4, PxP; 3 Kt—K B3.—King's Rook's Pawn's gambit, white continuing 3 P—KR 4. Hardly ever played.—Macdonnell's double gambit, a continuation against an obsolete defense to the king's Bishop's opening, white sacrificing two pawns for the attack.—Philidor's gambit, 5 P—KR 4 in the King's Knight's gambit.—Salvio-Cochrane gambit, a variation of the King's Knight's gambit, in which black plays 5... P—B 6 instead of Kt—KB 3 or Kt—KR 3.

gambling-hell (gam'bling-hel), n. A gamb-

gambling-hell (gam'bling-hel), n. A gambling-house.

gambling-tray (gam'bling-trā), n. A large basketry tray used for tossing dice by North American Indians.



Tulare Gambling-tray and Dice.

gamboge, n.—American gamboge, the gum-resin yielded by either of two shrubs or small trees of Guiana and Brazil, Vismia baccifer and I. Guinnensis.—False gamboge. Same as Mysore *gamboge.—Mexican gamboge, the gum-resin yielded by Vismia Mexicana.—Mysore gamboge, the gum-resin obtained from Garcinia pictoria of Southern India. Also called false gamboge.

gambogiate (gam-bo'ji-āt), n. [gamboge+-i-+
-atel.] A salt of gambogie acid.—Gambogie acid,
A resinous substance which is the principal component of gamboge.

game 1, n., 6. Specifically—(a) A part of a rubber. The victors in two games ont of three win the rubber. (b) One of the points to be scored in all-fonrs, as high, low, jack, and the game.

The number of players necessary, or required by the rules, for playing a game; a set.'-15. In old archery, a meeting or public competition of archers.—All-in game, English bil-liards without restrictions as to *spot-stroke (which see). —Around-the-table game, in Amer. billiards, a game in which the successive holding of either red is restricted —Around-the-table game, in Amer. billiards, a game in which the successive holding of either red is restricted to thrice off its spot.—Bergen game, a game of dominoes in which two points are scored by the player who makes bothends of the line the same.—Bracegame, a conspiracy between two players to cheat another; specifically, in faro, an understanding between the dealer and the case-keeper.—Callgame, See *call!.—Cattle and game disease. See *disease.—Consultation game. See *consultation.—Doublet game, in French billiards, a game in which caroms and pockets count, but the latter only in case the holed object-ball has first been sent to cushion.—Drawn game. See *drawn.—Duck-wing game, a variety of game-fowl, usually of handsome plumage, with a conspicuous bar across the wing suggestive of the mirror of a duck. The golden duck-wing has this bar of a rich yellow, while in the silver duck-wing it is white.—Game at odds, in chess, a game in which the superior player removes one of his pieces from the board before the game is started in order to equalize the contest. The most common odds are those of the queen, of queen against rook or any other minor piece, of a rook, of a knight, of a pawn and nove, and of a pawn and two moves. A player may also permit his opponent to make a stated number of moves before beginning play, upon the condition, however, that none of the pieces so moved be permitted to pass the fourth row. Other odds are to effect a mate only with a marked piece or pawn, not to check except when mating, etc.—Indian game, a

pearetogenesis

heavy-bodied, thinly feathered breed said to have originated in southern Asia or in some of the islands of the Malay Archipelago.—Long game, in golf, full wooden shots from the tee and through the green.—Longhandle game, in cricket, agressive or hitting play, as contrasted with defensive. Hutchinson, Cricket, p. 71.

—Open game, a game of chess in which both sides play their king's pawns to their respective fourth squares. All other games, or rather openings, are called elose games.—Progressive games, enclure, whist, bridge, and other four-hand partnership games which may be played progressively. The principle is the same in all. The winning lady at each table goes to the next table north, her partner going to the next table south; while the losing couple left behind separate, so that each of the two players shall get a new partner for the next round. The winners at the head table do not move. Prizes are given for the players who win the greatest number of rounds.—Quarter game, in golf, short approaching, or that part of the game, in golf, approaching, or that part of the game, in playing on to a putting-green, which does not involve the use of a wooden club.—Spanish game, a combination of the old French billiard game of allied pockets and caroms with a modified form of pin-pool. "This game is played in the South, and is played with two white balls and one red, and five pins placed similar to those in Pin Pool. The red ball is placed on the red-ball spot, and the first player strikes at it from within the balk semicircle. The game is made by whning hazards, carrons, and by knocking over the skittles or pins. It is usually played thirty-one points np." Amer. Hoghe, p. 491.—Square game, a game in which the cards are perfectly square, not having been trimmed for wedges, stripers, etc.—To develop one's game, See *decelop.—Willing game, a parlor game in which all members of the party save one unite in willing the performance of a certain action by this outstanding member. The latter is brought into t room, or to guess at the action prescribed for him.

game-cart (gām'kārt),

n. A light carriage
originally used to carry dogs to the moors in hunting and to bring back the game: now used for driving.

game-hole (gam'hol), n. The sixty-first or last hole in a cribbage-board.

gamester, n. 6. pl. In billiards, contestants whose scores are exactly even.

gamesum, a. A simplified spelling of game-

gametange (gam'e-tanj), n. [NL. gametangium.] Same as gametangium.

gamete, u. 2. A general term for the mature germ-cells, either male (spermatozoon) or female (ovum), which unite to form the zygote.

The term "gamete" is now generally used as the equivalent of "germ-cell," whether male or iemale, and the term "zygote" is here used for brevity to denote the organism resulting from fertilisation.

W. Bateson, Mendel's Prin. of Heredity, p. 18.

game-tenant (gām'ten"ant), n. One who rents

the right to shoot game on an estate; a shooting-tenant. gametic (ga-met'ik), a. [gamete + -ic.] Of, pertaining to, or by means of gametes or germ-

cells; gametal. The term Mendelian Principles is used in its widest sense, to include not merely the simple Mendelian phenomena of Dominance or Segregation, but the much more fundamental doctrine of gametic purity.

Biometrika, Jan. 1904, p. 1.

Gametic variation. See *variation. gametically (ga-met'i-kal-i), adv. As regards gametes; as a gamete.

They show therefore that the albino cannot be said to be gametically pure in respect of its whiteness, but that in order to predict the character of its young a knowledge of its ancestry is necessary. Biometrika, Jan., 1904, p. 8

gametocyst (ga-met'ō-sist), n. [Gr. γαμέτης, γαμέτης (see gamete) + κύστις, bladder (cyst).] A unicellular structure, found in the algæ and fungi, which produces only uninucleate gametes: distinguished from gametangium.

gametocyte (ga-met'ō-sīt), n. [Gr. γαμέτης, γαμέτης (see gamete) + κύτος, a hollow (a cell).] A gamete. Proc. Roy. Soc. (London), March 6, 1902, p. 78.

gametogenesis (gam"e-tō-jen'e-sis), n. γαμέτης, γαμέτη, (see gameth), + γένεσις, origin, genesis.] In bial., genesis or origin from gametes, that is, from a sperm- and an egg-cell. Also gametogeny.

The central phenomenon in Mendelian heredity is segregation. The characters in simplest cases are treated as units in gameto-genesis. In more complex cases there is resolution, sometimes also disintegration and imperfect segregation, leading to the formation of fresh units. The gametes bearing these units are produced in numerical

proportions which on an average are also definite, but as yet these proportions have only been determined in the simple cases.

Proc. Zool. Soc. London, 1903, p. 95.

gametogenic (gam'e-tō-jen'ik), a. Relating to gametogenesis; producing gametes or reproductive cells.

gametogenous (gam-e-toj'e-nus), a. Pertaining to or of the nature of gametogenesis; producing gametes: as, a gametogenous monont among Coccidia. See *monont.

The cytological changes in malignant growth resemble those exhibited by sporogenous or gametogenous tissues in plants and animals, in the occurrence of the form of nuclear division known as heterotype, as distinguished from the more usual homotype division.

Nature, Jan. 21, 1904, p. 286.

gametogeny (gam-e-toj'e-ni), n. Same as

*gametogenesis.
gametoid (gam'e-toid), a. and n. [qamete + cametoid (gam e-toid), a. and n. [gamete + oid.] I. a. Relating to reproductive cells which do not become functional gametes: opposed to *gametogenic. Nature, Jan. 21, 1904, p. 285.

II. n. A sexually active cell observed in the

reproduction of certain low forms of animal

gamma, n. 4. A proposed unit of magnetic intensity, equal to one hundred thousandth of gamma, n. a gilbert per second.

Gamma râys. See *ray1.

gammacism (gam'a-sizm), n. [Gr. γάμμα, gamma, + -c- + -ism.] Imperfect enunciation of g and other guttural sounds. Buck, Med. Handbook, VII. 435.

gamma-iron (gam'ä-i'ern), n. See *iron.
gammarine (gam'a-rin), a. [Gammarus +
-inel.] Resembling or characteristic of amphipod crustaceans of the genus Gammarus.

gammaroid (gam'a-roid), a. [Gammarus + -oid.] Resembling or pertaining to the genus

Gammarus, or to the family Gammaridæ.

gammation, n. 2. An element in the anatomical structure of the head of the Devonian fish Palæospondylus.

An important element having somewhat the form of an inverted "L" lies on each side, immediately behind the nasal capsules, and was probably related to the eye, which was situated above it... In order to avoid as fur as possible the introduction of hypothesis into description we propose to call it the "gammation" from its fancied resemblance to the Greek letter "F."

W. J. and I. B. J. Sollas, in Philos. Trans. Roy. Soc. ((London), 1904, ser. B, p. 274.

gammoning-fashion (gam'on-ing-fash"on), n. Naut., a lashing, the turns of which are crossed

writing or noting by means of notes rather Naut., a lashing, the turns of which are crossed in the style of gammoning. Sammoning-fish (gam'on-ing-fish). n. Naut., formerly a batten of wood on the top of the bowsprit over which the turns forming the gammoning were passed.

Writing or noting by means of notes rather than in tablature. See tablature, 4 (c). gandi (gän'dē), n. [African.] A name given in parts of Africa to the tsetse-fly. Glossina morsitans. Geog. Jour. (R. G. S.), IX. 56. gandul (gän-döl'), n. [Porto Rican.] The dall or pigeon-pea. Caian Caian. See Caian. gammoning-fish (gam'on-ing-fish), n. moning were passed.

gammoning-knee (gam'on-ing-nē), n. Naut., a timber bolted to the stem below the bow-

gamobium (ga-mō'bi-um), n.; pl. gamobia (-ä).
[Nl., ζ.Gr. γάμος, marriage, + βίος, life.] The sexual or medusoid stage in the life of a hy-

See *variation.

Gamolepis (gam-ol'ē-pis), n. [NL. (Lessing, 1832), ζGr. γάμος, marriage, + λεπίς, seale. The allusion is to the union of the involueral gangliitis (gang-gli-i'tis), n. [NL., ζGr. γάγ-γλων, ganglion, +itis.] Same as ganglionitis (a). Asteraceæ, related to Senceio. There are about 12 species, all South African. One of them. G. Tagetes, is now somewhat grown as a garden annual. It bears a profusion of bright-yellow heads, particularly in sunny, exposed places, having somewhat the character of the dwarf marigold.

gamomachia (gam-ō-mak'i-ā), n. [NL., \langle Gr. $\gamma\acute{a}\mu\acute{o}$, marriage, $+\mu\acute{a}\chi\eta$, fight.] The hypothetical struggle for existence between the paternal

and maternal constituents of the fertilized egg, and the destruction of one of them: assumed as an explanation of the resemblance of the offspring to one parent only, to the exclusion of the influence of the other.

The sum of the sum o

clusion of the influence of the other.

gamomania (gam-ō-mā'ni-ā), n. [NL., ζ Gr., γάμος, marriage, + μανία, madness.] 1. The condition of a pistil in which the ovaries are more or less completely united and the respective styles and stigmata remain free. Syd. Soc. Lex.—2. A form of insanity in which the sufferer often proposes marriage, despite impossible conditions. Syd. Soc. Lex. gamophagia (gam-ō-fā'ji-ā), n. [NL., < Gr. γάμος, marriage, + -φαγία, φαγείν, eat.] The hypothetical destruction of one of the parental contributes of the fartilized erg by the other

constituents of the fertilized egg by the other.

See *gamomachia.

gamostele (gam'ō-stēl), n. [Gr. $\gamma \acute{a}\mu o \varsigma$, marriage, $+ \sigma \tau \acute{n} / \eta$, pillar.] In bot., a polystele in which the vascular bundles are fused together in some portion of their length. See *stele4 and *polystele.

[gamostele + gamostelic (gam-ō-stel'ik). a.

gamostelic (gam-o-stellik). a. [gamostele + -ic.] In bot., having a gamostele.
gamostely (gam'ō-stē-li), n. [gamostele + -y³.]
In bot., the condition of being gamostelic.
gamote (gä-mō'tā), n. [Mex. Sp. camote, < Nahuatl camotti, sweet potato.] In New Mexico, the parsnip-like root of an umbelliferous plant, Pheltopterus montanus, which is used, when young, as an article of food by certain tribes of Indians.

gamma-granule (gam'ā-gran-ūl), n. One of gamotropic (gam-ō-trop'ik), α. [Gr. γάμος, the basophilie granules observed in a certain form of leucocyte in cases of leucemia.

The bota gamotropic (gam-ō-trop'ik), α. [Gr. γάμος, marriage, + τροπικός, of or pertaining to a turn.] In bota, executed for the advantage of the fertilizing process: said of certain changes in the position of flower-stalks made only once.

gamot-sa-buni (ga-mōt'sä-bö'nē), n. [Tagalog

gamot-sa-buni (ga-mot sa-bo'nē), n. [Tagaiog gamot, medicine; sa, for; buni, ringworm.]
Same as *acapulco. [Philippine Is.]
gamp² (gamp), v. t. [Vaguely imitative; cf. champ¹ and gulp.] To eat greedily; gulp down. Scott. [Scotch.]
gamphrel (gam'frel), n. Same as gomerel. [Scotch.]

[Scotch.]

gamsigradite (gam-si-grā'dīt), n. Gamsigrad (see def.) + -ite2.] A velvet-black variety of amphibole, containing manganese in considerable amount. The original speci-men was obtained from Gamsigrad, Servia.

gamut-way (gam'ut-wa), n. In old music, the writing or noting by means of notes rather

dall or pigeon-pea, Cajan Cajan. See Cajan. sang, v. II. trans. To arrange in gangs; combine (several) into one set, to be operated together: as, to gang saws, plows, or the like. See gang, n., 9.

That great operation on the nervons system, trigeminal gangliectomy, for which Spiller and Frazier now propose division of the sensory root within the cranium for tic

ganglioblast (gang'gli-ō-blàst), n. [Gr. γάγγλιον, gauglion, + βλαστός, germ.] An embryonic cell which gives rise to a ganglionic cell. Baldwin, Dict. of Philos. and Psychol., I. 404. gangliocyte (gang'gli-ō-sīt), n. [Gr. γάγγλιον, ganglion. + κὐτος, a hollow (a cell).] A ganglion cell or nerve-cell. Baldwin, Dict. of Philos. and Psychol., I. 405.

mata (-ma-tä). [NL., ⟨Gr. γάγγλον, ganglion,
— -ma.] Å tumor of a lyimphatic gland.

ganglion, n.—Abdominal ganglion. See *abdominat.—Auditory ganglion. Same as acoustic tubercle
(which see, under acoustic).—Cellac ganglion. Same
as semitunar ganglion (a) (which see, under ganglion).—
Central ganglia of the brain, the optic thalami and
corpora striata.—Compound ganglion, an apparently
donble ganglion which results from compression of its
central portion by the annular ligament of the wrist. See
ganglion, 3 (a).—Ganglia of Bidder, two ganglia in the
auricular groove of a frog's heart.—Ganglion ectomammillare, a small rounded eminence at the base of the
brain, just in advance of the posterior perforated space.
In many animals there are two of these prominences, one
on either side of the median line. Also known as the
mammillary body, or corpus albicans.—Ganglion habenulæ, a collection of nerve-cells at the dorsimesal
margin of the thalamus to which pass fibers from the
pincal body. Also known as habena, habenula, and trigonum habenulæ.—Ganglion interpedunculare. Same
as *corpus interpedunculare.—Ganglion isthmi, asmall
mass of gray matter lying between the crura of the mesencephalon. Also known as the intercrural or interpeduncular yanglion.—Ganglion of Auerbach, aganglionic
mervous structure in the muscular coat of the intestine.
—Ganglion of Corti, a plexus of nerve-fibers in the
cochlea through which the cochlear nerves pass.—Ganglion of Remak, a ganglion in the wall of the auricle of
the frog's heart.—Ganglion of Scarpa. Same as facial
ganglion.—Ganglion of the retina, a layer of nervecells in the retina.—Hypogastric ganglia, two ganglia,
one on either side of the cervix uteri, connected with the
hypogastric and sacral plexuses.—Intercrural ganglion, ganglionie nervous tissue in the submucous coat of
the intestine.—Meynert's ganglion. Same as *ganglion same as *ganglion same as basal
connected with the former by the cerebropleural and
with the latter by the pleuropedal connectives. (b) In

to the sympathetic nerve. Buck, Med. Hand-book, I. 14I.

ganglioplexus (gang"gli-ō-plek'sus), n. [NL.] A plexus of nerve-fibers in a ganglion. Bald-

win, Diet, of Philos. and Psychol., I. 405. gang-loom (gang'löm), n. A loom which has a number of independent sluttles, as one for

narrow fabrics, such as ribbons.

gang-mill (gang'mil), n. A milling-cutter
built up of several separate cutters, either to
form a long parallel mill or, more often, a mill for a complex outline. The use of gang-mills has extended rapidly, since broad pieces of work (for which it would be impossible to make solid cutters to the required profiles) can be thereby machined at one traverse.

gang-plow, n.—Vineyard gang-plow, a plow which has a frame supported by two wheels and carries three or sometimes four light plows: designed for plowing in vineyards, hop-fields, and orange and other orchards.
gang-press (gang'pres), n. A press which employs a gang of dies or punches, all being

[Nl., (Gr. γάμος, marriage, + βίος, life.] The sexual or medusoid stage in the life of a hydroid jellyfish.

Gamobothridæ (gam-ō-both'ri-dō), n. pl. [Nl.]

A family of tapeworms of the order Tetraphyllidea. They have the four phyllidia united by their lateral margins to form a single discoid or globular mass. The family contains the genera Lecanicephalum, and members inhabit the spiral intestine of sharks.

gamodesmic (gam-ō-des'mik), a. [Gr. γάμος, marriage, + δερός, a band.] In bot, having the component vascular elements of the steel fused together.

gamodesmy (gam-ō-des'mi), n. [gamodesm-ie + -y³.] In bot, the condition of being gamodesmic.

gamodesmic, σam-ō-jen'ik), a. [Gr. γάμος, marriage, h βίος, life.] The sexual or medias dage in the life of a hydroid jellyfish.

Trae plows are drawn by three to five yoke of oxen.

Yearbook, U. S. Dept. Agr., 1900, p. 540.

Yearb

gang-spill (gang'spil), n. An anchor-windlass. gang-trimmer (gang'trim"er), n. A trimmer employing more than two saws, each saw being suspended upon a swing-frame and all being controlled by levers to enable the operator to use any number or group of saws, within the capacity of the machine, in trimming stock of different lengths. All machines are fitted with automatic feed-chains to bring the stock to the

gangway, n. 4. In forestry, the inclined plane up which logs are moved from the water into a sawmill. Also called jack-ladder, log-jack, a sawmill. Als logway, and slip.

gangwayman (gang'wā-man), n. A man placed in charge of a ship's gangway when in

ganocephalan (gan-ō-sef'a-lan), a. and n.
I. a. Having the characters of the Ganocephala.

One of the Ganocephala.

ganodentin (gan-ō-den'tin), n. [Gr. γάνος, garboard-plate (gär'bōrd-plāt), n. In iron ship-brightness, + E. dentin.] The structureless building, one of the plates of the strake next enamel which coats the teeth of the selachian the keel. See cuts under *keel¹, 2. fishes or sharks.

ganophyllite (ga-nof'i-lit), n. [Gr. γάνος, brightness, + φύλλον, leaf, + -ite². The name alludes to the luster of the cleavage folia.] A silicate of manganese, alumininm, and alkalis garde-meuble (gard-me'bl), n. [F., \langle garder, occurring in brown monoclinic crystals, also in foliated masses: found in Sweden.

ganpi (gam'pē), n. [Jap.] A shrub of the family Daphnaceæ, Capura canescens (Wikstræmia canescens of Meisner), native to India, stremta canescens of Meisner, native to India, Indo-China, China, and Japan. In Japan it is considered an important fiber-plant and is sometimes cultivated for its bark. This is used—either alone or more generally mixed with the barks of the koze and mitsumata—for the manufacture of the tough, thin paper especially valuable in letter-press copying-books.

ganta (gän'tä, n. [Philippine Sp., < Bisaya gantang.] In the Philippine Islands. a dry measure containing rather less than three quarts: also, a liquid measure containing

quarts; also, a liquid measure containing

rather more than three quarts.

Ganymede, n. 3. The third and largest satellite of the planet Jupiter.

nte of the planet Jupiter.

gaogao (gou'gou), n. [Chamorro name.] In Guam and the Philippines, the starch derived from the tubers of *Tucca pinnatifida*, the arrowroot of the South Sea Islands. See *Tacca*.

gap-bed (gap'bed), n. A lathe-bed in which a recess is cut just in front of the head-stock to permit of turning work larger than will swing over the guides.

over the guides.

gap-bridge (gap'brij), n. The piece or bridge which closes the gap in a gap-lathe bed. See $\star gap\text{-}bed.$

gape-worm (gäp-werm), n. A nematoid worm Syngamus trachealis, the eause of gapes in

gap-stick (gap'stik), n. A pole placed across the entrance of a sorting-jack to close it when not in use.

gar³ (gär), n. [Also garr, gaar; a var. of gar, dial. form of garc¹.] 1. Mud; ooze; dirt; slime. [Shetland and Orkney, and north of Scotland.]—2. Vegetable slime found adhering to ships' bottoms.

garage (gar'āj; F. pron. gä-räzh'), n. [F. garage, keeping under cover, n place for keeping (boals, wagons, automobiles) under cover, \(\frac{yarer}{yarer}, \text{ keep under eover, keep, guard, var. of OF. garir, keep: see garret.} \]
 A station in which motor-cars can be sheltered, stored, repaired, cleaned, and made ready for use; also, a place of private storage for a motor-car; a stable for motor-cars. [Recent.]

The club's stewards will take charge of the competing vehicles at the gate of the garage.

Sci. Amer., March 28, 1903, p. 224.

garantee, garanty. Simplified spellings of quarantee, quaranty.

garbage-furnace (gär'bāj-fer"nās), n. A destructor; a furnace specially constructed for burning refuse and garbage. When properly de-

signed and managed, such a furnace should need no other fuel than the refuse to be destroyed.

garbage-grease (gär'bāj-gres), n. A tradename for mixed fatty material collected from kitchen sinks, the grease-traps of sewers, etc.

It is not known that refineries in this country are as yet able to handle what is known as garbage grease, as the secret of the trade seems to be held abroad.

Census Bulletia 190, June 16, 1902, p. 5.

Barley, beans, lentils, and garbanzos grow very well in the fields in the greatest part of the province [New Cali-

formia].

**Ilumboldt*, quoted in Bulletin 2, U. S. Dept. Agr., Div. [Veg. Pathol., 1892, p. 30.]

garblage (gär'blaj), n. [garble + -age.] The office or functions of a garbler.

garbling, n. 4. Rubbish found mixed with a eargo which has been stowed in bulk.

garboard (gär'bord), n. In ship-building, one of the planks or plates of the bottom next to the keel on each side; also (in the plural), the den-seated omnibuses. whole of the garboard-strakes on both sides, garden-truck (gär'dn-truk), n. The products

or the part of the bottom surface covered by the garboard-strakes.

We have to go back to "Valkyrie 11." to find a midship section that bears any similarity to the easy bilges and full garboards that distinguish "Shamrock III." so sharply from any of her immediate predecessors.

Sci. Amer., June 27, 1903, p. 480.

gard, v. and n. A simplified spelling of guard.

Gardeau flags. See *flag4. garde-du-corps (gärd-dü-kôr'), n. [F.] A bodyguard; a member of a body-guard.

keep, + mcubles, furniture, pl. of meuble, \langle L. mabilis, movable: see mobile. A depository A depository or museum in which valuable furniture, tapestries, and the like are kept.

tries, and the like are kept.

garden. I. n.— Formal garden, a pleasure-ground laid out according to the principles of formal gardening. See formal *gardening.— Garden husbandry. (b) Farming carried on with as much care and neatness as gardening.— Rock garden, a garden, particularly a division of a botanic garden, adapted to the growth of alpine plants, succulents, and other plants fond of dry and rocky situations; a scientific rockery.— The Garden, the school of Epicnus, who taught in a garden. N. E. D.—Winter garden, a conservatory or greenhouse so arranged as to serve as a place of resort, with space for tables and seats.

II. a. 2. Common's ordinary: as a garden.

serve as a place of resort, with space tor tables and seats.

II. a. 2. Common; ordinary: as, a garden hen; garden proceedings. [Slang.]—Garden architecture. See *architecture.

garden-apple (gär'dn-ap"l), n. A name rarely used for the paradise-apple; a cultural or domestic form of the common apple (Malus Malus, var. paradisiaca) of very small stature.

See *doucin and *paradise, 7.
garden-bed (gär'dn-bed), n. 1. A bed of flowers or vegetables in a garden.—2. A name given to certain small areas covered by a number of low parallel, artificial ridges some six or eight inches high and from four to ten feet apart, found in certain parts of the eastern and garlic-mustard (gar'lik-central United States. Their significance is mns"tärd), n. See musnot known with eertainty.

garden-chair (gär'dn-char), n. garden use; particularly, a kind of bath-chair guinea-hen (on wheels) for the use of ladies and invalids.

gardencraft (gär'dn-krått"), n. The art of gardening, both from the utilitarian and from garlie-snail

the esthetic point of view.

To enjoy and appreciate the Italian garden-craft one must always hear in mind that it is independent of florienlture.

Edith Wharton, Italian Villas, p. 5.

**Gär'dn-erz-dō-līt"), n.

a snan.

lie-like odor.

garlie-tree (gär'lik-trō), n. In the West Indies, Cratæva Tapia, one of the trees known as garlie-tree know

gardener's-delight (gär'dn-èrz-dō-līt"), n. Same as *gardener's-eye.

gardener's-eye (gär'dn-erz-ī), n. The mullenpink or rose-eampion, Lychnis Coronaria.

garden-fly (gar'dn-fli), n. Any one of several species of the dipterous family Bibionudæ which breed commonly in the soil of gardens. garden-ground (gar'dn-ground), n. A plot of ground suitable for or used as a garden.

gardenin (gar'dn-in), n. [Gardenia + -in².] A neutral substance, $C_{14}H_{12}O_6$, extracted from dikamali, the resinous exudation of Gardenia lucida. It crystallizes in lustrous, deep-yellow needles which melt at 163-164° C.

gardening, n.—Formal gardening, landscape-gardening of the kind adopted by the Italians of the Renaissance and later by the French in the time of Louis XIV. It is characterized by straight avenues, artificial lakes and grass-plots of geometrical outline, and many terraces, pavilions, and other architectural adornments.

gardenize (gär'dn-iz), v. t.; pret. and pp. gardenized, ppr. gardenizing. [garden + -ize.] To give a garden-like appearance to; improve by introducing garden features: as, to gardenize

a public square. garden-nail (gär'dn-nāl), n. A kind of nail used to fasten the branches of trees, vines, etc., to walls; a wall-nail.

garbanzo (gär-bän'thō), n. [Sp.: see *calarance.] In Porto Rico and Spanish America
generally, the chick-pea, Cicer arictinum. See
chick-pea (with cut).

garden-plow (gär'dn-plou), n. A wheel-hoc.
garden-plow (gär'dn-ri), n. [garden + -ry.] The office or work of a gardener; garden-work.

garden-seat (gär'dn-sēt), n. 1. A seat or bench in a garden.—2. A name jocosely ap-plied to one of the seats for the accommodation of outside passengers which are arranged in parallel rows across the roof of some British omnibuses, facing in the direction of the journey. See knifeboard, 2, for another arrangement.

garden-seated (gär'dn-se"ted), a. Provided on top with *garden-seats (which see): as, garden-seated omnibuses.

of a vegetable-garden, particularly when grown for market.

garden-worm (gär'dn-werm), n. An earth-

gardevin, gardevine (gär'de-vin, -vin), n. [F. gardevin, \(\) garder, keep, \(+ \) vin, wine. \(\) 1. A large bottle for holding wine or spirits. \(-2 \). A cellaret (which see).

gardian, n. A simplified spelling of guardian. gare⁵ (gar), n. [F., < garer, keep: see garage.]
1. A dock, basin, or turnout on a river er

Commander Edwards, R.N., proceeded down the Canal, taking possession of the gares and dredgers, while Captain Fitzroy, R.N., occupied Ismailia after slight opposition.

Enege. Brit., XXVII. 708.

A railway-station.

garfish, n. (c) In Australasia, (1) Tylosurus ferox, called in Sydney 'long Tom'; (2) Hennramphus intermedius; (3) a river-fish, H. regularis, of the family Hemiram-(3) a r

garg. An abbreviation of the Latin gargarisma,

gargle.

Gargas marl. See *marl1.

gargoyled (gär'goild), a. Ornamented with gargoyles.

Parvis and portal bloom like trellised bowers,
And the vast minster seems a cross of flowers!
But flends and dragous on the gargoyled caves
Watch the dead Christ between the living thieves.

Longfellow, in trans., Divine Comedy, I. Sonnet ii.

garial, n. Same as gharrial and gavial.

garinding, n. See * garrique.
garinding (ga-rin'ding), n. [Javanese and
Malay garinding.] A Javanese oboe.

garlic, n.—False garlic, a liliaceous plant, Nothoscordium birative, found in the southern United States and Mexico. The genus is closely related to Allium, but is free from the utiliaceous relations. from the alliaceous odor. Some-times called yellow false garlic. tard.

A chair for garlic-shrub, n. 2. The of bath-chair guinea-hen weed, Petiveria alliacea. See Peti-

garlic-snail (gär'lik-snāl), n. Helix alliaria, a snail that emits a gar-

lie pear. See pearl and Cratæva.

Garmannia (gar man' iä), n. [NL., named för Samuel Garman, an American ichthyologist.] A genus of small gobies found in the Pauama region, having the

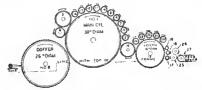
anterior half of the body dumbivatve), one third natural size. with large scales. The species is G. paradoxa. garn (garn), n. A dialectic form of yarn. [North. Eng.]

[NOTH. Eng.]

garnet¹, n.— Alizarin garnet, a mordant dyestnif related to anthraquinone, prepared by the reduction of a-nitro-alizarin. It produces bluish reds with metallic mordants. It is used chiefly in calico-printing and wooldyeing.—Carminaph garnet. Same as alpha-naph-thylamine *red.

garnet-paper (gär 'net - på "per), n. eoated with finely crushed garnets held by glue: used like sandpaper for polishing

garnett (gär-net'), v. t. [Garnett (machine).]



Garnett Machine.

1, main cylinder; 2, doffer; 3, fancy; 4, fancy-stripper; 5-14, workers; 15, licker-in; 16, tumbler; 17-19, metallic feed-rolls; 20-24, breast-workers; 25, 26, fluted feed-rolls.

To open and card woolen yarn waste, shoddy, etc., on a Garnett machine.

garnet-tackle (gar'net-tak"l), n. A purchaserigged on the mainstay and used for taking inand hoisting out cargo.

garnett-tooth (gär-net'töth), n. A form of saw-tooth cut in a steel band designed to be wound on the cylinders or rollers of a Garnett machine, used for carding thread-waste, shod-Nasmith, Cotton Spinning, p. 132.

garnetz (gär'nets), n. [G. garnetz, < Russ. garnetsŭ.] A Russian dry measure equal to nearly three eighths of a United States peck. C. Hering, Conversion Tables, p. 55. garnishry (gär'nish-ri), n. [garnish + -ry.]

Ornaments; adornments; garnishing.

Herdsmen's souls Of ancient times, whose eyes, calm as their flocks, Saw in the stars mere parnishry of heaven.

Browning, Paracelsus, iii. 183.

garr, n. See *gar³. garrigue (gä-reg'), n. [Southern F., < Pr. garriga = Cat. garriga, \langle Pr. garries, jarris. Cat. garrig, the holm-oak or ilex.] Pr. garries, OF. the south of France, a tract of waste land gas-analysis (gas'a-nal"i-sis), n. In chem., the covered with the holm-oak, Quereus Hex, and the Aleppo pine. Pinus hierosolymitana, and

garrison-hold (gar'i-sn-hold), n. Possession gas-bath (gas'bath), n. In chem., a bath for of a place by garrisoning it.

garrison-town (gar'i-sn-toun). n. A town in which a garrison is maintained.

depend for their moisture. It prevails from May to October up to a height of a hundred feet.

Garzonidæ (gär-zon'i-dē), n. pl. [Garzonia, the type genus, + -idæ.] A family of extinct marsupial mammals, of small size, which have no conspicuous diastema in the tooth series and two or three of the premolars with double

roots. Ameghino, 1891.
gas, n. 6. Specifically, nitrous-oxid gas when used to produce anæsthesia, most commonly by dentists.—Clayton gas, a mixture of sulphurous acid and other sulphur-oxid gases employed in disinfecting a ship's hold and clearing it of rats.—Dowson gas, combustible gas made by continuously passing steam mixed with air through red-hot anthracite or coke, the ignition of which is maintained by the supply of air; a bind of water-gas, which has been much used in gas. ing a siny's hold and clearing it of rats.—Dowson gas, seembustible gas made by continuously passing steam mixed with air through red-hot anthracite or coke, the ignition of which is maintained by the supply of air: a kind of water-gas, which has been much used in gasengines. W. L. Dibdin, Public Lighting, p. 232.—Gas engines. W. L. Dibdin, Public Lighting, p. 232.—Gas study and from small coal, lignite, peat, sawdust, or other cheap forms of solid fuel, either by partial combustion with limited supply of air (in this case consisting essentially of carbon monoxid and nitrogen), or by such combustion with admission of steam, in which case the mixture, known as water-gas, consists essentially of carbon monoxid, earbon dioxid, bydrogen, and nitrogen. See goaseous #fuel.—Ground gases, gases of all kinds contained within the earth, as distinguished from the atmosphere outside its surface. Van Hise, U. S. Geol. Surv. Monographs, XLV II. 58.—Hydrocarbon gas, the mixed gases generated by the action of steam, or of steam air, on substances which contain carbon and hydrogen, such as tar, olls, shale, etc. It contains large quantities of carbon monoxid, together with hydrogen and a number of the lower members of various hydrocarbon series.—Ideal gas, in thermodynamics, a gas which exactly conforms to Boyle's law, that is, which neither absorbs nor gives up heat during free expansion, and the internal energy of which is a function of the temperature alone. Also called a perfect gas. These conditions are not rigorously infilled in the case of any actual known gas.—Irrespirable gas, any gas the inhalation of which gives rise to larryngeal spasm.—Mond gas, generator gas prepared by one of the many special arrangements proposed for this parpose. Nature, Feb. 12, 1903, p. 354.—Naphtha, usually petroleum naphtha.—Pan gas, in the manufacture of carbonate of soda by the Lebhane

Power gas, gas used as a fuel for the generation of power; particularly, gas used as a fuel in internal-combustion engines. —Producer gas, a gas generated in a producer by blowing a jet of steam through an incandescent bed of coals; a fuel-gas or one rich in carbonic oxid. One pound of water-gas contains about 2,200 B. T. U., and is of about the following composition: CO 27, 112, CH₂, 2, Ch₃H₄, 1, Ch₃ a, N55.—Roaster gas, in the manufacture of earbonate of soda by the Leblanc process, the gaseous hydrochloric acid which is given off from the brickwork roasters in which is carried out the second stage of the decomposition of common salt by sulphuric acid; distinguished from pan *yas, which is given off at a lower temperature in the first stage of the decomposition in pans, usually of cast-iron.

gas, r. t. 3. To treat with a gas or expose to the action of a gas, as is done with slaked lime in the manufacture of bleaching-powder. G. Lunge, Sulphuric Acid, III. 456.—4. overcome or poison by means of the inhalation of gas.

analysis of substances in the gaseous state, in which quantitative determinations are chiefly

often upon uncultivated lands, there called the garriques, are seen long trains of ants forming two continuous lines hurrying in opposite directions, one going away from the nest, the other toward it.

Smithsonian Rep., 1806, p. 414.

garrison-hold (gar'i-sn-hôld) and De

the application of regulated temperature, either by an atmosphere of heated gas or by gas-burners.

which a garrison is maintained.
garrupa, n.—Red garrupa, Sebastodes caurinus, a scorpsenoid fish found from Puget Sound to Sitka.
garter, n. 8. pl. Leg-irons or shackles.
[Sailors' slaug.]
gartering (gär'tér-ing), n. A narrow fabric, as webbing, from which garters are made. garter-robes (gär'ter-robz), n. The robes proper to be worn by Knights of the Garter.
garua (gä-rö'ä), n. [Peruvian Sp.] The heavy fog along the coast of Peru on which plants depend for their moisture. It prevails from ber, in an internal-combustion engine, be-

ber, in an internal-combustion engine, between the mixing-chamber and the admissionport.

gas-burette (gas'bū-ret"), n. In chem., a graduated glass vessel in which gases may be measured before or after treatment with chemical reagents in the course of analysis.

gas-calorimeter (gas kal-ō-rim e-ter), n. An apparatus for finding the heat-value of a known quantity of gas; an apparatus for measuring the amount of heat a quantity of gas gives off when burned. See *calorimeter.

gas-cap (gas'kap), n. In cleet., the cover of the inner globe of an inclosed are-lamp, which protects the carbons from rapid combustion by reducing the access of air.

gas-cavity (gas'kav"i-ti), n. Same as gas-pore. gas-chamber (gas'chām" ber), n. A device used in microscopy for studying organisms under the influence of gases.

gas-coke (gas'kök), n. Same as gas-carbon. Gascon, n. 3. [l. c.] The common saurel or horse-mackerel, Trachurus trachurus.

gas-conductor (gas'kon-duk "tor), n. pipe for conducting gases or vapors: used spe eifically for the pipe leading from the mouth of a blast-furnace to the stoves.

Gasconism (gas'kon-izm), n. [Gascon + -ism.]
A peculiarity of speech, manner, or character of the Gascons; a spirit of boastfulness or bravado.

gas-cyst (gas'sist), n. A cyst containing gas, the product usually of a certain species of bacillus. Jour. Exper. Med., Oct. 25, 1900, p. 139.

gas-detector (gas'dē-tek"tor), n. An apparatus intended to give warning of the presence of fire-damp or dangerous gases in a mine.

gas-distributer (gas'dis-trib"ū-ter), n. A piece of apparatus used in chemical lahoratories, consisting of a central hollow block of brass with several stop-cocks, one for the admission of common illuminating-gas employed for heating purposes, and two, three, or more by which this gas may be carried off to as many different lamps or burners.

gas-fired (gas'fird), a. Heated by combustion of gaseous fnel: as, a gas-fired boiler, a gas-fired furnace, etc. Groves and Thorp, Chem. Technol., I. 539.

gas-firing (gas'fir"ing), n. A method of firing a furnace in which a gas or a liquid that has been vaporized is used as a fuel.

gas-fitter, n.—Gas-fitter's tongs, pipe-tongs.
gas-fitting (gas'fit"ing), n. 1. The occupation of a gas-fitter.—2. pl. The gas-fixtures and nous.] Of or pertaining to a gas, or to the

other appliances required in equipping a building for the use of illuminating-gas; also, the fittings for gas-pipes.

gas-forge (gas forj), n. A small steel frame in-closing fire-brick, of various shapes, and ar-ranged with either a hearth on which the flames play or a narrow slot through which the flames pass in a thin sheet. It is used in annealing rods, forging cutlery, brazing small sheets of metal, and heating lathe-tools preparatory to hardening them.

partening them.

gas-furnace, n., 1. The name is now applied to many different types of forges, ovens, and furnaces heated by natural gas, water-gas, or generator gas, and used in assaying, annealing, brazing, carbonizing, enameling, forging, japanning, melting, soldering, tempering, or welding metals, and also in warming buildings. Gas-furnaces are named from the work for which they are used: as the annealing gas-furnace, the brazing gas-furnace, etc. They consist commonly of a steel frame or box, lined with firehrick or other refractory material, and one or more gas-burners which deliver the gas, mixed with air, under the bressure of an air-blast. pressure of an air-blast.

gas-generator (gas'gen-e-rā-tor), n. 1. A gasproducer; agas-retort; an apparatus for manufacturing gas either by distillation, as in a retort, or by separation, as in a producer, or by a chemical process, as in making hydrogen by mixing zine and sulphuric acid, thus forming zinc sulphate and liberating hydrogen gas. See *gas-producer, 1.—2. An apparatus used in chemical laboratories to furnish a particular gas by the action of some liquid reagent upon a solid, so arranged that when the gas is no longer required its out-flow may be cut off by a stop-cock, and its tension then serves to force the liquid out of contact with the solid material, thus arresting the generation of gas until it is again needed.

—Babo's gas-generator, a simple instrument for latermittently generating gases, as carbon dioxid, hydrogen sulphid, etc. By inclining the apparatus, acid or other liquid contained in one bulb is allowed to flow into another bulb containing the chemical on which it is to act. When gas is no longer needed, the instrument is returned to its normal position.—Kipp's gas-generator, a piece of apparatus used in chemical laboratories to furnish carbon dioxid, sulphureted hydrogen, or other gas in limited quantity when needed, without waste of material when the gas is not being drawn off. It consists of three glass globes placed vertically one over another, and having a funnel-tube which runs from the uppermost to the lowest of the three. The solid material to be acted upon is placed in the middle globe, the dilute acid to act upon it in the uppermost one, and the lowest serves to collect the spent liquor to be from time to time removed.

gas-grate (gas'grāt), n. A gas-stove burner contact with the solid material, thus arresting

gas-grate (gas'grāt), n. A gas-stove burner having branches, or bars like those of a grate, with many small burners. It is used in water-heaters, cake-griddles, etc. gas-harmonicon (gas'här-mon'i-kon), n.

Same as pyrophone.

gashgabbit (gash'gab"it), a. Having a project-

ing chin. [Scotland.]
gas-holder, n. 2. A vessel of metal or glass,
used in chemical laboratories for the collecused in chemical laboratories for the collection and storage of gases.—Mitscherlich's gasholder, a glass vessel closed at top and bottom with appropriate stoppers. The mouthpiece carries an exit-tube and a funnel-tube which reaches to the bottom. When filled with water, the upper stop-cocks remaining closed, the tubulus at the bottom may be opened without the water running out. Gas when introduced displaces the water. When the gas is collected the lower tube is closed and pressure is exerted on the interior by pouring water into the funnel-tube. The gas may then be drawn as desired.

gasket (gas'ket), v. t. [gasket, n.] To fasten with gaskets, as a sail to a yard.

gas-kiln (gas'kil), n. An oven or kiln which uses gas as a fuel.

gaskin (gas'kin), n. [Also gasken, gascoign, gascoigne, ult. 'of Gascony,' \langle OF. Gascoigne: see Gascon.] 1. The sweet cherry, Prunus see Gascon.] 1. The sweet cherry, Prunus avium.—2. The common gooseberry. [Prov. Eng.]—3. The hinder part of a horse's thigh, extending from the stifle to the bend of the hock.

gas-lamp, n.—Incandescent gas-lamp, any form of gas- or gasolene-burner combined with a mantle from the incandescence of which light is obtained.

gas-log (gas'log), n. A device resembling a piece (or several pieces) of fire-wood, used in a fireplace in which gas is burned.

gas-microscope (gas'mī/krō-skōp), n. Same

as oxyhydrogen microscope.
gasmobile (gas-mō'bil), n. A trade-name of a
form of motor-car in which gasolene is used as a source of motive power in an internal-combustion motor.

gas-motor (gas'mo"tor), n. A motor or engine in which the piston is moved by the gas or vapor from an ammonia liquor.

vapor phase of a substance: as, a gasogenous by pass, e, supplies enough gas, at all times, to keep a small flame at the burner, under the oven.

There are liquidogenous and gasogenous molecules, which co-exist in proportions depending upon the temperature. Engineering, July 24, 1903, p. 109.

gasolene, n. Its principal hydrocarbon constituents are hexane and heptane, CaH₁₄ and C7H₁₆; in varying proportions. It boils between 149° and 194° F. and gives off a vapor under atmospheric tension at all temperatures. The vapor of gasolene is 3.66 times as heavy as air. The volatile elements distil off on storage, unless the containing-vessels are very tight. Its calorific power is about 18,000 B.T. U. It is much used in the internal-combination motors of motor-cars and motor-boats.—Gasolene engine. Same as *gasolene torch having two flames.—Gasolene furace, a small furnace, usually portable, which burns gasolene. It is used in melting solder, lead, etc., heating rivets and core-ovens, and for other purposes. It is made with vapor-burners and on the general principle of the gasolene torch.—Gasolene motor, an internal-combustion motor which uses a mixture of gasolene vapor and air as a source of motive power. See cuts at internal-combustion *engine.

gasolier (gas'ō-lēr), n. A chandelier in which

gasolier (gas'o-ler), n. A chandelier in which gas is used.

gasometer, n.—Bunsen's gasometer, a graduated glass vessel for collecting, storing, and delivering gases.

Mercury or water may be used to fill the vessel before the gas is introduced.

The scapatone can be melted in a gas-oxygen jet, and very fine fibres are easily drawn out from the clear bead thus obtained.

Nature, June 9, 1904, p. 132.

gaspereau (gas-pe-rō'), n. [Canadian F.; ef. Gaspereau (lakes), Gaspercaux (village), local names in Canada.] 1. The common alewife, Pomolobus pseudoharengus. [Maine and Canada.]—2. A name given in New Brunswick and parts of Canada to the herring, Clupea permatis

gaspergou (gas-per-gö'), n. [Origin not ascertained.] The fresh-water drum, Aplodinotus grunniens. [Canada.]

Gaspé series. See **series.
gas-pillar (gas'pil*är), n. The short upright
part of a gas-burner to which the burner is

gas-pocket (gas'pok"et), n. A quantity of gas

nixed.

gas-pocket (gas'pok'et), n. A quantity of gas collected in a crevice or hollow. Such collections are likely to occur in the crevices in the charge of a blast-furnace, and, if composed of elements in the right proportions, will explode when ignited by the flames.

gas-producer (gas'prō-dū'sēr), n. 1. A furnace in which combustible gas is produced, to be used as fuel in another furnace. Usually the gas is made by distilling carbonic oxid, which is done by heating anthracite or bituminous coal in a grate with the fuel-bed so thick that the upper or freshly charged layers are in an atmosphere of carbonic-scid gas from the lower combustion. When the carbon of these upper layers becomes hot enough for chemical reaction, it unites with CO₂ decomposing it into two parts of carbonic oxid or CO. If steam is blown into the ash-pit of such a producer, the II₂O is decomposed, the hydrogen beling mechanically mixed with the carbon monoxid, and the oxygen combining with carbon, to be again broken np, as before, by reaction with more carbon. See producer ★gas.

2. Same as ★gas-generator, 2.

gas-pump (gas'pump), n. 1. A pump used for compressing gas.—2. A pump for raising water, or for any other service, the motive power of which is an internal-combustion en-

power of which is an internal-combustion engine.

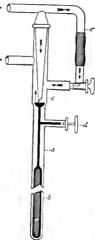
gas-radiator(gas'rā"- - 0 di-ā-tor), n. A gas-heater formed of vertical sheet metal pipes arranged in the form of a steam-radiator.

of a steam-radiator.

gas-regulator,

Reichert's gas-regulator,

Reichert's gas-regulator, an apparatus for regulator, an apparatus for regulating the flow of gas: used in councetion withan oven whose temperature is to be kept coustant, such as an incubator, a drying-oven, etc.; a form of thermostat. The instrument consists of a glass tube, a, of narrow bore, blown into a bulb, b, at one end and having one or more lateral tubes sealed to it near the other end. Mercury fills the bulb and part of the stem. When expanded by heat it partly closes the orifice, c, through which the gas passes. The extent to which this can occur is controlled by the side adjusting-serew, d. A S.—33 S. - 33



Reichert's Gas-regulator.

gas-ring (gas'ring), n. A work-bench gaso-lene heating-burner in which the jets of flame

lene neating-burner in which the jets of name are arranged in a circle; a ring burner. gas-scale (gas'skāl), n. The scale of a gasthermometer. Nature, April 24, 1902, p. 604. Gassendist (ga-sen'dist), n. [Gassendi+-ist.] A follower or supporter of Gassendi, a French metaphysician (1592–1655) who defended Epiculpanism cureanism.

gasser (gas'er), n. 1. One who is engaged in gasser (gas'er), n. 1. One who is engaged in gassing lace, cotton, yarn, etc., in order to remove the hairy filaments. See gassing and gassing-frame.—2. One who 'gasses,' or talks in an idle and empty manner. [Slaug.]
Gasserian artery. See *artery.
gassing, n. 3. The fumigating of fruit-trees by means of hydrocyanic-acid gas, to destroy insects. [Colloc.]

insects. [Colloq.]

Scale insect enemies of citrus trees are controlled in two ways: either by spraying the infested planta with some liquid insecticide or by subjecting them to the fumes of hydrocyanic acid gas, commonly designated as "gassing."

Fearbook U. S. Dept. Agr., 1900, p. 254.

4. The evolution of gas from the plates of a

gasometrical (gas-\(\tilde{0}\)-met'ri-kal), a. Same as gasometrical (gas'\(\tilde{0}\)-met'ri-kal), a. Same as gasometrical (gas'\(\tilde{0}\)-met'ri-kal), a. Producing heat by the combustion of a mixture of illuminating-gas and oxygen: as, a gas-oxygen flame, a gas-oxygen blowpipe. Also known as oxy-gas and oxy-coal-yas.

The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. and The soapstone can be melted in a gas-oxygen iet. Th

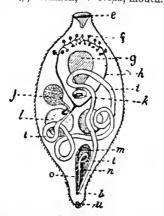
abdomen exclusive of the stem, or pedicel. gasterasthenia (gas"tėr-as-thē'ni-ā), n. [NL., Gr. γαστήρ, stomach, + ἀσθένεια weakness. Muscular or functional weakness of the stomach.

gasterocomid (gas-te-rok'ō-mid), n. A member of the family Gasterocomidæ.

Gasteropelecus (gas te-rō-pel'e-kus), n. [NL.. ⟨ Gr. γαστήρ, belly, + πέλεκυς, a two-edged ax.]
A generic name of certain carcinoid tishes of

South America, notably G. maculatus.
Gasterostomatidæ (gas-te-ros-tō-mat'i-dē), n. pl. [NL., \(\simega\) *Gasterostoma(t-), assumed form of Gasterostomum, + idæ.] A family of malacotylean trematodes, having the anterior sucker only, the mouth on the ventral surface but not in the sucker, and the genital opening terminal. They are parasitic in the alimentary canal of fishes, and the cercaris is known as Bucephatus. Gasterostomum is the typical genus.

Gasterostomum (gas-te-ros'tō-mum), n. [NL., Gr. γαστήρ, stomach, + στόμα, mouth.] The



Gasterostomum armatum, from the intestine of Cottus scorpio. Ventral view (partly after Molin, partly after Levinsen).

• g, genital pore; e, anterior sucker; f, vitellarium; g, simple sachike intestine; h, the left vitelline duct, which unites with its fellow, and opens by a median duct into the germ-duct; f, ulterus; f, germarium; k, mouth, which has a position unique among the Trematoda, nearly in the middle fof the ventral surface; f, the right testis; m, seminal vestice; n, cirrus sac; o, cirrus or penis; n, excretory pore. (From Lankester's "Zoology,")

typical genus of the family Gasterostomatidæ. G. fimbriatum is parasitic in the perch Perca fluviatilis. Its eggs give rise to larvæ which make their way into the liver or gonad of Unio or Anodonta, destroying by their growth the reproductive gland. In the aporocysts formed in the mollusk arise the cereariæ known as Buerhalus (which aee). G. armatum is parasitic in Cottus scorpio.

gasterotrichan (gas-te-rot'ri-kan), a. and n. Same as *gastrotrichan.

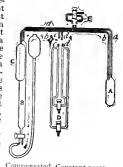
gasterotrichous (gas-te-rot'ri-kus), a. Same as gastrotrichous.

gas-thermometer (gas'ther-mom"e-ter), n. A thermometer in which the variation of volume or tension of a fixed quantity of dry gas indias *gastro-adenitis (gas"trō-ad-e-nī'tis), n. Same as *gastradenitis.

cates the temperature of the latter. Hydrogen,

cates the temperature of the latter. Hydrogen, oxygen, nitrogen, and carbonic-acid gas-thermometers have heen employed. The hydrogen gas-thermometer is considered as the normal, but all are reduced to the ideal gas-thermometer by theoretical formulas.—Compensated constant-pressure gas-thermometer, a gas-thermometer by means of which the volume of gas at different temperatures is determined under constant pressure; specifically, that devised by Callendar in 1887. "The instrument consists of two parts — B, a burette connected by the capillary tube, b, which is of the same dimensions as, and is bent similarly to, a. The two parts of the instrument are connected, at c and d, to the two limbs of the differential manometer D. The readings are taken by measuring the volume of the gas, introduced through E, in the burette after adjusting the mercury till the pressure in the two parts of the apparatus, as indicated by the differential manometer, is equal." M. W. Travers, Exper. Study of Gases, p. 151.

[Sas-thread (gas'thred), n. A standard form of thread used on ivan and bross tubes.]



gas-tip (gas'tip), n. A perforated top or cap of lava or metal fixed to a gas-burner, through which the gas escapes as it burns, the shape of the opening in the tip governing the shape of the flame.

gastliness, n. A simplified spelling of ghastli-

gastly, a. and adv. A simplified spelling of ahastly.

Gastornithidæ (gas-tôr-nith'i-de), n. pl. [NL., ⟨ Gastornis (-ornith-) + -idæ.] A family of extinet gigantic birds, indicated by bones from the Eccene of France: sometimes considered as forming au order, the Gastornithes. The members of the group are believed to be more astradenitis (gas*tra-de-ni'tis), n. [NL, ζ Gr.) aστήρ (γαστρ-), stomach, + αόψ, gland, + itis.] Inflammation of the glands of the

stomach, especially when caused by acute poisoning with arsenic or phosphorus. gastræal, gastreal (gas-tre'al), a. [gastræa + -at1.] Relating or pertaining to the gastrea

stage of the embryo.

The comparative embryology of this [cœlom] cavity shows that originally in the most archaic vertebrates it was formed by the outgrowth of diverticula from the primitive gastræal cavity.

Encyc. Brit., XXV. 397.

gastralium (gas-trā'li-um), n.; pl. gastralia (-ii). [NL., < gastralis, gastral.] Same as *auto-gastralium.

gastrectasia (gas-trek-tā'si-ā), n. [NL., < Gr. γαστήρ (γαστρ-), stomach, + ἐκτασις, extension.] Dilatation of the stomach. Also called gas-

gastrectasis (gas-trek'ta-sis), n. [NL.] Same as *gastrectasia.

gastreum, n. Same as gastræum.

gastreum, n. Same as gastræum.
gastric, a.—Gastric mill, the thickened and calcified armature of the chitiuonalling of the cardiac division of the atomach in certain Crustacea. In the crawfish, and In most of the higher Crustacea, it consists of a complex chitiuons framework which carries a median and two lateral projections furnished with muscles for converging them upon the food and completing its mastication. Parker and Haswell, Zoology, I. 547.—Gastric neurasthenia, pouch, tstany. See *meurasthenia, etc. gastricolous (gas-trik'ō-lus), a. [Gr. γαστήρ (γαστρ-), stomach, + L. eolere, dwell in.] Inhabiting the stomach: said of parasites.

(γαστρ-), stomach, + L. colere, dwell in.] inhabiting the stomach: said of parasites.

gastriloquial (gas-tri-jō'kwi-al), a. [gastriloquy + -atl.] Of or pertaining to ventriloquism; ventriloquial.

gastritic (gas-trit'ik), a. [gastrit-is + -ic.]

Relating to or affected with gastritis.

Relating to or affected with gastritis.

gastritis, n.—Arthritic gastritis, gout of the stomach.—Atrophic gastritis, inflammation of the stomach causing atrophy of the secreting glauds.—Catarrhal gastritis. Same as gastric **ecatarrh**.—Follicular gastritis, inflammation affecting especially the glauds of the stomach.—Glandular gastritis. Same as follicular **gastritis.—Hypertrophic gastritis, inflammation of the stomach leading to permanent thickening of the microus membrane.—Mycotic **gastritis**, inflammation of the stomach caused by the presence of a fungus.—Phlegmonous gastritis, an acute and severe form of inflammation involving chiefly the summicrous coat of the stomach: often accompanied by the formation of abscesses.

n. [NL.. \langle Gr. γ αστηρ (γ αστρ-), stomach, + αναστόμωσις, anastomosis.] The establishment of a communication between two portions of the stomach which are separated by a constriction, as in hour-glass stomach.

gastro-arthritis (gas*tro-ār-thri'tis), n. [NL., ζ tir. γαστηρ (γαστρ-), stomach, + ἀρθρίτις, gout.] Gout of the stomach.

Gastrocampyli (gas-trō-kam'pi-lī), n. pl. [NL., ⟨Gr., ναστήρ (γαστρ-), stomach, + καμπίλος, curved.] In Hyatt's elassification, that division or suborder of the ammonoid cephalopods in which the siphuncle is situated on the dorsal or concave curvature of the whorls, the shells laterally compressed, involute, and frequently ornamented with spinous processes, the septal sutures not being greatly unlike those of the simpler forms of the goniatites. The division includes only the old genus Clymenia and family Clymenidae, both of which have now been considerably subdivided.

Sometime in a treet, or a september of the simpler forms of the goniatites. The division includes only the old genus Clymenia and family over, + νεῦρον, nerve.] Increased activity of the stomach due to disorder of the nervesubdivided.

gastrocentrous (gas-trō-sen'trus), a. [Gr. γαστήρ, belly, + κέντρον, center.] Having vertebral centra formed by the growth of the pair of ossifications, known as interventralia, which are developed on the inferior face of the

notoehord.

The vertebræ of the Reptilia and those of all other Amniota are gastrocentrou. H. Gadow, Amphibia and Reptiles, p. 282.

Gastrocnemial ridge. See *ridge. gastrocœle (gas trō-sēl), n. [Gr. γαστήρ (γαστρ-), stomach, + κοιλος, hollow.] In embryol., the cavity of the archenteron in the gastrula; the primitive digestive eavity of the young embryo.

(gas#trō-ko-los'tō-mi), gastrocolostomy [Gr. γαστήρ (γαστρ-), stomach, + κόλον, colon, + στόμα, mouth.] Establishment by operation of a communication between the colon and the stomach.

gastrodialysis (gas"trō-dī-al'i-sis), n. [Gr. γαστήρ (γαστρ-), stomaeh, + διάλυσις, separation.] Sloughing of the mucous membrane of the stomach.

gastrodiaphane (gas-trō-dī'a-fān), n. [Gr. γαστήρ (γαστρ-), stomach, + διαφανής, transparent: see diaphanous.] An instrument carrying an electric light, used in *gastrodiaphany (which see).

gastrodiaphany (gas"trō-di-af'a-ni), n. [As gastrodiaphane + -y³.] Examination of the stomach by means of transillumination. A tube to which an electric light is attached (called a gastrodiaphane) is passed into the stomach, and the abdominal wall is then inspected in a dark room. Nature, Aug. 4,

gastrodidymus (gas-tro-did'i-mus), gastrodidymi (-mi). [NL., ζGr. γαστήρ (γαστρ-), stomaeh, + δίδυμος, twin.] In teratol., a double

monster joined in the abdominal region.

gastrodisc (gas'trō-disk), n. [Gr. γαστήρ (γαστρ-), stomaeh, + δίσκος, a disk.] The endoderm of the vertebrate embryo in the discogastrula stage, that is, when both the ectoderm and the underlying endoderm are spread out on the yolk in the form of a disk.

gastroduodenostomy (gas"trō-dū"ō-dē-nos'-tō-mi), n. [Gr. γαστήρ (γαστρ-), stomach, + NL. duodenum + Gr. στόμα, mouth.] Establishment by operation of a communication between the stomach and the duodenum elsewhere than at the pylorus. Lancet, Aug. 29, 1903, p. 591.

gastro-enteralgia (gas"trō-en-te-ral'ji-ä), n. [Gr. γαστήρ (γαστρ-), stomach, + ἐντερον, intestine, + ἀλγος, pain.] Pain in both stomach

and intestines.

gastro-enterocolitis (gas"trō-en"te-rō-kō-lī'tis), n. [Gr. γαστήρ (γαστρ-), stomach, + έντερον, intestine, + κόλον, colon, + -itis.] Inflammation of both large and small intestines and of the stomach.

gastro-enterostomy (gas#tro-en-te-ros'to-mi), n. [Gr. γαστήρ (γαστρ-), stomaeh, + έντερον, intestine, + στόμα, mouth.] The establishment of a communication between the stom-

Eight cases were operated on for hemorrhage; in one an ulcer was excised and the patient died on the eighth day; in one an ulcer on the posterior surface was excised and a gastroenterostomy performed, the patient recovering; in six gastroenterostomy alone was performed and all recovered.

Med. Record, Feb. 28, 1903, p. 343.

Gastro-epiploic arteries, two arteries in the wall of the stomach, the right a branch of the hepatic artery, the left a branch of the splenic: their terminal branches anastomose.— Gastro-epiploic glands. See *yland.

gastrogastrostomy (gas"trō-gas-tros'tō-mi), [Gr. γαστ ρ -), stomach, + μ $\dot{\eta}$ τ ρ a, womb, n. [Gr. γαστ ρ -), stomach, + γαστ $\dot{\eta}$ ρ + ταμ $\dot{\eta}$, section.] Same as Cæsarean section. (γαστ ρ -), stomach, + στ $\dot{\phi}$ μα, month.] Same as Gastromycetes (gas"trō-mī-sē'tēz), n. pl. gastro-anastomosis (gas 'trē-a-nas-tē-mē'sis), gastrogastrostomy (gas "trē-gas-tros'tē-mi), *gastró-anastomosis.

gastrogenital (gas-trō-jen'i-tal), a. [Gr. γαστήρ (γαστρ-), stomach, + NL. genitalis, genital.] Having the reproductive organs on the radial canals, as in the Leptomedusæ. Proc. Zool. Soc.

London, 1903, 11. 173. to gastronomy. N. E. D. gastrograph (gas'trō-graf), n. [Gr. $\gamma a \sigma \tau \rho$), stomach, $+ \gamma \rho \dot{\alpha} \phi \epsilon \iota \nu$, write.] A device gastropancreatic (gas"trō-pan-krō-at'ik), a. for recording the movements of the stomach Relating to both the stomach and the panduring digestion.

gastrohepatitis (gas"trō-hep-a-ti'tis), n. [NL., (Gr. γαστήρ (γαστρ-), stomaeh, + ήπαρ (ήπατ-), liver, + -itis.] Simultaneous inflammation of both stomach and liver.

supply.

gastrohyponeuria (gas″trō-hī-pō-nū′ri-ä), n. [NL., \langle Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \dot{\nu} \tau \pi \phi$, under, $+ \nu \epsilon \bar{\nu} \rho \sigma \nu$, nerve.] Diminished activity of the stomach due to disorder of the nerve-

supply.

gastrohysteropexy (gas"trō-his-te-rop'ek-si), n. [Gr. γαστήρ (γαστρ-), stomach, + $v\sigma τέρα$, uterus, + πηξις, fastening.] Operative fixation of the fundus of the uterus to the anterior ahdominal wall, in order to correct a displacement of that organ.

gastro-ileal (gas"trō-il'ē-al), a. [Gr. $\gamma a \sigma \tau \eta \rho$ (Gastrophrenic ligament, a fold of peritone ($\gamma a \sigma \tau \rho$ -), stomach, + NL. ileum + -al.] Of or pertaining to both the stomach and the ileum. Gastro-ileal folds. See $\star fold^1$. (Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \phi \theta i \sigma c$, Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \phi \theta i \sigma c$, Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \phi \theta i \sigma c$,

 Gastro-Heal folds. See *youu.
 gastrojejunostomy (gas*trō-jē-jū-nos'tō-mi),
 n. [Gr. γαστήρ (γαστρ-), stomaeh, + NL. jejunum + Gr. στόμα, month.] Establishment of communication between the stomach and some portion of the jejunum.

The stomach was enormously dilated and contained a large quantity of fluid. Anterior gastrojejunostomy was the operation selected. Lancet, Aug. 29, 1903, p. 591.

Gastrolepidotidæ (gas"trō-lep-i-dot'i-dē), pl. [NL., < * Gastrolepidotus, < Gr. γαστήρ, helly, + λεπιδωτός, scaled, sealy: see * Lepidotus.] Α family of stegocephalian amphibians having fully ossified vertebræ and basioccipitals, a ventral armor of elongated bony scutes, and teeth with infolded layers of dentin. The genera (Anthracosaurus, Loxomma, etc.) are of Carboniferous and Permian age.

gastrolienal (gas"trō-lī-ē'nal), a. [Gr. γαστήρ (γαστρ-), stomaeh, + L. lien, spleen, + -all.] Same as gastrosplenic.

Same as gastrosptenic. gastrolithiasis (gas"trō-li-thī'a-sis), n. [NL., \langle Gr. $\gamma a \sigma \tau i \rho$ ($\gamma a \sigma \tau \rho$ -), stomaeh, $+ \lambda i \theta o c$, stone, + -i a s i s.] The formation of gastroliths and the morbid symptoms occasioned by their presence. Gastropsetta (gas-trop-set'ä), n. [NL., \langle Gr. $\gamma a \sigma \tau i \rho$, belly, $+ \psi i \tau \tau a$, a flounder.] A genus of deep-sea flounders found in the Gulf Stream.

gastrolobin (gas-trō-lō'bin), n. [Gastrolo-hium + -in².] A dark-colored glucoside con-tained in the leaves and young shoots of Gastrolobium bilobum.

gastrologer (gas-trol'ō-jer), n. [gastrolog-y + $-er^2$.] One who is versed in gastrology. gastrological (gas-trō-loj'i-kal), a. Of or per-

taining to the stomach or to the proper supply of its demands or needs.

gastrologist (gas-trol'ō-jist), n. [gastrolog-y + -ist.] 1. One who is versed in gastrology, or skilled in catering to the demands of the stomach.—2. A physician who devotes special attention to the diagnosis and treatment of diseases of the stomach.

2. Inspection of the mucous membrane of the stomach by means of a gas-

gastrology, n. 2. The art of cookery or of troseope. eatering to the demands of the stomach.—3. gastrosis (gas-trō'sis), n. [NL., < Gr. γαστήρ, The scientific study of diseases of the stomach and of their treatment.

gastrolysis (gas-trol'i-sis), n. [NL., \langle Gr., $\gamma a\sigma\tau \eta \rho$ ($\gamma a\sigma\tau \rho$ -), stomach, $+ \lambda \ell \sigma \iota \iota \iota$, loosening.] The act or process of freeing the stomach from abnormal adhesions to adjacent parts.

ach and some portion of the intestine which is more or less distant from the pylorus.

Eight cases were operated on for hemorrhage; in one less distant from the pylorus.

Eight cases were operated on for hemorrhage; in one less distant from the pylorus. has one or several supernumerary limbs growing from the anterior abdominal wall; a form of epigastrius.

gastromenia (gas-trō-mō'ni-ä), n. [Gr. γαστήρ (γαστρ-), stomach, + μῆνες, menses.] Vicarious menstruation from the mucous membrane of the stomach.

gastrometrotomy (gas#trō-mē-trot'ō-mi), n.

An incorrect form of Gasteromycetes.
gastromycosis (gas"trō-mī-kō'sis), n. [NL...

 $\langle \text{Gr. } \gamma a \sigma \tau \dot{\eta} \rho \ (\gamma a \sigma \tau \rho -), \text{ stomach, } + \dot{\mu} \dot{\nu} \kappa \eta \varsigma, \text{ fungus, } + -osis.]$ Same as mycotic *gastritis.

gastronomous (gas-tron'o-mus), a. Devoted

creas.—Gastropanereatic ligament, a fold of peritoneum which extends from the pancreas to the pyloric extremity of the stomach.

gastroperiodynia (gas"trō-per"i-ō-din'i-ä), n. [Gr. $\gamma a \sigma \tau \dot{\eta} \rho$ ($\gamma a \sigma \tau \rho$ -), stomaeh, $+ \pi \epsilon \rho i o \delta \sigma c$, period, $+ \dot{\sigma} \dot{\phi} \dot{\nu} \eta$, pain.] Intermittent paroxysmal

pain at the pit of the stomach.

gastropexy (gas'trō-pek-si), n. [Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \pi \eta \bar{\epsilon} \iota \iota \iota$, fastening.] Operative fixation of the stomach to the abdominal wall.

gastrophile (gas'trō-fil), n. [Gr. γαστήρ (γαστρ-), stomaeh, + φίλος, loving.] One who loves good eating and plenty of it.

gastrophilism (gas-trof'i-lizm), n. [gastro-phile + -ism.] The love of good eating. gastrophilist (gas-trof'i-list), n. [gastrophile

+ -ist.] Same as *gastrophile.
gastrophilite (gas-trof'i-lit), a. [gastrophile + -ite².] Fond of gratifying the demands of

the stomach.

Gastrophrenic ligament, a fold of peritoneum which extends from the cardiac extremity of the stomach to the diaphragm.

Gr. $\gamma a \sigma \tau h \rho (\gamma a \sigma \tau \rho^{-})$, stomach, $+ \phi \theta i \sigma \iota \varsigma$, wasting: see *phthisis*.] A cacheetic state with emaciation consequent upon disease of the stomach.

gastroplasty (gas'trō-plas-ti), n. [Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+\pi \lambda a \sigma \tau \delta c$, formed, $+-y^3$.] In surg., an operation designed to restore the normal shape of a dilated or hour-glass stomach or to supply some defect in that organ.

n. gastroplegia (gas-trō-plē'ji-ä), n. [NL., ⟨Gr. ly, γαστήρ (γαστρ-), stomach, + πληγή, stroke.]
 A. Paralysis of the walls of the stomach.

gastroplication (gas*trō-plī-kā'shon), n. [Gr. $\gamma a \sigma \tau \dot{\rho} \rho$ ($\gamma a \sigma \tau \dot{\rho}$ -), stomach, + E. plication.] In surg., an operation for reducing the capacity of a dilated or sagging stomach by plaining the wall and retaining the plaits by sutures. Lancet, July 18, 1903, p. 149.

gastropodous, a. See gasteropodous.
gastropore, n. 2. In the conosteum of the
hydrocorallines like Millepora, one of the
larger, sometimes tabulated tubes of the

[Gastrolo- gastroptosis (gas-trop-tō'sis), n. [NL., \langle Gr. coside con- $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \pi \tau \bar{\omega} \sigma \iota \iota \iota$, falling.] bots of Gas- Downward displacement of the stomach.

gastroschisis (gas-tros'ki-sis), n. [NL., ζ Gr. γαστήρ (γαστρ-), stomach, + σχίσις, fissure.] Congenital fissure of the abdominal wall.

gastroscope (gas 'trō-skōp), n. [Gr. γαστήρ (γαστρ-), stomach, + σκοπεῖν, view.] A hollow thbe provided with reflecting mirrors and an electric light, which is passed through the esophagus into the stomach in order to enable the operator to inspect the interior of that organ.

stomach, + -osis.] Any disease of the stomach.

gastrosoph (gas 'trō - sof), n. [Gr. γαστήρ, stomach, + σοφός, wise.] An epieure; a stomach, +

gastrosophy (gas-tros 'ō-fi), n. [Gr. (γαστρ-), stomaeh, + σοφία, wisdom.] science of good eating. [Gr. γαστήρ

Coffee-house, what magnificent associations of ideas do you not create! By you for generations has rolled the you not create! By you for generations has rolled the never-ceasing flow of wealth. . . . Yet, with the insouciance of a suhlime philosophy, your cooks and waiters have never turned away from their works of gastrosophy to think of the neighbouring millions.

Blackwood's Mag., XV. 642.

gastrostenosis (gas"trō-stē-nō'sis), n. [NL., (Gr. γαστήρ (γαστρ-), stomach, + στένωσις, narrowing.] Contraction of the stomach.

gastrosuccorrhœa (gas trō·suk·o-rē'ä), n. [Nl., ⟨Gr. γαστήρ (γαστρ-), stomach, + L. succus, juice, + Gr. ροία, flowing.] Abnormally abundant secretion of gastric juice. gastrosuccorrhœa

gastrotheca, n. [NL.] · See gasterotheca. gastrothoracic (gas*trō-thō-ras'ik), a. [Gr. $\gamma a \sigma \tau \dot{\eta} \rho$ ($\gamma a \sigma \tau \dot{\rho}$ -), stomach, + $\theta \dot{\omega} \rho a \xi$, thorax.] Relating to the thorax and the stomach or abdomen.

gastrotoxin (gas-trō-tok'sin), n. [Gr. γαστήρ () $a\sigma\tau\rho$ -), stemach, + E. toxin.] A cytotoxin gate-motion (gāt'mō'shon), n. A mechanism produced by immunization with cells from the by which skeins of yarn are easily removed

mucous membrane of the stomach.

gastrotrichan (gas-trot'ri-kan), a. and n.

[trastrotricha + -an.] I. a. Of or pertaining -an.] I. a. Of or pertaining to the Gastrotricha.

II. n. A member of the Gastrotricha.

gastrotrocha (gas-trot'rō-kä), n. [NL., \langle Gr., \rangle aστήρ (γ aστρ-), stomach, + τροχός, a wheel, circle.] The larva of a polychetous annelid having two rings of cilia, with incomplete rings on the ventral surface.

gastrotrochal (gas-trot'rō-kal), a. [gastrotrocha + -at¹.] Of or pertaining to a gastrot-

gastrotympanites (gas trō-tim-pa-nī'tēz), n. gate-wheel (gāt'hwēl), n. 1. A wheel in a [NL., ζ Gr. γαστήρ (γαστρ-), stomach, + τνμ-railroad signal-tower or signal-eabin by which πανίτης, tympanites.] Gaseous distention of the gates protecting a highway creation of the stomach.

gastrozoδid (gas-trō-zō'oid), n. [Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \zeta \phi \sigma \nu$, animal, + -oid.] A flutritive member of a colony of Hydrozoa, which is provided with a mouth and stomachsae: typically present in the sea-ginger, Millepora alcicornis, and correlated with daetylo-

zoöid. See *gonodendron, with cut.
gastrulate (gas' trö-lät), v. i.; pret. and pp. gastrulated, ppr. gastrulating. [gastrula + -ate².] To undergo gastrulation; become a

gastrula.

gastrulated (gas'trö-lā-ted), p. a. [gastrulate + -ed².] Having assumed the gastrula stage, especially when the gastrula is formed by gather-dam (gath'er-dam), n. A dam creeted gaussage (gous'āj), n. The numerical value of invagination or embole.

gather-dam (gath'er-dam), n. A dam creeted gaussage (gous'āj), n. The numerical value of invagination or embole.

gas-tube (gas'tūb), n. An instrument for the analysis of gases, particularly illuminatinggas. It has a bulb which contains from 50 to 90 per cent. of the volume of the gas, and the volume of any portion absorbed by the use of a solvent is indicated on the gradu-

gas-turbine (gas'ter'bin), n. See *turbine. gasu-basu (gä'sö-bä'sö), n. [E. Indian.] An East Indian plant which possesses local anesthetic properties.

gas-valve (gas'valv), n. Any valve for shutting-off or regulating the flow of gas.
gas-volumeter (gas'vol"ū-mē-tèr), n. Same as volumeter. G. Lunge, Sulphuric Acid, I.

gas-worker (gas' wèr"kèr), n. One who is employed in any capacity in the manufacture

of gas. gat³ (gat), n. [A dial. variant of gate1; ef. E. Fries. and D. gat, a hole.] 1. An opening or passage in a sand-bank; a way from the cliffs to the sea. [Prov. Eng.] Eng. Dial. Dict.—2. Naut., a channel among shoals. gata (gā'tā), n. [Sp. prop. fem. of gato, cat:

see cat.] A large spotted shark, Ginglymostoma cirratum of the West Indies.

gate¹, n.—Bear-trap gate, a mechanical device for controlling the flow of water, its general outline being similar to the bear-trap of the pioneer hunters and trappers.

—By-pass gate, a gate or valve placed in an anxiliary by-pass pipe extending around some feature in the main pipe-line, as around a meter or valve.—Flashing-board gate, a device by which flashing-boards are held or controlled.

gate¹, r. t. 3. To place (a warp) in a loom ready for weaving.—4. To put (a machine, as a loom) in order to do its work properly.

gateado (gä-tā-ā'dō), n. [S. Amer. Sp., appar. Sp. gateado, resembling a cat, cat-like, < gato, cat.] A tree of the sumac family, Astronium graveolens, native to Colombia and Venezuela. It abounds in a glutinous sap which has a nauseating terebinthine odor. Gateado yields a hard, durable, dark-colored cabinet wood and a bark rich in tamin. Also called tibigaro.

gâteau (gä-tō'), n. [F., a cake: see wastel.]

A cake. Gateau St. Honoré or de Princesse Louise, a form of puit-paste or sponge-cake filled with Bavarian

gate-box (gat'boks), n. In steam- and waterfittings, a tubular easting, usually larger at the lower end, designed to fit over a buried waterpipe for convenience in reaching a gate or valve in the pipe by means of a long key; a valve-

gate-catch (gāt'kach), n. A four-pointed metal

used for opening hunting-gates. gate-faucet (gāt'fâ"set), n. A faucet having

a gate or valve for stopping the flow of the liquid.

liquid.

gautherase (gâl'the-rās), n. [gauther(in) + -ase.] A glucosidolytic ferment found in wintergreen. It causes the formation of megæra, a species which occurs throughout Europe and western Asia. Also called the wall-brown.

gautherase (gâl'the-rās), n. [gauther(in) + -ase.] A glucosidolytic ferment found in wintergreen. It causes the formation of oil of wintergreen from gautherin.

gautherase (gâl'the-rās), n. [gauther(in) + -it - -ene.] A trade-name for a galariese. gate-keeper, n. 2. An English collectors' name for an Old World agapetid butterfly, Satyrus wall-brown.

by which skeins of yarn are easily removed from the swift or fly of a reeling-machine.

gate-night (gat'nit), n. The night before Hallowe'en, when gates, and other things, are earried off in sport by children. Dialect Notes, II. vi. [Local, U. S.]

gate-net (gāt'net), n. A poacher's net set in a gateway, for catching hares or rabbits. gate-nut (gāt'nut), n. The nut on the gate or

slider of a gate-valve.

gate-penny (gāt'pen'i), n. A tribute paid by customary tenants for leave to pass through one or more of their lord's gates.

cross over the railroad are operated. Jour. Brit. Inst. Elect. Engin., 1902-03, p. 620.—2. A wheel either directly attached to, or geared to, the spindle of a large gate-valve, or to a hydraulic gate, by which the valve or the gate may be opened and closed.

gatha (gā'tā), n. [Avestan $g\bar{a}tha = Skt.$ gatha, lymn, verse, meter.] One of five metrical sections of the Avesta.

gather, v.i. 4. In mech., to fit into; fit together: used in speaking of the teeth of gears.—5. Naut., to overtake another vessel: a vessel is said to gather on another when it is overtaking

pounding reservoir.

gathered (gath 'erd), p. a. Suppurating; marked by the formation of pus.

gatherer, n. 7. One of the median, permanent

gatherer, n. incisors of a horse used to gather or nip off actions of a horse used to gather or mp off grass in feeding. The four median milk-incisors, two above and two below, are shed by a colt at the age of two or two and one half years and replaced by the permanent incisors. Also called nipper.

gathering, n. 6. In agri., plowing back and forth around the erown of an existing ridge of land, thus turning all the furrow-slices in word and increasing the height of the ridge.

ward and increasing the height of the ridge. [Great Britain.]

gathering-cry (gatu'er-ing-kri), n. A slogan; a summons to war.

gathering-hair (garll'er-ing-har), n. One of the soft, flattened, hooked hairs on the tongue of a bee or wasp. A. S. Packard, Text-book of Entom., p. 45.

gathering-lime (gath'er-ing-lim), n. In tan-ning, line-liquor which is used repeatedly, new lime being added for each lot of skins. Modern Amer. Tanning, p. 42.

gathering-machine (gath'er-ing-ma-shēn"), n. In bookbinding, a device for bringing together the signatures which make up a book. It is divided into compartments from which the signatures are taken by means of automatic fingers.

Among late inventions [in bookbinding] are a easting-in machine, for putting the body of a book into its cover, and a gathering machine.

Census Bulletin 216 (June 28, 1892), p. 65.

gathering-table (gath'er-ing-ta"bl), n.

Drysdale sent out his scout to order his punishment as he might have ordered a waistcoat, . . . and then dismissed punishment and gating from his mind.

T. Hughes, Tom Brown at Oxford, I. 197.

gato (gä'tō), n. [Sp., a cat: see eat.] A small shark, Mustelus tunulatus, of the family Galcidæ: found on the west coast of Mexico. -Gato bonact, Mycteroperca tigris, a serranoid fish belonging to the West Indian fauna.

belonging to the West Indan fauna.

gatter (gat'ér), n. [Origin obscure.] Beer, ale, or other drink. [Slang, Eng.]

Gaudarian (gow-dā'ri-an), a. and n. [Skt. Gauda, a district of central Bengal, +-arian.] In geol., a division of the Triassic rocks in southern Asia. It constitutes the upper member of gayatrī (gä"ya-trē'), n. [Skt. gāyatri', a meter the Brahmanian or lowest stage of the Triassic. (esp. that one specified).] A certain verse of the Brahmanian or lowest stage of the Triassic.

protuberance on the handle of a riding-crop, Gaudete (gâ-đe'te), n. The third Sunday in Advent: so named from the first word of the introit of the mass of that day, Gaudete, "Rejoice ve."

+ -ene.] A trade-name for a colorless crystalline hydrocarbon contained in oil of It melts at 65.5° C., and may be wintergreen. identical with triacontane, C30H62.

gaultherin (gâl'the-rin), n. [faultheria + -iu².] A crystalline glucoside, C₁₄H₁₈O₈.H₂O, contained in the bark of Betula lenta. It is levorotatory and decomposes at about 120° C. gauntree, n. 3. A form of traveling crane in which two horizontal girders carry the hoisting-erab which is free to travel along them. The girders are supported at their ends by a braced vertical frame which is borne on wheels at its feet, the wheels running upon a proper track. The traverse of the gauntree as a whole along the rails, and the traverse of the crab at right angles thereto, enable it to command any point in a long rectangular area. See gauntree

Gaurian (gou'ri-an), a. [Hind. Gaur, Beng. Gaud, E. Gaur or Gour, a former city and district of Bengal, < Skt. Gouda, a district of central Bengal, said to mean 'Sugar-land,' < gaura, of sugar.] Of or pertaining to Ganr, a former city and district of Bengal; hence, of Bengal and its language. Used only in an extended sense to designate the Bengal, Oriya (Uriya), Hindi, Panjabi, Sindhi, Marathi, and Gujarati languages of India, derived from or cognate with the ancient Sanskrit, to which they bear a relation analogous to that which the Romance languages bear to Latin.

The above examples from English and Assamese show the above examples from Engines and Assances show that reversions may take place from inflection to againtmation, which in fact is a general tendency amongst the Gaurian (Neo-Sanskritic) tongues of India, and also to a less extent in Italian and other Neo-Latin tongues.

Keane, Ethnology, p. 210.

in gausses.

gaussivity (gou-siv'i-ti), n. The intensity of magnetizing force expressed in gilberts per square centimeter or in gausses.

So μ is the inductivity, and II [= intensity of magnetizing force] the gaussivity, C being the line integral of II.

Encyc. Brit., XXXIII. 214.

Gauss's equation, integral. See *equation, *integral.

gauteite (gâ'tē-īt), n. [Gauté, Bohemia, + -ite².] In petrog., a fine-grained to aphanitic rock composed of orthoclase and lime-soda feldspars in about equal portions and subordinate amounts of ferromagnesian constituents. It is intermediate in composition between trachyte and andesite: similar to andesitetrachyte, trachydolerite, etc. Hibsch, 1897.

gauz, n. aud a. A simplified spelling of gauze, gauze, gauze. I. n. 3. In surg., cheese-cloth, impregnated with antiseptic material (such as boric acid, corrosive sublimate, or iodoform), or simply sterilized, employed in dressing wounds wounds.

Cheese cloth is almost universally used at the present for a wound dressing and is known to the profession as gauze.

Buck, Med. Handbook, I. 568.

Antiseptic gauze. Same as *gauze, 3.—Millers' gauze, bolting-cloth.

Antiseptic bases, gauze, botting-cloth.

II. a.—Ganze silk. See *silk.
gauze-weaving (gâz'wē*ving), n. A form of weaving in which the warp-threads alone intersect and are bound in position by the weft-

bookbinding, a circular revolving gathering-board (which see).

gating (gā'ting), n. The college punishment of confining a student within the college gates. See gate1, v. 2. [Eng.]

sometimes canned teno-wearing.

gauze-wing (gâz'wing), n. Any insect of the old order Neuroptera (which see).

gave2 (gã'vā), n. See *gabi.

gave1 (gav'e1), v. t.; pret. and pp. gaveled, gavelled, ppr. gaveling, gavelling. To partition and distribute (or radistribute) couplly (the gavelled, ppr. gaveling, gaveling. To partition and distribute (or redistribute) equally (the lands of one deceased) according to the practice of gavelkind. See gavel1, n., and gavel-

> gavialoid (ga-vi-al'oid), a. [gavial + - oid.] Resembling or having the character of a gavial: as, a greatly elongated gaviatoid rostrum. gawpy (gâ'pi), n. [gawp + -y.] One who idly stares in silly, open-mouthed wonder; a gaping, staring simpleton.

"They are a terrible set of fellows," he [Carlyle] said, "those open-mouthed wondering gaurgies, who lodge you for the sake of looking at you: that is horrible."

*Carlyle, in Froude, Life of Carlyle, 1. 261.

the Rig-Veda (III. lxii. 10) which every Brahman is supposed to repeat mentally in his morning and evening devotions: it is regarded

as very sacred. The verse is, in short, 'Let us consider the light of the sun.'

gaye (ga'yā), n. [Also gaye, gadye, gayi; native name.] A name applied in Guam to certain seabeans, especially to Stizolobium giganteum, a woody climber with slender glabrous branches, trifoliate leaves, and pale-greenish flowers. The hard brown orbicular seeds are sometimes called oxeye beans or, in Spanish, ojo-de-venado (buckeye).

Gay-Lussac tower. See *tower1.

gayong (gä-yong' or gä'yong), n. [Bisaya quyōng, Tagalog qayōng, an oar: cf. Ilocan gayāng, a lance.] In the Philippine Islands, an oar used in the native boats.

gay-wings (gā'wingz). n. The fringed milk-wort. Polygala paucifolia: so called from the pair of large, usually pink-purple petals of the aërial flowers.

gaze, n.—At gaze. (c) By sight: said of a dog in hunting. gazebo, n. 2. Any structure or part of a building which affords or commands an extensive prospect or outlook, as a turret or lantern on the roof of a house, a balcony, a projecting window, or the like.

window, or the like.

gazel¹, n.—Grant's gazel, Gazella granti, a species common in East Africa, with longer and finer horns than any other member of the genus. It is replaced in Masailand by Thomson's gazelle.—Soemmering'is gazelle, G. soemmering'ii, of Somaliland. It is characterized by long ears and massive horns.—Speke's gazelle, G. spekei, a small, long-haired species, with the skin of the nose very fiably.—Waller's gazelle. See *gerenuk.

gazet, n. and v.t. A simplified spelling of onzette.

gazette.

gazetteer (gaz-e-ter'), v. t. [gazetteer, n.] To describe in gazetteers: as, to gazetteer a country, eity, or locality. Chambers's Encyc. gazzettino (gäd-ze-tē'nō), n. [It., dim. of gazzetta, a small coin: see gazette.] A small Venetian coin struck under the Doge Leonardo Loredauo (1501-21).

G. B. An abbreviation of Great Britain. G. B. and I. An abbreviation of Great Britain and Iretand.

G. C. An abbreviation (a) of Grand Chancellor; of Grand Chapter; (e) of Grand Conduetor.

g. c. f. An abbreviation of greatest common

G. C. H. An abbreviation (a) of Grand Cross of the Hanoverian Guelphie Order or Grand Cross of Hanover; (b) of Knight of the Grand Cross of Hanover.

G. C. I. E. An abbreviation (a) of Grand Cross of the Indian Empire; (b) of Knight Grand Commander of the Indian Empire.
G. C. L. H. An abbreviation of Grand Cross of the Legion of Honor.

g. c, m. An abbreviation of greatest common measure.

g. cm². An abbreviation of gram-tenum. square: the c. g. s. unit of moment of inertia. G. C. M. G. An abbreviation (a) of Grand H. C. M. G. An abbreviation (a) of Grand Cross of St. Michael and St. George; (b) of Knight of the Grand Cross of St. Michael and

St. George.

G. C. S. I. An abbreviation (a) of Grand Commander of the Star of India; (b) of Knight Grand Commander of the Star of India.

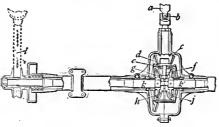
G. C. V. O. An abbreviation of Grand Cross of Royal Victorian Order.
G. C. Z. or C. Z. In astron., abbreviations of Gould's Cordova Zones, a series of star-catalogues: sometimes referred to as Z. C. (Zonæ Cordobenses).

Gd. In ehem., a symbol for gadolinium G. D. An abbreviation (a) of Grand Duckess; (b) Grand Duke; (e) of gravimetric density. G. E. An abbreviation of Grand Encampment.

geanticline (jē-an'ti-klīn), n. [Gr. $\gamma \bar{\eta}$, earth, + E. anticline.] In geol., an anticlinal or arching fold which involves a great thickness of strata and affects a large area; a broad dome formed by the warping of the earth's crust. Chamberlin and Salisbury, Geol., I.

gear, n. 5. The diameter of an imaginary wheel whose circumference is equal to the distance traversed by a safety-bicycle during a single revolution of the pedals: as, a 72-inch gear. [Colloq.]—Anchor-tripping gear. Same as anchor-tripper.—Change-speed gear. See **schange-speed.—Compensating-gear*, a combination of spur-or bevel-gears or both used on motor-vehicles, by which the inequality in length of the paths traversed by the driving-wheels on curves is compensated for, without the slipping of the tires on the

ground. One goar, either spur or bevel, is on that part of the alle to which one of the wheels is attached, and another on the other half, the axle being discontinuous: if the two wheels were fastened to a continuous axle slipping would occur. Between these two gears, and meshing with both, is a third gear. The driving force is applied, through the teeth of this third gear, equally on both sides of its axis in wheels were rasterled to a continuous axie stipping wond occur. Between these two gears, and meshing with both, is a third gear. The driving force is applied, through the teeth of this third gear, equally on both sides of its axis in straight running, and both wheels move through equal paths. If one wheel seeks to go through a longer or shorter



Compensating gear.

Compensating-gear. a, shaft-drive from motor in front of vehicle; b, universal joint to give flexibility of alliement; c, driving bevel-gear on motorshaft extension; a, bevel-gear driven by c; e, hollow casing boited to a, turning with it and carrying stud/f; f, stud forming axis for compensating-pinion g; g, compensating-pinion carried around bodily by f as e revolves with a, and driving b and f without rolling on either when the driving-wheels run over equal distances in one revolution; b, f, compensating bevel-gears, turning solidly locked with g, except when rolling must occur because the axie-end on one side must move forward more or less than the circumference of either wheel in one revolution, by reason of the rolling of the wheels round a curve; k, k, axie of driving-wheels, not continuous, but forming two flathest meeting between k and f; k, one of the driving-wheels fast on the half-axie k; the other wheel is similarly fast on k.

path than the other, the inequality is taken up by a rolling of the third gear upon the toothed surfaces of the other two, and compensated for. If either wheel is of less diameter than the other by reason of wear or the defiation of the pneumatic tire, the compensating effect is continuous, while the propelling effect is equal on each wheel.—Full gear, such an arrangement of the valve-gear mechanism as will give the longest period for the admission of steam.—Half-speed gear, such an arrangement of the controlling mechanism or of the driving mechanism as will permit a machine to run at about half its full speed.—Herring-bone gear. See *piral *gear (b).—Joy's gear, an engine valve-gear for ent-off and reversing in which no eccentric (or only one) is used. The motion for operating the valve is derived from a link, one end of which is attached to the connecting-rod. This link moves a secondary or intermediate link carrying, at one end, a block to which is attached the valve-rod and which slides up and down a slot. This slot is hung on a pin and, by turning it about that pin, the motion of the valve-rod can be varied to give different ent-offs and to make the engine run in either direction. The principal use of this gear has been on marine engines, a few pumping-engines and fewer locomotives.—Sliding gear, a gear which is free to slide axially along a shaft and can hence be engaged or disengaged at will. Such gears, arranged in pairs, are frequently used for changing the speed of antomobiles.—Spiral gear. (a) A toothed wheel in which the axis of each tooth is not a straight line, either parallel to the axis of the wheel, as in spur-gearing, or inclined to and intersecting the axis, as in bevel-gear, but is a helical line, inclined to the axis and not intersecting it. The surfaces of the teeth are made up of helical elements considerable angle before passing the line joining the axes, and also after passing it. The two shafts may make any angle with each other up to a right angle. (b) A toothed wheel in which the axi path than the other, the inequality is taken up by a roll-

of speeds.

gear-block (ger'blok), n. A block or pulley used in rigging the running-gear of a vessel, gear-case (ger kās), n. A cover or casing placed around gears to keep out dirt and grit, and also to protect the workmen from being

caught by the gears and injured.

gearing, n.—Humpage gearing, a compound bevelgear drive for effecting a change of angular velocity or of speed of rotation.—Train of gearing, a transmission mechanism of toothed wheels in which each wheel is related to that which precedes it and follows it, as a follower and a driver respectively. If the gears are in the same plane, it is a simple train; if the driven wheels are not drivers, but are on the shaft of a second wheel which is the driver of the next shaft in the train, it is a compound train. Trains of gearing may be used to increase power and reduce speeds, as in cranes, crabs, winches, and motor-cars; or they may increase speed and reduce power, as in clocks and watches. Reversing motions or disengagement devices may be introduced into trains. A transmission from a factory engine to the individual tools is a train of mechanism, but, as gears are seldom used, it is not properly a train of gearing.

gear-plate (ger'plat), n. In engines, a wristplate; a motion-plate. caught by the gears and injured.

plate; a motion-plate.

gear-train (ger'tran), n. A set of three or more gears used for transmitting motion. See train of *gearing.

gear-work (ger'werk), n. A gear-train; a set of

gears for transmitting power.
gedda (ged'ä), n. A term applied to certain
gums. See *geddic.

geddic (ged'ik), a. [gedda + -ic.] Derived from the gedda gums.—Geddle acid, an acid derived from Arabian gedda gums, which consist of a mixture of the calcium, magnesium, and potassium salts of this acid.

this acid.

Gedinnian (je-din'i-an), a. [F. Gedinne, a district in Belgium.] In geol., a subdivision of the Devonian system in Belgium, northern France, and the Rhineland. It forms the base of the Devonian system and lies unconformably upon Cambrian rocks. In the Eifel it includes the Taums and Hundsrück beds with a couglomerate at the bottom.

geebung (je'bung), n. [Also geebong, gibong, jibbong; native Australian name.] The fruit of several Australian profesceous trees of the

of several Australian proteaceous trees of the genus Linkia, particularly L. faleata; also, the trees themselves. It is tasteless, and seldom eaten by any but children. gee-throw (je'thro,), n. In lumbering, a heavy

wooden lever with a curved iron point, used to

break out logging-sleds.

gegenschein (gā gen-shīn), n. [G., \langle gegen, opposite, + schein, shining.] The large, faintly luminous patch on the ecliptic opposite to the summous patch on the ecliptic opposite to the sun, supposed to be a part of the zodiacal light. Its explanation is still uncertain, though it is generally believed to be due to reflection from minute meteoric particles at a distance greater than the length of the earth's shadow. See *counter-glow.

gegg (geg), n. The Scotch pronunciation of gag, n., 6.

gehydrophilous (jē-hī-drof'i-lus), a. Resembling or having the characters of the Gehydrophila.

geic(ge'ik), a. [Gr. $\gamma \bar{\eta}$, the earth, + -ie.] Pertaining to the earth. Geic acid. Same as humic

geikielite (gē'kē-līt), n. [Named for Sir Archibald Geikie, a Scottish geologist.] Magnesium titanate (MgTiO₃), found in the form of nearly black rolled pebbles in the gem-mines of Rak-

wana, Ceylon.

geira (gā'rä), n. [Pg.] A Portuguese and
Brazilian land-measure, equal to 1.44 acres.

geisha (gā'shä), n. [Jap. gei-sha, \langle gei, polite
accomplishments (\langle Chin., i, (orig. ki, an art, a
profession) + sha (\langle Chin. ehe), one who.] One of a class of accomplished and specially trained young Japanese women (commonly called singing- or dancing-girls by foreigners) who are employed at banquets, and on social, convivial, and other occasions, to entertain the

company with Japanese dancing, music, etc. geison (gi'son), n.; pl. geisa (-sā). [Gr. γεῖσον, often γεῖσσον.] The Greek name for the cornice of a building: used in treatises on Greek architecture.

A special peculiarity of the horizontal geisa lies in the fact that their mutules are of different size, varying between six and four guttae in front.

C. Smith, in Jour. Hellenie Studies, XVI. 338.

geisoinerm (je-1'sō-thèrm), n. [Gr. $\gamma\bar{\eta}$, the earth, + E. isotherm.] An imaginary surface supposed to pass through all points within the earth's crust which have the same temperature. geisothermal (jē-ī-sō-thèr'mal), a. and n. [As geisotherm + -al1.] I. a. Same as isogeothermal. geisotherm (jē -ī' sō -thèrm), n. [Gr. $\gamma\bar{\eta}$, the

II. n. A geisothermal surface; a geisotherm.

Geissler's mercury air-pump, tubes, vacuum. See *air-pump, tube, *vacuum.
geissospermine (gī-sō-spēr'min), n. [Geisso-spērmum + -ine²-] A crystalline alkaloid, C₁₉H₂₄O₂N₂ + H₂O or C₂₃H₂₈O₄N₂, contained in pereira bark. It is levorotatory, and melts or decomposes at 189° C.
geite (jē'it), n. [Gr. γ̄̄̄, earth, + -ite²-] A name proposed by John Milne for the matter which constitutes the nucleus of the earth.

which constitutes the nucleus of the earth.

Nature, April 9, 1903, p. 539. gel (jel), n. [Appar. detached from hydrogel and similar recent formatious, where the sec-

ond element is made to represent the crude stem of L. gelare, freeze, congeal: see eon-geal.] A gelatinons or albuminous protoplasmic substance, especially the protoplasm of nerve-cells.

If, however, the colloidal particles become fused, and thus lose their condition of fine suspension, the colloid becomes relatively solid, or passes into the "gel" phase.

Biol. Bulletin, June, 1994, p. 4.

gelasin (jel'a-sin), n. [$gel(atin) + -ase + -in^2$.] A variety of agar-agar. Buck, Med. Handbeek, I. 138.

gelatification (je-lat"i-fi-kā'shou), n. tify (-fic-) (\(\frac{gelat(in)}{2} + -fy) + -ation.\) Conversion into gelatin; the process of transforming a substance into a jelly-like state.

ing a substance into a jelly-like state.

gelatin, n.—Chromatized gelatin. See chromatize.—Fluid gelatin, aluminium oleate, a soft white putty-like substance of great tenacity, insoluble in water. It is used as a thickener for lubricating-oils.—Formaldehyde gelatin, a pale-brown coarse odorless powder obtained by treating a solution of gelatin with a small but definite amount of formalin and evaporating to dryness. It is said to liberate formaldehyde when applied to denuded surfaces. Also called formacoll.—Gelatin emulsion. See *emulsion.—Gelatin of Plorkowsky, a nutrient medium suggested for the cultivation of the typhoid bacillus. It contains 5 grams of peptone and 33 grams of gelatin to the liter of normal urine of 1020 specific gravity.—Gelatin paper, relief. See *paper, *relief.—Glycerin gelatin, a culture medium for bacteria: nutrient gelatin with a certain amount of glycerin added.—Nutrient gelatin, a bacteriological culture medium composed of nutrient bouillon and an amount of gelatin sificient to solidify the medium.—Wort gelatin, nutrient gelatin prepared with beer-wort. gelatinase (je-lat'i-nās), n. [gelatin + -ase.]

gelatinase (je-lat'i-nās), n. [gelatin + -ase.]
A ferment which liquefies gelatin but which
does not digest coagulated egg-albumin or fibrin in either acid, neutral, or alkaline solutions. It occurs widely distributed among bacteria, yeasts, molds, and in various phanerogams. According to recent research trypsin is not a unity, and a gelatinase has been demonstrated as one of its possible components.

gelatiniferous (jel"s-tin-if'e-rus), a. [gelatin + L. ferre, bear, + -ous.] Producing or yielding gelatin.

gelatinize, v. t. 2. To coat with gelatin: as, gelatinized paper.

gelatinobromide, gelatinochlorid emulsion. See *emulsion.

gelatinography (jel*a-ti-nog'ra-fi), n. [gelatin+ Gr. ραφία, ζηρεφέν, write.] In photog., a rapid process for making newspaper blocks. gelatinotype (jel-a-tin' $\bar{0}$ -tip), n. [gelatin +

Gr. τίπος, type.] In photog., a photomechanical process in which a gelatin film in semi-relief, properly backed, is used in printing instead of wood or metal.

gelation (jē-lā'shēn), n. [L. gelatio(n-), freezing, $\langle geluire, freeze.$] The assumption of the solid state by cooling below common atmospheric temperature; freezing.

I do not doubt but that wonderful phenomena of con-I do not dount but that wollderful phenomena of con-gelation, regelation, degelation, and gelation pure with-out preposition, take place whenever a schoolboy makes a anowball; and that miraculously rapid changes in the structure and temperature of the particles accompany the experiment of producing a star with it on an old gentleman's back.

Ruskin, Deucalion, L 44.

gelatose (jel'a-tos), n. [gelat(in) + -ose.] An albamose derived from gelatin. Also called glutose or glutinose.

gelechiid (jē-lē'ki-id), n. and a. I. n. One of the Gelechiidæ.

II. a. Of or belonging to the lepidopterous family Gelechiidæ.

gelignite (jel'ig-nit), n. [ge(latin) + L. lig-num, wood, + -ite².] A trade-name for an explosive of the dynamite class, consisting of 65

parts of gelatin (96 per cent. nitroglycerin and 4 per cent. nitrocotton) and 35 parts of dope (75 per cent. sodium nitrate, 1 per cent dium carbonate, and 24 per cent. wood-pulp).

gelinotte (jel-i-not'), n. [F. gelinotte, dim. of geline, a hen, \(\circ\) L. gallina, a hen: see gallinaceous.] The hazel-hen, Tetrastes bonasia, a species of grouse common in the pine-forests and birch woods of the mountain districts of Europe and central and northern Asia.

gelogenic (jel-ō-jen'ik), a. [Irreg. < Gr. γέλως, laughter, + -γενής, -producing, + -ie.] Productive or provocative of laughter. G. S. Hall, Adolescence, IL. 95.

gelong (ge-long'), n. [Tibetan gelong.] In

Tibet, a monk. Thet, a monk.

gelsemic (jel-sem'ik), a. [gelsem(ium) + -ic.]

Derived from yellow jasmine.—Gelsemic acid,
a colorless crystalline compound, C₁₅il₁₈O₉, obtained
from the roots of Gelsemium semperirens. It forms
fluorescent solutions and is possibly identical with esculin.

gelseminine (jel-sem'i-nin), n. [gclsemine + -ine².] An amorphous, very poisonous alkaloid, $C_{24}H_{28}O_4N_2$ or $C_{22}H_{26}O_3N_2$. It is found

with gelsemine in Gelsemium sempervirens.
gem, n. 5. The name given by English typefounders to a body of type that is intermediate
between brilliant and diamond.—6. A cake

made with flour or corn meal, sometimes sweetened, and usually baked in a sheet of small, shallow pans.—Island gems, a large and clearly defined class of engraved gems, first noted in excavations in the islands of the Ægean sea. They have since been found in great numbers elsewhere in Greece and Crete. The island gens are extremely archaic, but vigorous in style. In the representation of animals they are often especially interesting.

gem, v. t. 4. To exploit in searching for gems;

search for gems in: as, the right to gem a river or a tract of land. N. E. D.

Gemarist (ge-mä'rist), n. [Gemara + -ist.]

One who is learned in the Gemara (which

gem-fruit (jem'fröt), n. The coolwort, Tiarella corditolia.

gemination. n. 4. In astron., the frequent apparent doubling of the canals of Mars. is still debated whether the phenomenon represents a real fact on the planet's surface or is merely optical or visual.—5. In anat., the union or fusion of two contiguous teeth caused by the uniting of two tooth-pulps .- Dissimiby the uniting of two tooth-purps.—Dissimilated gemination, a gemination, actual or assumed, of a consonant to a mute of the same class, as L. numerus, \cdot\numerus, \cdo

radiant in the constellation Gemini .- Geminid variable, a variable star which in its behavior resembles ζ Geninorum. Its period ranges from 7 hours to 13 days, its change of luster is continuous, and the maxima recur

geminipolar (jem"i-ni-pō'lar), a. [L. geminus, twin, + polus, pole: see polar.] Having two like poles, side by side: said of certain nervecells.

3. In biol., one of the hypothetical gemma, n. units of living matter: similar to biogen, idio-blast, *pangen, *plasome, etc.—4. A knob-

like protuberance or nodule. gemmate (jem'āt), r. i.; pret. and pp. gemmated. ppr. gemmating. [L. gemmare, put forth buds, $\langle gemma$, a bud: see gem, n.] To put forth buds or to propagate by buds, as a polyp. gemmated (jem'ā-ted), a. [gemmate + -ed².] Set with gems; bedeeked with precious stones.

Set with gems; bedeeked with precious stones.

gemmation, n., 1. (b) The arrangement or
phyllotaxy of leaf-buds.—Calycinal gemmation.

See *calycinal.—Cænenchymal gemmation, in the
Authozoa, the reproduction of new corallites by budding
from the conenchymat tissue between the old corallites.—
Costal gemmation. Same as conenchymat ***epamation.—Extracalycinal gemmation. See **extracalycinal.—Septal gemmation, in the asexual reproduction of the corals, the development of a new corallite
from one of the septa which becomes enlarged and
produced so as to inclose a new calycinal disk.—Stolonal gemmation. Same as basal gemmation (which
see, under gemmation).—Tabular gemmation, in the
Authozoa, a mode of calycinal gemmation observed in
certain tabulate corals in which the tahule are produced
upward to form pockets from which the new corallites
are developed. are developed.

gemmative (jem'a-tiv), a. [gemmate + -ive.] Relating to reproduction by gemmation.

gemmer (jem'er), n. One who searches or digs for gems.

gemmipore (jem'i-pōr), n. [NL. Gemmipora.]
A madreporarian coral of the genus Gemmi-

The gemmipores resemble these in general form, and their fringe of short tentacles, but the disk is not riated.

Dana, Zooph., p. 47. striated.

gemmology (jem-ol'ō-ji), n. [L. gemma, gem, + Gr. -λογία, < λέγειν, speak.] The science of + Gr. -λογία, ζλέγειν, speak.] gems.

gemmular (jem'ū-lär), a. [gemmule + -ar3.]
Of or relating to gemmules.

That while still in this gemmular condition, these cell seeds have for one another a mutual affinity, which leads to their being collected from all parts of the system by the reproductive glands of the organism. Simithsonian Rep., 1890, p. 433.

gemmule, n. 3. In biol., one of the hypothetical living units conceived by Darwin as the bearers of the hereditary attributes of animals and plants.

gemmuled (jem'ūld), a. [gemmule + -ed².] Bearing or ornamented by small protuberances or nodules.

The remainder lof the whorls in Gasteropoda]...belng uniformly adorned by two keeled spiral rows of close-set and conspicuously noduled gemma,...below the two gemmuled carines is a strong spiral plain keel.

Proc. Zool. Soc. London, 1901, II. 372.

gem-pan (jem'pan), n. A connected series of

small shallow pans, usually circular, in which the cakes called gems are baked.

Gempylidæ (jem-pil'i-dē), n. pl. [NL., < Gempylus +-idæ.] A family of mackerel-like

fishes, elongate and having very strong teeth, containing species known as the escolars and snake-mackerels.

gempyloid (jem'pi-loid), a. Pertaining to or resembling the Gempylidue.

Gempylus (jem'pi-lus), n. [NL. (Cuvier), formation not clear: cf. Gemylus (1865), Gempylodes (1864), genera of Colcoptera.] A genus of snake-mackerels, elongate mackerel-like fishes with strong teeth found in the open The commonest species is G. serpens. gem-salt (jėm'salt), n. Rock-salt, the mineral halite.

Gen. An abbreviation (c) of Geneva or Genevan.

gen. An abbreviation (e) of gender; (d) of genera; (e) of generally; (f) of generie; (g) of genus.

gender² (gen'der), n. [Jav. and Malayan gender.] A Javanese musical instrument of the xylophone class. It consists of a graduated series of eleven strips of metal strung together by two cords tied about them at their nodal points, and each provided beneath with a piece of bamboo for a resonator.

geneal. An abbreviation of genealogy.
Genealogical individual. See *individual.
geneclexis (jen-e-klek'sis), n. [NL., ζ
Gr. γένος, kind (nature), + ἐκλεξις, selection.]
Unconscions, automatic natural selection, in distinction from teleclexis, an intentional or artificial selection brought about by man.

L. F. Ward, Pure Sociol., p. 361.
genepistasis (jen-e-pis'tā-sis), n. [NL., ζ
Gr. γεν., produce, + ἐπίστασις, cossation: see
epistasis.] Cessation of development in the
history of a species or race. [Rare.]

genepistasy (jen-e-pis'tā-si), n. Same as

genepistatic (jen-ep-i-stat'ik), a. Of or per-

taining to genepistasis.
generalization, n. 4. In pathol., the involvement of the entire system in a morbid process which was at first local.

generalizational (gen"e-ral-ī-zā'shon-al), a. Of the nature of a generalization; used in generalization.—Generalizational tion. See *demonstration. demonstra-

generalize, v. i. 3. In painting, to render large and typical characteristics rather than details. generate, v. t. 5. To produce; evolve; as electricity, force, friction, gas, heat, light, velocity, etc.

The two distinct and independent electromotive forces generated by such a machine are used to supply two dis-tinct and independent currents to two distinct and inde-pendent circuits.

Franklin and Williamson, Alternating Currents, viii.

The steam generated from the sea-water, if used for

drinking, . . . is condensed and filtered.

R. H. Thurston, Manual of the Steam Engine, 11. 141. 6. In music, of a tone fundamental to a chord,

to suggest or fix (the remaining tones of the harmony). generation, n. 10. The individuals of a given mineral species which have been formed at

the same time and under similar conditions, as in the solidification of an igneous rock, or the deposits in a mineral vein. Amer. Geol., June, 1904, p. 338.

generational (jen-e-rā'shon-al), a. [generation + -al¹.] Of or pertaining to generation.

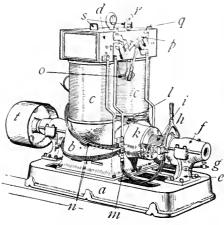
It is stated that 'these generating elements define the group completely,' whereas the generating elements with a complete set of generational relations are necessary for the definition of the group; also as alternative for 'equations' should be given 'generational relations.'

Science, June 5, 1903, p. 905.

Generative rupture. See *rupture.

generator, n.—Asynchronous generator, in elect., an alternating-current dynamo in which speed and frequency of alternation are not in fixed relation to each an atternating-current dynamo in which speed and frequency of alternation are not in fixed relation to each other.—Bipolar generator, in elect., a dynamo having two pole-pieces between which the armature revolves. The essential features of a bipolar generator for direct currents are shown in the figure. See cut on next page. currents are shown in the figure. See ent on next page.

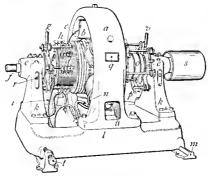
—Closed-coll generator, a generator the successive coils in the armature of which are connected in series. The dynamos of Gramme and Siemens are examples of closed-coil generators.—Differential generator, an electric machine with a differentially compounded field winding. See electric *mootor.—Double-current generator, a dynamo-electric machine built to supply direct as well as alternating (usually polyphase) currents. It consists of a magnetic field in which revolves an armature which is connected to collector-rings for the alternating and to a commutator for the direct current. See ture which is connected to concern lings and to a commutator for the direct current. See cut on next page. — Generator gas. See $\pm gas$.—Induction generator, in dect, any alternating-current generator having an alternating field and two sets of windings (primary and secondary) which rotate with



Bipolar Generator.

a, base; h, pole-piece; c, protective roping; d, field-yoke; pillow-block; f, bearing-cap; g, pet-cock; h, brush-holder stt and handle; i, commutator; k, armature; l, wire screen; m, arm ture-lead; n, screen series field-lead; a, shunt field-lead; p, load-switch q, terminal; n, pilot-lamp; s, pole-piece bolts; h, driving-pulley.

respect to one another.—Monocyclic generator, an alternating-current machine producing polyphase electro-



Double-current Generator.

a, magnet-frame; b, pole-piece; c, armature; d, commutator; c, bearing; f, shaft; g, direct-current brush-adjusting handle; h, direct-current brush-adjusting handle; h, base; m, belt-tightener track; n, field-leads; e, collector-ring; p, alternating-current brush; g, name-plate; r, oil-gage; s, pulley; h, belt-tightener bolt; u, keeper-bolt; v, alternating-current brush-adjusting handle.

motive forces with a single-phase flow of energy. The currents from such generators are particularly adapted to the starting and operation of induction motors.—Motorgenerator, in elect., a combination of two machines consisting of a motor and generator mounted on a common shaft. The usual arrangement consists of an alternating-current motor, thus driving a direct-current generator.—Open-coil generator, a generator the ends of the armature windings of which are not joined, each to the following, but are connected separately to the commutator-bars or collector-rings.—Polyphase generator, in elect, a machine which produces two or more alternating currents that differ in phase.—Pulsating-current generator, in elect, a penerator producing direct currents that vary periodically in intensity. The open-coil arc-lighting dynamos of Thomson and of Brush are examples of pulsa-ting-current generators.—Single-phase generator, in elect, an alternating-current machine which produces only one current, or produces currents all of which are in the same phase.—Three-phase generator, in elect, an alternating-current dynamo from which, by suitable connections with the armsture, three currents, in separate circuits and differing from one another in phase by 60°, are produced. produced.

generator-unit (jen'e-rā-tor-ū"nit), n. A part of a plant for generating electric power (as a single engine and the dynamos supplied by it) which is designed to be operated as a unit, and which can be thus operated without reference to the remainder of the plant or can be stopped without influencing the operation of the remainder.

Generic image. See *image. — Generic whole, the whole of a logical genus.

Genesee shale. See *shale2. Genesial cycle. See *cycle1.

genesic (je-nes'ik), a. [Irreg. ⟨ genes(is) + -ic.]
The normal adjective from genesis is genetic.] Pertaining to genesis or reproduction; genetic.

Attention should be directed [to] . . . the evidences of awakening genesic tendency.

Med. Record, July 11, 1903, p. 66.

genesis, n.—Social genesis, a division of social science treating of the natural origin and development of society.

L. F. Ward, Outlines of Sociol., p. 190.

genethliacally (jen-eth-li'a-kal-i), adv. Astrologically; by horoscopy.

He was not only a bold adventurous practitioner in physic, but also . . . an adept, who read the stars, and expounded the fortunes of mankind, genethiacally, as he called it, or otherwise.

Scott, Kenllworth, xi.

genethlialogic (jē-neth/li-a-loj'ik), a. Of or pertaining to genethlialogy, or the casting of nativities

nativities.
genethlialogical (jē-neth/li-a-loj'i-kal), a.
Same as *genethlialogic.
Genetic aggregation. See *aggregation.—Genetic
method. (b) That method of philosophical inquiry which
endeavors to avoid assumptions antecedent to the examination of facts, and so far as it is unable to free itself from
first principles regards them as subject to modification in
the light of experience, proceeding, as far as possible, by
the method of taking up verifiable hypotheses suggested
hy observation and of thoroughly testing them experimentally.—Genetic pit, progress, psychology, selection. See *pit1, *progress, *psychology, *selection.
genetic. An element in recent adjectives
which correspond to nouns in -cenesis (see

which correspond to nouns in -genesis (see

genesis) and -geny (see -geny), as biogenetic, phylogenetic, etc. See genetic.
genetics (je-net'iks), n. That portion of evolutionary science which deals with natural

development uncomplicated by human purpose or artificial process. L. F. Ward, Outlines of Sociol., p. 180. genetopathy (jen-e-top'a-thi), n. [Irreg. $\langle Gr. \gamma \epsilon \nu \epsilon \sigma \iota \zeta \rangle$ (yever-), reproduction, $+ \pi \alpha \theta \sigma \varsigma$, suffering.] Disease connected with the reproductive functions productive functions.

The source of this as of all the other genetopathies may e cougenital or even hereditary, but very often its origin is in the nervous system.

G. S. Hall, Adolescence, I. 498.

genetophobia (jen/e-tō-fō'bi-ä), n. [Irreg. Gr. γένεσις (γενετι-), origin, + -φοβία, < φοβεῖν,
 fear.] A morbid fear of, or aversion to, the study of origins.

This genetophobia pervades . . . much of the best aucient and contemporary philosophical and theological thought.

G. S. Hall, Adolescence, II. 41.

Genial apophysis, the group of four genial tubercles. genicular (je-nik'ū-lär), a. [geniculum + -ar³.] In bot, growing on or at a node; occurring in the tissue of the node: as, genicular cells.

geniculum (jē-nik'ū-lum), n.; pl. genicula (-lā).

[NL.. < L. geniculum, a little knee, a joint of

a stem, dim. of genu, knee.] 1. In bot., a node or joint of a stem.—2. In anat., a sharp bend in any small organ, such as that in the facial nerve where it passes through the temporal

geniolatry (jē-ni-ol'a-tri), n. [L. genius, a genius, + Gr. λατρεία, worship.] The worship of genii

of genii.
genion (jē-nī'on), n.; pl. genia (-ā). [NL., <
Gr. γένειον, the chin, < γέννς, chin: see genial².]
In craniom., the point of the spina mentalis interna. Von Török.
genioplasty, n. 2. Operative restoration of a portion of the cheek which is lacking.
genip (jen'ip), n. Same as genip-tree.
genistein (jē-nis'tē-in), n. [Genista + -in².]
A crystalline coloring-matter, C₁4H₁₀O₅, obtained from the flowers of Genista tinetoria (dver's - broom): trihydroxyphenylketocou-

(dyer's - broom): trihydroxyphenylketocou-

 $(\mathring{H}\mathring{O})_{2}C_{6}H_{2} < \mathring{O} > \mathring{C}H \cdot C_{6}H_{4} \cdot \mathring{O}H.$

genit. An abbreviation of genitive.
Genital band, in Gephyrea, one of the ridges or bands of cells attached to the interior of the body-wall which give rise to the ova and spermatozoa.

Stretching across the ventral aspect of the cœlom, at the point where the ventral retractors are attached to the body-wall, is a band of cells with relatively large nuclei. These cells constitute the genital band and are derived from the peritoneal epithelium.

Proc. Zool. Soc. London, 1903, 1. 37.

genitivally (jen-i-ti'val-i), adv. As regards the genitive case; with reference to the geni-

genitive, a. 2. Connected with or relating to generation.

These powers are at their best at the time of strongest genitive impulses and greatest conceptive power.

G. S. Hall, Adolesceuce, I. 490.

genitocœle (jen'i-tō-sēl), n. [genit(al) + Gr. κοίλος, hollow.] In zoöl., a brood-cavity, or storage-chamber for eggs.

genitospinal (jen"i-tō-spi'nal), n. Noting a nerve-center in the spinal cord which controls the organs of generation and also in part the bladder and lower bowel.

genizah (ge-nē'zā), n.; pl. genizoth (ge-nē'zōt). [Aram., \(\) ganaz, set aside, hide, save.] Among Jews, a sacred object, such as a defective scroll of the law, which has been rendered unfit for liturgical use. Such objects are

preserved because, although damaged, they still possess a certain sacredness from the fact that the name of Jehovah is contained in them. Some genizoth in the Holy Land and Egypt, especially those of Cairo, have furnished valuable matter to archeological and theological students.

genizara (hā-nē'thā-rā), n. [Cuban Sp. use of Sp. genizara, fem. of genizara, a janizary.]

A small labroid fish, Clepticus parræ. [Cuba.]

Gen'l. An abbreviation of General (as a title).

genabolatypa (ign.ā-hol'ā-tin) n. [[preg. (genoholotype (jen-ō-hol'ō-tip), n. [Irreg. \langle Gr. $\gamma \ell \nu \sigma \varsigma$, kind, genus, $+ \delta \ell \sigma \varsigma$, whole, $+ \tau \ell \pi \sigma \varsigma$, type.] The one species on which a genus is type.] The one species on which a genus is founded, or a series of species on which a genus is founded one of which is stated by the anthor to be the 'type.' Schuchert and Buckman, in Science, June 9, 1905, p. 900.

genolectotype (jen-ō-lek'tō-tip), n. [Irreg. \langle Gr. $\gamma \ell \nu o c$, kind, genus, $+ \lambda \epsilon \kappa \tau o c$, chosen, $+ \tau \nu \pi o c$, type.] One of a series of species selected to be the type of a genus subsequent to the description of that genus. Schuehert and Buckman, in Science, June 9, 1905, p. 901.

Genosiris (jen-o-si'ris). n. [NL. (Labillar-dière, 1804), incorrectly formed (Gr. γένος, kind, genus, + Iris, a genus of plants.] A genus of monocotyledonous plants. See Patersonia.

genosyntype (jen- $\bar{\phi}$ -sin'tīp), n. [Irreg. \langle Gr. $\gamma\ell\nu o c$, kind, genus, + $\sigma\ell\nu$, with, + $\tau\ell\nu \sigma c$, type.] One of a series of species upon which a genus is founded, no one species being the genoholotype, or species on which the genus is based. Schuchert and Buckman, in Science,

genotion per of species of which the genus is based. Schuchert and Buckman, in Science, June 9, 1905, p. 901. genotype (jen $\bar{0}$ -tip), n. [Irreg. \langle Gr. $\gamma\acute{e}\nu o\varsigma$, kind, genus, $+\tau \acute{\nu}\pi o\varsigma$, type.] The type specimen or original description or illustration of a genus. See type specimen, under type.

Eight species have at various times been referred to Romingeria, mostly upon very insufficient grounds; hence the original conception of the genus has become obscured and is without much present significance. If the original description and figure of Billings be taken as a starting-point, the subsequent vicissitudes of this genotype will be apprecisted.

Amer. Jour. Sci., July, 1903, p. 1.

genson (jen'son), n. [A dial. form of gentian.] The horse-gentian, or feverroot, Triosteum per-

In he horse-gentian, or feverroot, Triosteum perfoliatum.

gentian, n.—American gentian, in phar., Gentiana Saponaria, the soapwort-gentian, used as a substitute for the officinal gentian, probably including other species. Also (improperly) the American columbo, Frasera Carolinensis.—Antumn gentian, Gentiana Amarella, a low Old World species, used medicinally.—Barrel-gentian, the closed gentian, G. Andrewsi, so called from the barrel-shaped flowers. The soapwort-gentian, G. Saponaria, has been called barrel-flowered gentian, G. Saponaria, has been called barrel-flowered gentian or orange-grass, Sarothra gentianoides.—Blind gentian, the closed gentian, Gentiana Andrewsii.—Blue gentian, in phar., same as American *gentian (excluding Fracera); also the five-flowered gentian, and generally any blue-flowered gentian. Andrewsii.—Elliott's gentian, a blue-flowered species, Gentiana Elliottii, of the southeastern United States of the same general type as the soapwort-gentian.—Five-flowered gentian, the ague-weed, Gentiana quinquefolia of eastern North America, also called stif gentian and gall-weed. It is an attractive plant with rather slender tubular flowers in clusters of about five. Its root is said to be much used in domestic practice.—

Gentian See gentian.

See gentian See gentian See gentian.

said to be much used in domestic practice.—
Gentian aniline water. See gentian *violet.—Gentian blue, violet. See *blue, etc.—Larger fringed gentian, the ordinary fringed gentian, the ordinary fringed gentian, Gentiana fringed *gentian. (a) Gentiana Pneumonanthe of moist grounds in Europe. See harvest-bells. (b) The soapwort-gentian. (c)

rounds in Europe. See harvest-bells. (b) The soapwort-gentian. (c) Same as striped *gentian.—Northern gentian.—Northern gentian.—Northern gentian.—Northern gentian.—Northern gentian.—Northern gentian.—Northern gentian.—Sentian acuta, a plant of wide distribution in the unorthern regions of both hemispheres and in the amountains as far south flora of the Northern States and as 'Mexico. It is a Canada.")

**Sentian and Brown's "Illustrated species, often with purple stems and follage, and is closely related to, and by some identified with, the autumn geutian or common European felwort.—One-flowered gentian, a pine-land species, Gentiana Porphyrio, of the lower Atlantic coast, bearing a single funnel-shaped flower of blue mixed with some green and yellow.—Smaller fringed gentian, Gentiana detonea, resembling the fringed gentian, but smaller: native both in Europe and in northern North America.—Snake gentian, the rattlesmake-root, Nabalus serpendarius.—Soapwert-gentian.



gentian

See gentian. This and the closed gentian, striped gentian, and other related species differ greatly in habit from the officinal gentian, being lower, more slender, and less erect plants with ollong leaves narrowed at the base and bearing their club-shaped flowers at or near the summit of the stem, while their nearly closed flowers separate them widely from the fringed gentians and the five-flowered gentian. In the Sonthern mountains the species of this group are called Samson's snakeroot. See American **gentian. Southern gentian, the soapwort-gentian, Gentiana Saponaria. See American **gentian. Stiff gentlan. Same as five-flowered **gentian. Stiff gentlan. Same as five-flowered **gentian. Stiff gentlan, Gentiana silosa, of the eastern United States, especially southward: a plant of the habit and property of the soapwort-gentian (see above), but with flowers more open, and greenish-white striped within. ■ White gentian, the laserwort or herb frankincense, Laserpitium latifolium. See Laserpitium. Also same as horse-gentian (which see, under gentian). These are gentians only medicinally. ■ Yellow gentlan. (a) The officinal species, Gentiana lutea. See gentian and yellow. The roof possessea in a high degree the medicinal property of a bitter tonic. (b) The American columbo, Frasera Carolinensis.

Gentianales (jen-shia-nā'lēz), n. pl. [NL.

Gentianales (jen-shia-nā'lēz), n. pl. [NL. (Lindley, 1833), Gentiana+-ales.] An order of dientyledonous, chiefly sympetalous plants characterized by regular flowers, mostly 5-merous, the stamens borne on the base of the corolla and as many as its lobes, and 2 distinct ovaries. It embraces 7 families, of which the Gentian-aceæ, Oleaceæ, Apocynaceæ, and Asclepiadaceæ are the nost important.

gentianic (jen-shi-an'ik), a. Pertaining to or derived from gentianin .- Gentianic acid, an incorrect name for *gentianin.

gentianin (jen'shia-nin), n. The pale-yellow crystalline coloring-matter of the root of Genthana tutea. It is used as a tonic, melts at 267° c., and is dihydroxymethoxyxanthone, HO.C6 $_{\rm H_3}$ co $_{\rm CO}$ C6 $_{\rm H_2OH.OCH_3}$. Also called gentisin $_{\rm geobotanist}$ (jē-ō-bot'a-nist), n. [geobotan(y) and gentianic acid.

gentianose (jen'shia-nos), n. [gentian + -ose.] A colorless, dextrorotatory compound, $C_{18}H_{32}$ O_{16} , crystallizing in plates which melt at 210° C. It is found in the root of Gentiana luten. It ferments directly and yields a mixture of gentiobiose and 1-fractose when hydrolyzed. It is a hexotriose.

gentiobiase (jen"ti-ō-bī'ās), n. [gentiobi(osc)+ -ase.] A ferment which inverts gentiobiose to the corresponding disaccharides.

gentiobiose (jen"ti-ō-bī'ōs), n. [genti(an) + A hexobiose derived from dex-(hex)obiose.]

gentiogenin (jen-ti-oj'e-nin), n. [genti(an) + An amorphous cleavage-product, -gen+-in².] An amorphous cleavage-product, C₁₄H₁₆O₅, of the glucoside gentiopicrin, obtained from the root of Gentiana lutea.

gentiol (jen'ti- \bar{o} l), n. [genti(an) + -ol.] An amorphous compound, $C_{30}H_{45}(OH)_3$, obtained from the flowers of Gentiana verna. It melts at

gentisate (jen'ti-sat), n. [gentis-ic +-atc1.]
A salt of gentisic acid.

gentisein (jen-tis'ē-in), n. [gent(ian) + Gr. loog, equal (†), + -e- + -in².] A straw-colored com-

pound, $H^{\stackrel{4}{\text{OC}}}_{6}H_{3} < {}^{O}_{CO} > C_{6}H_{2}({}^{\stackrel{1}{\text{OH}}}_{2})_{2}$, which crystallizes in needles and melts at 315° C. It

is a dye and is also called 1, 3, 7, trihydroxyxanthone.

xanthone.
gentisic acid. Same as * gentianic acid.
gentisin (jen'ti-sin), n. Same as * gentianin.
gentleman's-cane (jen'tl-manz-kan), n. The
prince's-feather, Polygonum orientale.
Genu arenatum, eversum, excurvatum, or extrorsum.
Same as * genu valgum, — Genu introrsum or inversum.
Same as * genu valgum, — Genu recurvatum, hyperextension of the kee, forming a projecting angle backward.— Genu valgum, knock-knee.— Genu varum, outward bending of the legs; bow legs.
genual a. 2. Pertaining to or resembling a

genual, a. 2. Pertaining to or resembling a genn (in any sense) .- Gennal sulcus. See *sul-

genuin, a. A simplified spelling of genuine. genus, n.—Form genus, a genus or group consisting of form species.—Proximate genus, in logic, the next higher genus; the genus next above a given species.—Summum genus, same as highest genus; a genus that is not included in any other genus.

Genyatremus (jen-i-at'rē, mus), n. [NL., (Gr. γέννς, chin (see ehin), + ά- priv. + τρῆμα, hole.] A genus of fishes of the family Hæmulidæ, commonly known as the grunts. They are similar to fishes of the genus Anisotremus, but have a curved tail. G. luteus is found in the West Indies.

Genyonemus (jen'i-ō-nē'mus), n. [NL., ⟨Gr. γέννς, chin, + νῆμα, thread.] A genus of small cyanoid fishes known as kingfishes, found on the coast of California, where G. linearing in the coast of California, eatus.is valued as food.

Genyophrynidæ (jen'i-ô-frin'i-dê), n. pl. [NL.

Genyophryne, the type genus, +-idx.] A family of tailless Amphibia which contains species with dilated sacral vertebre and very small teeth on the front portion of the under jaw. The few species are found in the Australian

Genyornis (jen-i-ôr'nis), n. [NL., < Gr. γέννς, chin, + όρνις, bird.] A genus of large struthious birds, apparently related to the emu, known from remains in the Pleistocene deposits about Lake Callabonna, Anstralia. The type of the genus is G. newtoni.

genyplasty (jen'i-plas-ti), n. [Gr. γέννς, chin, + πλαστός, formed, + -y³.] See * genioplasty. geobiologic (jē″ō-bī-ō-loj'ik), a. Of or pertain-

ing to geobiology.

A forest soil, such as we find in western North Carolina, is an expression, therefore, not only of the physico-geographic, geographic, and geophysic forces which have been brought to bear in its formation, but also of the geobiologic forces which have been at play.

**Bot. Gazette*, Oct., 1903, p. 256.

geobios (jē-ō-bī'os), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, land, + $\beta io\dot{\varsigma}$, life.] The animals and plants of the land, considered collectively and in contrast with the animals and plants of the water.

The term halibios seems to be suitable to designate the totality of the marine fauna and flors, as contrasted with limnobios, or the organic world of fresh water, and with geobios or the totality of the land-dwelling or terrestrial plant and animal world.

Haeckel (trans.), Planktonic Studies, p. 578.

It is used as a tonic, melts at 267° geobotanic (je o-bo-tan'ik), a. [Gr. γη̃ (γεω-),

The most thorough investigations have been given to the chernozem soils by Russian geo-botanists.

U. S. Dept. Agr., Bur. Plant Industry, Bulletin 3, p. 18.

geobotany (jē-ō-bot'a-ni), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), carth, + E. botany.] Geographical botany or phytogeography, including its ecological geodist (jē'ō-dist), n. [geode + -ist.] A student or investigator of geodes

The geology and geo-botany of Asia.

Pop. Sci. Mo., May, 1904, p. 68.

geocarpy (jê'ō-kär-pi), n. [Gr. $\gamma \hat{n}$ ($\gamma \epsilon \omega$ -), earth, ground, $+ \kappa a \rho \pi \delta c$, fruit, $+ \cdot y^3$.] The habit of certain plants of burying their fruit in the ground for protection. The peanut is the most familiar example. Jour. Roy. Micros.

most familiar example. Jour. Roy. Micros. Soc., Aug., 1904, p. 427.

geocentric. I. a.—Geocentric system, the ancient theory of the solar system which placed the earth at its center.—Geocentric zenith. See *zenith.

II. n. An adherent of the theory that the earth is the center of the universe.

geocentricism (jē-ō-sen'tri-sizm), n. [geocentric + -ism.] The geocentric theory.

We have moreover, in approaching these questions to clear our minds entirely of geocentricism, theological and philosophical as well as physical, of our notions of this earth as the center of the universe and the grand scene of providential action.

Goldwin Smith, in The Forum, July, 1896, p. 608.

geochemical (jē-ō-kem'i-kal), a. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, + E. chemical.] Presenting both geological and chemical relations. Jour. Soc.

Chem. Industry, V11. 338. geochemism (jē-ō-kem'ism), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\varepsilon\omega$ -), earth, + chemism.] Chemical energy as the cause of changes in, and as determining the condition of, the materials of which the earth's crust is composed.

All of these processes are the work of gravity, heat, light, electricity and magnetism, and combined they produce a set of chemical changes which, as a mode of motion, we call chemism, which must be distinguished from affinity, for affinity means choice, while chemism means energy, and valency expresses numerical proportions. Heat produces expansion, gravity produces contraction in the materials of the rocky crust, and, conjoined, they produce chemism.

This geochemism is the fundamental energy.

J. W. Powell, Truth and Error, p. 59.

geochemistry (jē-ā-kem'is-tri), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, + E. chemistry.] The chemical study of the earth, that is, the science of its chemical composition and of the chemical causes and effects of terrestrial processes.

The problems of geophysics and geochemistry involve the applications of pure physics and pure chemistry from the minutest parts of the earth to the mass of the earth as a whole.

Rep. Carnegie Inst., 1902, p. 27.

geochrone (jē'ō-krōn), u. [Gr. γη̄ (γεω-), earth, + χρόνος, time.] A name proposed for the standard time unit used in measuring geologie time and comparing different eras.

The time ratio adopted by Prof. James D. Dana for the Paleozoic, Mesozoic, and Cenozoic perioda ia, 12, 3, and 1, respectively. Prof. Henry S. Williams applies the term geochronology, giving the standard time unit used the

name geochrone. The geochrone used by him in obtaining a standard scale of geochronology is the period represented by the Eocene. His time scale gives 15 for the Paleozoic, 3 for the Mesozoic, and 1 for the Cenozoic, including the Quaternary and the Recent.

Smithsonian Rep., 1893, p. 331.

geogram

geochronology (jē"ō-krō-nol'ō-ji), n. Geologie chronology; the application of time measures to geologic succession. Smithsonian Rep., 1893, p. 331.

geochrony (jē-ok'rō-ni), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$), earth, + $\chi\rho\sigma$ (σ c, time.] The chronological classification of the earth's history.

geocratic (jē-ō-krat'ik), a. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), land, $\kappa\rho\sigma\tau\dot{\epsilon}\nu$, predominate, +-ic.] Relating to times or conditions in which land predominates or continents enlarge.

Hydrocratic and geocratic movements alternated during Jurassic times, with a decided balance in favour of the former, and a recession of the coast-line towards the north.

Geog. Jour. (R. G. S.), XI. 133.

An abbreviation of geodesy.

geodal (jē'ō-dal), a. Characteristic of or per-taining to a geode or formed by the same pro-cesses which give rise to geodes.

Geodesic geometry. See *geometry. geodetic, a.—Geodetic latitude.
Geodetic leveling. See *leveling. See *latitude.-

II. n. A geodetic line.

geodetician (je*ō-de-tish'ian), n. [geodetic +
-ian.] One who is skilled in geodesy; a geode-

He estimates that to complete the undertaking the cooperation of five geodeticinns for four complete years will be necessary.

Geog. Jour. (R. G. 8.), XVI. 356.

geodic (jē-od'ik), a. [geode + -ic.] Of, pertaining to, resembling, containing, or that has contained a geode: as, geodic cavities; geodic

"Man, like this star, is geodic." "Passing wonderful! I have been straining after the stars, how much there is in the stones! Geodic Androids!" S. Judd, Margaret, II. iii.

dent or investigator of geodes.

Fairburn's experiments...illustrate this tetrahedral collapse for short tubes; and...it is considered probable by some geodists.

Geog. Jour. (R. G. S.), XIII. 238.

geodromican (jē-ō-drom'i-kan), a. and n. a. Of or belonging to the heteropterons series Geodromica.

II. n. One of the Goodromica.

geoduck (jē'ō-duk), n. Same as *gocduck.
geodynamic (jē'ō-dī-nam'ik), a. [Gr. γ̄̄ (γεω),
earth, + E. dynamics.] 1. Relating to the dynamics of the earth, or the forces manifested
in the formation and subsequent history of the
earth.—2. Specifically, of the solid earth as
distinguished from the ocean and atmosphere.
—Geodynamic observatory, an observatory established for the recording and investigation of the phenomena
of seismology and vulcanology.

Cavaliere de Rossi of Rome, has established a "agageoduck (jē'ō-duk), n. Same as *gocduck.

Cavaliere de Rossi, of Rome, has established a "geo-dynamic" observatory in a cave 700 metres above the sea at Rocca di Papa, on the external slope of an extinct vol-cano. "G. II. Darucin, The Tides, p. 127.

geodynamical (jē-ō-dī-nam'i-kal), a. Same as \star geodynamic.

geodynamics (je-ō-di-nam'iks), n. The study of the dynamics and physics of the processes and phenomena attending the gradual evolution of the earth and the changes that are still going on.

geo-ethnic (jē-ō-eth'nik), n. [geo(graphic) + ethnic]. Of or pertaining to the geographical geo-ethnic (jē-ō-eth'nik), n. relations of tribes and peoples.

eoform (jē-ō-fôrm), n. Same as *creoform. geoform (je-o-torm), n. Same as constant (Geoglossaceæ (je*ō-glo-sā'sē-ē), n. pl. [NL., & Geoglossum + -aceæ.] A family of fleshy ascomycetons fungi named from the genus Geoglossum. The ascomata are club-shaped or capitate and bear asci opening by a termi-

and bear asci opening by a terminal pore. See Geoglossum.

geoglyphic (jē-ō-glif'ik), a. [Gr. γ̄η (γεω-), earth, + γλνφη, a carving, + -ic.] In geol., noting those characters marked on the rocks from which may be read former conditions of the earth and its life, as a fossil bird-track or rain-print. Dana, Manual of Geol., p. 95.

[gcognos-y + geognosist (jē-og'nō-sist), n. ist.] One versed in geognosy; a geognost.

Leopold von Buch, the first geognosist of the century, and hardly less famous than Humboldt.

Pop. Sci. Mo., May, 1904, p. 85.

geografer, geografic, geografy. Simplified spellings of geographer, geographic, geography. geogram (je'ō-gram), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, + $\gamma\rho\dot{\alpha}\mu\mu\alpha$, a writing.] In gcol., a special

Geographic ecology. See *avology. Geographical biology. Same as *hogeography.—Geographical climatology, latitude, tongue, variation. See *climatology, *latitude, *tongue, *variation.—International geographical mile. See *mile. geographize, v. II. intrans. To study geography.

raphy: carry on more or less systematic observations and researches in geography.

geography, n. 3. The main features of a locality as regards its geographical position and general character; the knowledge derived from geographical research.—Applied geography, geography considered in relation to commerce and trade; commercial geography.

and trade; commercial geography.

The term "applied yeography" has been employed to designate commercial geography, the fact being that every aspect of scientific geography may be applied to practical purposes, including the purposes of trade.

Encyc. Brit., XXVIII. 628.

Astronomical geography, that branch of geography which treats of the astronomical relations of the earth's surface, such as latitudes and longitudes, and the consequent peculiarities of day and night, climates, and seasons in different regions.—Commercial geography, the geographical study of the production, distribution, and exchange of commodities.—Mathematical geography, those departments of geographical science which need purchased in the contraction of the contraction and contraction a exchange of commodities.—Mathematical geography, those departments of geographical science which need mathematics, and are concerned with the determination of the position of the earth in the solar system, its form, size, motions, etc., the determination of the position of places on the surface of the earth by means of latitude and longitude, the charting of those positions, the delineation of surface features, etc.—Organic geography, the science which treats of the responses of organisms to their environment; biography.

Thus defined, geography has two chief divisions. Every-Thus defined, geography has two chief divisions. Everything about the earth or any horganic part of it, considered as an element of the environment by which the organic inhabitants are conditioned, belongs under physical geography or physiocraphy. Every item in which the organic inhabitants of the earth—plant, animal, or man—show a response to the elements of environment, belongs under organic geography. Geography proper involves a consideration of relations in which the things that belong under its two divisions are involved.

Amer. Geol., March, 1904, p. 168.

Plant geography. Same a shuttogenerable.

geometricize (gē-ō-met'ri-siz), v. i.; pret. and pp. geometricized, ppr. geometricizing. To apply the principles of geometry; become geometrid and the principles of geometry; become geometrid subfamily Geometricized, any member of the geometrid, any member of the geometride geometrides.

Same a shuttogenerable.

Same a shuttogenerable.

Same a shuttogenerable.

Same a shuttogenerable.

Plant geography. Same as phytogeography. geoid, n. 2. See geode. geoidal (je'oid-al), a. [geoid +-al.] I [geoid +-al.] Relating

geoidal (je od-a), n. [geode 1-2n.] Iterating or pertaining to a geoid. geoisotherm (jē- $\bar{\phi}$ - $\bar{1}$'s $\bar{\phi}$ -therm), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, + E. isotherm.] An imaginary surface passing through all points within the crust of the earth which have the same

temperature. geologic, a. 2. Interested in geology or given

geologic, a. 2. Interested in geology or given to geologizing; as, geologic tourists, geologize, v. II. trans. To study or investigate geologically: as, to geologize a district. geology, n. 1. It is usually subdivided into (n) Geognosy, or the description of the materials of the earth (sometimes called lithologic or petrographic geology); (b) dynamic geology; (c) pattential, geology; (c) pattential, geology; (d) historical or stratigraphic geology; (g) cosmic geology; It is also customary to subdivide it seconding to its applications, as economic geology, or the treatment of its relations to the useful rocks and minerals and mining or quarrying; practical or applied geology, etc.

2. The geological conditions or features of a place: as, the geology of a district.

Eolian geology, the study of geological phenomena due to the winds.—Anthropic geology, that branch of the science which is specially concerned with the effects produced by the presence of man on the earth.—Areal geology, that branch of the science under which the local formations in a particular area are described and discussed.

formations in a particular area are described and discussed. Under "Areal geology" will be discussed the stratigraphy, igneous rocks, and structure; and under "Economic geology" will be treated the character and occurrence of ore and present mining activity.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 32.

Contro. to Econ. Geot., U. S. Geol. Surv., 1902, p. 32.

Biotic or biologic geology, geology considered with reference to biologic phenomena; paleontology.—Diaatrophic geology. Sec **dinstrophic.—Economic geology, that branch of geology which treats of the origin, occurrence, and applications of the useful ores and nonmetallic minerals and rocks.—Exparimental geology, that method of geological investigation which seeks to reproduce natural phenomena by artificial or experimental processes.—Formational geology, that hranch of geology under which is included the study of the successive geological formations: practically synonymous with stratigraphic geology.

geomagnetic (je*o-mag-net'ik), a. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), the earth, + E. magnetic.] Of or pertaining to terrestrial magnetism. Nature, April 21, 1904, p. 581.

geomagnetist (jē-ō-mag'ne-tist), n. A specialist in the magnetic phenomena of the earth.

The geomagnetist Paulins. Sci. Amer. Sup., Sept. 19, 1903, 23176.

name suggested for those continuous sections of sedimentary strata which furnish a time-scale for the geologic past.

Further, the meteorologist had his chronometer where as the geologist must construct his time-scale from the records on what might, for purposes of comparison, be referred to as the "geographs," or strips of the geological sediments.

Cheographic ecology. Geographic ecology**. Geographic ecology**. See **acology**. Geographical biology**. Sume as *homeography**.—Geographical climatology**, latitude, tongue, variation. See **elimatology**, latitude, tongue, variation. See **elimatology**, latitude, tongue, variation. See **elimatology**, latitude, tongue, variation. The ternational geographical mile. See **mile**, geographical mile. See **mile**.

Geographical climatology**, latitude, **conjue, **variation**. In the northeastern United States and in Canada, extending to Labrador. Its larve probably feed on birch ternational geographical mile. See **mile**.

Geographical climatology**, latitude, **conjue, **variation**.—In ternational geographical mile**. To study geog-geographical mile**. To study geographical mile**. The study geographical mile one of the laws Notched-wing geometer, an American oth. Ennomos magnurius, one of the



Notched-wing Geometer (Ennomos magnarius), (From Comstock's "Manual.")

species in the North American fauna. Its larvee feed on the maple birch, and chestnut. The moth is ocher-yellow in color with brown spots.—Raspberry geometer, an American geometrid moth, Synchlora nërnit, of a delicate pale-green color, whose larva feeds on the fruit and foliage of the raspberry, covering itself with bits of vegetable matter.

Geometric decoration, tracery, zenith. See ★decoration, ★tracery, ★zenith.

geometrical, a.—At a geometrical ratio. See *ratio.—Geometrical ratio, solution. See *ratio, + enlution

geometricize (gē-ō-met'ri-sīz), v. i.; pret. and pp. geometricized, ppr. geometricizing. To apply the principles of geometry; become geometrical. H. C. Butler, Architecture and Other

as geometrid, a.

geometrize, v. II. trans. To form geometrically or according to geometrical principles. geometroid (je-om'e-troid), a. and n. I. Of or belonging to the superfamily Geometroi-

II. n. One of the *Geometroidea (which see). Geometroidea (jē-om-e-troi'de-ä), n. pl. [NL., < geometer + oidea.] The geometrid moths considered as a group of superfamily rank.

Geometroidea (jē-om-e-troi'de-ā), n. pl. [NL., \lambda geometry + oidea.] The geometrid moths considered as a group of superfamily rank.

geometry, n. The oldest classification of geometry is (a), that in which it is divided according to the method of logical procedure, namely into synthetic and analytic, the method of geometrical analysis having been invented or taught by Plato. In modern times this classification intertwines with another, namely (b), that which is based on the mental instrument or equipment used, giving: (1) pure or synthetic geometry; (2) rational; (3) descriptical, Cartesian, or coordinate; (6) differential, infinitesimal, antural, or intrinsic; (7) enumerative or denumerative. Some of these are subdivided on the same principle, as: (1) (a) geometry of the ruler or straight-edge; (B) of the ruler and sect-carrier; (y) of the ruler and unitsect-carrier; (s) of the compasses; (c) of the ruler and unitsect-carrier; (s) of the compasses; (c) of the ruler and compasses; (f) of thinkages. Further divisions are: (c) By dimensionallity: (1) geometry on the straight or on the line; (2) two dimensional geometry; (a) plane geometry; (b) spherics; (y) pseudo-spherics; (3) tri-dimensional geometry; (a) geometry of ylunes; (b) solid geometry of straights; (b) of hyperspace; (5) n-dimensional geometry; (a) geometry of straights; (b) of hyperspace; (5) n-dimensional geometry; (a) by elements: (1) point geometry; (2) straight or line; (3) plane; (4) point, straight, and plane; (5) straight or line; (3) plane; (4) point, straight, and plane; (5) straight or line; (3) plane; (4) point, straight, and plane; (5) straight or line; (3) plane; (4) point, straight, and plane; (5) straight or line; (3) plane; (4) point, straight, and plane; (5) straight or line; (3) plane; (4) point, straight, and plane; (5) straight or line; (8) plane; (9) subject-matter; (1) pure descriptive, pure projective, or pure positional geometry; (2) monetry; (3) one-frue demants; (6) archimaght, or taining the subject of the part treated;

infinitesimal geometry; applications of the differential and integral calculus to curves and surfaces.—Geodeaic geometry, geometry in which for straight on the plane, straightest on the surface is substituted.—Geometry on a plane, obtained by interchanging point with plane.—Kinematic geometry, geometry which treats of the properties of curves and surfaces regarded as functions of the spacial and angular velocities of lines which move in accordance with fixed laws.—Lemoine-Brocard geometry, the geometry of the triangle, inaugurated by Lemoine in 1873, and by Brocard in 1875.—Lobachevskian geometry, the geometry, the geometry of a Lobachevskian space or universe.—Non-Euclidean geometry, ageometry in which Euclid's postulate with regard to parallel straight lines is not assumed. See ★non-Euclidean.—Rational geometry, geometry founded and developed without the use of irrational numbers, and without ratio; in it four magnitudes by definition form a proportion if the product of two equals the product of the other two.—Riemannian geometry, the geometry in which Euclid's backless by definition form a proportion if the product of two equals the product of the other two.—Riemannian geometry, same as line geometry.—Symbolic geometry, geometry developed by the use of a symbolic language or calculus of symbols, geomorphic (jē'ō-môr-fik), a. [Gr. γ̄̄̄, the earth, + μορφή, form.] Of or relating to the figure of the earth or to the study of land-forms.

I doubt if any careful geomorphic geologist familiar with all the ubenomena involved would seriously consider an

I doubt if any careful geomorphic geologist familiar with all the phenomena involved would seriously consider an estimate that made it much more than one half at the most; so that it would spparently not be straining the evidence to take 40,000 years as a rude measure of the time since the beginning of the retreat [of the Wisconsin Ice-sheet] from the outermost moraine of the Wisconsin stage. Wisconsin stage.

T. C. Chamberlin, in Jour. of Geol., Oct.-Nov., 1899, p.680.

geomorphist (jē'ō-môr-fist), n. [Gr. $\gamma\bar{\eta}$, the earth, + $\mu\rho\rho\phi\bar{\eta}$, form, + -ist.] Same as *geomorphogenist.

The climatologist who studies the physical conditions of the atmosphere for their own sake . . . the geomorphist who is satisfied with the study of land forms as a finality . . . these specialists may all be eminent in their own lines, but they fall short of being geographers.

Amer. Geol., March, 1904, p. 174.

geomorphogenic (jē "ō-môr-fō-jen'ik), a. Of or pertaining to geomorphogeny or the study of the development of land forms.

geomorphogenist (jē "ō-môr-foj'e-nist), n. A specialist in the investigation of the development of earth-forms; a physiographer.

The survey reports have not, as a rule, been prepared by persons whose training and interests were primarily geographical, and very few of the geomorphogenists have carried their new science forward into a geographical relation; they have usually stopped with the physical aspects of the subject, and left the organic aspects with scanty consideration.

Amer. Geol., March, 1904, p. 150.

geomorphogeny (je**\vec{0}-m\vec{0}r-foj*(e-ni), n. [Gr. $\gamma \bar{\eta}$, the earth, $+\mu op\phi \bar{\eta}$, form, $+-\gamma eveta$, $<-\gamma evin$, -produced.] In geol., the study of the origin of the surface features of the earth.

The French geologist Élie de Beaumont, whose theory of geomorphogeny was stated at length in his 'Notice sur les systèmes de montagnes' (3 vols.: Paris, 1852). This famous theory was based on a correlation of the mountain chains by means of their orientation.

Geog. Jour. (R. G. S.), XIII. 235.

geomorphological (jē/o-môr-fo-loj'i-kal), a.

of or relating to geomorphology. See *geomorphology. Geog. Jour. (R. G. S.), IX. 666. geomorphology (jē″ō-môr-fol′ō-ji), n. [Gr. γπ̄, the earth, + E. morphology.] The morphology of the earth; the study of the form of the earth's surface features and of their origin.

The first volume of Sness' great work on Geomorphology was published in 1885, and at once took the leading place as the greatest contribution ever offered by geology to geography.

Geog. Jour. (R. G. S.), XI. 440.

geomorphy, n. 2. The science of land forms.

The survey reports of our various states and territories contain a great fund of geographical matter, and some of the members of these surveys have carried the physical geography of the lands so far forward as to develop it into a new science, to which a name, geomorphy or geomorphogeny, has been given.

Science, Jan. 22, 1904, p. 123.

geonomic, n. 2. Pertaining to the earth: contrasted with astronomical or pertaining to the heavenly bodies.

neavenly bodies.

geonomical (jē-ō-nom'i-kal), a. Same as geonomic. Smithsonian Rep., 1903, p. 375.

Geophagus (jē-of'a-gus), n. [NL., ⟨Gr. γῆ, earth, + φαγεῦ, eat.] A genns of cichlid fishes found in the rivers of Brazil.

geophilous, a. 2. In bot. (a) Terrestrial; growing or rooting in the ground. (b) In phytogeog., growing on the ground or on decaying vegetable matter: applied by Pound and Clamvegetable matter: applied by Pound and Clements to a class of fungi. (c) Fruiting underground.

ground.

Geophysical laboratory, an institution devoted to the observation and study of the physical relations of the earth, especially its meteorology, tides, magnetism, gravitation, temperature, earthquakes, and volcanoes.

geophysicist (jē-ō-fiz'i-sist), n. [geophysic-s+-ist.] A student of geophysics; one who

studies the relations between the features of the earth and the laws of physics. Amer.

Jour, Sci., Dec., 1903, p. 402. geophysiognomy (je"ē-fiz-i-og'nō-mi), n. The

physical teatures of the face of the earth. **geophyte** (jē'ō-fīt), n. 1. A plant which produces underground buds that de not develop there.

Areschong.—2. A terrestrial plant.
geopolar (jē-ō-pō' lār), a. [Gr. yō, the earth, +
E. polar.] Related to the pole of the earth:

opposed to heliopolar, which refers to the pole of the sun's retation.

In discussing the direction of the variation, two systems of coordinates are used: First, the 'geopolar,' given by the hour-angle and latitude of the point where the direction at any hour cuts the Earth's surface; and second, the 'heliopolar,' in terms of the angle with the Sun's direction (heliopolar distance), and the angle which the plane through the direction at any hour and the Sun makes with the equator. Science, Feb. 7, 1902, p. 223.

geopolitical (jē "ō-pō-lit'i-kal), a. [Gr. γῆ, earth, + E. political.] Relating to politics as affected by geographical relations.

The border-nations... the Hebrews, Phonicians, Hellenes... Had Geography not sided them by geopolitical advantages of situation, they would at once have been swallowed up by the empires. Had they not developed Intellect, their geopolitical situation could not have will determ vary long. avsiled them very long.

Emil Reich, in Contemporary Rev., April, 1905, p. 505.

riculture; geoponies; farming.

georetic (jē-ō-ret'ik), a. [Gr. $\gamma \tilde{\eta}$, earth, + $\dot{\rho} \eta \tau (i \nu \eta)$, resin, + -ie.] Noting a colorless erystalline waxy acid, $C_{12}H_{22}O_4$, obtained from lignite from the neighborhood of Weissenfels in Saxony,

Georgian architecture. See *architecture. georgical (jôr'ji-kal), a. Same as georgic. georgino (jêr-jē'nō), n. [It.] A silver Genoese eoin of the eighteenth century bearing the device of St. George on herseback.

georyssid (je-ō-ris'id), n. and a. I. n. A member of the colcopterous family Georyssidæ.

II. a. Of or belonging to the family Georyssid#

state.

Geoscolecidæ (jē-ō-skō-les'i-dē), n. pl. [NL., Geoscolex (-lee-) + -idæ.] A family of terrieeleus annelids, mainly tropieal. There are eight
sete in a segment; the clitellum is usually saddle-shaped
and is often furnished with modified sete; the nephridia
are paired with rarely more than one pair in a segment;
the male pores are generally within the clitellum; and
the spermathece are without diverticula. The typical zenus la Geoscolex.

geosote ($j\bar{e}'\bar{\phi}$ -set), n. The valerie acid ester of

book, IV. 425.

geosphere (jē'ō-sfēr), n. [Gr. γή, earth, + σφαίρα, sphere.] 1. The atmosphere of the earth as distinguished from that ef other planets. -2. One of the concentric, spheroidal challenges are the concentric, spheroidal shall be a state of the concentric spheroidal shall be a state of the concentration of the contentric spheroidal shall be a state of the concentration of the concentration of the contentration of the shells of which the earth may be conceived to consist. Four are usually postulated, from without inward, the atmosphere, the hydrosphere, the lithosphere, and the centrosphere or barysphere. The sphere capable of supporting life and embracing portions of the outer three is called the biosphere.

When we regard our globe with the mind's eye, it appears to be formed of concentric spheres, very like, still very unlike, the successive coats of an onion. Within is situated the vast nucleus or centrosphere; surrounding this is what may be called the tektosphere [77x76, molten], a shell of materials in a state bordering on fusion, upon which rests and creeps the lithosphere. Then follow hydrosphere and atmosphere, with the included blosphere. To the interaction of these six geo-spheres through energy derived from internal and external sources, may be referred all the existing superficial phenomens of the planet.

Sir John Murray, in Geog. Jour. (R. G. S.), XIV. 435.

geosynclinal, n. II. a. Having the charaeters of a geosyncline.

geosyncline (je-o-sin'klin), n. [As geosyncline(al).] In geol., a considerable tract in which the strata are bent into a great trough

with many miner undulations on the flanks. Dana, Manual of Geol., p. 106.

geotactic (jē-ō-tak'tik), a. [geotaxis (-tact-) + -ie.] Of er pertaining to the leeemetion of erganisms or of eells in relation to the direc-

organisms of of eells in relation to the direction of the earth; exhibiting geotaxis. geranyl-acetate (jer'a-nil-as"e-tāt), n. [geotaxis (jē-ō-tak'sis), n. [NL., \langle Gr. $\gamma\bar{\eta}$, earth, $+\tau\bar{\alpha}\bar{\varsigma}\iota\dot{\varsigma}$, disposition.] The orientation of leeemotion of eells or of organisms in relation to the direction of the earth (ortogravity). For example, "cockroaches seem to be stimulated by gerantic (ge-rat'ik), a. [Gr. $\gamma\bar{\eta}\rho a\varsigma$ (later stem

gravity when this acts perpendicularly to their ventral surface, so that they tend to move off from a horizontal surface and do not come to rest until they are on a more or less nearly vertical one." C. B. Duvenport, Exper. Morphol., p. 118.

geotherm (jē'ō-thèrm), n. Same as *qcother-

geothermal (jē-ō-thèr'mal), a. and a. I, a. Geothermic

II. n. A line connecting places having the same temperature at a given depth below the earth's surface.

Geothermic degree. See *dearee.

geothermic degree. See Pacylet. geothermometric (je*jo-ther-mō-met'rik), a. [Gr. γη, earth, + E. thermometric.] Pertaining to the measurement and distribution of earthtemperature.

geotropically (je-o-trop'i-kal-i), adv. In a geotropic manner or direction.

geotropism, n.—Negative geotropism, growth away from the earth, the normal condition in stems. Compare heliotropism.—Positive geotropism, growth toward the center of the earth, the normal condition in roots. It is nearly the same as negative heliotropism.

Gephyroceras (jef-i-ros'e-ras), n. bridge, + κέρας, horn.] A genus of ammenoid eephalopeds or geniatites, with compressed whorls and but slightly progressed sutures: characteristic of the later Devonian fannas.

geopony (jē-op'o-ni), n. [Gr. γεωπονία, < γεω-Gerablattina (ger "a-bla-tī'nä), n. [NL., < πόνος, a tiller of the earth: see geoponie.] Agriculture; geoponies; farming.

Gr. γῆρας, old age, + NL. Blattina, a genus of eoekroaches.] A genus of Paleozoic eoekroaches. roaches

geranial² (je-rā'ni-al), n. [geranium + -al³.] A colorless, oily aldehyde, (CH₃)₂C:CH.CH₂. CH₂.C(CH₃):CH.CHO, one of the chief constituents of lemon-grass oil and of the oil of citrus fruits. It is formed by the oxidation of geraniol and is employed to adulterate rose-oil. It is used in the preparation of ionone, the artificial oil of violets. Also called citral and 2,6-dimethyl-2,6-octadienal-8.

Geraniales (jē-rā-ni-ā'lēz), n. pl. [NL. (Lindley, 1833), < Geranium + -alcs.] A large order of dicotyledenous, chiefly choripetalous, plants, characterized by flowers with distinct petals and sepals, the stamens usually as many as the sepals and opposite them, and a superior compound ovary. The order embraces 20 families, of which the most important are the Geraniaceæ, Oxalidaecæ, Linaceæ, Rutaceæ, Balsameaccæ, and Euphorbiaecæ.

geranic (jē-ran'ik), a. [geran-ial + -ie.] Derived from geranial.—Geranic acid, a colorless, liquid acid, $C_{10}\Pi_{10}O_{2}$, formed by the oxidation of geranial.

Geoscolex (jē-ō-skē'leks), n. [NL., $\langle Gr, \gamma \bar{\eta}, geranial. \rangle$ geranial. earth, $+ \sigma \kappa \bar{\omega} \gamma \bar{\eta} \bar{\xi}$, a worm.] The typical genus geraniene (jē-rā'ni-ēn), n. [gerani-ol + -enc.] of the family Geoscolecidæ. Leuckart. A colorless liquid, $C_{10}H_{16}$, prepared by the dehydration of geraniol. It boils at 162-A colorless liquid, $C_{10}H_{16}$, prepared by the dehydration of geraniol. It boils at 162-

guaiaeol, $C_6H_4 < \frac{O.CH_3}{O.C_5H_9O}$, an eily liquid used geraniin (jē-rā'ni-in), n. [Geranium + -in².] Au amorphous bitter principle of undetermination of the rhizometric generation of the rhizometric generati mined composition contained in the rhizome

A urrect coal-tar color. It dyes unmordanted cotton red in a salt bath, geraniol (jē,-rā'ni-ōl), n. [gerani-um + -ol.] A colorless liquid, (CH₃)₂.C:CH.CH₂.CH₂C (CH₃):CH.CH₂OH, with an odor of roses. It is isomeric with borneol camphor, and is found in German and Turkish oil of roses, in geranlum oils, and in various citronella and eucalyptus oils. It boils at 115-120° C. under 15 mm, pressure, is the alcohol of geranlal, and is also called rhodinol and 2,6-dimethyl-2,6-octadienol-8.

geranium, n. 5. An impure magenta which contains phosphene.—Geranium-oil. See *oil.—Ivy-leaved geranium, Pelaryonium peltatum, an old-fashioned window and conservatory plant with three-lobed lvy-like leaves, mostly pinklsh or purplish flowers, and a decumbent or trailing habit of growth. It is much used for hanging-baskets and lawn-vases. The cultivated forms are mostly much varied by domestication and perhaps by hybridization.—Rock geranium, a plant of the genus Heuchera; alum-root. The species are rock-loving plants with geranium-like leaves and with an astringent root like that of Geranium maculatum. See alum-root and Heuchera, with cut.—Spotted geranium, the spotted crane's-bill, Geranium maculatum: the name refers, as does also the specific name, to the spotted or blotched mature leaves.—Wild geranium, any uncultivated species of Geranium or crane's-bill. In the eastern United States most often the spotted geranium, G. maculatum. Very widely diffused and common is the rather weedy G. Carotinianum, Carolina crane's-bill, with inconspicuous whitish flowers. Another wild geranium is G. visconismum, ranging from Saskatchewan to California, wrongly suspected of poisoning stock. geranium, n. 5. An impure magenta which conwrongly suspected of poisoning stock.

γηρατ-), age, + -ic.] Relating to eld age; decadent

gerenuk (ge-re-nëk'), n. [E. African.] The native name, adopted as a book-name, for Waller's gazelle, Lithocranius walleri, an excessively long-necked species found in East

Gergonne point of a triangle. See *triangle. Germ variation. See *variation. See *triangle. German chest, furnace. See *chest1, *furnace.—German horizontal plane, Protestant, sesame-oil, standard candle. See *plane1, *Protestant, ctc.

standard candle. See *plane1, *Protestant, etc. germander, n.—American germander, Teuerium Canadense. See Teuerium (with cut).—Garile germander, the water-germander, Teuerium Seordium. Called also English treacle. See Teuerium.—Germander ehltekweed, speedwell.—See *kehekweed, speedwell.—Madeira germander. Teuerium betonicum, native in Madeira. Called also Madeira betony. See Teuerium.—Poly germander. Same as poly.—Tree-germander, Teuerium fruticans. See tree-germander and Teuerium.—Wall germander, Teuerium Chamaedrys. See germander and Teuerium.—Wild germander. (b) The wall germander. (c) Same as wood *germander.—Wood germander, Teuerium Scorodonia, also known as woodsage (which see, under sage2). See also Teuerium.

Germania¹ (jer-ma'ni-ä), n. [L.] Germany personified.

personified.

personned.

germania² (her-mä-nē'ā), n. [Sp. germania, hermania, lit. 'fraternity,' (germano, hermano, brother: see german¹.] Gipsy-language; thieves' eant; jargon; gibberish.

germanium, n. The discovery of this chemical element in 1885 constituted the third verification of Mendement in 1885 constituted the third verification of Mende-lejeff's prediction that elements, unknown when his peri-odic law was pointed out, would later be discovered having approximately certain atomic weights and certain properties which he indicated. Germanium has been found in argyrodite from Saxony and also in minerals from Bolivia.

Germanize, v. II. intrans. To become German in habits, feelings, sympathies, tastes,

Germanomania (jėr/ma-nō-mā/ni-ä), n. Germanus, German, + Gr. µavía, madness.] mania or marked predilection for things German; a pronounced fondness for Germans and German ways.

Germanomaniac (jėr ma-nē-mā ni-ak), n. One who earries to excess his fondness for German things and ways.

Germanophilist (jer-ma-nof'il-ist), n. Germanus, German, + Gr. 6/20c, loving. + -ist.] One, not a German, who is friendly to Germany and the Germans, their institutions, aims,

Ways, etc.

Whether you believe in Diez as an oracle, as some Germanophilists do, or doubt him, . . . everyone dealing with Romance etymologies, must at least see what he says.

The Reader, June 11, 1864, p. 744.

Germanophobe (jer'ma-nō-fēb), n. [L. Germanus, German, + Gr.-φόβος, < φοβεῖν, fear.] One who fears, distrusts, or dislikes Germany

One who tears, users, and the Germans.

"About this time," as the old almanacs used to say, "look out for storms." These will be raised by the extreme Germanophobes of England over the news given in "The Standard" of London on Monday and reported by our London correspondent in his cable dispatches of the same day.

N. Y. Tribune, April 15, 1903.

Germanophobia (jer"ma-nō-fō'bi-ä). n. [NL., L. Germanus, German, + Gr. -φοβία, < φοβείν, fear.] Morbid dread or distrust of Germany and her policy; unreasonable dislike of German ways or things.

Germanophobic (jēr"ma-nō-fō'bik), a. Of, pertaining to, or characteristic of Germanophobists or Germanophobia.

Germanophobist (jėr/ma-nō-fō'bist), n. One who hates or distrusts Germany.

[Germangermantown (jer'man-toun), town, a suburb of Philadelphia.] A carryall with a standing top, first built at Germantown, Pennsylvania, in 1816: the first vehicle of the

class known as a rockaway.

germ-ball (jerm'bâl), n. In trematodes, as a
larval Distomum, one of the more or less
spherical masses of cells of different sizes ont of which a redia is fermed, the latter in its turn containing a new generation of germballs. See cerearia and redia.

germ-band (jérm'band), n. See *band². germ-case (jérm'kās), n. A case or sae in-

elesing germs or reproductive cells.

germ-cell, n. 3. In biol., a reproductive cell; an ovum or spermatezeën: opposed to body

germigene (jer'mi-jen), n. [L. germen, a germ, + Gr. -γενης, -producing.] A germarium, especially of cestode and trematode worms. Syd. See. Lex.

germigenous (jer-mij'e-nus), a. [L. germen, germ, + Gr. -γενης, -producing, + -ous.] Producing germs: as, a germigenous gland.

germin, v. See germine, v germinability (jer mi-na-bil'i-ti), n. Capacity of germinating; viability.

The experiments were too limited in number to warrant any conclusion concerning the difference, if any, in the germinability of the heavy and light seed, either as to the time the spronts appeared or the number produced.

Yearbook, U. S. Dept. Agr., 1896, p. 322.

germinable (jer'mi-na-bl), a. Capable of germinating or proliferating; viable.

germinable (jer'mi-na-bl), a. Capable of germinating or proliferating; viable.

It being taken for granted that the selection shall be made only from sound, pure, and germinable stock.

Yearbook, U.S. Dept. Agr., 1896, p. 306.

Germinal area, a part of a germ-cell supposed to be set apart, before development begins, for the formation of a specific part of the future organism. See *germinal continuity. (a) The established fact that since a germ-cell arises by a process of division which multiplies but does not interrupt the continuity of the preexisting cell, and since the new organism arises in the same way, there is not and has not been any break in the same way, there is not and has not been any break in the cells of the body, which are supposed to be out of the line of descent to later generations and unable to produce germ-cells and a serminal portion which gives rise to cells, some of which, sooner or later, give rise to the sexual cells in the body of the organism which arises from the egg, so that inheritance is always from germ-cell to germ-cell, without the intervention of somatic cells. See *komatic cell, *germ-cell. (c) The doctrine that the line of connection between the fertilized egg and the germ-cells of the organism that is produced from the egg is not through the continuity of cells, but through continuity of the hereditary substance or germ-plasm which is transmitted from the egg along certain lines of somatic cells, or germinal paths, to the place or places where the reproductive organs or germ-cells of the new organism are to be formed. According to this opinion the somatic cells are, as such, out of line of descent to future generations, and the germ-plasm which some of them are supposed to contain and transmit is of the nature of a foreign body. See substance of *keredity, *germ-plasm.—Germinal groove. See *groove.—Germinal layer. Same as germ-layer; one of the three layers, ectoderm, nesoderm, or entoderm, from which the embryo develops.—Germinal localization, the supposed localization in

On one view it is supposed that the germ-cell has an architectural organization predetermined before development begins, and that development is in part a "histogenetic sundering" of the pre-existing germinal localization.

Encyc. Brit., XXXII. 212.

Germinal matter, actively living matter. Same as protoplusm. Beale, 1861.—Germinal path, the series of cells which intervenes between the fertilized egg and the germ-cells of the organism that arises from the egg. See *germinal continuity.—Germinal selection. See *selection.

causes or induces germination; specifically, an appliance for testing the vitality of seeds. See

germinating-chamber.

germinating-chamber (jer'mi-nā-ting-chām"ber), n. A box devised to furnish, artificially, conditions of temperature, moisture, and light which are favorable to the germination of seeds for the purpose of testing their vitality by samples. A standard germinating-chamber, adopted by the American experiment stations and the United States Department of Agriculture is made with double copper walls forming a water-jacket, a side door, trays for the

germiparity (jėr-mi-par'i-ti), n. [germipar-ous + -ity.] Reproduction by means of germs or

germ-cells.

germiparous (jer-mip'a-rus), a. germ(en), a germ, + parere, bring forth, bear. The formation would prop. mean 'producing germs.'] 1. Bearing or producing germs.-2 Reproducing by means of germ-cells or germs.

germ-mass (jerm'mas), n. A mass or aggregation of cells which will develop into the whole or some portion of the embryo.

Germo (jer'mō), n. [NL., ⟨F. germon, a popular name of the dolphin and the albacore.] A genus of seombroid fishes, including the longfinned albacore, Germo alalunga, widely dis-tributed in the open seas in warm regions, a large fish with remarkably long ribbon-shaped pectoral fin.

germogen (jer'mō-jen), n. [L. germ(en), germ, + Gr. -γενής, producing.] A syncytium or nu-cleated mass of protoplasm from which the reproductive or germ-cells arise. The germogen is clearly seen in the ovaries of insects.

germ-plasm (jerm'plazm), n. Same as germplasma.—Accessory germ-plasm, h. Same as germ-plasma.—Accessory germ-plasm, the germ-plasm to which, according to Weismann, the formation of new or-ganisms by budding is due. In order to account for the origin from a bud (which at first is part of the body of the organism which produces it) of a new organism which may come, in time, to exhibit the characteristica of the species, to produce germ-cells, and to propagate its kind, Weismann propounds a supplementary hypothesis accord-ing to which somatic cells that are predestined to produce new beings from budg receive germ-dessure from the early new heings from buds receive germ-plasm from the egg in addition to their proper idioplasm. Since begonias and

sea-anemones and many other plants and animals may produce new and perfect representatives of their species from any part of their bodies, it has seemed to many naturalists that this subsidiary hypothesis is, in effect, the sibandonment by Weismann of the whole doctrine of germ-plasm (see below), which is based upon the opinion that germ-cells and body-cells are fundamentally and completely different.—Blastogenic germ-plasm, the germ-plasm by means of which a neworganism is held, by Weismann to be produced from a bud.—Doctrine of germ-plasm, the theory of Weismann concerning the intimate structure of germ-plasm (or ancestral idioplasm, or the substance of inheritance), according to which it is regarded as made up of innumerable biophores, each of which is the bearer of one of the hereditary qualities of the species; these are joined in groups, or determinants, each of which is the bearer of the hereditary qualities of an oryanism and are identified by Weismann with the chromatin granules or microsomata; the ids are again compounded into ids, which are the bearers of the hereditary qualities of an oryanism and are identified by Weismann with the chromatin granules or microsomata; the ids are again compounded into idsnts, each of which is the bearer of a number of possibilities of individual development. The idants are identified with the chromosomes or rods or loops of chromatin. The germ-plasm or ancestral idioplasm alone is supposed to contain all the biophores and determinants of the species, while each somatic cell contains those only that pertain to it and to the cells that it is destined to produce during the development and grow th of the individual organism. Individual development is poing on, the series of cells which are to give rise to new germ-cells is formed and endowed, in addition to its own idioplasm, with ancestral germ-plasm which it transports to the place where the new germ-cells are to arise. This attempt to secount for the biophores which give to the cell its inherited characteristics. Whil

germ-polyp (jerm'pol"ip), n. A polyp produced by budding.
germ-region (jerm're"jon), n. A region of the fertilized egg definitely set apart for the construction of a specific part of the future

But, from the standpoint of casual morphology, it must be asked what determines the arrangement of the different germ-regions in the ovum.

J. Loeb, Biol. Lectures, 1894, p. 49. germ-sac (jerm'sak), n. Same as *germ-case. germinater (jer'mi-nā-ter), n. That which germ-spot (jerm'spot), n. The nucleolus of the germinal vesicle, or nucleus of the unfertilized

egg: the germinal spot.

germ-stage (jerm'staj), n. A stage in the early development of an organism; the state of being a germ.

germ-tract (jerm'trakt), n. The series of cells which constitute the direct line of descent or cell-lineage from the original egg through the developing germ-cells of the embryo to the mature germ-cell that will give rise to another organism. Weismann.

germ-yolk (jerm'yok), n. In embryol., the portion of the yolk which is assimilated by the cells that go to form the *germ-mass (which see): opposed to the food-yolk, which is absorbed by the older embryo or young animal. Owen, 1855.

geromarasmus (ger"ō-ma-raz'mus), n. [NL. ζ Gr. γῆρας, old age, + μαρασμός, wasting. Atrophy of all the tissues due to old age. wasting.]

geromorphism (ger- $\bar{\phi}$ -môr fizm), n. [Gr. $\gamma\bar{\eta}\rho a c$, old age, + $\mu o \rho \phi \eta$, form, + -ism.] Presence in a young or middle-aged person of the characteristics of old age; premature senility.

Geronomite (je-ron'ō-mīt), n. [Sp. It. geronomita (ML. Hieronymita), < Geronomo, < LL. Hieronymus, Jerome.] A member of the monastic community which took St. Jerome as their patron saint.

gerontarchical (ger-on-tär'ki-kal), a. [*gerontarehy ((Gr. γέρων (γερουτ-), an old man, + άρχή, rule) + -ical.] Of or pertaining to government by old men; establishing or setting up

gerontastic (ger-on-tas'tik), a. [gerontast-y + i.e.] In paleon., having the properties of or belonging to senile age in the development get 1, n. 3. In coal-mining, the cutput of a mine get 1, n. 3. In coal-mining, the output of a mine get 1, n. of a colony.

gerontasty (ger-ou-tas'ti), n. [Gr. γέρων (γερουτ-), an old man, + άστυ, a city.] In paleon., a seuile colony (as of corals or graptolites).

gerontatrophy (ger-on-tat'r $\ddot{0}$ -fi), n. γέρων (γεροντ-), an old man, + ατροφία, atrophy.] Same as $\star geromarasmus$.

gerontic (ge-ron'tik), a. [Gr. γεροντικός, ζ γέρων (γέροντ-), an old man.] Having the characters of old age or senility: specially applied to one of the stages in the growth and decline of the individual, bearing characteristics peculiar to itself, but reproducing in part those of the infantile stage.

There are in some groups, especially among parasites, adaptive stages of a retrogressive nature that are not in any sense gerontic. A. Hyatt, Biol. Lectures, 1899, p. 135.

gerontine (ge-ron'tin), n. [Gr. $\gamma \ell \rho \omega \nu$ ($\gamma \ell \rho \omega \nu \tau$ -), an old man, +- ine^2 .] A colorless, crystalline base, $C_5H_{14}N_2$, obtained from the liver and kidneys, especially from those of old dogs. It is isomeric with cadaverine, which it resembles.

gerontism (ge-ron'tizm), n. [geront(ie) + -ism.] Senility or old age considered as a stage in the normal life-history of organisms.

Gerontism, or old age, is marked in its earlier stages in gastropod shells by the disappearance of features characterizing the adult.

Amer. Nat., Dec., 1902, p. 937.

gerousia (ge-rö'si-ä), n. [Gr. γερουσία, < γέρων (γερουτ-) an old man; connected with γήρας, old age.] In Gr. antiq., a council of old men; a senate: especially applied to the senate of Sparta, which was composed of 28 members, to which the two kings were added. Its functions were similar to those of the Athenian boule. See boule2.

gerundial, a.—Gerundial infinitive, an infinitive which has the nature of a gerund or verbal noun.

Gervillia (jer-vil'i-ä), n. [NL., & Gerville, a commune in France.] A genus of prionodesmaceous pelecypods allied to Perna and bearing a multivincular ligament and elongated shell: very generally distributed through rocks of Mesozoic age and continuing

through rocks of most into the lower Tertiary.
gess, v. and n. A simplified spelling of guess.
gest, n. and v. A simplified spelling of guest.
pret, and pp. gestated gestate (jes'tat), v. t.; pret. and pp. gestated, ppr. gestating. [L. gestare (pp. gestatus): see gestation.] To carry in the womb during the gestation.] To carry in the womb during the natural period of fetal development; hence, figuratively, to form and gradually mature (some project) in the mind, to be brought forth in due time.

gestation, n.—Abdominal gestation. See $\star abdom$ pregnancy (which see, under pregnancy).—Mural gestation or pregnancy, a condition in which the ovum has been arrested and its development is taking place in the part of the Fallopian tube which passes through the wall of the uterus.—Tubal gestation. Same as tubal

gestative (jes'tā-tiv), a. [NL. *qestatīvus, < L.

gestare, gestate.] Of or pertaining to gestation: as, the gestative process.
gesticulant (jes-tik'ū-lant), a. [L. gesticulans, ppr. of gesticulari, gesticulate.] Gesticulating. Ruskin.

gesticulative (jes-tik'ū-lā-tiv), a. [gesticu-late + -ivc.] Characterized by or accompanied with gesticulations.

Diodorns Siculus says that they [the Gauls] . . . drank with such violent eagerness as either to stupely themselves to sleep or enrage themselves to madness. He also calls them "extravagantly avaricious" and testifies to their disorderly and gesticulative fits of rage.

Farrar, St. Paul, I. 474, note.

gesundheit (ge-sönt'hīt), n. [G., < gesund, sound in health, + -heit, E. -hood.] Health. - Zur gesundheit, 'to your health,' a good wish addressed by Germans to one who has just sneezed. get!, v. I. trans.—To get a pair of spectacles, in cricket, to fail to score in both innings of a match.—To get it, to 'catch it'; come in for: as, he got it when he was caught. [Colloq.]

was caught. [Colloq.]

II. intrans. To get about. (a) To become known; leak out. (b) To be about again as after an illness or period of confinement to the house.—To get away with, to succeed in carrying off; make away with.—To get back, to return.—To get clear, to regain one's freedom; become free from entanglements; be absolved.—To get forward, to make progress; advance.—To get left, to be disappointed; fail. [Slang.]—To get loose, to become disentangled; succeed in freeing one's self.—To get on. (c) In racing, to atake money on (a horse).—To get on to, to become aware of; 'catch on'; understand. [Slang.]—To get ont. (c) In racing, to escape loss by backing the horse against which one had already bet.—To get up. (d) In cricket, of the ball or the bowler, to rise off the pitch higher than usual; to bump.

during a stated season or period.—4. Gain; wages; specifically, a blacksmith's wages under the Crowley system. [Prov.] get4 (get), n. [Aram. get.] A bill of divorce

36t* (get), n. [Arain. get.] A bill of divorce among the Jews. Like the ketuba, or marriage contract, this document is drawn up in the Aramsic language, uniformly worded and carefully written by a proper scribe. The orthodox form must contain twelve full and equal lines (neither more nor less) to agree with the au-

merical value, in Hebrew of the letters G.T. After certain preliminary ceremonies and questionings by the rabbi, particularly as to whether both parties agree to the divorce, the husband bands the get to his wife in the presence of ten witnesses. In the get is contained the date, the names and surnames of husband and wife and of their fathers, and also the name of the city, and its location (whether near a river or sea). After the first lines containing the date, it runs: . . . "I, N, son of N, of the city of N, situated on the river N, set thee free, my wife N, daughter of N, of the city of N, et cetera. Thou art set free and art at liberty to marry any man whom thou mayst choose. This document from me is a letter of divorcement and liberty according to the law of Moses and larse!"

geta (gā'tä), n. [Jad.] Wooden close wown.

geta (gā'tä), n. [Jap.] Wooden clogs worn out of doors by the Japanese.

getatability (get-at/a-bil'i-ti), n. The quality of being getatable or attainable; accessibility.

getatable (get-at'a-bl), a. Accessible; that may be reached or attained; attainable. [Collog.]

gey, a. See gay¹, 7.
geyser, n. 2. A gas-burning apparatus attached to a bath for the purpose of heating water for the bath.

The victim in this case, a young man, was asphyxiated in his bath by the CO-containing fumes escaping from a badly constructed and unventilated "geyser."

Nature, June 2, 1904, p. 119.

geyserine (gi'ser-in), a. [geyser + -ine1.] Of or pertaining to geysers; originating through the agency of heated waters, as geyserite. Smithsonian Rep., 1899, p. 359. Geyserite terrace. See * terrace1.

g. gr. An abbreviation of great gross.

ghaffir (ghä-fēr'), n. [Ar. ghafīr or hafīr.] A native Egyptian policeman. [Anglo-Egyptian.

gharial, n. See gharrial.

hammedans, a warrior, especially one who has been victorious over infidels; a popular provided with gibs; having lips, or hooks, hero.

ghee, n. 2. The solid fat obtained from the seeds of Madhuca butyracea, a tree found in northern India. It is used as a food, and also for an ointment, and in making soan and candles.

gherkin, n. -Bur gherkin, the small, oval, ruit of Cucumis Anguria, an annual courbitaceous vine distributed from the southern United Statea to the West Indies and Central and South America. It is used as anbatitute for the common cucumber, especially in pickles. Called also b'est Indian gherkin, Jamaica cucumber, and gooseberry-gourd .- West Indiangherkin. Same as bur

ghoom (göm), r. i. To search for big game by wandering alone after dark in a hauut of the animal. [India.]

Then Capt. G. tella about "ghooming" for bears. "Ghooming" (expressive word!) is, it appears, wandering around alone in the dark, and must be a queerish aport. However, after a night spent in thia fashion, (and a bear siain,) you read how the Captain trailed back to his camp and fell asleep.

N. Y. Times, Sat. Rev., Aug. 12, 1905, p. 527.

ghost, n. 9. One who does literary, legal, or artistic work for another, who gets all the credit; one who 'devils' for another.—10. A false line in a diffraction-spectrum cansed by certain periodic irregularities in the ruling of the grating which produces the spectrum. Ghosts usually occur in pairs accompanying a conspicuous line on each side of It and near It. See grating. 11. A red blood-corpuscle from which the

red coloring-matter or hemoglobin has escaped.

Whether this increase of permeability persists when the corpuscles have been reduced to ghouts by the escape of the hæmoglobin I am unable to say.

Jour. Exper. Med., March 17, 1902, p. 267.

Ghost ophthalmoscope. See *ophthalmoscope, ghost-candle (gôst'kan"dl), n. A candle which is kept burning in a death-chamber for the

Gid bladder-worm. See *bladder-worm. glidjee (gid'jë), n. A colonial form of *gidya, gidya (gid'yä), n. [Austral. aboriginal name.] origin, and developed from the Messianic doctrines of Indian prophets who prophesied the return of the dead and the extinction of the whites. These religious Ideas and the related rites originated in Utah and apread as far east as the Missleslppl river. They were most potent about the year

ghost-demon (gost'de"mon), n. In folk-lore, a ghost that has become a demon.

We may trace up from the psychology of the lower races the familiar ancient and modern European tales of balcful ghost-demons E. B. Tylor, Primitive Culture, 11, 113.

ghost-flower (gost'flou'er), n. The Indianpipe: so called with reference to the white-

ghosthood (gost'hud), n. The state of being a

ghosty (gōs'ti), a. [ghost + -y¹.] Like or of the nature of a ghost: as, a ghosty story; a ahostu moon.

ghoulishly (gö'lish-li), adv. In aghoulish man-

ner: with ghoulish eagerness.

giallolino (jäl-lö-lö'nö), n. [It., later giallorino, < giallo, yellow.] A yellow pigment the nature of which is doubtful; perhaps a light yellow other or possibly a sulphid of antimony. Naples yellow, which is assumed by some to be the same as gisllolino, is a mixture of white lead and chrome vello

giant, n. 4. In gold-mining, a large nozle used to direct the powerful streams employed in hydraulic work. See cut under hydraulic.—Waltzing giant, a whirling column of sand gliding along over the ground; a sand-whirl.

giantism, n. 2. Abnormal growth or develop-

ment, especially as regards height.

Lancaster shows how many organisms slide down the phyletic scale and resct to an ever less complex environment. . . . In giantism the human skeleton may revert to a state that suggests that of the gorilla.

G. S. Hall, Adolescence, I. 337.

giantize (ji'an-tīz), v. i. and t.; pret. and pp. giantized, ppr. giantizing. [giant + -ize.] play the giant; make as big as a giant.

gib1, n. 4. (b) The wedge or adjusting-shoe by which wear is taken up at a sliding contact, such as a cross-head moving on guides .- 6. A prism.—7. The hooked mandible of the male salmon or trout which is formed during the

which hold a piece in place, while permitting

it to slide. The gibs are usually so arranged as to provide for taking up wear in the bearings.

gibber⁴ (gib'ér), n. [Native Australian.] A big stone or boulder; an overhanging rock. Australia.]

ibber⁵ (jib'er), n. A balky horse; a jibber. gibber⁵ (jib'ér), n. A baiky norse; a jibber. Gibbera (jib'é-rä), n. [NL. (Fries, 1825), \langle L. gibber, humpbacked.] A genus of pyrenomycetous fungi of the family Cucurbitariace, having black perithecia seated upon a stroma and beset with stiff bristles. The sporea are brown

and uniseptate. G. Vaccinit is parasitic upon twigs of the cowberry, Vaccinium Vitis Idea.

Gibberella (jibe-rel'ä), n. [NL. (Saccardo 1877), < Gibbera + dim. -ella.] A genus of pyrenomycetous fungi of the family Hypocreaceæ, having somewhat dark-colored fleshy perithecia seated either on a stroma or on the surface of the host. The spores are hyaline or yellowish and 2- or more-celled. G. puliearis is common on branches of various trees.

gibber-gunyah (jib/er-gun'yä), n. [Native Australian.] A rock-shelter or aboriginal cave-dwelling. [Australia.]

gibbet¹, n.—Halifax gibbet, an instrument resembling the guillotine, and taking its name from Ilalifax, England, for use in beheading criminals.—The year of the three gibbets, the year 1777, in allusion to the three (gibbet-like) 7z.

Gibbonsia (gi-bon'si-ä), n. [NL., named after Dr. Wm. P. Gibbons, a California naturalist.] A genus of small blennies found among the seaweed-covered rocks along the coast of California. G. elegans is the common species.

Gibb's vector method. See *rector.
gib-plate (jib'plāt), n. A plate or strap which
holds in place the piece to which it is fastened and yet leaves it free to move in a prescribed direction

gift, n.—Indian gift, a gift that may be reclaimed; a gift with a string.—Onerous gift, in law, a gift conditioned upon the performance of something by the donce. gig¹, n. 3. (e) In machine-shop practice, a portable appliance for holding a piece of metal upon a machine and presenting it, successively, in two or more positions, to the cutting-tools: also used to assist in guiding the tools to the work. It is made in many forms and is used upon a great variety of machines. It is commonly employed in making standard parts of machines, tools, or motors. - 5. In policy, a

ness of the whole plant. Also called corpseplant and ice-plant. See Monotropa.

ghost-food (gost'föd), n. Food offered to the ghosts of the dead.

ghosts of the dead.

A ghost-demon that giantized, ppr. gigantizing. [Gr. yiyac (yi)avr-), giant, + -ize.] To cause to appear of giant giant, + -ize.

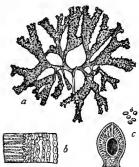
gigantoblast (jī-gan'tō-blast), n. [Gr. $\gamma i \gamma a g$ ($\gamma i \gamma a r$ - $\gamma i \gamma a g$ ($\gamma i \gamma a r$ -), giant, + $\beta \lambda a \sigma \tau \delta g$, germ.] A specially large nucleated red blood-corpuscle of the

megaloblastic type. gigantocyte (jī-gan'tō-sīt), n. [Gr. γίγας (γιγαντ-), giant, + κίτος, a hollow (a cell).] A non-nucleated red blood-corpusele of large size.

Gigantotermes (jī-gan-tō-ter'mēz), n. [NL., ⟨ Gr. γίγας (γιγαντ-), a giant, + NL. termes, a white ant.] An extinct genus of white ants from the Jurassic lithographic slates of Bavaria.

Gigartina (jig-ärti'nä), n. [NL. (Stackhouse, 1809), < Gr. γίγαρgrapestone.] A red seaweed, related to Chondrus or Irish moss. It occurs commoss. It occurs commonly on both the Atlantic and Pacific coasts and is abundant in the temperate and colder waters of Europe. It is used with other algæ for the manufacture of agaragar. agar.

gig-back (gig' bak), n. A quickreturn motion: specifically, a mechanism for returning a saw-



a, plant, one third natural size; b, oss-section of a small portion of fercross-section of a small portion of fer-tile frond, enlarged; c, vertical section of a tubercle and spores from the same, highly magnified.

mill-carriage after the cut has been made, the return travel being at a higher speed than the cutting.

gig-bit (gig'bit), n. A straight cheek-bit with rein-rings at the ends of the monthpiece and side-loops for the reins when using it as a curb.

gig-flock (gig'flok), n. The short fibers which are torn from the fabric during the process of gigging, or napping.

gigglement (gig'l-ment), n. [giggle + -ment.] Giggling.

gigglesome (gig'l-sum), a. [giggle + -some.] Inclined to giggle.

Gigli saw. See *saw. gigliato (jēl-yā'tō), n. [It., < giglio, < L. lilium, lily.] 1. A silver coin of Sicily, of the Knights of St. John of Jerusalem at Rhodes, and of the kings of Cyprus of the Lusignan line. It is named from the terminal embellishment of a cross on the reverse. - 2. A Tuscan gold coin, the sequin, also called the ruspo.

gil, n. and v. A simplified spelling of gill. Gila (hē'la), n. [NL., < Gila (river).] A genus of cyprinoid fishes or chubs, found in the Gila river in Arizona, known as hardtails. The flesh is very dry and fist in flavor; the bones of the tail are long and slender, with a large caudal fin. G. elegans is the common species.—Gila trout, a name sometimes applied to Gila elegans, a cyprinoid fish found in the Gila river; unlike and unrelated to the trout.

gilbert (gil'bert), n. [Named for William Gilbert (1540-1603).] A proposed unit of magnetomotive force having the value 10 = .7958 ampere-turn. 4 77

gilbertage (gil'ber-tāj), n. A name proposed for the magnetomotive force, in gilberts, of a magnetic circuit: suggested by the term voltage for electromotive force. [Rare.]

dilbertia (gil-ber'ti-a), n. A genus of serranoid fishes of the South Pacific Ocean.

Gilbertidia (gil-ber-tid'i-ä), n. [NL., named from Dr. Charles H. Gilbert.] A genus of small soft-bodied sculpins, extremely degenerate in structure, found in the deep waters of the channels of southern Alaska. G. sigolutes is the known species.

gil-cup, n. See *gill-cup.
gild¹, v. t. 7. To electroplate by depositing a layer of gold from an electric bath.—8. To eat the alloy out of (a low-grade gold) by means of an acid, leaving the fine gold on the

surface.
gild², n. 3. (a) In phytogeog., one of several
groups of plants which depend for their existence on other plants. The gilds (G. genassen-schaften), according to Schimper, are four in number:

fit conditions, invade a new region together and in Pound and Clements.

gilding, n.—Chemical gilding, gilding by immersion in a solution of a chemical compound of gold, without using an electric current.

gilding-metal (gil'ding-met al). n. sheet-brass from which cartridge-shells are

gildo (gil'dō), n. [ML. (also congildo), < AS. genylda, < gyld, a gild.] ln Anglo-Saxon law,

a member of a gild.
gilfish (gil'fish), n. The male salmon during the breeding-season.

gil-guy, n.— To make a gil-guy, to perform an unseamanlike piece of work.
Gilia, n. 2. [l. c.] Any

plant of the genus Gilia. For species known by other names see *bird'sother names see *bird'seye, 1 (d), *skunkweed,
and standing-cypress.

Bluegilla, the Californian
Gilia Chamissonis and the
related G. capitata and G.
achilleeyiolia, G. Chamissonis forms masses of bright
days blue in the fields near



rice.

The grain is separated from the straw by thrashing, or by use of wind whenever possible, and is finally separated from the husk by pounding two or three times in a wooden mortar, calted a "lusong," or by making use of a sort of handmill, called guilingan.

Gaz. Philippine Is., 1902, p. 71.

gill¹, n.—Extrapulmonary gill, in some snails, as Aneylus, a gill¹like organ situated within the pulmonary sac and thought to be used for aqueous respiration.—Pericardial gill, in nndibranch mollusks, one of the folds on the dorsal wall of the pedicardium.—Rectal gills, a remarkable arrangement of tracheal gills in the rectum of the nymph of the dragon-fly. The rectum is lined with six double longitudinal ridges of either very delicate papille or lamellæ, both papillæ and lamellæ being provided with very numerous tracheal branches.—Tracheal gills. They are tubular or leaf-like expansions of the hody integiment, richly supplied with tracheal hranches and with a very delicate integument through which the oxygenation of the blood or tracheal air is effected. These gills are common among the aquatic larvæ of certain groups of insects.

gill⁴, n. 3. An English penny or quarter bit. [British Guiana.]

British Guiana.]
gill6 (gil), n. [Compare gillie.] A fellow or 'cove': as, a queer gill. [Slang.]
gill-ale (jil'āl), n. [Compare gill5 and ale-hoof.] The ground-ivy, Glecoma hederacea.
gill-basket (gil'bàs*ket), n. A basket-like gilt-cup (gilt'kup), n. Same as *gill-cup.
framework of cartilage which surrounds the gilty, a. A simplified spelling of guilty.
branchial region in the cyclostomes or lampreys.

Branchial region in the cyclostomes or lampreys.

Branchial region in the cyclostomes or lampreys.

branchiæ of the king-crab. They are borne on appendages two to six of the abdomen and are protected by the enlarged first pair, which are united in the middle

gill-cup (gil' kup), n. A buttercup: usually in the plural. Also gil-cup, gilt-cup, and gilty-

T. N. Gill, an American ichthyologist.] A genus of small fishes of the family Ductylosconidæ, found among the reefs of Florida.

gillenin (gi-le'nin), n. [Gillen + -in².] A substance said to be the active principle of American ipeeac, Porteranthus trifoliatus (Gillenia trifoliata of Mœnch), and other species of Porteranthus. It is emetic.

of the gill-arches and serving to separate food from the water and to keep various small substances from the gills. Nature, Nov. 19, 1903, p. 64.

gill-fissure (gil'fish " ūr), n. Same as gillonening.

opening.

gill-footed (gil'fut"ed), a. Branchiopodous.

gill-fringe (gil'frinj), n. The branchial membrane or gill-filaments of fishes, on the outside of the gill-arches, and covered by the operculum.

gill-head (gil'hed). n. A machine for presented to the gill-head (gil'hed).

The triple are scaled to the gymnodout fishes of the gill-head (gil'hed).

The triple are scaled to the gymnodout fishes of the gymnodout fishes gymnodout fishes of the gymnodout fish

gill-head (gil'hed). n. A machine for preparing flax for spinning. The stricks are combed out into slivers, which are then combined and combed into rovings.

gillingite (gil'ing-īt), n. [Gillinge (see def.) + -ite².] A hydrous ferric silicate, occuring in black masses with earthy fracture, from the Gillinge mine, Södermanland, Sweden.

gilling-thread (gil'ing-thred), n. A two or more ply twisted linen or cotton thread, used for making gilling nets.

gill-intestine (gil'in-tes"tin), n. The anterior, respiratory portion of the alimentary tract in primitive vertebrates, as opposed to the stomach-intestine, or digestive region. Haeckel,

gill-lamella (gil'lā-mel"ā), n. A flat, plate-shaped respiratory organ, as distinguished from a gill-filament; a gill-leaf or gill-leaflet. gill-leaflet (gil'lef"let), n. Same as *gill-la-

metta.

The etenidium is made up of two rows of gill-plates or gill-leafets, attached to a ctenidial axis. Philos. Trans. Roy. Soc. (London), 1903, ser. B, p. 189.

gill-pore (gil'por), n. In Balanoglossus, a minute opening which places the cavity of a gill-pock. pouch in communication with the exterior.

This [gill-pouch] in its turn opens to the exterior by a minute gill-pore. Encyc. Erit., XXVI. 85.

gill-pouch (gil'pouch), n. In Balanoglossus, one of a series of pouch-like cavities arranged in two longitudinal rows posterior to the collar, each communicating with the alimentary canal through a gill-slit and with the exterior through a gill-pore.

In most species of Balanoglossus each gill-slit may be said to open into its own atrial chamber or gill-pouch.

Encyc. Brit., XXVI. 85.

gill-run (gil'run), n. Same as gill⁵, 2. gill-sheet (gil'shēt), n. The layer or sheet formed by the slivers of flax in a gilling-machine.

gill-spreader (gil'spred"er), n. Same as gilling-machine.

gill-teeth (gil'tēth), n. The spikes or teeth which project from the fallers in a gilling-ma-

gill-tuft (gil'tuft), n. A group of gill-filaments or of arborescent branchie, as in certain annelids.

tain annelids.
gillyflower, n.—Dame's-gillyflower. Same as dame's-violet.—Mock gillyflower, the scapwort or bouncing bet, Saponaria officinalis.—Night-scented gillyflower. Same as dame's-violet.—Turkey gillyflower, the African margiold, Tagetes erecta. See marigoidd, 1.
gilly-gaupus (gil'i-gâ'pus), n. A tall, awkward, foolish person. [Scotch.]
gilsonite (gil'son-īt), n. [From S. H. Gilson of Salt Lake City.] A very pure form of asphaltum obtained in considerable quantity in the Uinta valley, near Fort Duchesne, Utah. gilt, n. and v. A simplified spelling of guilt. gilt, n. 3. In archery, the innermost circle of the target; the gold.
gilt-cup (gilt'kup), n. Same as *gill-cup.

axes in the same plane, at right angles to each other; a gimbal.

gimbal-ring (gim'bal-ring), n. A rynd; the piece on which the upper millstone rests and in the center of which is the cockeye, which

rests on the spindle.

gimel (gim'el), n. [Heb. gimel: see gamma.]

The third letter of the Hebrew alphabet (3), corresponding to the English g in go. Its numerical value is 3.

gimlet, v. t.— To gimlet the anchor, to turn the anchor around when it is hanging from the cat-head or hawsen in a

havse-pipe. gimlet-bit (gim'let-bit), n. An auger-bit in ginkgoaceous (ging-gō-ā'shius), a. Belongwhich the cutting edges are drawn into the wood to be bored by a gimlet-point which pierces in advance of the paring-edges. Ginkgoales (ging-gō-ā'lēz), n. pl. [NL. (Engler, 1897), \langle Ginkgo+-ales.] An order

lianes, epiphytes, saprophytes, and parasites. See cpi-gill-filter (gil'fil"ter), n. In ichth., one of the gimlet-wood (gim'let-wood), n. The fluted phate, 1, * liana, parasite, 2 (c), and suprophyte, (b) A slender appendages attached to the inner sides gum or gimlet-gum, Eucalyptus salubris, so group of species which, owing to their like adaptations of the gill-avalues and sarving to separate and suprophyte adaptations. gum or gimlet-gum, Eucalyplus salubris, so called from the twisted, fluted structure of the stem.

> gimp¹, n. 3. In angling, a line in which fine wire is woven, or which is bound or wound with wire to increase its strength .- Gimp lace.

Japan, Spheroides sceleratus.

Japan, Spheroides sceleratus.

ginger¹. I. n.—Amada ginger, Same as mango ginger (which see, under ginger¹).—Broad-leaved ginger, Zinziber Zerumbet. See *awapuhi, 1.—Chinese ginger, the rhizomes of Languas zingiberina (Alpinia zingiberina of Baker), which when boiled and preserved in syrup, or candied, form a well-known sweetmeat.—Egyptian ginger, Caladium Colocasia. See tarol.—Native ginger, in Queensland, Languas cærulea (Helenia cærulea of Robert Brown), so named because the whole plant, as well as the rhizome, has the scent and pungency of ginger.—Wild ginger. (b) Any American species of Asarum. (c) In the West Indies, any one of several species belonging to the genera Castus and Alpinia (Renealmia of many anthors). (Renealmia of many authors).

a.—Ginger brandy, a cordial made of brandy strongly impregnated with ginger.

ginger¹ (jin'jer), v. t. [ginger, n.] To put some 'ginger' into (a person); shake up; re-

gingerbread, n. II. a. Having a fanciful shape, such as is often given to gingerbread; showy but unsubstantial or inartistic: (see gingerbread-work); as, gingerbread fittings on a yacht.

ginger-grass, n.—Oil of ginger-grass. See \star oil. ginger-leaf (jin'jer-lef), n. Same as turkey *mullen.

gingerline (jin'jèr-līn), a. and n. [Also gingelline, gingeline, *gingioline; altered (by assimilation to ginger), from It. giuggiolino, of same meaning, another use of giuggiolino, an East Indian plant, gingili, < Hindi and Marathi jin-jāli, Ar. juljūlan, Sp. aljonjoli, etc.: see gingili and *aljonjoli.] 1. a. Of a reddish-yeliow color; ginger-colored. [Seventeenth century.]

II. n. The color itself; also a cloth of this color. It was among the stuffs supplied to the North American Indians "for breeches and jackets" by the traders. A. M. Earle, Costume of Colonial Times, p. 114.

gingerol (jin' jèr-ōl), n. [ginger + -ol.] A colorless liquid, $C_5H_8O(?)$, with the characteristic pungent taste of Zinziber Zingiber, from the root of which it is extracted.

ginger-plant (jin'jer-plant), n. The tansy,

Tanacetum vulgare.
ginger-roll (jin' jer-rol), n. A whalemen's
term for the folds under the throat and belly of the humpback, finback, and sulphur-bottom whales.

ginger-root (jin'jer-rot), n. The coltsfoot.

gingko-nut (ging'kō-nut), n. A nut or fruit of the gingko-tree, Ginkgo biloba.
ginglymoarthrodia (jing"- or ging"li-mō-är-thrō'di-ä), n.; pl. ginglymoarthrodiæ (-ē).
[NL, < ginglymus + arthrodia.] An articulation which her beth alidio and a light tion which has both a sliding and a hinge motion.

A rynd; the **Ginkgoaceæ** (ging-gō-ā'sē-ē), n. pl. [NL. tone rests and cockeye, which of gymnospermous plants constituting the order *Ginkgoales* and typified by the genus order Ginkgoates and typined by the genus Ginkgo: the maidenhair-tree family. It is very anomalous and archaic in most of its characters, and is remarkable in having reproduction effected through the medium of motile spermatozoids, as in the Cycadaceæ. Ginkgo is the only living genus, but a number of extinct genera, as Jeanpoulia, Czekanowskia, Rhipidopsis, and Whittleseya, carry it back to the Paleozoic and connect it with the Cordaitaceæ.

of gymnospermous plants containing the family *Ginkgoaceæ only (which see). See also Ginkgo, Jeanpaulia, Whittleseya, and *Cordaitales.

gin-mill² (jin'mil), n. A cotton-gin.
ginner² (jin'er), n. One who gins cotton or
elears it from the seed.

The crop, according to the ginners, is 9,996,300 bales, and, according to the canvassing agents, 9,954,106 bales, of an average gross weight of 500 pounds.

N. I'. Tribune, Jan. 6, 1903.

ginnery (jin'e-ri), n. [gin³ + -ery.] An establishment for the ginning of cotton.

The location of the steam-plant for both ginnerg and oil-mill at the latter place removes a potent source of danger from the ginnerg.

L. L. Lamborn, Cottonseed Products, p. 31.

ginny-carriage, n. 2. A low two-wheeled basket-phaeton, hung on coil-springs.

basket-phaeton, hung on coil-springs, gin-pole (jin'pôl), n. A pole, secured by guyropes, to the top of which tackle for lifting heavy weights is fastened.
gin-pulley (jin'pùl'i), n. The sheave or wheel of a gin-block; also, the block itself.
gin-race (jin'rās), n. The circular track made by a gin-borse

by a gin-horse. gin-roller (jin'rō"ler), n. One of the rollers between which cotton is drawn when it is

gin-saw (jin'sâ), n. One of a set of circular saws used in a cotton-gin.

saws used in a cotton-gin.

ginseng, n. Several plants not botanically related to the
ginseng have been so named as possessing similar medical properties, as, in Georgia, the aunflower-like composite
Tetragonotheca heliauthoides.— American ginseng,
Panax quinquefolius (see ginseng), native in the wooded
country from Malne through Canada to Minnesota, Iowa,
and Missouri, and southward, but in the South Atlantic
and Gulf states only in the mountains. In many parts of
this area it is nearly extinct. The root has long been exported (mostly to China) from Canada and the United
States, the export from the latter from 1858 to 1896 exceeding a total value of \$20,000,000, the amount decreasing,
but the price rising during the period. In recent times it



American Ginseng (Panax quinque folius). One fourth natural size.

has been successfully cultivated in the United States. It requires partial shade, which may be afforded either by tree or by lath sheds. The seeds will not germinate till the second season, and not at all if they once become dry. The roots most in demand are large and heavy, with the fewest possible branches except when, by forking, the human form is imitated. According to Korean authority the American ginseng is heert as compared with the Chinese. In China it is graded below the Korean, apparently about with the 'native.' It is little esteemed in medicine in America.—Blue ginseng, the blue cohosh, Caulophyllum thalictrodes.—Horse-ginseng, the lorse-gencian, Triosteum perfoliatum.—Japanese ginseng, that produced in Japan: graded lowest in China, and regarded as comparatively inert. It is said to be frequently adulterated with the root of Campanula glauca, etc.—Korean ginseng, it hat produced in Korea, chiefly under cultivation: it is graded next to the Manchurian and is similar in its properties. The cultivated root is said to be smaller than the san-sam or wild ginseng.—Native ginseng, in China, a third grade grown near the borders of Korea, said to be used mainly to adulterate the Korean ginseng.—White ginseng, Same as horse-kpinseng.—Yellow ginseng. Same as blue *ginseng, referring probably to the color of the root.

Giottese (iot-tes'), a. [Giotta di Bondone (1276—

Giottese (jot-tes'), a. [Giotto di Bondone (1276-1337).] Of or pertaining to Giotto, or resembling his work.

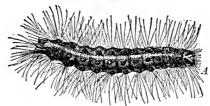
Giottese frescoes of the Franciscan legends. N. and Q., 10th ser., L 220.

gipsy-combs (jip'si-komz), n. The wild teazel,

Dipsaeus sylvestris.
gipsy-flower (jip'si-flou"er), n. The hound'stongue, Cynoglossum officinale.

gipsy-moth, n. Its larva is very destructive to the berry-girdler.
foliage of orchard, shade, and forest trees. A naturalist, Girella (ji-rel'ä), n. [NL., for *Gyrclla (?), <





Gipsy-moth (Porthetria dispar) A, larva; B, female moth. Slightly reduced. (After Ratzeburg.)

experimenting with this insect at Medford, Mass., in 1869, accidentally allowed it to escape, and it has become

experimenting with this insect at Medford, Mass., in 1869, accidentally allowed it to escape, and it has become thoroughly established in the country around Boston, where it has done much damage.

gipsy-rose (jip'si-rōz), n. Same as Egyptian rose (which see under rose!).

gipsy-weed (jip'si-wēd), n. 1. Same as bugleweed.—2. The speedwell, Veronica officinalis. giraffe, n. 5. Same as *giraffe-fever. Buck, Med. Handbook, III. 400.

Giraffe camel giraffe-necked camel See

Giraffe camel, giraffe-necked camel. See

giraffe-fever (ji-raf'fe"ver), n. Same as dengue. giraffesque (ji-raf-esk'), a. [giraffe+-esque.] Giraffe-like in coloration or height.

Protective coloration in large animals is illustrated by the Somali giraffe (well shown by one of Lord Delamere's photographs of a giraffesque thicket).

Nature, April 14, 1904, p. 555.

giraffine (ji-raf'in), a, and n. **I.** a. Resembling a giraffe; giraffe-like.

Professor Ray Lankester has diagnosed it [the Okapi] as a giraffine animal. Pop. Sci. Mo., March, 1902, p. 429.

II. n. A giraffe-like animal. [Rare.] It [the Okapi] is a giraftine, horned in the male. Rep. Brit. Ass'n Advancement of Sci., 1902, p. 625.

gird1, n. 2. Twist, used for binding together the fibers of yarn in the process of spinning. C. Vickerman, Woollen Spinning, p. 296.

C. Vickerman, Woollen Spinning, p. 296.
girderl, n.—Equivalent girder, in naval arch., a hypothetical girder whose flanges are equal to the decks and bottom of a ship and whose web is equal to the sidea and other vertical parts; used in calculating the longitudinal strength of a vessel. White, Shanual of Naval Arch., p. 348.—Half-lattice girder. See **lattice-girder.—Open-web girder, a built girder in which the web is composed of a framework like a truss with struts and tles. See *veb, 5 (d).—Sandwich girder, a girder built up with an iron web-plate between wooden beams, the whole being bolted together.—Skeleton girder, a latticed girder; a girder having an open, braced, or latticed web.—Z-girder, a girder of which the cross-section resembles the capital letter Z; either a single rolled section having a web and one flange on each side, or a built-up section made of a web-plate and an angle on one side at the bottom.
girderage (ger'der-āj), n. [girder + -age.] A

girderage (ger'der-āj), n. [girder + -age.] A group or system of girders; girders collectively; the total number of girders nsed.

girder-beam (ger'der-bem), n. Same as gir-

derl, 2. Also called girth-beam. girder-rail (ger 'der-rai), n. A railway-rail having a deep web, flat base, and wide and shallow top, adapted to wheels with small flanges. It is used in electric railroads where the rails must be laid in a paved street or asphalted or macadamized road. girdle¹, n. 10. A ring made round the trunk of a tree by the removal

of the bark either purposely or accidentally.—11. In earthworms, the eingulum or clitellum.—Neptune's girdle, in med., a form of wetpack applied to the upper part of the abdomen.—Pin and girdle. See *pin!, girdle-pain (gèr'dl'pain), n. A painful girdle-gameticum.

sensation. girdle-sensation (ger'dl-sen-sā"shon), n. A feeling of constriction as if a belt were drawn closely round the body: a symptom common in certain diseases of the spinal cord.

girdle-worm (ger'dl-werm), n. Same as *cran-

L. gyrus, gyre, +-ella.] A genus of perch-like fishes of the family Kyphosidæ, found on both shores of the Pacific. The species are herbivorous, feeding on plants by means of their movable incisors. G. nigricans is the greenfish of the coast of California.

Girellinæ (jir-e-li'nē), n. pl. [NL., < Girella + -inæ.] A subfamily of fishes typified by the genus Girella.

girl, n.—One's best girl, one's sweetheart. [Colloq., U. S.]—Hired girl, a domestic maid-servant.—Second girl, a domestic servant whose duties are chiefly housework and waiting at table, the cook being considered 'first girl.' [Colloq., U. S.]—Summer girl, one of the young ladies who congregate at the summer resorts. [Colloq., U. S.]—

girling (ger'ling), n. Same as gilling². girn² (gern), n. [A metathesis of grin².] A trap or snare for catching animals, birds, etc.:

girn² (gern), v. t. [Scotch.] To entrap or ensuare by, or as if by, a girn. [Scotch.] giro (jō'rō). n. [It., $\langle L. gyrus$: see gyre.] A round; a turn; a short tour.

Our days here are passed quite deliciously. We see a few beautiful pictures or other objects of interest, . . . and afterwards we have a *giro* in our gondola, enjoying the air and the sight of marvellous Venice.

George Eliot, in Cross, Life of George Eliot, 111. 329.

girofle (zhē-rō'fl), n. [F.: see gilluflower.] The French for clove4.—Essence of girofle, oil of cloves. giroflée (zhē-rō-flā'), n. [F. giroflée, gillyflower.]

1. The clove-pink, a species of Dianthus.

Out of the rich red soil underneath the trees are springing violets and narcissus and giroftés.

The Outlook, Sept. 2, 1899, p. 65.

A basic coal-tar color of the azoniumchlorid type. It does tannin-mordanted cotton a reddish violet. Also called methylene-violet and fuchsia.

girouette (jir-ö-et'), n. [F. girouette, earlier gyrouette, gyrouett, prob. < It. giro (< L. gyrus), a turning, + -ouette as in pirouette, a top.] A weathercock; hence, one who is given to frequent change, as in opinions, purpose, etc.; an inconstant person.

girt¹ (gert), n. A beam: a small girder; a erosspiece in a frame. [Colloq.] girt² (gert), v. t. [girt², n.] 1. To measure or have a girth of: as, the tree girts eight feet. -2. To measure by a girding-line.

girth, n.—Combination girth, a harness girth fitted with loops and buckles at each end: a substitute for the two girths.—Pitzwillam girth, a riding-saddle girth composed of one broad piece of web, with two buckles at each end. each end.

girth, v. t. 2. To encircle or surround with a measuring-line, as in measuring moldings, etc.

girth-beam (gèrth'bēm), n. A girder. girth-stretcher (gèrth'strech#er), n. A device for stretching saddle-girths. girth-web (gèrth'web), n. The strong webbing of which girths are made.

girt-line, n. 2. A boundary or bounding line.

— Hammock girt-lines (naut.), lines on which scrubbed hammocks are stoped up to dry.

girt-wheel (gert'hwel), n. The narrow drum under a hand-press which winds and unwinds

the leather bands which move alternately in and out the bed of the press which upholds gisement¹ (jīz'ment), n. Same as *gistment or agistage (which see).
gisement² (zhēz-mon'), n. [F., < giser, lie.]

The way in which a thing lies; position; bearing.

Gisortia (ji-sôr'ti-ji), n. [NL., < (†) F. Gisors, a town in France.] A genus of platypodons gastropods from the Eocene Tertiary rocks. belonging to the family Ovulidæ and characterized by large, thick shells with short convolute spire.

Vointe spire.

Gissocrinus (ji-sok'ri-nus), n. [NL., ζ Gr., γείσσον, γείσσον, eaves, cornice, + κρινον, lily (see crinoid).] A Paleozoic genus of fistulate crinoids belonging to the family Cyathocrinidæ. They have a short calyx with a long, laterally folded ventral sac and regularly bifurcating

gist³ (jist), v. t. An aphetic form of agist

(which see) gistment (gist'ment), n. An aphetic form of

agistment. gitana (hē-tä'nä), n. [Sp., fem. of gitano.] A

Gipsy woman.

Gipsy woman.

Gipsy woman.

Gipsy woman.

Gipsy.

cockle, Lychnis (Agrostcmma) Githago.



githagism These seeds contain a poisonous sapotoxine-like substance, and are regarded in Europe as the cause of the chronic poisoning or disease of man and animals which is known as githagism.

Yearbook U. S. Dept. Agr., 1900, p. 307.

Gitocrangon (git-ō-kran'gon), n. [NL., \langle Gr. \rangle $\varepsilon\iota \tau \omega r$, a neighbor, $+ \kappa \rho a \rangle \gamma \omega v$, a shrimp or prawn.] A problematical fossil described as a genus of decapod crustaceans from the Upper Devonian rocks of Thuringia.

Giton (gi'ton), n. [NL., ζ Gr. γείτων, a neighbor, neighboring: prob. (like γείος, adj., indigenous) ζγη, earth, land.] A genus of freshwater eel-like fishes found in the waters of Brazil. They belong to the family Gymnotidæ. giulio (jö'lyō), n. [lt., < L. Julius.] A papal silver coin, one tenth of a scudo: apparently

so called from Pope Julius II.

giustina (jös-te'nä), n. [It., < L. Justina.]
A Venetiau silver coin of the value of 11 lire. Glustina maggiore, a Venetian silver coin equal to 100 soldi: first struck in 1571, and named from St. Giustina, on whose name-day (Oct. 7) the hattle of Lepanto was fought in that year.—Giustina minore, a Venetian silver coin also imitated by Cesare d'Este, Duke of Modena (1597–1628).

modena (1891-1628).
giv, n. and v. A simplified spelling of give.
give, v. I. trans.—Give way together! (naut.), an
order for all the carsmen in a boat to pull in unison.—To
give it hot, to chastise severely. (Slang.)—To give
time, to extend the time, as for the payment of a debt or
the fulfilment of a contract.—To give umbrage, to

II. intrans.—To give and take, to he as ready to give as to receive; even up by fair exchange, as of courtesies, bard knocks, etc.; give tit for tat.—To give best, to give in; give up the contest; acknowledge superior-

give in; give up the contest; acknowledge superiority. [Australia.] give-ale (giv'al), n. [give (AS. gifu), gift, + ale.] A memorial festival formerly observed annually in some parts of Kent, England, the cost being defrayed from funds which had been bequeathed for the purpose.

The giveales . . were the legacies of individuals, and . . entirely gratuitous; though some of them might be in addition to a common giveale before established in the parish . . "I will that my heires shall have five yards of land lying in Longfield, and five yards in Pettefield, upon condition that they make a yearly geveail on Trinity Sunday of 5 bushels of wheat, and 1 seame of barley. . . ."

Archeologia, XII. 13, 14.

give-and-take (giv'and-tak'), n. and a. I. n. The practice of giving and taking on equal or fair terms; a mntual making of concessions or allowances: exchange, as of ideas, civilities, repartee, jests, banter, etc.; a giving of tit-

II. a. Characterized by a spirit of giving and taking on fair terms, as in evening np advantages and disadvantages; marked by

mutual concession: as, a give-and-take policy.

— Give-and-take plate, in horse-racing, a prize for a race in which the horses carry weight according to their height, those above a certain standard carrying more than those below that standard.

give-away (giv'a-wā"), n. 1. An inadvertent or unconscious betrayal of ene's self or one's secrets. [Slang, U. S.]—2. A game of drafts or checkers in which the players endeavor to give away their men, the moves being such as to ferce the adversary to take them; the losing game of checkers.

Givetian (ji-ve'shian), a. In geol., noting a subdivision of the Devonian system in Belgium and the north of France, named In geol., noting

from Givet. It constitutes the upper part of the Middle Devonian, and is equivalent to the Stringocephalus limestone of the Eifel, and the Torqusy and Plymouth limestones of Devonshire.

gizzard-fish (giz/ard-fish), n. A whitefish, Coregonus clupeiformis, found in the Great Lakes.

An abbreviation of Grand Lodge. glabellad (glā-bel'ad), adv. [glabella + -ad3.]

Toward the glabella.

Toward the glabella. glabello-inial (gla-bel"ō-in'i-al), a. In anthrop., pertaining to both the glabella and the inion: as, the glabello-inial length, the distance between the glabella and the inion. glabello-occipital (gla-bel"ō-ok-sip'i-tal), a. In anthrop., pertaining to beth the glabella and the occiput; as, the glabello-occipital length, the maximum length of the head measured from the glabella to the ecciput. measured from the glabella to the ecciput.

glabreity (glā-brē'i-ti), n. See glabrity. glabrescent (gla-bres'ent), a. [glabrous + -escent.] In bot, becoming glabrous, as organs that are hairy in the bud or young state and glabrons with age.

glacial, a. 3. Of or relating to a glacier or an glacier-grain (glā'shier-gran), n. 1. The ice-sheet.—4. In chem., assuming the solid granular texture of glacier-ice.—2. One of state as a result of concentration: used chiefly of certain acids (as acetic, sulphuric, and I-haspheric acids) which are commonly seen as glacier-ice (glā'shier-īs), n. The ice of a glacier-ice (glā'shier-īs), n. glacial, a. 3. Of or relating to a glacier or an

liquids but solidify at low temperatures when concentrated by removal of water. In the case of phosphoric acid, water is not only removed by evaporation but is also evolved by the chemical decomposition of orthophosphoric acid, thich is thus converted into metaphosphoric acid, the epithet ydacial heing applied to the latter.—Croll's glacial theory, an attempt by Croll to account for the existence of a glacial period by the known changes in the eccentricity of the earthstorbit. The maxima occur once in 100,000 to 200,000 years. At such periods there is an increased difference in the relative lengths of whiter and summer. At the extreme the winters are 33 days longer than the summers and the sun's distance from the earth is 99,300,000 miles. It is argued that the extreme cold of such long winters might not be neutralized by the summer temperatures sufficiently to melt away the accumulated snow and ice.—Glacial boundary, the line which separates the intra-placial from the extraglacial field.—Glacial climate, deposit, erosion. See **elimate, ctc.—Glacial humor, vitreons humor.—Glacial hypothesis, glacial theory, wireons humor.—Glacial hypothesis, glacial theory, of drifts and erratic boulders and for the scoring of the underlying rock-surface by the former extension of glaciers and ice-sheets: opposed to the **iceberg theory.—Glacial lake. See **lake!—Glacial mal, rock-dour formed by the grinding action of a glacier or coming from a glacier.—Glacial mill. Same as moulin.—Glacial period. Same as *glacial open of, which see, under glacial scoring, the scratching and grooving of a rock-surface by glacial erosion.—Glacial scoring, the scratching and grooving of a rock-surface by glacial erosion.—Glacial seratches, lines scored upon a rock-surface by sand and gravel which are dragged over it by a glacier. See *stration, 2.—Glacial terrace.

Glacial pigaier. See *stration, 2.—Glacial terrace.

See **terrace!.—Glacial theory. See **glacial +-ism.]

The scientific theory of the occurrence and ac-

glacialism (glā'shial-izm), n. [glacial + -ism.] The scientific theory of the occurrence and ac-

glacialized (glā'shial-īzd), a. Having been

affected by glaciers.
glaciate, v. t. 4. To act upon by a glacier.
glacic (glā'sik), a. [L. glacies, ice, +-ic.] Same

as glacial.

glacic (gla'sik), a. [L. glacies, 1ce, +-ic.] Same as glacial. glacier, n. 2. A vessel for holding ice and cooling wine.—Alpine glacier, a glacier of the type now characteritic of the Alps; a glacier which is fed by snow and newe gathered in an amphitheater and moving down a valley; a valley glacier.—Cliff glacier, a glacier which occupies a relatively small depression in the side of a mountain or in the escarpment of a plateau and rarely descends much below the snow-line. Chamberlin and Salisbury, Geol., I. 242.—Continental glacier, a sheet of ice which covers a large part of a continent, such as that which now covers Greenland, or that which covered northeastern North America in the glacial period; an ice-sheet.—Dead glacier, a stagmant glacier; a fossil glacier. J. Geikie, The Great Ice Age, p. 705.—Fossil glacier, in geol., a term which has been applied by Toll and other Russian geologists to the remains of the Pleistocene ice-sheet on the coastal plains of northern Siberia. These ice-beds lie under a thin layer of soil which bears a vegetation, rest upon a ground moraine, and may be interbedded with frozen clays. From the frozen soil above this old ice carcasses of the mammoth and the hairy rhinoceros have been ohtained, retaining flesh, skin, and hair. Also called stone-ice, rock-ice, and dead-ice.—Hanging glacier, a glacier of small size on so steep a slope that the ice breaks off and falls from its lower end. Geikie, Text-book of Geol., p. 540.—Laurentide glacier, a glacier originating in the Laurentian highland of Canada.—Malaspina glacier, a predmont glacier, a pledien originating in the same and the sea, extending over an area of 1,500 square miles; hence, any piednont glacier.—Piedmont glacier, the lower outspreading part of a large glacier on low land, fed by alpine glaciers from neighboring mountain valleys. The Malaspina glacier of Alaska, near Mount St. Elias, is of this type.—Platean glacier, serviny, and is usually bordered or fringed by one or more descending valley from a higher glacier, san glacier, n. 2. A vessel for holding ice and

glacier-bed (glā'shier-bed), n. The surface over which a glacier moves. J. Geikic, The Great Ice Age, p. 64.

glacier-burst (glā'shier-berst), n. The sudden release of a reservoir of water which has been impounded within or by a glacier. The melting of the ice may set free vast and destructive floods. Nature, Sept. 29, 1904, p. 541. glacier-face (glā'shier-fās), n. The ice-cliff

glacier-face (gla'shier-fas), n. The ice-cliff at the front or lower end of a tide-water gla-

Nothing but glacier-face lined the coast, and the ice flowed down in curving lines as far as the eye could reach.

Geog. Jour. (R. G. S.), XI. 122.

liquids but solidify at low temperatures when cier. It is peculiar in having a granular crystalline structure unlike that of pond-ice. glacierist (glā'shier-ist), n. [glacier + -ist.]

One who is specially versed in the knowledge of glaciers.

glacier-lake (glā'shier-lāk), n. A lake formed between the margin of a glacier and an encircling rim of land. A glacier-lake may be produced by the advance of an icc-front against the course of natural drainage.

The former occurrence of a number of glacier-lakes or "extra-morainic" lakes, such as are produced whenever a glacier or ice-sheet advances against or across the general slope of a country and impounds the natural drainage.

Nature, Aug. 28, 1902, p. 424.

glacier-milk (glā'shier-milk), n. The whitish water of a stream which issues from a glacier and is colored by suspended silt or rock-flour.

glacier-mill (glā'shier-mil), n. Same as moulin. J. Geikie, The Great Ice Age, p. 310.

glacier-silt (glā'shier-silt), n. Extremely fine

rock-waste or rock-flour ground by a glacier

from its bed, washed out by a glacial stream, and deposited in quiet water beyond. glacification (glas"i-fi-kā'shon), n. [L. glacies, ice, + -fication.] 1. The process of changing water or snew into ice.—2. The fermation of glaciers. Tyndall.

glaciofluvial (gla-shiō-flö'vi-al), a. [L. glacics, ice, + fluvius, river: see fluvial.] Of or relating to processes or deposits which involve the action of glacial streams or of streams heading glaciers. Amer. Geol., May, 1903, p. 285. glaciofinviatile (glā-shiō-flō'vi-a-til), a. Same as *glaciofluvial.

glaciomarine (glā-shiō-ma-rēn'), a. [L. glacies, ice, + marinus, of the sea.] Of or relating to processes or deposits which involve the joint action of glaciers and the sea, or the action of

glaciers in the sea.

glaciometer (glā-shi-om'e-ter), n. L. glacics. ice, + Gr. μ \$\text{ic}\text{pov}, meter.] Any device or object which serves to measure the movement of a glacier.

glade¹, n.—Cedar glades. See ★cedar brakes.

gladiolar (glā-dī'ō-lār), a. [gladiolus + -ar³.] Relating to the gladiolus, or the portion of the breast-bone lying between the manubrium and the xiphoid eartilage. [Rare.] gladkaite (glad'ka-it), n. An eruptive rock forming dileg in the Cladkia Sorte indexe

gladkaite (glad'ka-it), n. An eruptive rock forming dikes in the Gladkaia-Sopka ridge of dunite at the head-waters of the Travianta river, in the northern Urals. It consists of plagio-clase (oligoclase-albite) in largest amount, together with hiotite, muscovite, hornblende, epidote, magnetite, and apatite. Duparc and Pearce, cited in Nature, June 22, 1905, p. 192.

Gladstonianism (glad-stō'ni-an-izm), n. The pelicy or policies of W. E. Gladstone (1809-98), a Liberal statesman of Great Britain.

gladsum, a. A simplified spelling of gladsome. glady (glā'di), a. [glade + -y¹.] Having glades; abounding in glades.

glairigenous (glar-ij'e-nus), a. [glair + -i- + -genous.] Giving rise to glairin er mucus. glam², n. 2. A clamp used in the old method of castrating horses.

glamourous (glam'o-rus), a. Full of glamour

or alluring charm.

glance, n. 6. In railroading, an incline or shoot made of timber, erected on a mountainside and designed to cause snow which slides down the mountain to glance or turn aside from the track. [Northwestern U. S.]—7. In cricket, a stroke by which, instead of being hit, the ball is allowed to strike the bat and to be deflected from it, usually to the leg side; a glide.—Northern glance. A sailors' name for the aurora borealis.

glance, v. t. 4. In metal-working, to polish very highly; burnish; planish.—5. In cricket, to allow (the ball) to meet the bat and to be deflected from it, usually to the leg side.

glance-cobalt (glans'ko"bâlt), n. Same as cobalt-glance or cobaltite.

glance-fish (glans'fish), n. A common name of Lampris luna, a cosmopolitan fish found in open waters of the Atlantic and Pacific; the onah.

glance-pitch (glans'pich), n. A lustrous bituminous mineral allied to asphaltum and bitumen.

glancer (glan'ser), n. Same as *fender-skid.
glance-stroke (glans'strok), n. In ericket, a
stroke by which the ball is turned in its
course, usually to the leg side, by playing it
with the surface of the bat held stantwise. See \star glance, n., 7.

gland, n., 4. (c) The sliding member of an engine stuffing-box, by which the packing is compressed against the rod by endwise pressure from the bolts or nut.—5. In founding: (a) A elamp; a hooked bar used for elamping together the parts of a molder's flask. (b) A plate through which the ends of a bindingband or clevis pass; a elip.—Accessory glands of the vasa deferentia, in entime, certain glands, differ-ing greatly in shape and number with the different orders band or clevis pass; a elip.—Accessory glands of the vasa deferentia, in entom., certain glands, differing greatly in shape and number with the different orders of insects, whose secretions mix with the aemen or form apermatephores. In many insects there is only a single pair; in othera there are many; in some they are branched.—Adhesive glands, in entom., certain glands, occurring in bees and ants, connected with the poison-glands and corresponding to the tubular glands of the Orthoptera which secrete the glue with which the egga are fastened together.—Adrenal gland. Same as adrenal, n.—Albumin glands, glandular developments in the ventral body-wall in the generative segments of some earthworms. They probably secrete the albuminous matter found in the cocoon. Also called capsulogenous glands.—Alkaline glands, in entom., those glands which in the aculeate Hymenoptera, as the bees, secrete a feebly alkaline substance which, with the acid product of other glands, makes the poison of the sting.—Alluring glands, in entom., scent-glands, occurring in the males of certain insects, the odor from which is supposed to attract or excite the females. They are more abundant in the Lepidoptera, but have also been found in certain Trichoptera and Orthoptera. The androconia may be alluring, and alluring glands may occur in various parts of the abdomen or in the front or hind legs. In the Lepidoptera they are usually connected with tufts or pencila of hair, concealed or unconcealed, which serve te distribute the odor.—Anal glands. (a) and (b). See anal. (c) In entom., paired or single glands situated near the rectum and usually connected with it. The secretion of these glands is frequently fetid in odor, and they then function as repugnaterial organs.—Antennal gland, the gland upon the basal joint of the second antenna in most Crustace. It seems to be wanting only in the Isopoda.—Antennary gland, in Arthropoda, the green-gland, an organ at the base of each antenna by which the function of renal excretion is performed.—Blandin'

other lamellibranchs are anchored to foreign bodies.

— Caudal gland, a gland situated near the base of the tail; in mammals, same as perineal *yland.

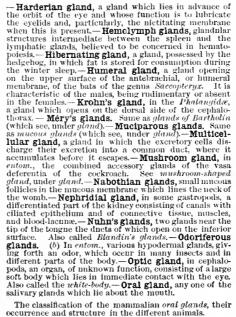
— Cervical glands. (a) The lymphatic glands in the neck. (b) In Uncinaria, a pair of pearahaped bodies of nuknown function, which lie one or the side of the pharynx and probably open externally near the month.

— Conglobate gland. (b)

externally near the month.

—Conglobate gland. (b)
In entom, a gland, the
function of which is not
known, connected with
the male genitalia of the
cockroach and opening
separately from the ejaculatery duct.—Corrosive
glands, in entoms, certain
anal glanda possessed by
the adults of some
beetles neartleviarity cer-

known, connected with the male genitalia of the cockroach and opening separately from the ejaculatory duct.—Corrosive glands, in entom, certain anal glands possessed by the adults of some beetles, particularly certain Carabidæ, from which a corrosive fluid la expelled as a means of defense. Brachinus, Agonum, Pherosophus, Galerita, Helluo, Paussus, Ozema, Cerapterus, Staphylinus, Stenus, Ocypus, Lacon, and other genera possess these glands, and Mormolyce phyllodes, a species of Java, is said to accrete a fluid so corrosive that it paralyzes the fingers for twenty-four hours.—Coxal glands, (a) In Peripatus, as series of pairs of glands lying in the lateral compartments of the body-cavity, their ducts opening on the lower surfaces of the legs. They vary in the two sexes and in different species. (b) Eversible repugnatorial glands situated in the cox a feertain of the lower insects, as the Sumphyla and Synaptera. See defensive *glands.—Defensive glands, certain eversible glands often found among the Insects, which are also called repugnatorial glands. They are situated in msny different parts of the body and are usually simple evaginable hypodermic pouches which when everted give forth a disagreeable odor which is supposed to be protective. See repugnatorial pores, under repugnatorial.—Dermal glands, the skin-glands of insects. The function of some of them is unknown; others secrete hairs, spines, wax, honey-dew, or other substances.—Eversible glands, certain glands, ocertain glands, ocertain glands, or server the silken fluid is formed.—Frontal glands.—Fetid glands, dishered a disagreeable odor. See defensive *glands.—Fetid glands, ocertain varying parts of the body, which secrete a liquid having a disagreeable odor. See defensive *glands.—Fetid glands, ocertain glands, ocertain glands, or not proved to the soundar.—Fetid glands in the great omentum near the greater curvature of the stomach.—Gland of Dufour, the alkaline glandaluar organ of the poison-apparatus of bees and other aculeate Hymenoptera, and of some



The classification of the mammalian oral glands, their occurrence and structure in the different animals.

Science, June 28, 1901, p. 1025.

The classification of the mammalian oral glands, their occurrence and structure in the different animals.

Science, June 28, 1901, p. 1025.

Ovold gland, in echinoderms. Same as **arial organ.—
Parapodial gland, in polychætous annelids, one of the collections of gland-cells found on the lobes of the parapodia.—Pedal gland, in gastropods, one of the mucus-secreting glands of the foot.—Pedipalpal gland, in many Arachnoidea, certain glands in the second pair of appendages. They are regarded as poison-glands in some genera, in others as salivary glands, and in others as spinning-glands; but little is known about their function.—Pericardial gland, in most mollusks, a glandular differentiation of the endothelial wall of the pericardium, having perhaps an excretory function. Also known as *Keber's organ.—Perineal gland, a gland opening in the perineum. It is from such a gland, lying just beneath the tail of various species of civet cats, that the civet of commerce is obtained. See civet!, !.—Rectal glands. (b) In gephyreans, the glands near the anal opening.—Repugnatorial glands. Same as defensive *ylinds. Serous gland, a salivary gland which produces a thin serous secretion.—Setiparous glands, in annelids, glands which produce the setæ, or which may be modified inte spinning-glands or other structures.—Skene's glands, two minute tubular glands in the floor of the fenale urethra.—Spermiducal gland, in earthworms, a glandular appendage attached to and opening into the vas deferens or sometimes opening independently to the exterior. Also known as prostate.—Splenolymph glands, the more common variety of henolymph glands, the more common variety of henolymph glands, of rounded form, found in many parts of the body.—Unicellular gland, a gland which consists of a single cell, or one in which the ducts through which the exerction escapes are parts of the bodies of the exerctory cells: contrasted with a gland in which the exerctory cells: contrasted with a gland in which the exerctory cells: contrasted with a gland in which t

On either side of the animal, and lying partly in the longitudinal muscle-layer, partly in the gelatinous connective tissue within the body of the animal, is a well-marked layer of gland-cells.

Proc. Zool. Soc. London, 1901, II. 93.

Glanders bacillus. See *bacillus. gland-packer (gland'pak"er), n. A workman who packs the gland-box of an engine or ma-See gland, 4. chine.

chine. See gland, 4.
glandula, n.—Glandulæ concatenatæ, a chain of lymphatic glands situated in the deeper attractures of the neck and extending from the skull to the clavicle. Jour. Trop. Med., July 1, 1903, p. 208.
Glandular cancer. Same as adenocarcinoma and adenosnrcoma.—Glandular epithelium. See *epithelium.—Glandular organ, in echinoderms. Same as *axial organ.

glanduliform (glau 'dñ-li-fôrm), a. gland in appearance or function. Syd. Soc. Lex. . glanduligerous (glan-dū-lij'e-rus), n. [NL, glandulu, gland, + L. gerere, bear.] Glandbearing; glandular: as, the glanduligerous edge of the mantle of a mellusk.

glanz-gold (glänts' gölt), n. [G.] A cheap style of ceramic gilding; it comes from the belin in a bright test a sub-requires no further

kiln in a bright state and requires no further Treatment.

glare-wormt (glar'werm), n. Same as glowworm.

glass, I. n., 1. In petrog., glass is the natural product of the rapid cooling of igueous magmas, and in large masses is known as obsiduan, pitchstone, and pumice. It may be colorless or of various colors, as white, yellow, orange, red, green, and black. It forms the ground-mass of many volcanic rocks, being sometimes recognizable by the unaided cye, but often only microscopically. Glass base is the

name given to it when it forms the matrix for microscopic crystals in the ground-mass of a rock.— Appert glass. See the extract.

"Appert" glass, which, by reason of its composition and method of manufacture, can be made into vessels of any symmetrical shape possessing unusual strength and resisting perfectly the action of acids, electricity and climatic changes.

Electrochem. Industry, April, 1904, p. 165.

and method of manufacture, can be made into vesses of any symmetrical shape possessing unusual strength and resisting perfectly the action of acids, electricity and climatic changes.

Electrochem. Industry, April, 1904, p. 165.

Blown glass, class which is shaped by the blowing process.—Chipped glass, a variety of rough sheet-glass used for particions or screens. The sheets are first depolished by subjecting them to the sand-blast. The ground side is then covered with a coating of the best grade of liquid glue. When dry the sheets are placed on edge in frames in the chipping-room, where the temperature is raised to the proper decree by coils of steam-pipe be meath. As the glue is cracked by the heat it curls up in small pieces, drawing with it surface chips from the glass, to which it firmly adheres, leaving a beautiful pattern of ferm-like tracery. About thirty-six hours are required to complete the peeling process.—Continuating glasses, in photop,, glasses tinged with red or yellow, which possess the power of continuing the darkening of the photograph after it has been removed from the camera and placed under them. This action was discovered by A. E. Becquerel.—Copper glass. Same as Alexandria blue (which see, under blue).—Corrugated pattern, for use in thors, roofa, and partitions. See figured rolled sylass.—Pichel glass, alraye distinger glass painted with enamel colors, first produced in the Fichtel Mountains in Upper Franconia, Bavaria; specifically, a crimking-glass bearing a representation of one of the peaks of this range, the Ochsenkopf, surmounted by the head of an ox, a characteristic decoration in the seventeenth and eighteenth entire produced in the Fichtel Mountains in Upper Franconia, Bavaria; specifically, a drinking-glass bearing a representation of one of the peaks of this range, the Ochsenkopf, surmounted by the head of an ox, a characteristic decoration in the seventeenth and eighteenth entire produced in the Fichtel Mountains in Upper Franconia, Bavaria; peaked by the head of an ox, a char



Cream-jug and Salt-cellar of Stiege In the Pennsylvania Museum, Phil

White glass, brilliant clear glass which contains no lead, as distinguished from flint or crystal glass.

II. α.—Glass sand, silk, wool. See ★sand1, ★silk,

Glass-blowers' cramp or mouth. See *mouth. glass-cloth, n. 3. An abrasive cloth made by sifting finely powdered glass on cloth covered with glue. Stand. Dict.

Glass-cutter's gage. See *gage2.

glass-eel (glas'el), n. A young conger-eel.
The young do not resemble the adults: they are elongate, thin, and have very small heads. glassen (glas'n), r. t. [glass + -cn1 (3).] To coat or cover (pottery or the like) with glaze;

glass-mold (glas'mold), n. 1. A hinged mold in which glass is blown into form. Intaglio designs are usually cut in it which are reproduced in relief on the molded object. See cut at *blowing-mold .- 2. A mold in which glass is pressed to imitate cut-glass.

glasspox (glas'poks), n. Chiekenpox in which the vesicles are for the most part cone-shaped and glittering.

glass-printing (glas'prin"ting), n. In photog. the art of printing on glass by the transfer process. Stand. Dict.

glass-wave (glás'wāv), n. A sound-wave in

When standing sound-waves are produced in a glass tube two distinct systems of waves are sometimes observed, the air-waves within the tube, and waves which traverse the walls of the tube. The latter are called plasswares.

M. W. Travers, Exper. Study of Gases, p. 275.

glass-wing (glas'wing), n. A butterfly which has transparent wings or wings that are transparent in spots.—Little glass-wing, an American hesperiid butterfly, Enphyes verna, brown in color, with a row of white or translucent spots on the fore wing. It occurs from New York to Kausas and southward along the Alleghanies.

3. In card-games, cheating glass-work, n. with the aid of a glass or reflector, usually concealed in some article on the table, by means of which the sharper can read the cards he deals to his adversary.

he deals to his adversary.

glasswort, n. About 6 species of glasswort (Salicornia) are now said to be found in North America, inhabiting mainly the salt-marshes of the coast, but sometimes (the same or different species) growing on saline ground hi land. S. herbocca, the shender or jointed glasswort or marsh-samphire (also called nickle-plant), together with S. Bigelovi, turns a vivid red in antumn, becoming very showy on the Atlantic coast, while S. ambigua, the reody glasswort (also called pickle-weed), presents a diversity of brilliant color in the Pacific salt-marshes.—White glasswort, the common sea-bilte, Dondia maritima. See bilte?.

Glassy hunor of the eye. Same as vitreous body of the eye.

*glastum (glas'tum), n. [L. glastum, < OCelt. *glaston, whence W. and Bret. glas, green, Olr. glass, Ir. glas, green, pale, Gael. glas, gray.] A plant otherwise known as woad (Isatis tinctoria).

glaucine, a. II. n. A colorless bitter alkaloid contained in the leaves of the horn-poppy, Glaucium Glaucium. It forms crystalline

Gaucium Gaucium. It forms crystaline nacreous scales when deposited from water. glaucochroite (glā-kō-krō'īt), n. [Gr. γλαικός, bluish green or gray, + χροά, color, + -ite².] A silicate of calcium and manganese occurring in bluish-green prismatic crystals at Franklin Fnrnace, New Jersey. It is analogous in formula to the species of the chrysolite group. glaucodymium (glâ-kō-dim'i-um), n. [NL., ζ Gr. γλανκός, bluish green or gray, + NL. (di)-dymium.] In chem., a supposed new element

dymium.] In chem., a supposed new element announced by Chronstschoff in 1897 as present in salts of didymium as previously known. No confirmation of its existence has since then been published.

glaucomatic (glâ-kō-mat'ik), a. [glaucoma(t-) + -ic.] Pertaining to or characteristic of

stout lower jaw only. The pelvic girdle is more complete than in any other existing snakes; the illum, ischium and pubis may he made out; and there is a vestigial femur. There are about 30 species, which inhabit parts of western Asia, Africa, and South America.

glauconitization (glå/ko-nit-i-zā/shon), n. The

process of introducing glauconite into a rock. This may be by precipitation in spaces of the rock or by actual replacement of other constituents. Geikic, Text-book of Geol. (4th ed.),

synonymous with Pinnatopora.

glaucosuria (glâ-kō-sū'ri-ā), n. [Gr. γλανκός, bluish green, + ονρον, urine.] Same as *indi-

glaury (glà'ri), a. [glaur + -yl.] Muddy; glial (gli'al), a. [glia + -all.] Of or pertainsoiled with glaur: as, glaury boots. [Scotch.] ing to the glia or neuroglia. Buck, Med. glaze, n. 4. Stock evaporated to a thin paste by boiling, and applied to meats to give them a polished surface.—5. A surface coating or fine fibers which forms the framework of the a polished surface. - 5. A surface coating or

sheet of ice. [Local, U. S.]—Coral glaze, a coral-red glaze found on Chinese porcelain.—Crystalline glaze, a glaze which shows crystalline effects, produced by special treatment in the kiin.—Flashed glaze, a dexterous manipulation of glazes perfected by the Chinese, such as blues splashed over with spots of red and lilac, at first sight appearing to be the result of accident, but really the result of careful manipulation. W. P. Jervis, Encyc. Ceram., p. 213.—Flint glaze, in ceram., a glaze of which powdered flint is the principal ingredient.—Fluid glaze, in ceram., a glazing composition, prepared in liquid form, in which the ware is dipped or which is applied to the surface of the ware with a brush, as distinguished from dry glaze (such as powdered galena) or vapor-glaze (salt).—Fritted glaze, a glaze which contains ingredients which have been melted into a glass and ground before being applied to the ware. Compare raw *glaze.—Galena glaze. Same as lead-glaze. Sea claso *dusting.—Kaolinic glaze, a glaze for porcelain, of which kaolin is the principal ingredient.—Lang yao glaze, Chinese sang-de-beut ('ox-blood) glaze, said to have been invented by Lang Ting-tso, superintendent of the Imperial Porcelain Works at Kingteh-Tsin, early in the reign of K'ang-hsi (1662-1722).—Liver glaze, a variety of sang-de-beuf glaze, of a dull, dark, or purplish-red color, usually without the iridescence which characterizes the true ox-blood glaze; a glaze or enamel having the color of liver.—Raw glaze, a glaze composed of raw materials which are melted into a glass for the first time when fired on the ware in the glost-kiin. Compare fritted *glaze.—Silicious glaze, a glaze produced by fusing an alkali, such as potash or sola, with sand; a coating of glass.—Slow-flowing glaze, in ceram., a thick viscous enamel or glaze which trickles in heavy drops down the outer surface of the vessel, during the firing, as in some of the old Japanese pottery and the recent stoneware reproductions of the Dedham (Massachusetts) pottery.—Stanniferous

glazing, n. 7. In leather-manuf., the process of rolling leather with a glass roller in order to give it a bright finish; also, less commonly, the light application with a sponge of a solution which when dry gives to the leather its final luster. *C. T. Davis*, Manuf. of Leather,

glazing-roll (glā'zing-rol), n. One of the two smooth rolls between which leather is passed under pressure to give it a high gloss and uniform thickness. C. T. Davis, Manuf. of

uniform thickness. C. 1. Date, and the leather, p. 615.

glebal (glē'bal), a. In bot., of or pertaining to the gleba. See Gleba, 3.

gled-wing (gled'wing), n. An artificial fly.

Also called redwing. N. E. D.

gleicheniaceous (gli-ke-ni-â'shius), a. Of or pertaining to the Gleicheniaceæ, a family of glimps, v. and n. A simplified spelling of ferns.

term in Sonnerat's "Voyage aux Indes" (1782), grandouver, which is appar an imperfect transcription (simulating F. grand, great) of the Sanskrit gandharvá (Hind. gandharb), one of a class of minor deities, demons, or 'jinn' of by a tendency to the formation of gliomatous class of minor deities, demons, or 'jinn' of whose origin and functions the usual contradictory accounts are given.] In Southey's poem, "The Curse of Kehama" (1810), one of a race of beautiful sprites.

Glenoid notch. See *notch.
glen-pepper (glen 'pep "er), n. [Also glenn
pepper; < glen + pepper.] A wild cress, Lepidium campestre, also called poor-man's-pepper,

glia (gli'ä), n. [NL., (Gr. γλία, glue.] The glia-cells collectively of the central nervous system in vertebrates; neuroglia.

system in verteorates; heurogna.

gliabacteria (gli″ä-bak-te″ri-ä), n. pl. [Gr. γλία, glue, + bacteria, pl. of bacterium.] In bacteriol., the members of the family Bacteriaceæ which form gelatinous zoöglœa. Biltroth.

glia-cell (glī′ä-sel), n. One of the stellate sustentacular cells found in the central ner-

p. 177.

Glauconome, n. 4. A genus of Paleozoic cryptostomatous bryozoans, now regarded as synonymous with Pinnatopora.

[Gr. γλανκός, cryptostomatous of the family Coccaceæ teriol., any member of the family Coccaceæ teriol., any member of the family Coccaceæ teriol. which forms gelatinous zoöglea. Incorrectly

fine fibers which forms the framework of the

glia or neuroglia. Jour. Exper. Med., Nov. 29, 1901, p. 72.
glidder, a. II. n. A loose, rolling stone on a hillside. [Local. Eng.]
glide, v. II. trans. In cricket, to glance; allow the ball to meet the bat and be deflected from it results to the log side.

it, usually to the leg side.

glide, n. 4. In phonetics, a fleeting sound produced in passing from one position of the organs of speech to another, as in pronouncing the sound-combination ki in the word 'kind' designated the off-glide of the first letter (k) and the on-glide of the second (i). H. Sweet, Eng. Sounds, § 23 .- 5. In cricket, a glance; a stroke by which, instead of being hit, the ball is allowed to strike the bat and to be deflected from it, usually to the leg side.—Glide consonant, a consonant formed without any fixed configuration of the organs of speech.—Glide vowel, a vowel which cannot form a syllable hy itself; a diphthongic vowel. II. Sweet, Eng. Sounds, § 22.
glideless (glid'les), a. [glide+-less.] In

phonetics, passing from one position of the organs of speech to another without producing a glide or transition sound, as in the case of nd in and. H. Sweet.

glideness (glid'nes), n. In phonetics, gliding

Glideness and syllabicness generally go together. H. Sweet, Eng. Sounds, § 23. glide-plane (glīd'plān), n. Same as gliding-

glider¹, n. 2. In aëronaut., a gliding-machine.

Photographs of the paths of gliders taken by Mr. Williams some time ago with magnesium light distinctly showed the two oscillations, and in several cases the final overturning in a manner perfectly consistent with theory.

Nature, March 16, 1905, p. 464.

glaze-kiln (glāz'kil), n. Same as *glost-kiln.
Glaziers' salt. See *salt¹.
glaziery (glā'zhèr-i), n. The work of a glazier; glass-work.

glaziery (glā'zhèr-i), n. The work of a glazier; glass-work.

gliding-machine (gli'ding-ma-shēn"), n. A machine for gliding through the air from a higher to a lower level, propelled by the force of gravity, like a flying-squirrel.

On account of the internal irregularities which all winds possessed, it was a great deal more difficult to control any gliding machine on the ground than when the operator was in the air, and . . this was especially true of the machines that had been provided with the automatic regulating devices. Sci. Amer. Sup., Jan. 22, 1898, p. 18390.

glimmerous (glim'er-us), a. [glimmer + - ous.] Glimmering.

Thou mirror of Purity, when shall the elfin-lamp of my glimmerous understanding, purified from . . . gross desires, shine like the constellation of thy Intellectual powers! powers!
Burns, Letter to W. Nicol, Feb. 20, 1793, in Prose Works,
[VI. 56.

glendoveer (glen-dō-vēr'), n. [An arbitrary glinkite (glingk'īt), n. [Named after Glinka, alteration by Southey of a French-spelled a Russian general.] A pale-green variety of chrysolite, or olivin, occurring in talcose schist in the Urals.

tumors.

gliomyoma (gli″ō-mi-ō'mä). n.; pl. gliomyo-mata (-ma-tä). [NL., ⟨ glio(ma) + myoma.] A tumor having the characters of both a glioma and a myoma.

then been published.

glaucomatic (glâ-kō-mat'ik), a. [glaucoma(t-)]
+ -ic.] Pertaining to or characteristic of glaucoma.

Glaucomidæ (glâ-kō-nī'i-dē), n. pl. [NL. Glaucomidæ (gla-kō-nī'i-dē), n. pl. [NL. Glaucomidæ (glaucomidæ (glau

states of the same states n is glischrin (glis'krin), n. [Gr. $\gamma \lambda i \sigma \chi \rho \sigma c$, glutinous, $+ -i n^2$.] A mucinous substance produced in urine by Bacterium glischrogenes.

glissade, n. 3. In music, same as glissando. glissaune (gli-sân'), n. [Of Ir. origin; not traced.] The coalfish, Gadus virens, one of the cods common in the Baltic and other northern seas, reaching a weight of 20 pounds.

On the Irish coast the fishermen catch large numbers of medium-sized coal-fish, called, locally, "glissaunes," by trailing flies, the lines heing attached to long bamboo poles projecting from the stern of sailing boats.

Eneyc. Brit., XXXII. 486.

glistener (glis'n-èr), n. A gold coin. Moore, Fudge Family, vi. 45. N. E. D. [Slang.] glitter² (glit'èr), n. A talus slope. [Local, Eng.

Such slopes [of talus] are known as glitters in Northumberland, [and] glyders in North Wales.

Sir J. Lubbock, Scenery of England, vi.

glitter; glittering.

gloat (glob), n. A local English name for a globulus (glob'ū-lus), n.; pl. globuli (-lī). [NL. variety of eel, of medium size and dark color.

use of L. globulus, a little ball: see globule.] In global (glō'bal), a. [globe + -all.] 1. Spherical; globe-shaped: as, the global earth.—2. Relating to the round world; world-wide.

With the faculties and tastes of a historian, M. de

globate, a. II. n. A globular sponge-spicule such as occurs in the tetractinellid genera Geodites and Geodia.

Geodites and Geodia.

globe, n. 7. In golf, the ball.—Counterpoise
globe. See *counterpoise.—Dioptric globe. Same as
*holophane.—Epidermic globes. Same as epithelial
pearts (which see, under pearl).—Ferdinand's globes,
a crude thermometer described by Ferdinand 11. of Florence about 1630, consisting of closed empty glass globes
resting in equilibrium in the midst of a tall glass of
water. The globes descend when the water is warmed
and rise when it cools. Compare Cartesian devil, under
Cartesian.—Globe aspect. See *aspect.—Spiral globe,
a globe for inclosing an artificial light, made of spiral or
twisted glass. W. L. Dibbdin, Public Lighting, p. 400.
globe-animalcule (glöb'an-i-mal"kūl), n.
Same as globe-animal.
globe-artichoke (glöb'ār"ti-ehōk). n. The

globe-artichoke (glob'är"ti-ehok), n. common garden-artichoke, Cynara Scolymus, so called from its globular heads. globe-berry (glob ber'i), n. The yew, Tuxus

globe-flower, n.—American globe-flower. Same as spreading globe-flower (which see, under spread, v. i.). globostellate (glo-bo-stel'āt), a. and n. [L. globus, ball, + stellutus, starred: see stellate.]

I. a. Having rays departing from a globular contain contain tatractinellid spongecenter, as in certain tetractinellid spongespicules.

A globostellate sponge-spicule II. n. 11. n. A globostellate sponge-spicific.

Globular projection. See *projection.—Globular texture, in petrog., a texture produced in aphantic and glassy rocks by the presence of globules or spherulitea. globularetin (glob* $^{\mu}$ 0-la-re*tin), n. [globula- $\tau(in) + -et - + -in^2$.] A compound, C_7H_6O , produced by the action of dilute acids on globularing.

globularin.

globularin.

Globulariaceæ (glob-ū-lā-ri-ā'sē-ē), n. pl. [NL. (Link, 1829), < Globularia + -aceæ.] A small family of dieotyledonous sympetalous plants of the order Polemoniales, typified by the genus Globularia (which see). It is characterized by flowers with 5-lobed calyx and corolla, four or only two stamens, and two 1-seeded carpels. There are three genera and about 20 apecies, natives of Europe, the Canary Islands, the Azores, and Sokotra perennial herbs with obovate entire, often radical leaves, and flowers in dense heads, usually globular.

globularin (glob'ū-lär-in), n. [Globularia + -in²] An amorphous bitter glucoside, C₁₅H₂₀O₈, contained in the leaves of Globularia Alupum.

globule, n.—Morgagni's globules, glassy droplets seen between a cataractous lens and its capsule. Also called Morgagni's spheres.

globulicidal (glob'ū-li-sī'dal), a. [L. globulus, globule, + -cida, < cædere, kill, + -all.] Destructive to the corpuseles of the blood, especially the red corpuscies noting the ability of the blood-serum of one animal to destroy the blood-serum of one animal to destroy the red blood-corpuseles of another animal.

These extensive deposits of pigment which were found in nearly all parts of the general circulation seem, without doubt, to be referable to a greatly increased globulicidal settles of the plasms. doubt, to be reicianic action of the plasma.

Jour. Exper. Med., Feb. 5, 1902, p. 145.

globuliferous (glob-ū-lif'e-rus), n. [L. globulus, globule, + ferre, bear.] Bearing or containing globules; in geol., containing eoncretions or segregations which consist of mica or of feldspar and mica: called spherophyric by J. D. Dana: equivalent to the more common terms

globule, + -genus, -producing, + -ic.] Producing blood-corpuscles. W. D. Halliburton, Chem. Physiol. and Pathol., p. 265. globulimeter (glob-ū-lim'e-ter), n. [L. globulus, a globule, + Gr. μέτρον, measure.] A device

for determining the number of globules in a definite amount of blood.

globulinose (glob'ū-li-nōs), n. [globulin + -ose.] Same as *globulose.
globulist (glob'ū-list), n. [globule + -ist.] A homeopathist: so called from the homeopathie practice of administering remedies in the form of globules. Dunglison.

glittery (glit'er-i), a. [glitter + -y1.] Full of globulose, a. II. n. An albumose derived from

polyzoans, a zoœeium or an internode.

globulysis (glo-bū'li-sis), n. [L. globu(lus), globule, + Gr. λίσις, dissolution.] The dissolution of blood-corpuseles by hemolysins. Buck, Med. Handbook, VIII. 467.

Globus pallidus, the inner portion of the nucleus lenticularis, a mass of light-colored gray matter at the base of the brain.

Chlochiceras (glo-kis'e-ras), n. [NL., \langle Gr. $\gamma^2 \omega \chi i c$, a point, $+ \kappa \epsilon \rho a c$, horn.] A genus of ammonoid cephalopods or ammonites with smooth discoid shells having a relatively simple styre and beautiful large lateral large transfer. ple suture and bearing long lateral lappets at the aperture. It is of Jurassie age.

glochideous (glo-kid'e-us), u. Same as glochid-

glochidian (glō-kid'i-an), a. [glochidi(um) + -an.] Relating to or characteristic of a glochidium.

glochinate (glok'i-nāt), a. [Gr. $\gamma \lambda \omega \chi i \nu$, var. of $\gamma \lambda \omega \chi i c$, a point, + ate¹.] Same as glochidiate. glockenspiel (glok'en-shpēl"), n. [G., \langle glocke, bell (see $clock^2$), + spiel, play.] 1. A musical instrument consisting of a series of small bells or metal rods or tubes, mounted in a frame and struck by hammers; sometimes the latter are manipulated from a keyboard. In the form used in military bands, sometimes improperly called a lyre, from the shape of the frame.—2. In organ-building, a stop consisting of a set of bells, bars, or tubes sounded by hammers.

glockenthaler (glok'en-tä'ler), n. [G., glocke, bell, + thaler, dollar.] A silver ed of Brunswick having on one side a bell. A silver coin

glockerite (glok'er-īt), n. [Named after E. F. Glocker, a mineralogist.] A hydrated ferrie sulphate occurring in from yellow to brown and black stalactitie forms. It results from

(Desmazières and Montagne, 1849), ⟨Gr. γλοιός, stieky substance, + σπορά, seed.] A large genus of the Fungi Imperfecti of the order genus of the Fungi Imperjecti of the order Melanconiales. The spore-bearing hyphre form a dense mass beneath the surface of the host, breaking forth at maturity and forming pustules. The spores are simple and hyaline or light-colored. Over 200 species have been described, many of which cause the serious disease of cultivated plants called anthracnose. Some have been shown to be the conidial forms of pyrenomycetons fungi. See *anthracnose.

glome2, n. 3. One of the branches or rounded portions of the frog of a horse's foot, on either side of the eleft.—Glome of the heel, that part of the wall of a horse's hoof where it curves around the heel to form the bar, the prominence of the heel.

a. [glomerous + porphyritic.] In petrog., noting a texture in igneous rocks in which a porphyritie appearance is produced by the aggregation of numerous small crystals of one mineral, as pyroxene or feldspar. Judd, 1886. glomerular (glō-mer'ū-lār), a. [glomerulus + -ar³.] Of or pertaining to a glomerulus, especially to a glomerulus of the kidney.

When acted upon by venom the vessels show irregular hulging of the walls, by ricin a localized dilatation or congestion of the vessels, which give rise to a glomerular appearance.

Science, July 3, 1903, p. 7.

Glomerular nephritis. Same as glomerulonephritis.

spheroidal or orbicular, used of spheroidal gregates in granitoid rock.

globuliform (glob'ū-li-fôrm), a. [L. globulus, globule, + forma, form.] Having a globular form; shaped like a globule.

globuligenic (glob'ū-li-jen'ik), a. [L. globulus, globulus] [L. glomus (glomer-), a ball or elue of yarn, thread, etc.: see glome².] 1. A eoil of ehoroid plexus extending into either lateral ventriele of the brain.—2. A coil of blood-vessels profite or cœloma, in of the brain.—2. A coil of blood-vessels projecting into the body-cavity, or ceoloma, in the region of the pronephros in the embryos of the lower vertebrates. (See cut in next

> gloom-stove (glöm'stöv), n. A stove or oven in which formerly gunpowder was dried after granulation by cautiously regulated radiation from surfaces of heated iron: a process now

> gloria, n. 5. A fabrie with a silk warp and a

h. clomus.

h, glomus.

Diagrammatic figure of a tadpole, dissected from the ventral surface to show the glomus, the heart and branchial vessels, and the head-kidneys and commencing Wolfian bodies. The alimentary canal, from the œsophagus to the rectum, has been removed.

a lower line to lingual arresure.

a, lower lip; b, lingual artery; c, truncus arteriosus; d, opercular cavity; e, ventricle; f, esophagus; e, first nephrostome; h, glomus; t, third nephrostome; h, aorta; k, cloaca; l, aperture of rectal spout; m, commencing glomus; 1. fintra nephrostonic; 1., aoria; 4. cloaca; 1. aperture of rectal spout; m., commencing hind limb; m. Wolffan or mesonephric tubules; a, segmental duct; p. head-kidney; p. spout like aperture of opercular cavity; r. sinus venosus; s. m. afferent branchial arches; t. v. efferent branchial arches; t. v. efferent branchial arches; t. v. cefferent branchial arches; t. v. cefferent branchial arches; t. v. communication between the afferent and efferent vessels of the first branchial arches; t. v. communication between the afferent and efferent vessels of the first branchial arches; t. v. cefferent branchial arches; t. v. efferent branchial arches

wool or cotton weft, so woven as to throw the silk on the face: used for umbrellas and women's dress-goods. gloriette(glō-ri-et'), n. [Also gloriet; $\langle F. glo$ riette, Sp. glorieta; apglory.] In arch.: (a) a small pavilion in a park. (b) An elaborately cruamental apartment in a medieval castle or château. glory, n. — Diffraction glory. See *diffraction.— Glory of angels, the ranks of attendant spirits, arranged in concentric circles, by which in medieval Christian at the gloriflation of

by which in medieval Christian art the glorification of the Trinity, Christ, or the Virgin is accompanied. According to the scheme of St. Dionysius, the glory consists of three hierarchies and each hierarchy of three orders. These are from inner circle toouter as follows: first hierarchy, cherubin, seraphim, thrones; second hierarchy, dominions, princedoms, powers; third hierarchy, virtnes, archangels and angels. The cherubin and seraphim are often represented simply as

growing to the height

and black statective forms. the alteration of iron pyrites. glœspore (glē'ō-spōr), n. [Gr. γλοιός, sticky substanee, + σπορά, seed.] In phytogeog., a plant the dissemination of whose seeds is assisted by a viseid infloresence or by glandular hairs on the containing fruit. F. E. Clements.

Glœsporium (glē-ō-spō'ri-um), n. [NL. Clements.]

Glœsporium (glē-ō-spō'ri-um), n. [NL. clements.]

Glæssporium (glē-ō-spō'ri-um), n. [NL. clements.] ing tendrils by which it elimbs. The corolla is tubular with a joint just a short distance shove the calys, after which it swells out on the under side and then constricts into a neck before reaching the small circular month, surrounded by five short, rounded lobes.

glory-hole, n. 3. A small furnace for reheating glass.—4. Naut., the lazaret or azaretto.

a low space below the main-deck in the after part of a vessel where provisions and spare gear are stowed.

gloryless (glo ri-les), n. [A translation of NL. Adoxa.] The mosehatel or mush-root, Adoxa Adoxa.] The Moschatellina.

glory-tree (glo'ri-tre), n. A garden name for several species of ornamental, shrubby, or climbing verbenaceous plants of the genus Clerodendrum, especially C. fragrans. glory-vine (glo'ri-vin), n. Same as glory-pea.

See Clianthus, gloss¹, n. 3. In leather-manuf., a preparation which gives leather its final polish or finish. Modern Amer. Tanning, p. 148.—Egg-shell gloss, in painting, a subdued gloss like that upon an egg-shell.

gloss. An abbreviation of glossary. glossal (glos'al), a. [Gr. $\gamma \lambda \bar{\omega} \sigma \sigma a$, tongue, + $-al^1$.] Of or pertaining to the tongue.

glossarize (glos'a-riz), v. t.: pret. and pp. glossarized, ppr. glossarizing. [glossary+-ize.] To enter and explain in a glossary.

All the words occurring in the formulas thus far translated have been glossarized.

Smithsonian Rep., 1890, p. 51.

glossatorial (glos-a-tō'ri-al), a. [glossator + -ial.] Pertaining to, of the nature of, or consisting of glosses: as, glossatorial literature. sisting of glosses: as, glossatorial interature, glossing, n. 2. In leather-manuf., the rubbing of virtually finished leather with a solution which gives it a final luster. C. T. Duvis, Manuf. of Leather. pp. 612, 614, gloss-kiln (glos'kil), n. Same as *glost-kiln. Glossodus (glos'ō-dus), n. [NL., < Gr. γλωσα, tongue, + ὁδοίς, tooth.] A genus of Carboniferous selachian fishes known only from their teeth

their teeth.

replaced by the use of steam-pipes. Also, by **glossodynia** (glos-ō-dī'ni-ā), n. [NL., \langle Gr. ellipsis, gloom. $\gamma h \bar{\alpha} \sigma \sigma u$, tongue, $+ b \delta \delta v \eta$, pain.] Same as glos-

glossohyal
glossohyal, n. 2. In ichth., the bone of the glowfly (glō'flī), n. The firefly.
tongue. It lies between the superior bypohyals and is glow-light (glō'līt), n. Iu elect., an ineanof the basibranchial series of bones. The 'glossohyal' of Geoffroy is the 'branchiostegal' of Parker. Starks, Synonymy of the Fish Skeleton, p. 517.

slossoid (glos'oid), a. [Gr.)λωσσοειδής. < glow-lighting (glō'lī'/ting), n. The use of glow-lamps for lighting purposes.
glow-lighting (glō'kās). n. [gluc-ose + -ase.] A

glossoid (glos'oid), α. [Gr. λωσσοειδής, ζ λ'ωσσα, tongue, + είδος, form.] Tongue-like;

p/wcca, tongue, + ewoc, torm, j resembling a tongue in form, glossolabial (glos-ō-lā'bi-āl), a. tongue, + L. labium, lip. + -al.] both the tongue and the lips. -iil), a. [Gr. γλῶσσα, + -al.] Relating to

glossolabiolaryngeal (glos"ō-lā"bi-ō-lā-rin'-jō-al), a. [Gr. γλῶσσα, tongue, + L. labium, lip, + Gr. λάρνγξ (λαρνγ)-), larynx, +-c-al.] Relat-ing to the tongue, lips, and larynx.—Glosso-labiolaryngeal paralysis. Same as chronic bulbar paralysis (which see, under bulbar).

paraysis (which see, under bulbar), glossolabiopharyngeal (glosső-lāsbi-j-fā-rin'-jē-al), a. [Gr., λλώσσα, tongue, + L. labium, lip, + Gr. φάρυγ ξ (φάρυγ)-), pharynx, + -e-al.] Relating to the tongue, lips, and pharynx.—Glossolabiopharyngeal paralysis. Sai paralysis (which see, under bulbar). Same as chronic bulbar

glossolalist (glos'ō-lā-list), n. [Gr. γλῶσσα, tongue, + καλείν, speak, + -ist.] One who has the faculty or gift of speaking with tongues; one who is supposed to be miraculously endowed with the gift of tongues.

glossology, n. 3. The scientific study of the tongue and its diseases.

glossopalatine (glos-ō-pal'a-tin), a. [Gr. γ'οσσα, tongne, + L. palatum, palate, + -ine¹.] Same as palatoglossal.

glossopathy (glo-sop'a-thi), n. [Gr. γλῶσσα, tongue, + πάθος, disease.] Any disease of the [Gr. γλῶσσα, tongue.

glossopetræ (glos-ō-pet'rē), n. pl. [NL., \langle Gr. ing to the guanidin group. It is formed from yèōσσa, tongue, $+\pi \hat{\epsilon}\tau \rho a$, rock.] Certain fossil glucoeyamin through loss of water. sharks' teeth: a word used by early writers on glucoeyamin (glo-kō-sī'a-min), n. [Also glyco-glucoeyamin (glo-kō-sī'a-min)] geology and fossils.

glossophytia (glos-ō-fit'i-ä), n. [NL., < Gr. γλσῶσα, tongue, + φυτόν, a growth, a plant.] Same as black-tongue.

glossophyton (glo-sof'i-ton), n.; pl. glossophytu (-ta). [NL., < Gr. γλώσσα, tongue, + φντόν, a growth, a plant.] A fungus found in certain cases of black-tongue.

glossosteresis (glo-sos-te-rē'sis), n. [NL., $\langle Gr. \gamma \lambda \delta \sigma \sigma a$, tongue, $+ \sigma \tau \epsilon \rho \eta \sigma c$, deprivation, $\langle \sigma \tau \epsilon \rho \epsilon \bar{\nu} \nu$, deprive.] Exsection of the tongue. glossware (glos'war), n. Same as *glostware. glost (glost), n. [A dial. form of gloss¹.] In

ccram., glaze applied to pottery or porcelain biscuif

glost-kiln (glost'kil), n. In ceram., a kiln in which biscuit ware is glazed. Also called glosskiln and glaze-kiln.

glost-oven (glost'uv"en), n. Same as *glost-kiln. glost-placer (glost'pla"ser), n. In ceram., the

operative who applies the glost.

glostware (glost'war), n. Glazed ware; baked pottery which has been covered with a glazing preparation and is fired a second time. Also ealled glossware.

The business was started in a small way by Isaac W. Knowles and Isaac A. Harvey, who made yellow ware in a single kiln, which was used alternately for bisque and E. A. Barber, Pottery and Porcelain of The U. S., p. 201.

glottagra (glo-tag'rä), n. [NL., \langle Gr. γλῶττα, tongue, + àγρα, a catching. Cf. podagra.] Same as glossalgia.

glottalgia (glo-tal'ji-ä), n. [NL., ζ Gr. γλῶττα, tongue, + ἀγος, pain.] Same as glossalgia. Glottic race. See *race³.

glove, n.—To go for the gloves, in racing, to bet recklessly. N. E. D.

glove-grain (gluv'gran), n. A trade-name for light leather made from grain split. Modern

Amer. Tanning, p. 114. Hover's scale. See *scale1.

Glover's scale. See *scale1. glove-tighten (gluv'tī"tn), n. A glove-tightener: an eighteenth-century device for holding up the long gloves worn by women. Glove-tightens were made of plaited horsehair, ribbons, ctc., and fastened the glove above the elbow. Also called glove-bond and advector. A. M. Earle. Costume of Colonial co tightens were made of plaited horsehair, ribbons, ctc., and fastened the glove above the elbow. Also called gloveband and glove-top. A. M. Earle, Costume of Colonial Times, p. 118.

glow-beetle (glō'bē"tl), n. A European beetle.

glow-detele (glo be th), n. A European beetle, Meligethes aëneus.

glow-discharge (glo 'diz-charj), n. A discharge between the terminals of an electrical machine under conditions such that the discherte is rendered luminous although no sparks appear. The term is sometimes used to designate the luminous discharge in vacuumtubes as well as the discharge in air.

glower² (glo 'er), n. In elect., the light-giving body of a Nernst lamp. See Nernst *lamp.

glucosidic (glo 'kō-sid 'ik), a. [glucoside + -ic.] Of or pertaining to a glucoside.

glucosidolytic (glo 'kō-sid -ō-lit'ik), a. [glucoside + -ic.] View, dissolve.] Causting the eleavage of glucosides: noting a class of ferments. Also glycosidolytic.

The glucosidolytic enzyme of Sorghum vulgare therefore performs the same functions as the enzyme emulsing which occurs in sweet almonds.

Philos. Trans. Roy. Soc. (London), 1902, ser. A, p. 409.

glucosido (glo 'kō -sōn), n. [glucoside + -ic.]

A non-fermentable syrup having the composi-

glucase (gló'kūs). n. [gluc-ose + -ase.] A form of diastase developed by steeping maize for two or three days in cold water.

glucemia, glucæmia (glö-sē'mi-ä), n. Same as alucohemia.

glucide (glö'sīd), n. [Gr. -idc¹.] Same as saccharin. [Gr. γλυκύς, sweet, +

glucin (glö'sin). n. [Gr. γ2νκνς, sweet, + -in².] The sodium salt of amido-triazin-sulphonie acid. It is used like saccharin as a sweetening agent in diabetes.

glucinic (glö-sin'ik), a. [glucin + -ic.] Of or derived from glueinum.

glucite (glö'sit), n. [Gr. γλυκύς, sweet, + -ite².] Same as sorbite. - ite^2 .]

glucoalbumin (glö"kō-al-bū'min), n. One of a class of albumins which are characterized by the presence of a earbohydrate complex, in the molecule, in especially large amount. alhumin.

glucoalbumose (glö"kō-al'bū-mōs), n. One of the primary albumoses (products of proteolytic digestion) which contains the entire car-bohydrate group of the original albuminous molecule.

glucobiose (glö-kō-bī'ōs), n. [gluco(se) + biose.]
A biose consisting of two glucose molecules. A biose consisting of two glucose molecules.

glucocyamidin (glö*kō-sī-am'i-din), n. [Also
glycocyamidin: \(\) \\ \(\)

cyamin; $\langle Gr. \gamma \lambda \nu \kappa i \varsigma$, sweet, $+ cyam(ide) + -in^2$. A carbonic-acid derivative belonging to the gnanidin group. It is formed through the union of cyanamide and glycocoll, C₃H₇N₃O₂. Through loss of water it becomes glucocyamidin.

glucolignose (glö-kö-lig'nös), n. [qluco(se) + hignose.] A compound, C₃₀H₄₆O₂₁, obtained by the successive treatment of fir-wood with dilute acetic acid, water, alcohol and ether. Dilute acids hydrolyze it to glucose and lignose

glucolysis, glucolytic, etc. See *glycolysis,

gluconic (glö-kon'ik), a. [gluc(ose) + -on + inconic (gio-κon ik), a. [gluc(ose) τ -on τ -ic.] Derived from glucose.—Gluconic acid, a colorless syrupy compound, CH₂Oll(CHOH)₄, COOH, obtained by the oxidation of starch, glucose, cane-sugar, maltose, and similar substances, with chlorin or bromine water and silver oxid. Also called dextronic acid.

glucoproteid (glö-kō-prō'tē-id), n. [Also glycoproteid; ⟨ Gr. γλεκις, sweet, + E. proteid.]

An albumin in which a carbohydrate group is the support in garagically large amount as the

present in especially large amount, as the mueins and mucoids. On decomposition the

carbohydrate group is, in most cases, obtained in the form of glucosamine. glucosamin (glö-kō-sam'in), n. [Also glycosamin; < Gr. γλνκίς, sweet, + E. amin(e).] A colorless compound, CHO.CH(NH₂)(CHOH)₃ (CHOH) any stelliging in product

eofortess compound, CHO.CH(NH₂)(CHOH)₃ CH₂OH, crystallizing in needles. It is formed, together with acetic acid, by the hydrolysis of cartilage or chitin by means of dilute mineral acids. It is dextrorotatory and closely allied to glucose.

glucosan (glö'kō-san"), n. [glucose + -an.]

A colorless compound formed by heating glucose at 170° C., and also by heating esculin, from horse-chestnut bark, at 230° C. It has a very slightly sweet taste, is not fermentable, and is reconverted into glucose by the action of dilute acids.

glucosazone (glö-kōs, az 'ōn), n. [aducose +

converted into glucose by the action of dilute acids.

glucosazone (glö - kös - az 'ōn), n. [glucose + az(ote) + -onc.] The osazone of glucose, the spikelets of grasses which subct, one of the glumes (bracts) in the spikelets of grasses which subct, one of the glumes (bracts) in the spikelets of grasses which subct, one of the glumes (bracts) in the spikelets of grasses which subct, one of the glumes (bracts) in the spikelets of grasses which subct, one of the glumes (bracts) in the spikelets of grasses which subct, one of the glumes (and yet are the spikelet. The premaining alumes are the spikelet.

glump (glump), n. 1. A sulphenut glucosazone of the spikelet.

glump (glump), n. 1. A sulphenut glucosazone of the spikelet. henyl glucosazone.

glucosidal (glö-kö-sī'dal), a. [qlucoside + -all.] Relating to or containing a glucoside. glucosidic (glö-kō-sid'ik), a. [glucoside +

tion $C_6H_{10}O_6$, formed by the action of concentrated hydrochloric acid on glucosazone.

glucosuria, n.—Digestive glucosuria, glucosuria following the ingestion of unusually large amounts of sugar or starchy food, irrespective of the existence of diabetes.

glucosuric (glö-kō-sū'rik), a. Relating to or affected with glucosuria.—Glucosuric acid, an organic acid which was isolated by J. Marshall from an alkapton urine: probably identical with homogentisinic acid.

glucovanillic (glö"kō-vā-nil'ik), a. $\lceil aluco(se) \rceil$ + vanill(in) + -ic.] Pertaining to glueose and vanillin .- Glucovanillic acid, a colorless compound, CHO(CH.OII)4.CH20.C6H3(0CH3,0C02II + H2O, prepared by the oxidation of coniferin by means of potassium permanganate. It forms prismatic crystals which, when dehydrated, melt at 210–212° C. It is converted by emulsin into glucose and vanillic acid, and is also called p-glucoxy-m-methoxybenzoic acid.

glucovanillin (glö"kō-vā-nil'in), n. [gluco(se) vanilla + -in2.] A colorless compound,

CHO (CH.OH) 4.CH₂O.C₆H₃ (OCH₃) COH + 2H₂O, prepared by the oxidation of coniferin by means of chromie acid. It is levorotatory, crystallizes in needles, and melts at 192°C. Emulsin resolves it into vanillin and glucose. It is the aldehyde of glucovanillic acid, and is termed p-glucoxy-na-methoxybenzatdehyde.

oxybenzaldehyde.
glucuron (glö-kū'ron), n. [Gr. γλνκές, sweet, + ούρον, urine, + -on, -one.] The anhydrid of glucuronie acid, having the formula C₆H₈O₆.
glucuronate (glö-kū'rō-nāt), n. [glucuron-ic + -tte-l.] A salt of glucuronie acid.

glucuronic (glö-kū-ron'ik) a. Same as *alu-

glucuronic (glö-kű-ron'ik), a. Same as *glycuronic.

2. [Short for glue-stock.] A very low glue, n. grade of hide, practically worthless for tanning, but used in the manufacture of glue: commonly called glue-stock. Flemming, Practical Tancalled glue-slock. Flemming, Practical Tanning, p. 265.—Dutch or Flanders glue. Same as Cologne glue.—Hide glue, glue made from the trimmings of hides, as distinguished from glue of inferior value made from bones.—Isinglass glue, a pure glue made from fish-sounds.—Parchment glue, a fine glue prepared by carefully boiling with water scraps of parchment or similarly cleansed animal skins.—Patent glue, a tradename for a superior kind of glue of dark color, made from hones.—Russianglue, a trade-name for a variety of carpenters glue to which mineral matter, such as lead or calcium carbonate, zinc oxid, or barinm sulphate has been added to the extent of 5 or 6 per cent. it is of whitish appearance in consequence.—Size glue, a trade-name for glue of superior quality, carefully prepared from scraps of animal skin. See size2, 1.
glue-plant (glö'plant), n. One of the red algae, Gracilaria, occasionally used for food and also in the manufacture of agar-agar.

in the manufacture of agar-agar.

glue-pot, n. 2. A part of a road so bad that the wheels of a carriage would stick in it.

[Australia.] Glugea (glö-jö-ä), n. [NL.] The typical genus of the family Glugeidæ. G. hombycis is very destructive to silkworms, causing the disease known in France as la pébrine. Thélohan,1891.

Glugeidæ (glö-jé'i-dē), n. pl. [NL., Glugea + -idæ.] A family of sporozoans, of the order Myxosporidia, having the spores minute and pear-shaped. with one polar capsule which is only visible after treatment with reagents. More than two spores are formed in each pansporoblast. The family consists of cell-parasites found mostly in arthropods and fishes. The typical genus is Glugea; others are Gurleya, Thetohania, and Pleistophora.

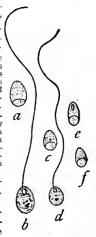
glume, n.—Empty glume, flow-erless glume. See flowering *glume.—Flowering glume, in bot., one of the glumes (bracts) in the spikelets of grasses which sub-tend florets, as opposed to the flow-

len, sulky fellow. -2. pl.

by a carbonaceous deposit from inferior oils used in lufrom interior oils used in lubrication. Animal oils, including tallow, suet, and lard, are found to produce both glutting and corrosion, the latter being due to the decomposition of the fats and the formation of fatty acids and the deposition of carbon. Mineral oils are free from these defects.

glut, n. 10. A block, usually of bronze in one face of

of bronze, in one face of which is a recess to receive the upset end of the valve-



Spores of various Glugeide, highly mag-nified, after Thélohan. nified, atter Thélohan.

a and b, Pleistophorz
typicatis Gurley—a,
in the fresh condition,
b, after treatment with
iodine water, causing
extrusion of the filament; c and d, Thelohania octopora
Henneguy -c, fresh,
d, treated with ether;
e, Glurca depressa d, treated with enter; e, Glugea depressa Thélohan, fresh; f, G. acuta, Thélohan, (From Laokester's "Zoology.") rod in a knuckle-joint. The glut is tightened by a wedge and screw, or by a key.

glutaconate (glö-tak'ō-nāt), n. [glutacon(ic) + -ate1.] A salt of glutaconic acid.

The methylation and condensation of ethyl glutaconate.

Nature, March 26, 1903, p. 504.

glutaconic (glö-ta-kon'ik), a. [glut(en) Rictaconic (gio-ta-kon ik), a. [giat(en) τ aconic.] Noting a colorless compound, HOCO. CH₂.CII:CH.COOH, which crystallizes in prisms and melts at 152° C. It is isomeric with itaconic, citraconic, and mesaconic acids. Also called pentenediacid or α-γ-propylenediacarboxylic acid.

carboxytic acid.

glutamic (glö-tam'ik), a. [glut(en) + am(ine) + ic.] Derived from gluten and amine.—
Glutamic acid, s crystalline compound, HoCo.CH (XH2).CH2.CH3COOH, extracted from pumpkin and vetch seeds and from beet-root juice. It is also produced by boiling vegetable proteids with dilute sulphuric acid.

It is deposited in lustrous rhombohedra and melts at 140° C. Also called a-anninoglutaric acid and, incorrectly, glutamine (cil. tam'in) n [glut(en)] + amount of libetam'in) n [glut(en)] + amount of libetam'in a cil.

glutamine (glö-tam'in), n. [glut(en) + amine.] A colorless crystalline compound, H₂N.CO. CH(NH₂).CH₂CH₂COOH, found, together with asparagin, widely distributed in the veg-etable kingdom. It is deposited in slender needles. Also called a-glutamamide and, incorrectly, glutamin.

glutaminic (glö-ta-min'ik), a. [qlutamine + -ic.] Of or pertaining to glutamine.—Glutaminic acid, an incorrect term for *glutamic acid.

minic acid, an incorrect term for *\forall dutamic acid. glutaric (gl\(\tilde{c}\) tar'ik), a. [glut(en) + -ar + -ie.]

Derived from gluten.—Glutaric acid, a colorless compound, IIO.COCH_2.CH_2.CH_2.COH, which crystallizes in large, monoclinic prisms melting at 97.5° C., and boils at 302-304° C. It is found in the wsshings from sheep's wool and can be prepared artificially in a variety of ways. Also called normal pyrotartaric acid or pentanediacid.

glutazin (glö-taz'in), n. [glut(en) + az(ote) +-in².] A colorless compound, $C_5H_6O_2N_2$, which crystallizes in rectangular plates. It melts and decomposes at 300° C., and is probably 4-imido,

2-6, diketohexahydropyridine.

Gluteal aponeurosis, the combination of the femoral Iascia over the nates.—Gluteal furrow. See *furrow. gluten, n. 2. A glue-like animal secretion: for example, the sticky material secretion:
for example, the sticky material secreted by
swallows in nest-building.—Giuten feed, a mixture of gluten-meal and corn bran: used as feed for cattle.—Giuten flour, wheat flour from which a part of the
starch has been removed, thus increasing the proportion
of gluten. See gluten.—Giuten meal, a by-product of
the manufacture of glucose and starch from Indian corn.
It consists largely of the germ of the grain, with more or
less of the hulls and starch: valued as a feed, especially
for milch cattle. for milch cattle.

glutenin (glö'te-nin), n. [gluten + -in2.] That portion of vegetable gluten which is insoluble in alcohol. Also termed gluten-fibrin. See gluten.

glutenoid (glö'te-noid), a. [gluten + -oid.] Similar to gluten.

gluteoperineal (glö"tē-ō-per-i-nē'al), a. Relating to the gluteal region and the perineum: glycid (glis'id), n. [glye(erol) + -id¹.] A noting a furrow on the external surface and a colorless liquid, group of muscular fibers.

group of muscular fibers.

glutimic (glö-tim'ik), a. [glut(en) + im(ine) +
-ie.] Derived from gluten and imine.—Glutimic acid, a compound, C₅ll₇O₃N, formed, together
with glutamic acid, by boiling albumen with a solution of
barium hydroxid. It metts at 180° C.

glutin, n. 2. Same as gelatin. It forms the
chief part of carpenters' glue. Not to be confounded with gluten or any of its components.

glutinize (glö'ti-niz), v. t.; pret. and pp. glutinized, ppr. glutinizing. [gluten (-tin-) + -ize.]

To render glutinous or gluey.

glutinoid (glö'ti-niod), n. [gluten (-tin-) +
-oid.] Same as *albuminoid.

glutoform (glö'tō-form), n. Same as *glutol.

glutoid (glö'toid), n. [glut(in) +-oid.] Gelatin hardened with formaldehyde: used in making capsules. Buck, Med. Handbook, IV. 374.

ing capsules. Buck, Med. Handbook, IV. 374. glutokyrin (glö-tō-ki'rin), n. A peptone body obtained by Siegfried on hydrolysis of glutin. glutol (glö' tōl), n. [glut(en) + -ol.] Same as formaldehyde *gelatin.

glutose (glö'tős), n. [glut(en) + -ose.] Same as *gelatose

glutter (glut'er), n. [Imitative.] A splutter. E. D.

glutton, n. great deal of punishment before he is beaten. [Sporting slang.]

glycemia, glycemia (gli-se'mi-ā), n. [NL. glycemia, 'Gr. γλυκίς, sweet, + alua, blood.] Same as glucohemia. glyceral (glis'e-ral), n. [Gr. γλυκερός, sweet, + -al³.] One of certain compounds obtained

by the action of glycerol on an aldehyde.

glycerin, n. 2t. Formerly a general designa-

tion for compounds similar to glycerol in that they contain three hydroxyl groups.—Glycerin agar, a bacterial culture-medium, of the composition of ordinary nutrient agar, to which 6-8 per cent, of glycerin has been added: especially serviceable in growing the tubercle bacillus.—Glycerin jelly, a mixture of gelatin and glycerin employed in the manufacture of soluble bougies, and used also as a mount for microscopical speci-

glycerinate (glis'e-ri-nat), v. t.; pret. and pp. glycerinated, ppr. glycerinating. Same as glycerize.—Glycerinated lymph or vaccine, vaccine virus mixed with glycerin in order to destroy any bacteria with which the lymph may have been accidentally contaminated

taminated.

glycerination (glis"e-ri-nā'shon), n. [glycerin glycogenic, a. 2. Derived from glycogenic +-ation.] Treatment or dilution with glycerol. Thus calf's lymph is mixed with glycerol, which, after a time, kills bacterial organisms that are often present in ordinary lymph.

glycogeny (gli-koj'e-ni), n. [Gr. $\gamma \lambda \nu \kappa i c$, sweet, +- $\gamma \epsilon \nu \epsilon \iota a$, $\langle -\gamma \epsilon \nu \eta c \rangle$, t. rret and proposed formulation of glycogeny.] Same as glyco-glycogenia (glis'e-rin- $\gamma \lambda \nu \kappa i c$, sweet, +- $\gamma \epsilon \nu \epsilon \iota a$, $\langle -\gamma \epsilon \nu \eta c \rangle$, etc. Same as glyco-glycogenia (glis'e-rin- $\gamma \lambda \nu \kappa i c$). glycerination (glis"e-ri-nā'shon), n. [glycerin

glycerinize (glis'e-rin-īz), v. t.; pret. and pp. nized, ppr. glycerinizing. [glycerin + To treat with glycerin; glycerinate; glycerinized, ppr. glycerinizing. -ize. glycerize.

glycerinophosphoric (glis-e-rī"nō-fos-for'ik),

a. Same as *qiyeerophosphoric.
glycerinum (gli-se-rī'num), n. [NL.] A phar-

macentical Latin name for glycerol.

glycerodegras (glis'e-rō-de-gris'), n. [glyccrin + degras.] A mixture of glycerin, fish-oil, and beef-tallow, applied to leather to soften the finished product. C. T. Davis, Manuf. of Leather, p. 239.

glyceroformol (glis"e-rō-fōr'mōl), n. [glycerin + form(aldehyde) + -ol.] A substance formed A substance formed by the action of formaldehyde upon glycerin: used as an antiseptic.

glycerogelatin (glis"e-rō-jel'a-tin), n. jelly consisting of gelatin I part, water 6 parts, and glycerin 7 parts: used in microscopy as a mounting and embedding medium. Also

a mounting and embedding medium. Also glycerin gelutin, glycerin jelly, glycerin gum. glycerolate (glis'e-rō-lāt), n. [glycerol + -ate¹.] Same as glycerite. glycerophosphate (glis'e-rō-fos'fāt), n. A

salt of glycerophosphoric acid with a base (iron, quinine, calcium, etc.): employed in

modicine as a nerve tonic.

glycerophosphoric (glis*e-rō-fos-for'ik), a.

Noting an acid, C₃H₉O₆P, a decomposition
product of lecithin in which it is present in

combination with choline, two of its hydroxyl groups being replaced by fatty-acid radicals.

glycerose (glis'e-rōs), n. [glycer(ol) + -ose.]
A substance formed by the oxidation of glycerol by dilute nitric acid or bromine. It was thought to be a triose, $C_3H_6O_3$, but is now known to be a mixture of glycerol aldehyde

and glycerol ketone.

glycic (glis'ik), a. [Gr. γλυκές, sweet, + -ic.]

Derived from glycerol.—Glycic acid. Same as

glycia (gue ..., colorless liquid, /O`

CH2.CH.CH2OH,

the anhydrid of glycerol, into which it is rapidly converted by the action of water. It boils at 160° C. Also called hydroxypropyleneoxid.
glycidic (gli-sid'ik), a. [glycid+-ic.] Derived

from glycerol.-Glycidic acid, a colorless liquid,

with an irritating odor. It rapidly stacks the mucous membrane and is slowly converted, by water, into glyceric acid. Also called oxyacrylic acid.—Glycidic ester, an ester of glycidic scid: usually applied, loosely, to the ethyl salt, and often written, incorrectly, glycidic ether. Glycin blue, corinth, red. See *blue, n., etc. Glycine (gli-sī'ne), n. [NL. (Linnæus, 1753; first used in his Genera Plantarum, 1737), ζ Gr. γλυκίς, sweet, + -inē, a form of -inal. The name alludes to the substitution of Indian licorice, Abrus Abrus (called Glycine Abrus by Linneus), for true licorice, Glycyrrhiza glabru.] 1. A genus of plants of the family Fabaceæ. See Apios.—2. A name incorrectly applied to Soia, a genus of plants belonging to the family Fabaceæ and including the soy-bean. $\star Soia$

4. In pugilism, one who takes a glycinin (glis'i-nin), n. [Glycine + -in².] A of punishment before he is beaten. globulin found in the soy-bean.

glycium (glis'i-um), n. In chem., same as glucinum or beryllium.

glycocholate (glī-kō-kol'āt), n.

glycocholonic (glī-kō-kō-lon'ik), a. [glyco-chol(ic) + -one + -ic.] Derived from glyco-

eholic acid.— Giycocholonic acid, a crystalline monobasic acid, C₂₈II₄₁NO₅, formed by the action of concentrated hydrochloric acid on glycocholic acid.

glycocyamidin, glycoproteid, etc. See *glucocyamidin, etc

glycoformal (glī-kō-fōr'mal), n. [glyc(erol) + formal(in).] A mixture of formalin and glycerol: used, in the form of vapor, as a disinfecting agent.

glycogelatin (glī-kō-jel'a-tin), n. A jelly-like mixture of glycerin and gelatin, used in the manufacture of lozenges and pastils and also as a vehicle for exhibiting external remedies.

glycol, n.—Diethene glycol, a compound, Cll₂OH. CH₂O.Cll₂CH₂Oll, formed by the union of ethylene oxid with glycol. It is a liquid which boils at 250°.

glycolaldehyde (gli-kol-al'de-lid), n. [Gr. γλυκός, sweet, + Ε. aldehyde.] A syrupy compound, HOCH₂.CHO, obtained by the action of barium hydroxid on bromacetaldehyde. readily gives rise to sugars. Also called hydroxyacetaldehyde.

glycoleucyte (gli-kō-lū'sīt), n. [glyco(gen) + leu(co)cyte.] A large leucocyte, especially adapted to storing nutritive substances such as glycogen, found in the blood of certain worms (for example, Sipunculus nudus).

F. Ladreyt finds that there are two very distinct types of leucocytes in this worm [Sipunculus nudus]. There are minute plastids, with very active fine pseudopodia, and central or slightly excentric nucleus (amœbocytes or phsgocytes), which have an important rôle in excretion and phagocytosis; and there are large elements, including numerous transparent spherules, without pseudopodia, with a lateral nucleus (vesicular leucocytes or "glycoleuqtes"), which are especially devoted to storing nutritive substances, like glycogen.

Jour. Roy. Micros. Soc., April, 1904, p. 183.

Glycolic acid, a colorless compound, HO.CH₂.COOH, which crystallizes in plates or needles and melts at 80° C. Its potassium sait is contained in the grease of sheep's wool. Also called hydroxyacetic acid.

glycolid (glī'kō-lid), n. [glycol + -id1.] A colorless compound,

O $\langle ^{\rm CH_2,CO}_{\rm CO,CH_2} \rangle$ O, which crystallizes in large lustrous plates and melts at 86-87° C.: formed by treating glycolic acid in a current of carbon dioxid. It is a cyclic, double ester of glycolic acid. The name was formerly applied to an auhydridof glycolic acid (C₂11₂O₂) which is now called *polyalycolid*.

glycoline (gli'kō-lin), n. [glycol + $-ine^2$.] A colorless compound, which crystallizes in rhombohedra or in lustrous plates and melts at 15° C. It is contained in commercial fusel-

glycoluril (glī-kol'ū-ril), n. [glycol + urea + -il.] A colorless compound,

co NHCHNH CO.

which crystallizes in white needles: formed by the action of hydrochloric acid on a mixture of glyoxal and urea. Also called acetylene

glycolyl (glī 'kō - lil), n. [glycol + -yl.] A bivalent organic radical, CH₂CO.

glycolylurea (gli*kō-li-lū'rē-ā), n. See *hydantoin.

glycolysis (gli-kol'i-sis), n. [Gr. γ2νκίς, sweet, + λίσις, dissolution.] The destruction of sugar in the animal body. This (in part, at least) is supposedly effected through a ferment which in ltself is inactive, but is activated by a substance formed in the pancreas which plays the rôle of a kinase. Also glucolysis.

In the liver and in the blood, their first action is to Increase glycotysis, but this effect is diminished, or even arrested, by their prolonged action.

Nature, Jan. 21, 1904, p. 287.

glycolytic (glī-kō-lit'ik), a. [glycolysis (-lyt-) + -ic.] Of or relating to glycolysis; eausing

glycolysis.—Glycolytic ferment. See *ferment. glyconucleoproteid (gli*kō-nū*klē-ō-prō'tē-id), n. A nucleoproteid in which the carbohydrate group is prominently developed. glycosecretory (glī*kō-sē-krē'tō-ri), a. [glyco-glycosecretory]

ČHN

by the interaction of ammonia and glyoxal. Also called diglyoxatine.

glycosolvol (gli kō-sol-vōl), n. [glyco(se) + L. solvere, dissolve, + -ol.] A diabetic remedy [glyco(se) +of indefinite composition and action.

glycosometer (gli-kō-som'e-ter), n. [glycose, + Gr. μετρον, measure.] An apparatus for estimating the amount of sugar present in the urine.

glycuronic (gli-kū-ron'ik), α. [Gr. γ'νκίς, sweet, + οὐρον, urine, + -one + -ic.] Derived from glucose.—Glycuronic acid, a syrupy compound, COH(cltoH)COOH, obtained by boiling cuxanthic acid with dilute sulphuric acid. It is closely related to glucose; occurs in the blood; and compounds of it with camphor, chloral, phenol, etc., are found in the urine after the administration of these substances. Also glucuronic acid.

glycyphillin (gli-si-fil'in), n. [NL. glycyphylla +-in².] A crystalline sweet glucoside, $C_{21}H_{44}$ O_{9} , extracted from the leaves of Smilax glycyphylla. It is deposited in lustrous prisms with 31 or 4H₂O (depending on the solvent used), and melts at 175-180 C. When hydrolyzed it yields phloretin and isodulcitose, and is closely allied to phlorizin if not identical with it.

glycyrretin (glis-i-ret'in), n. [glycyrrh(iza) + -et + -in².] A crystalline compound, C₃₂H₄₇O₄N, formed by the action of dilute acids on glycyrrhizic acid, which occurs, in the Gr. γωπτός, carved + καρόμα heart 1 A (Gr. γωπτός + γ form of salts, in licorico-root. It melts at

glycyrrhizic (glis-i-rī'zik), a. [glycyrrhiza + ic.] Pertaining to orderived from licorice.— Glycyrrhizic acid, a colorless tribasic acid, C₄4[l₆₃O₁₈N, resembling albumen in appearance. It gelatinizes with cold water, has a sweet taste, and occurs, as the ammonium or calcium salt, in licorice-root

glyk, n. A simplified spelling of glyph. glykemia, glykemia (gli-ke'mi-ä), n. alueemia, alueæmia,

*glycemia, glycemia.

Glyoxalic acid, a colorless syrupy compound, HCO.COOH, found in the leaves and unripe fruits of many plants, including the gooseberry. It is prepared by the exidation of alcohel, glycol, or glycerol, by means of nitric acid. With water it forms a crystalline derivative, CH(OH), COOH. The syrup and the solid are, therefore, the aldehyde and the dihydroxid respectively of oxalic acid. Also called glyoxylic acid.

glyoxaline (gli-ok'sā-lin), n. [glyoxal + -ine².]
CH: CH

CH: N , formed, A colorless compound, NH <

together with glycosine, by the action of concentrated ammonia on glyoxal. It occurs in thick nacreous prisms which melt at 89° C., boil at 255° C., and have an alkaline reaction. It is also called *imidazol* or *methylene acetylenazin*. The name *glyoxaline* is also given to certain compounds which are derived from glyoxaline itself by replacement of its hydrogen atoms by radicals

glyoxiline, glyoxyline (glī-ok'si-lin), n. [As glyox(al) + -il, -yl, $+ -inc^2$.] An explosive consisting of guncotton treated with glyoxiline, a solution of saltpeter, dried, and soaked with nitroglycerin. It closely resembles explosive gelatin, but its constituents are less intimately blended. Not to be confounded with the compound glyoxaline $({}^{L}_{3}\Pi_{4}N_{2})$.

glyoxime (gli-ok'sim), n. [As glyox(al) + ime.] A colorless compound, HON:CHCH: NOH, prepared by the action of hydroxylam-

NOH, prepared by the action of hydroxylamine on glyoxal. It crystallizes in trimetric plates and melts at 178° C. glyoxylic (gli-ok-sil'ik), a. Same as glyoxalic.—Glyoxylic actd. Same as *glyoxalic acid. glyph, n. 2. A written or pictured character, sign, or symbol representing a word or an idea; an idea and acceptance where the Mayican or Mayon. idea; an ideograph: as, the Mexican or Mayan glyphs.

glyphs.

Now, when a glyph is read as a word, the interesting phenomenon of which we have spoken is this: Words have different meanings, the same word may express different concepts, and the glyph may be read by speaking the word and attaching to it any meaning which the spoken word represents. In this early society words are mysterious things aupposed to be properties or qualities of things, rather than signs of things. When such glyphs hecome signs of spoken words they are signs of sounds. They become signs of word-sounds, then signs of syllabic sounds, and ultimately signs of alphabetic sounds; and thus picture-writing is developed into alphabetic writing.

J. W. Powell, in Rep. Bur. Amer. Ethnol., 1898-98, p. (elxviii.

Glyphæa (gli-fē'ā), n. [NL., ζ Gr. γλυφή, an engraving, ζ γλύφευν, engrave: see glyph.] Α genus of extinct macrurous crustaceans from the Jurassic and Cretaceous rocks.

glyphic, a. 2. Of the nature of a glyph or ideograph: as, glyphie words.

The written languages produced in primitive time have distinct words as ideographs; they also have a distinct grammar for the arrangement of these glyphic words unlike that of highly developed written language.

J. W. Powell, in Rep. Bur. Amer. Ethnol., 1898-99, ethylogy.

which sublime without melting. It is prepared Glyphioceras (glif-i-os'e-ras), n. [NL., irreg. by the interaction of aumonia and glyoxal. (Gr. γλίφεω, engrave, + κέρας, horn.] The ⟨Gr. γλίφειν, engrave, + κέρας, horn.] The typical genus of the family Glyphioceratidæ. As the type species of this genus, G. sphæricus, is the same as that specified by De Haan as typical of his genus Goniatites, Glyphioceras is a synonym of that term in its restricted

Glyphioceratidæ (glif"i-ō-se-rat'i-dō), n. pl. [NL., < Glyphioceras (-at-) + -idæ.] A family of ammonoid cephalopods or goniatites, in typical forms being rotund and involute with the lateral sntural lobes and saddles relatively simple. It is of Carboniferous age and is strictly synonymous with the division Goniatitidæ.

Glyptic period, in geol., a division of the Human period based on the character of the paleolithic relies found in the caves of Périgord, France.

The Magdalenian period or Glyptic of Piette has been further divided by him into two great epochs, the Eburnean or time of the mammoth, going back into glacial times, when the men lived who carved the likeness of that animal on its tusks, and the Tarandean or reindeer epoch, when the climate had ameliorated, but when reindeer still lived in the south of France and were hunted have over a divarged type of marking by a merc advanced type of mankind.

Geikie, Text-book of Geol. (4th ed.), II. vi. 1349, note.

A gem-cutter, gem-engraver, or lapidary. Glyptocardia (glip-to-kär'di-ä), n. [NL. Gr. $\gamma \lambda \nu \pi \tau \delta c$, carved, $+ \kappa a \rho \delta i a$, heart.] synonym of $\star Buchiola$ (which see).

Glyptocephalus (glip-tō-sef'a-lus), n. [NL., (Gr. γλυπτός, carved, + κεφαλή, head.] A genus of slender flounders, characterized by the great number of their vertebræ, found in deep waters of the North Atlantic and North Pacific oceans. G. cymoglossus is the Craig flounder of North Europe; G. zachirus, with long pectoral fins, is a species of the North Pacific: excellent for food.

Glyptocrinus (glip-tok'ri-nus), n. [NL., \langle Gr. $\gamma \lambda \nu \pi \tau \phi_{\mathcal{C}}$, carved, $+ \kappa \rho i \nu \sigma_{\mathcal{C}}$, lily (see crinoid).] A genus of camerate crinoids of the family Meloerinidæ, with a deep obconical calyx ornamented by ridges and radiating striæ. It is of Lower Silurian age.

glyptodontoid (glip-tō-don'toid), a. [glypto-don(t-) + -oid.] Related to or having the characters of Glyptodon.

Glyptolepis (glip-tol e-pis), n. [NL., < Gr. γλυπτός, carved, + λεπίς, a scale.] A genus of extinct ganoid fishes from the Old Red Sandstone of Britain, commonly regarded as synonymous with Holoptychius (which see).

glyptologist (glip-tol'o-jist), n. [glyptolog-y -ist.] A student or collector of engraved gems.

glyptology (glip-tol'ō-ji), n. [Gr. γλυπτός, carved, engraved, + -λογία, < λέγειν, speak.] The study of engraved gems and other small senlpture. N. Y. Sun, Feb. 23, 1904.

Glyptopomus (glip-tō-pō'mus), n. [NL., \langle Gr. $\gamma\lambda\nu\pi\tau\dot{\phi}$; carved, $+\pi\ddot{\phi}\mu a$, a lid.] A genus of ganoid fishes from the Old Red Sandstone of Scotland. The scales and external boues are ornamented with irregular wrinkles.

Glyptoscorpius (glip-tō-skôr'pi-us), n. [NL., ζ Gr. γλυπτός, carved, + σκορπίος, a scorpion.] A genus of merostome Crustueea of the order Eurypteridæ, with decided araebnid affinities in the clawed limbs and the comb-like structures similar to the pectines of scorpions. is found in the coal-measures of Scotland.

glyptothek (glüp"tō-tāk'), n. [G.] Same as glyptotheea

gm. An abbreviation of gram. G. M. B. An abbreviation of Great Master of the Bath

G. M. I. E. An abbreviation of Grand Master of the Indian Empire.

G. M. K. P. An abbreviation of the Knights of St. Patrick. An abbreviation of Grand Master

G. M. M. G. An abbreviation of Grand Master of St. Michael and St. George.
G. M. P. An abbreviation of Grand Master of

Patrick.

G. M. S. I. An abbreviation of Grand Master

gnat¹, n.—Potato-scab gnat, a mycetophilid fly, Epidapus scabiei, which breeds in scabby potatoes and transmits the disease to healthy tubers.

gnathion (nath'i-on), n. [NL., dim. \langle Gr. $\gamma \nu \hat{a} \theta o \varsigma$, jaw.] Same as mental point (which see). See also cut under eraniometry.

gnathism (nath'izm), n. [Gr. γνάθος, jaw, + -ism.] The angle of projection of the upper

jaw measured by the angle between the horizontal and one of the facial lines. See prognathism, orthognathism.

gnathobase (nath ō-bās), n. [Gr. γνάθος, jaw, + βάσις, base.] The proximal or coxal extremity of the leg in many Crustacea when modified for the purpose of crushing food by the development of a series of short hard spines, as in Limulus.

gnathobasic (nath-ō-bā'sik), a. [gnathobase + -ic.] Pertaining to or of the nature of a

gnathobase. Annals and Mag. Nat. Hist., Feb., 1904, p. 155.

Gnathobdellidæ (nath-ob-del'i-dē), n. pl. [NL., \langle Gnathobdella + -idæ.] A family of fresh-water and land leeches. They have jawa; [NL., \langle Gnathobdella + -idæ.] A family of fresh-water and land leeches. They have jaws; no protrusible proboscis; red blood; five rings to a complete segment; and botryoidal tissne. The family includes several important genera, among them Nephelis, Hirudo, Aulostoma, Hæmopsis, and Hæmodipsa. Hirudo medicinadis is the apothecary's leech. It is cultivated in special ponds and is not sexually mature until it is three years old. In the young stage it feeds upon the blood of insects, and then on that of frogs; but when it becomes mature a diet of warm blood is required. Aulostoma, often called the horse-leech, feeds upon worms and mollusks. Hæmopsis vorax, the horse-leech of Europe and North Africa, attaches itself to the inside of the throat of horses, cattle, and men. Hæmadipsa, the land-leech, is found in forests of damp districts in the tropics. See Hirudinidæ and leechz.

gnathochilarium (nath "ō-ki-lā Tri-um), n.; pl. gnathochilarium (nath "ō-ki-lā Tri-um), jaw,

gnathochilaria (-ä). [NL., < Gr. γνάθος, jaw, + χεῖλος, lip, + -arium.] In myriapods, a plate-like under lip constituting the floor of the mouth and formed of the second pair of jaws, as in the Diplopoda.

gnathometer (na-thom'e-ter), n. [Gr. γνάθος, jaw, + μέτρον, measure.] An instrument used for measuring the angles of the lower jaw. gnathonism (nā'thō-nizm), n. [L. Gnatho(n-), name of a parasite in Plautus and Terence, $\langle Gr. \Gamma\nu \acute{a}\theta\omega\nu$, a nickname ('one who is all jaw'),

ζνάθος, jáw.] Sycophancy.

"Could the light of auch a Gospel as we profess be eclipsed with the interposition of a single marriage?" And yet Hacket must have lived to see the practical confutation of this shallow Gnathonism in the result of the marriage with the Papist Henrietta of France!

Coleridge, Notes on Hacket, in Lit. Remains, III. 187.

gnathophorous (nā-thof'ō-rus), a. [Gr. γνάθος, jaw, + -φορος, < φέρεν, bear.] Bearing jaws: noting the jaw-bearing sclerites of arthropods. gnathopod, n. 2. A gnathopodite. Gnathostomata, n. 3. A tribe of irregular cabinating hours a control positions of the control positions.

echinoids having a central peristome rounded by a perignathic girdle, the ambulaera all similar, and the jaws present but some-times rudimentary. It includes both living and extinct genera.—4. A name given by Haeckel to a superclass of vertebrates containing the forms with true jaws, (normally) two pairs of limbs, and double nostrils. Same as Gnathostomi and synonomous with Amphirhina. gnathostomate (nā-thos'tō-māt), a. [Gr. $\gamma \nu d\theta o_{\varsigma}$, jaw, $+\sigma \tau \dot{o}\mu a$, mouth, $+-ate^{1}$.] Having a masticatory apparatus, as in echinoids. gnathostome (nath'ō-stōm), n. A member of the Gnathostomata, or vertebrates having true jaws.

The gnathostomes embrace the great majority of verterates.

J. T. Kingsley, Vert. Zool., p. 225.

gnatoo (ngä'tö), n. [Tonga gnatoo, more propspelled *ngatu, or, as now, gatu (pron. ngä'tö).] A paper-cloth (kapa or tapa) made from the bark of the psper-mulberry (Broussonetia papyrifera), and printed with a pattern.
gnaur, n. Same as gnarl and knarl.

gneiss, n.—Bojan gneiss, a red gneiss found on the border of Bavaria and Bohemia.—Fundamental gneiss. Same as *basement complex.—Hercynian gneiss. See *Hercynian, 2.—Lewisian gneiss, massive gneisses of the Hebrides and northern Scotland: named after the island of Lewis by Murchison in 1858. See *Lewisian*

gneissitic (nī-sit'ik), a. Same as gneissic. gneissosity (nī-sos'i-ti), n. [gneissose + -ity.] In petrog., the character or structure of gneiss. Gnetales (nē-tā'lēz), n. pl. [NL. (Engler, 1887), < Gneium + -ales.] An order of gymno-time the character of the character of gymno-time the gymno-time the gymno-time the gymno-time the gymno-time the gymno-time the gymno-time that gymno-time the gymno-time the gymno-time that gymno-time the gymno-time the gymno-time that gymno-time the gymno-time the gymno-time that gymno-time the gymnospermous plants containing the family Gneta-

of the Star of India.

G. M. T. An abbreviation of Greenwich meridian time.

gnomish (nō'mist), a. [gnome + -ish¹.]

Gnome-like: as, gnomish faces.

gnat¹, n. — Potato-scab gnat, a myeetophlid fly,

gnomist (nō'mist), n. [gnome + -ist.] A gnomic poet; a writer of proverbs and apo-

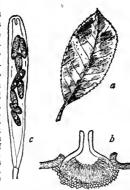
> gnomium (nō'mi-um), n. [NL., alluding to the etymological meaning of the associated cobalt; $\langle gnome^2 \rangle$.] In chem., a supposed new metal having a high atomic weight, which Krüss announced in 1892 as associated with

nickel and cobalt, and the presence of which he believed to be the cause of the assignment of too high a value to the atomic weight of cobalt. It has been shown that the supposed discovery was an error. gnomologist (nō-mol'ō-jist), n,

+ -ist.] Same as gnomonist. Gnomonia (nō-mō'ni-ā), n. [NL. (Cesati and de Notaris, 1863), < Gr. γνώμων, the index of a dial,

a pillar, rod: see gnomon.] A genus of pyrenomycetous fungi, type of the family Gnomoniacee, having the aceæ, having the perithecia embedded in the tissue of the host, with only the elongated necks projecting.
The spores are elongate, hyaline, and 2or 4-celled. About gate, hyaline, and 2-or 4-celled. About 60 species have been described, many of which are parasitic. G. erythrostoma attacks the leaves of the cherry, producing *leaf-scorch (which see).





Gnomonia erythrostoma. a, diseased leaf of cherry showing the habit of the fungus (reduced): b, section through a perithecium (enlarged): c, an ascus, containing eight spores (highly magnified).

fungi of the order Sphærioles named from the genus Gnomonia. They have membranous perithetia embedded in the tissue of the host and usually with an elongate projecting neck. The spores are hyaline. See **Gnomonia.**

Gnomonic net. See *net¹.
gnomonological (no "mo -no -loj'i-kal), a.
[gnomonolog-y + -ic-al¹.] Pertaining to the art of dualing. Bailey.

gnoscopine (nos' kō-pin), n. [Appar. \langle Gr. $(\gamma\iota)\gamma\nu\omega\sigma\kappa\epsilon\iota\nu$, know, + $\delta\pi\iota\sigma\nu$, opium, + - ine^2 .] A colorless alkaloid, C22H23O4N, which crystallizes in lustrous prisms and melts at 228° C. It is contained in opium and is closely related to narcotine.

gnostid (nos'tid), n. and a. I. n. A member of the family Gnostidæ.

II. a. Of or belonging to the coleopterous family Gnostidæ.

family Gnostidæ.

go, v. i.—Going through the fleet (naut.), a form of punishment at one time used in the navy in which the eulprit received a portion of the flogging to which he had been sentenced alongside of each of the various vessels which made up the fleet. It was punishment of the most degrading character.—Going to Boston, a game of poker-dice with three dice only, the winner being the player with the highest number of pips up. Sometimes called Yankee grab. See *poker-dice.—Going witness. See *viiness.—Let her go off (naut.), an order to the man at the wheel to put the tiller to the weather side so that the vessel'a head may pay off to leeward.—To go free (naut.), to sail so that theyards may be hraced in and the sheets slacked. See free, adv.—To go in. (b) In poker, to put up the ante for drawing carda; to go into a jack-pot which is already opened.—To go large (naut.), to sail with the wind well abaft the beam.—To go over, (a) (2) In bridge, to double the value of the trump. See *bridge.

go, n. 8. As much as is or can be fetched at

go, n. 8. As much as is or can be fetched at one going or trip: as, to fetch a go of water from the well; hence, as much as is supplied at one time; a dram: as, a go of gin. [Colloq.]—9. A bargain; a compact; a thing fully agreed upon: as, "Well! is it a go?" [Colloq.]—On the go, reatlessly or busily active: as, he a on the go all the time.

go² (gō), n. [Jap.] A Japanese me capacity equal to 11.01 cubic inches. A Japanese measure of

Go. An abbreviation of Gothic.
G. O. An abbreviation (a) of General Order;
(b) [l. c.] of great organ.
goaf-burned (gōf 'bernd), a. [goaf, 2, +burned.] Heated in the mow or goaf. N. E. D.
Chwolete or prov. Eng.]

goaf-horse (gof'hôrs), n. [goaf, 2. + horse.]

A horse ridden npon grain stored in a barn to compress it. N. E. D. [Obsolete or prov. Eng.]

goai (gố'i), n. [A colonial form of Maori kowhai (see def.) = Hawaiian ohai, Mangarevan koai, Panmotan kofai, applied to different planta.] In the sonthern island of New Zealand, the timber of the native locust or goai (go'i), n. yellow kowhai, Sophora tetraptera, a member of the bean family. The timber is red in color and very durable, and is used for fencing and

for piles in bridges and wharves. goal, n. 7. In astron., the point on the celestial sphere toward which the motion of a body

specifically, the lace-lizard, Varanus varius. Also gohanna.

go-ashore (gō'a-shōr"), n. [Said to be a fanciful perversion of the Maori name kōhua. This could be heard as *gowa, which, understood as an incomplete phrase go a-, could be neatly completed, in a nautical fashion, as go-ashore.] A three-legged iron pot with two ears to which was attached a wire handle for suspension on a crane over a fire. [New Zealand.]—Go-ashores (naut.), a seaman's best suit of clothes.

(naut.), a seaman's best auit of clothes.

goat!, n.—Cashmere goat, a small, strongly built variety of the domesticated goat, Capra hireus, which has a thick undercoat of wool beneath the long outer hair. The wool is combed out in summer and used for making eashmere shawls and fine cloth. The variety is found most abundantly in Tibet.—Nublan goat, a long-legged, earse-haired breed of goat, found in Nubla, Upper Egypt, and Abyssinia, which has the face strongly curved, the horns lying close to the neck, and the ears long and pendulous.—To ride the goat. See *ride.

goat-bush (gōt'bush), n. A prickly shrub, Castela Nicholsoni, of the quassia family, growing in the sonthwestern United States and northern Mexico. Also called chaparro-

and northern Mexico. Also called chaparro-amargoso, on account of its bitter bark. See amargoso-bark.

goat-fig (gōt'fig), n. Same as caprifig.
goat-fish, n.—Yellow goat-fish, Upeneus martinicus,
a fish of the family Multidee, found in West Indian waters
and north to Key West.

goat-horn (gōt'hôrn), n. A form of lightningarrester consisting of two metal rods, bent in the form of horns facing each other, one of which is connected with the ground and the other to the transmission-line which is to be protected.

goat-jug (got'jug), n. A cream-jug having a base modeled in the form of a reenmbent goat and the figure of a bee modeled in relief. Juga of this design were made in the eighteenth century at both Bow and Chelsea, England.

goatling (gōt'ling), n. A young goat; specifically, a goat between one and two years old.

[At] the half-yearly meeting of the British Goat Society as adopted, to distinguish goats above 12 months and nder two years old.

Times (London), Dec. 7, 1883. under two years old.

goat-moth, n.—Popiar goat-moth, a North American cossid moth, Cossus centerensis, whose larva borea in the trunks of Populus tremuloides.

goat's-beard, n.—Dwarf goat's-beard, the dwarf dandelion, Krigia Dandelion.—Virginia goat's-beard, Krigia Virginica, a plant with a scape one to two feet high and handsone orange-yellow flowers, found throughout most of eastern North America. Also called cynthia.

Goatweed emperor. See *emperor.

gob¹ (gob), v. i.; pret, and pp. gobbed, ppr. gobbing. To brag; boast. [Prov. Eng.] gobble¹ (gob¹l), n. In golf, a putt played with such force that it would be carried some dis-

tance past the hole if it did not go in, but which does go in.

gobbler¹, n. 2. An automatic bucket the halves of which separate at the bottom when lowered of which separate at the bottom when lowered and close when a strain is put upon the hoisting-chain, digging into the material to be loaded. When the strain is removed the godmother, weight of the load causes the bucket to open. Weight of the load causes the bucket to open. The load causes the load causes the bucket to open. The load causes the bucket to open. The load causes the load causes the load causes the load causes gobbo (gob'o), n. [Prob. W. African.] okra or bandakai, Abelmoschus esculentus.

lous person. gobernadora (gö"ber-nä-dö'rä), n. [Span., westernador westernor.] In Mexico, fem. of gobernador, governor.] In Mexico, Covillea tridentata, the creosote-bush, an illsmelling evergreen bush of the family Zygophyllaceæ. An infusion or tincture of the leaves is used as a remedy for gout and rheumatism.

gobernadorcillo (gō-ber-nā-dōr-thēl'yō), n. Amer. Jour. Relig. Psychol. and Education, May, 1994, [Philippine Sp., dim. of gobernador, governor.]
The governor or head-man of a village or goeduck (gō'ē-dnk), n. [Also geoduck; from a. small town in the Philippines.

is directed: thus, the earth's goal at any moment is a point on the ecliptic about 90 degrees west of the sun.

goal-cage (gol'kāj), n. In roller-polo, the wire netting which stops the ball in the goal after its entrance.

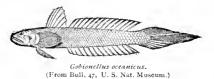
goal-line (gol'līn), n. In foot-ball, hockey, lactorsse, and similar games, a line at the end of the field which passes through the goals.

goal-striker (gol'stri*kèr), n. In certain games, the player who stands nearest his opponent's goal and endeavors to strike the ball through it.

goanna (gō-an'ā), n. A popular variant of guana (an abbreviated form of ignana) in common use in Australia for any large lizard; specifically, the lace-lizard, Varanus varius.

Gobionelus (gō*bi-ō-anel'us), n. [NL., < L. gobion, tie properly restricted to front guana) in common use in Australia for any large lizard; specifically, the lace-lizard, Varanus varius.

gobio(n-), goby, + -ellus.] A genus of gobies



characterized by the elongate body and

pointed caudal fin. G. oceanicus is the commonest American species.

Gobiosoma (gö"bi-ō-sō'mā),n. [NL., <L. gobius, goby, + Gr. σωμα, body.] A genus of small gobies characterized by the naked body and

blunt head. G. bosci is common along the Virginia and Carolina coasts.

goblinic (gob-lin'ik), a. [goblin + -ic.] Goblin-like; of the nature of a goblin; of orpertaining to a goblin.

gobo (gō'bō), n. [Jap. go-bō.] The common burdock, Arctium Lappa. It is much cultivated in Japan for its root, which is there a popular garden vegetable.

goborro (gō-bor'ō), n. [Aboriginal Australian name.] The Australian dwarf-box, Eucalyptus microtheca. See *coolibah.

goburra (gō-bur'ā), n. A variant of kookaburra, the aboriginal Australian name for the laughing-jackass, Dacclo gigas. Also gobera.

ing-jackass, Dacclo gigas. Also gobera, goby, n.—Blind goby, a small goby, Typhlogobius californicists, without eyes in the adult stage, found on the coast of California.—Crested goby, a fish of the genus Lophogobius, characterized by a short body and a crested head, found in the waters of Cuba.—Half-naked goby, a fish of the genus Garmannia, found on the shores of Panama.—Long-jawed goby, a name given to fishes of the species Gilichthys mirabilis, a small goby found burrowing in the mud on the coast of California, remarkable for the backward extension of its upper jaw.—Naked goby, a fish of the genus Gobiosoma, found in the south Atlantie and Gulf coasts of the United States.

god¹, m.—Little tin god or little tin god on wheels, a slang name for a man who assumes an air of importance and authority ludicronsly out of proportion to his actual position and attainments; a man who makes a fetish of himself.

Wherefore the Little Tin Gods harried their little tin

Seeing he came not from Chatham, jingled no spurs at his heels, Knowing that, nevertheless, was he first on the Govern-

ment rolls

For the billet of "Railway Instructor to Little Tin Gods on Wheela." on Wheeta."
R. Kipling, Departmental Ditties, Public Waste, st. 5.

The dusk of the gods. See the *twilight of the gods.—
The twilight of the gods. See *twilight.
Goddess of Liberty [L. Libertas], liberty personified
by the Romans as a goddess: occasionally used as an

godfather (god'fä"THer), v. t. [godfather, n.]

To act as godfather to; be sponsor for. Burke. godhed, n. A simplified spelling of godhead. goditcha (gō-di'chā), n. Same as *kurdaitcha, 2.

godrooned (go-drond), p. a. [godroon + ed2, after F. godronné.] Ornamented with godroons. okra or bandakai, Avelmoscaus escautates, gobernouche (gôb-môsh'). n. [F., \(\) gober, gulp, after F. godronné.] Ornamented with godronné. Ornamented with godronné. Ornamented with godronné god-shelf (god'shelf), n. In Japan, a shelf in a household on which are placed the objects. of household worship, forming a kind of domestic altar: the Japanese name is kami-dana, and among Buddhists Butsu-dana. See *Kami-dana.

among Buddhists Datastedata. See "Antonegamen." Wanted a religion" is the title of a missionary's description of Japan. This, Gulick denies and eites the countless gods, pious pilgrimages to eighty-eight sacred places, the god-shelves in every home, the 71,831 Buddhist temples and 190,803 officially registered ahrines.

Amer. Jour. Relig. Psychol. and Education, May, 1904, [p. 98.

native name.] A large edible clam, Panopea.

generosa, of the northwest coast of the United tates. With siphons extended it sometimes reaches a ngth of from 3 to 4 feet and weighs from 6 to 10 pounds. lives buried deep in sand or clay near low-tide mark.



Goeduck (Panopea generosa).

In Alaskan waters is found a monster clam, the "geoduck," one of which would afford a meal for several persons; not so large, however, as the great tridaena and its species, which weighs, with its two valves, five hundred pounds, the animal alone weighing thirty.

Sci. Amer. Sup., April 11, 1903, p. 22,805.

goelism (gō'e-lizm), n. [Heb. goel (redeemer, avenger), + -ism.] The custom which recognizes an authorized 'avenger of blood' and makes blood-revenge obligatory.

goemin (gō'e-min), n. [F. goém(on) (\langle Bret-gwemon, seaweed) + -in².] A compound obtained from Irish moss, obtained by boiling carrageen.

gofer-iron (gō'fer-i"ern), n. A double mold with long handles in which gofers, or waffles are baked; a gofering-iron. Also called gofertonus.

gofer-tongs (go'fer-tongz), n. pl. Same as

Goffered schist. See *sehist.

goffering-frame (gof'er-ing-fram), n. A frame with a series of small rods between which the fabric to be goffered or ruffled is worked.

goffering-machine (gof'er-ing-ma-shēn"), n. An apparatus for plaiting or ruffling textile fabrics.

goffering-tongs (gof'er-ing-tongs), n. pl. An iron tool which is heated and used for goffering or ruffling fabries.

goggle1, n. 3. pl. A parasitic disease of sheep, caused by the presence of a bladder-worm in the brain which causes dizziness, staggering gait, walking in a circle, spasms, and convulsions. Also called staggers, gid, and turnsick. — 4. [pl.] The garden gooseberry, Ribes Grossularia

Goggle-eyed scad. Same as goggle-eyed jack. goggle-goy (gog'l-goi), n. The hellgrammite fly, Corydalus cornutus. [Local, New Eng.] goggly (gog'li), a. Affected with the goggles:

as, goggly sheep.

gogo (gō'gō), n. [Tagalog name.] In the Philippine Islands, a giant climber, Lens phaseoloides, of the mimosa family, usually growing near the sea, the stems of which are pounded and used as a detergent by the natives. See sea-bean, 1, simitar-pod, match-box *bean, and *bayogo, with cut.
gohanna (gō-han'ä), n.

See *goanna.

gonanna (go-han'a), n. See *goanna gohei (gō-ha'), n. [Chino-Jap. gō, (Chin. yü), august, imperial; + hei, (Chin. pi), a present or presents.] In the Shinto shrines of Japan, a slender wand of unpainted and unvarnished wood, originally a branch of Cieyera japonica, from which hang two long strips of white Japanese paper, notched alternative or protein of the strips of white Japanese paper, notched alternative or protein of the strips of white Japanese paper, notched alternative or protein of the strips of white Japanese paper, notched alternative or protein or strips of white Japanese paper, notched alternative or protein or strips of white Japanese paper, notched alternative or protein or strips of white Japanese paper, notched alternative or protein or strips of white Japanese paper, notched alternative or protein or strips of white Japanese paper, notched alternative or protein or prote nately on opposite sides, representing offerings of rough and fine white eloth. There is but one gohei to cach deity worshiped at any

one gone to each derry worshiped at any particular temple. M. Salow.

Goidel (goi'del), n. [Olr. Göidel, pl. Göidil, a Gael: see Gael. and cf. Gadhel.] A member of the 'Gaelie' branch of the Celtic race, namely, the branch represented by the Irish and the Gaels of Scotland. See Gadhels, in The Century Cyclopedia of Names.

goidelic (goi-del'ik), a. and n. I. a. Of or pertaining to the Goidels.

II. n. The language of the Goidels ancient

Celtie of the branch represented by Old Irish, and by modern Irish and Gaelic.

going, n, 7. In stair-building, the width of the stairway or length of a tread. [Local Eng.] going-train (gō'ing-trān), n. An operating train; that part of the gear-train in a timepiece which drives the hands.

heart of a rope; the core in the center of a

gola (gō'lā), n. [Also golah; < Hind. golā, a warehouse, esp. for grain, a curb, a pier, a ball, ete., a cannon-ball, ete., (gol, round.) A ware-

Indian.

Golconda (gol-kon'dä), n. The name of a city of India noted in the sixteenth century for its great diamond-cutting industry; hence, allusively, a mine of wealth.

gold. I. n.—Abyssinian gold. Same as talmi-gold.—Alluvial gold, placer-gold.—Best gold, the hit in the gold which is nearest the central point of the target. gold. I. n.—Abyssinian gold. Same as taimi-gold.
—Alluvial gold, placer-gold.—Best gold, the hit in the gold which is nearest the central point of the target. In archery competitions a prize is often given for the best gold. Burmese gold, gold to which a yellow or red color has been imparted by treatment with acids and the subsequent application of ronge and other reddish colorations to the depressed parts of the ornamentation.—Burnished gold, in ceram., porcelain gilding which has been brightly burnished by means of a bloodstone burnishing-tool.—Chased gold, in ceram., gilding on porcelain glaze which has been brightened in places by means of a pointed agate burnishing-tool. The lines are formed by working the point to and fro over the dull gold and are widened by repetition. At \$2 vres and some other French factorics intricate patterns and elaborate pictures were drawn on the dull gold ground and executed in this manner, the result being a beautiful contrasting effect of bright and dead or mat gold, exhibiting the accuracy of a fine engraving. This process has also been employed to some extent in England and other European countries, but is particularly characteristic of fine French porcelains made about 1830.—Dlamine gold, a direct cotton coal-tar color of the disazo type derived from diamidonaphthalene. It dyes unmordanted cotton a golden yellow in an alkaline salt hath.—Glassburshed gold, in ceram., porcelain gilding which larubbed with a brush of glass fibers to produce a .emibright effect. This method is an improvement upon the gold-sanding process, and was quicker in its results. See sanded ★gold.—Gold brick, a brick-shaped mass of gilded metal of no intrinsic value, which plausible swindlers, of a certain class, sometimes pass off as genuine, at a tempting price, on unway purchasers; hence, any similar swindle. Frequently used attributively: as, another gold-brick swindle. [Slang, U. S.].—Jeweler's gold, an alloy containing three parts of gold to one of copper: known as 18 karat gold, that is, gold of

II. a.—Gold brown. Same as phenylene brown (which see, under brown).—Gold luster, penny. See **luster2*, etc.—Gold reserve. See reserve. gold-balls (gold balz), n. pl. Buttercups; applied more especially to the creeping butteratt.

cup, Ranunculus repens.
gold-beetle (gold'be*tl), n. Anyone of several leaf-beetles and tortoise-beetles, as Chrysochus auratus and Coptocycla aurichalcea.
gold-boat (gōld'bōt), n. A boat used in

dredging for gold.

gold-bug (gold'bug), n. 1. A beetle of a golden color.

2. An advocate of the single gold standard in finance; a 'gold man.' [Opprobrious and slang.

gold-chain (göld'chān), n. The wall-pepper,

Sedum acre.

gold-cure (gold'kūr), n. A secret method of treatment of the drink habit in which the chier remedy employed is said to be chlorid of gold. gold-diggings (gōld'dig"ingz), n. pl. Any region where gold-bearing sands and gravel abound and where gold is being exploited by

digging and washing: sometimes also applied to the mining of gold-bearing quartz.

gold-dropper (gold'drop"er), n. A sharper; one of a pair who, having dropped a gold coin, picks it up in the presence of a stranger, and pretending to have just found it, engages his

pretending to have just found it, engages his attention while the confederate robs him. Golden aster, any plant of the genus Chrysopsis, asterlike composites of North America with bright golden-yellow flowers. C. Mariana, the Maryland golden aster, is very abundant in the eastern United States and one of the handsomest wild flowers, blooming from July to September.—Golden ball, in bot, the globe-flower, Trollins Europeus, applied also to the American or spreading globe-flower, T. lazus.—Golden book, the official list of the mobility of Venice.—Golden calf, earth, grease, syrup, text, type. See *calf1, etc.—Golden cup, golden guineas, the pilewort or lesser celandine, Ficaria Ficaria.

goldeneye, n. 4. Melithreptus lunulatus, a small species of honey-eater. [Australia.]

small species of honey-eater. [Australia.] goldenglow (gol'dn-glō), n. The tall cone-flower, Rudbekia laciniata, which has a profusion of yellow flowers, the conical disk being also yellow. It ranges from Canada to New

goke2 (gōk), n. [A var. of eolk1.] Naut., the golden-Jerusalem (gōl "dn-jē-rö'sa-lem), n.

The common cone-flower, Rudbeckia hirta.

goldenknop, n. 2. pl. Same as *goldenops.
goldenlocks (gōl'dn-loks), n. 1. The common
polypody, Polypodium vulgare.—2. The golden
eudweed, Pterocaulon virgatum.

house for storing grain, salt, etc. [Anglo-goldenoak (gol'dn-ok), n. The smooth false foxglove, Dasistoma Virginieum, the leaves of which resemble those of the oak.

which resemble those of the oak.

goldenrod, n.—Alpine goldenrod, Solidago alpestris, of alpine summits in Europe and of the White and Green Mountains in America. It belongs to the type of S. Virgaurea, but is dwarf with very few large heads and apatulate radical leaves.—Anise-scented goldenrod. Same as sweet *goldenrod.—Beach-goldenrod. Same as sweet *goldenrod.—Beach-goldenrod. Same as sweet *goldenrod.—Beach-goldenrod. Same as sweet *goldenrod.—Beach-goldenrod. Sales as seaside-*goldenrod.—Buc-stemmed goldenrod. Solidago cwsia, a low, partially prostrate or reclining species with usually bluish or purple stems, lanceolate, sharply serrate leaves, and bright-yellow heads mostly in clustera in the axils of the reduced upper leaves: common in eastern North America.—Bog-goldenrod, Solidago uliginosa, a stout thyrsiform species growing in bogs and swamps, chiefly in the region of the Grest Lakes and extending east to Newfoundland and south to New Jersey: it blooms in July.—Boott's goldenrod, Solidago Boottii, a slender and graceful species with few one-sided racemis and long lanceolate serrate leaves rarrowed into winged petioles: found rather sparingly in dry woods from Virginia to Florida and Texas.—Broadleaved goldenrod, Euthamia gramminfolia and E. leptocephala, the latter distinguished as Western bushy goldenrod.—Bushy goldenrod.—Bushy goldenrod. Sume as zigaga *goldenrod. Solidago the rays more numerous than the disk-flowers, and linear entire leaves. They are also more or less fragrant, and hence are called fragrant goldenrod, at least the eastern United States species, which, however, is widely distributed, ranging from New Brunswick to Florida and west to Nebraska and the Northwest Territory. The other species is more slender, and is found from Missouri to Louisiana and Texas.—Canada or Canadian goldenrods. It has large

and typical of American golden-rods. It has large pyramidal panicles of recurved, one-sided racemes, and lanceolate, coarsely toothed, triple-nerved leaves. It sometimes attains a height of 8 feet, and often grows in dense masses, mon-opolizing the soil and becoming a noxious weed. The color of the flowers is a rather dull yellow, and the species is in many respects lanceolate, coarsely is in many respects than several other smaller and less abundant ones. It occurs from New ornamental occurs from New Brunswick to Brit-



a, summit of stem and inflorescence; δ , middle portion of stem; c, a ray flower; d, a disk flower; a and δ , one sixth natural size, c and d, enlarged.

goldenrod

Fanges from Newfoundland to British Columbia and south to Georgia and Texas.—Missouri goldenrod, Solidago Missouriensis, a widely distributed species of the western prairies of North America, ranging from Tennessee to Washington and from Texas to Manitoba. It sometimes grows 3 feet high and has linear-lanceolate triple-nerved leaves and terminal panicles of secund recurved branches.—Noble goldenrod, Solidago speciosa, a stout, tall species with broad ovate leaves, bearing a large terminal thyrse, ranging from Nova Scotia to North Carolina and west to Minnesota and Nebraska.—Northern goldenrod, Solidago multiradiata, a small, somewhat aberrant species with spatulate leaves, mostly near the ground, and a amall terminal corymbose cyme of large heads sometimes having as many as 15 rays. It is found far north from Labrador and Iludson Bay to British Columbia, and south in the Rocky Mountains to Colorado.—Pale goldenrod. Same as white *goldenrod.—Pine-barrens of New Jersey, extending southward to Florida and Louisiana. It has ovate or lanceolate leaves and an open terminal panicle of recurved secund branches.—Plume-goldenrod. Solidago squarrosa and S. pettolaris, two anomalous species with elongate heads in which the conspicuous green recurved tips of the involucral bracts give them a squarrose or ragged appearance. The former ranges from New Brunswick and Ontario to Virginia and Ohio, and the latter from North Carolina to Florida and westward to Kanasa and Texas.—Rayless goldenrod, Chondrophora nudata, a plant resembling the cymose type of goldenrod, but destitute of ray-flowers. It has a slender stem with linear-spatulate root-leaves much reduced above, and open corymbose cymes of yellow flowers. It occurs in the pine-barrens of New Jersey and thencesouth to Florida and west to Texas. The rabbit-brush, with cut), and C. Houdraff is distin-

rayless goldenrod (see rnbbit-brush, with cut), and C. Howardi la distinguished as Howard's rayless coldens and coldens and coldens coldens.



Solidago rupestris, a handsome species growing on rocky banks of streams from Pennsylvania to Indiana and Tennessee. It has a slender stem 2-3 feet high, leafless below, the leaves linear-lanceolate, triple-nerved, and distantly sharply toothed, and a terminal pyramidal thyrae of dense, recurved, one-sided branches, aymmetrically disposed.—Rough-leaved goldenrod. Same as spreading *goldenrod.—Salt-marsh goldenrod. Same as sepadide.*goldenrod.—Salt-marsh goldenrod. Same as semetrivens, a stout, leafy species inhabiting sea-beaches and salt-marshes from New Brunswick to Florida, and found also in Bermuda. It has thick, fleshy, entire leaves densely crowded on the stem, and a large terminal leafy panicle of compact heads on short recurved branches.—Sharp-toothed goldenrod. Same as early *goldenrod. So called from the sharply serrate leaves, which, however, is not a constant character, the leaves being sometimes entire.—Showy goldenrod. Same as noble *goldenrod.—Spreading, goldenrod, Solidago patula, remarkable for the widely spreading, secund, recurved branches of the loose panicle. It is a stout, rigid plant, sometimes 6 feet high, with broad elliptical, sharply serrate leaves on long winged petioles, and often angled stems. It grows in swamps from Maine to Minnesota and south to Georgia and Texas.—Stiff goldenrod, Solidago rigida, a very stout, tall species with thick and rigid ovate or oblong, long-petioled leaves and dense terminal corymbose cymes of clustered heads on slightly secund branches. It is found from Canada to Georgia and west to the Northwest Territory and Texas.—Swamp-goldenrod, Solidago neglecta, a rather large and showy plant growing in swamps from New Brunswick to Maryland and west to Wisconsin and Illinois. It has long, lanceolate, serrate leaves on margined petioles, and a terminal thyrsoid panicle of flowers on one-sided, much-recurved hranches. The name is sometimes applied to the bog-goldenrod,—Solidago harod and soldenrod, solidago dora. The whole plant has a strong odor of anise, and is

weak and more or less reclining, and very broad, thin, ovate, acuminate, and finely serrate leaves, the flowers disposed in short axillary racemose clusters forming a narrow, loose terminal thyrse. It grows in rich woods from New Brunswick to Georgia and west to Minnesota and Missouri. Also called broad-leaved goldenrod.

gold-spangle (göld'spang*gl), n. A British collectors' name for a nectuid moth, Plusia festucæ.

goldenrod-gall (gōl'dn-rod-gâl"), n. A gall er blight on the goldenrod caused by the maggot of a fly, Trypeta solidaginis, or of a tineid meth, Galechia gallæosolidaginis.

goldenseal, n. 2. The false or wild spikenard, Vagnera racemosa.

golden-shower (gol'dn-shou#er), n. The laburnum. - Golden-shower tree, the purging cassia,

golden-slipper (gol'dn-slip"er), n. The larger yellow lady's-slipper, Cypripedium hirsutum. goldenstar (gōl'dn-stär), n. Same as *golden

goldenstars (gēl'dn-stärz), n. A Californian goldenstars (gol'dn-stärz), n. A Californian liliaceous plant, Bloomeria eroeca, nearly related to Hookera. The yellow flowers, an inch across, are borne in umbels of 50 to 60 each, appearing in great profusion at the close of spring.

goldentop (gōl'dn-top), n. An ornamental grass, Achyrodes aureum, which grows in low

tufts and bears elegant one-sided panicles. It has been introduced from the Mediterranean regien into seuthern California, where it has

become spontaneous. goldentuft (göl'dn-tuft), n. See Pteroeaulon. goldenwing (gol'dn-wing), n. A shortened form of golden-winged woodpecker; the flicker. gold-fever (gold'fa"ver), n. A feverish desire to search for gold.

The height of the Klondike gold-fever in 1897. Geog. Jour. (R. G. S.), XIII. 305.

gold-field, n. 2. pl. In California, a plant of the composite genus Bæria and to some extent of the related genus Lasthenia: so named from the fact that these plants cover the ground with their yellow bloom. The species are low herbs, some of which endure saline or alkaline

goldfinch, n. 6. In angling, the name of an artificial salmon-fly.
gold-founded (göld'founded), p. a. Founded

in connection with the discovery or exploita-tion of gold: as, a gold-founded city or town.

I rode up the narrow street, serpentine in construction as in all gold-founded townships.

Rolf Boldrewood, Miner's Right, ix.

gold-fringe (göld'frinj), n. An English collectors name for a pyralid meth common to Europe and the United States, Hypsopygia costalis, the adult of the clever hay-worm.

goldknops (gold'nops), n. Either the tall but-

terenp, Ranunculus acris, or the creeping but-terenp, R. repens. Also goldenknops. gold-opal (gold'ō"pal). n. An opal of which the flames are of a rich golden-yellow color; also, an opal which is without a play of color and is cut with facets, forming a brilliant red or yellow-red stone.

gold-print (gold'print), n. A print in goldleaf. Incorrectly applied to a print in gold link or bronze, which lacks the full brilliancy of gold-leaf.

gold-printing (göld prin-ting), n. Printing in

gold-leaf. The type or design, rolled over with a size or glair, is atroughy impressed on the surface to be printed. On this surface gold-leaf or gold bronze is laid. When fairly dry the surplus leaf or bronze is rubbed off with a pad of cotton or fur. To bring out a proper metallic luster, the print should be pressed or burnished. In bookbinding, the gold-leaf is applied to a glairy surface, and is impressed with a hot stamp or finishing-tool.

gold-purple (gold'per'pl), n. Same as purple of Cassius.

gold-rain (gold'ran), n. A shower of small sparkling stars discharged from a rocket or pyrotechnic bomb.

pyrotechnic bomb.

gold-rush ($g\bar{o}$ ld'rush), n. A feverish rush to seme newly discovered gold-field with the hope golf-gig (golf'gig), n.

A light carriage.

goldschmidtite (göld-shmit-īt'), n. [Named after Professor V. Goldschmidt of Heidelberg.] A variety of the gold-silver telluride, sylvan-ite, rich in gold and occurring in complex crystals of peculiar habit: found at Cripple Creek, Colerado.

gold-shrub (gold'shrub), n. Any one of several shrubs belonging to the genus Palicourea of the madder family, especially P. speciosa: so named from the golden color of the dried flower-clusters and the yellow-green color of the leaves.

gold-solder (göld'sod"er or -sol"der), n. A solder suitable for gold or high-grade alloys. It consists of gold 12 parts, silver 2 parts, and copper 4 parts.

name for a noetuid moth, Plusia festucæ.
gold-standard (gold'stan-dard), a. Using gold
alone as full legal tender. In the United States
both gold and silver are legal tender (see silver); but since
the demonetization of silver in 1873 the country has been
on a gold basis, the purchasing-power of the depreciated
silver dollar having been maintained by the policy of the
government which has preserved its parity with gold.
The situation in other double-standard countries is similar. The gold standard prevails in Great Britain, Germany, Sweden, Norway, Denmark, Austria-Hungary,
Turkey, Portugal, Brazil, Canada, Newfoundland, Egypt,
Chile, Peru, Japan, Russia, Mexico, Bolivia, British India,
and varions other countries. and various other countries.

goldstone, n. 2. In eeram., an aventurin glaze containing particles which have the appearance of specks of gold.

gold-swift (gold'swift), n. A British collectors'

name for a moth, Hepialus hectus.

goldtail, n. 2. A British collectors' name for
a liparid moth, Euproctis auriflua, closely related to the brown-tail moth.

gold-wash (gôld'wesh), n. 1. A thin plating of gold.—2. A stream where gold is obtained by washing: generally used in the plural.

gold-water (gold'wâ-têr), n. A liquid distilled from a mixture of spices, spirits of wine, and water, and mixed with pulverized gold-leaf. Also called Dautzic brandy.

gold-weed (gold'wed), n. The corn crowfoot, Raunnculus arvensis. Also called horse-gold.

Rauunculus arvensis. Also called horse-gold. gold-work (gold'werk), n. An article made goiu-woik (goiu werk), n. An article made of or decorated with gold; goldsmiths' work; alse, the stopping or filling of teeth with gold. golem (gō'lem), n. [Heb.] In Jewish use, a shapeless mass; an unfinished vessel or a lifeless bulk; in modern Jewish parlance, a blockhead: a stunid. The Talund as well as blockhead; a stupid. The Talmud, as well as modern Jewish folk-lore, tells of rabbis who constructed golems and endowed them with life.

goleta (gō-lā'tä), n. [Sp. goleta = It. goletta

= F. goualette, goëlette, goélette; origin un-



known.] A Spanish two-masted vessel, rigged fore and aff, with high peak and low gun-wales: formerly much used by pirates in the Gulf of Mexico.

golf, n.—Amateur golf championship, an event in which amateurs only may participate.—Clock-golf, a variety of golf in which metallic numerals, from 1 to 12 inclusive, are placed at equal distances in a circle, the object of the game being to putt the ball from each of these points into a hole placed anywhere within the circle.—Open golf championship, an event in which both professionals and annateurs may participate.

golf-ball (golf'bal), n. A ball with which the game of golf is played. See golf.

golf-cart (golf'kärt), n. Same as golf-gig. golf-croquet (golf'krō-kā"), n. A form of lawn game which combines the strekes of golf with the wickets of croquet.

without top, having a gig-body and side-

bar gear. (gelf'golf-links lingkz), n. pl.

links or course over which golf is played.



which golf is played.

Golgi method. See *method.
Golgotha (gol'gō-thä), n. [LL. Golgotha, \
Gr. Γολγοθά, < Aram. gogoltha, Heb. gulgōleth, a
skull.] 1. The Hebrew (Aramaic) name of the
place of Christ's crucifixion, somewhere near
Jerusalem.—2. A graveyard or place of inter-

Presumptuous Churchmen, in most Parts of the Kingdom of Europe, have . . . burnt whole Towns, Male and

Female, Children and old Men, . . . dy'd the White Fields in Blood, turned them into a Golgotha, Drummond of Hauthornden, Skiamachia, Works, p. 204. goliardy (gō'li-ür-di). n. The ribald jesting

and satirical poetry of the goliards.

goliathize (gō-h'ath-iz), r. i.; pret. and pp. goliathized, ppr. goliathizing. [Goliath + -ize.] To talk after the manner of Goliath, that is, vauntingly; boast.

Walter Map. The banquet, from whence there puffed ont such an incense of unctuosity into the nostrils of our Gods of Church and State, that Lucullus or Apicius might have suified it in their Hades of heathenism—. . As to the fish, they de-miracled the miraculous draught, and might have sunk a navy—

Herbert. There again, Goliasing and Goliathising.

Tennyson, Becket, iii. 3.

Tennyson, Becket, iii. 3.

goller (gol'er), v. i. [Also gollar, guller; vaguely imitative; compare guggle, gulp, etc., yell, and 'holler' for hollow.] 1. To emit a gurgling sound. Jamiesou.—2. To utter loud, thick sounds, as when choking with rage; to scold in a loud voice; bawl. [Scotch.]

m a iouu voice; bawl. [Seotch.]
golok (gō'lok), u. Same as *quloc.
goluptious, galuptious (gō-lup'shus, gā-lup'shus). a. [A made word; a kiud of fusion of gl(arious)] and (vol)uptuous.] Delicious. [Slang.]

G. O. M. An abbreviation of Grand Old Man, a favorite epithet applied to William Ewart Gladstone, the British statesman, in his later vears.

Goma brea. See *brea.

Gomarian (gō-mā'ri-an), n. A Gomarist. gomart (gō-mārt'), n. [F. gomart, gommart,

gomartan (go-mart'), n. [F. gomart, gommart, (go-mart'), n. [F. gomart, gommart, (gomme, gum.] The Jamaican birch, Terebinthus Simaruba. It yields a gum-resin known as eachibou (which see).

gomashta (gō-mash'tä), n. [Hind. gumāshta. Pers. gamāshta, appointed.] In India, a na-

tive factor or agent.

gombay (gom'ba), n. [Supposed to be of African origin.] A festal performance among the negroes of Bernuda, usually held on Christmas eve: probably a survival, much modified. of an ancient African rite. Groups of masked men of an ancient African file, croups of masked men and boys go about the country from house to house, singing, dancing, and playing on musical instruments.

Gombie pottery. See *poltery.

Gombroon ware. See *ware².

Gomphoceras (gom-fos'e-ras), n. [NL., \langle Gr. $\gamma \delta \mu \phi o c$, a nail, $+ \kappa \epsilon \rho a c$, a horn.] A genus of extinct nautiloid cephalopods of Paleozoic age, characterized by curved shells swollen in later stages and contracted near the aperture.

gomphoceratite (gom-fō-ser'a-tīt), n. [gom-phoceras (-cerat-) + -ite².] In palcon., a member of the ammonoid genus Gomphoceras.

Gonactinia (gon-ak-tin'i-a), n. [NL., ζ Gr., γόνος, generation (†), + ἀκτις (ἀκτιν-), a ray.] The typical genus of the family Gonactinidæ.

Sars.

Gonactinidæ (gon-ak-tin'i-dē), n. pl. [NL., Gonactinia + -idæ.] A family of Zoantharia, of the order Proactiniæ. They have a sulcus and a sulculus, eight Edwardsian macromesenteries, and eight micromesenteries. The sulcar and sulcular macromesenteries are sterile: the four remaining macromesenteries are fertile and form couples with four micromesenteries. The family contains the genus Gonactinia. G. protifera reproduces itself ascanally by strobilation.

gonadial (gō-nad'i-al), a. [gonad (NL. *gonad (NL. *gonad'i-al)].

gonadial (go-nad'i-a), a. [gonad (NL. *go-nadium) + all.] Of or pertaining to a gonad, or reproductive organ, either male or female.

Many segmented worms in which important develop-mental processes occur, e. g., formation of new gill slits, of gonadiat sacs, or even of whole segments of the hody, long after the power of reproduction has been acquired. Encyc. Brit., XXVIII. 138.

gonadic (gō-nad'ik), a. [gonad + -ic.] Same

gonarthrotomy (gon-ar-throt'ō-mi), n. γόνν, knee, + άρθρον, joint, + -τομία, < ταμεῖν, cut.] Operation on the knee-joint.

gondola, n. 7. A coach of unusual size with a boat-shaped bottom and seats for eight or more persons.

Gondwana system. See *system.

gonecium (gō-nē'si-um), n. Same as *gonæ-Chum

gonecyst (gon'e-sist), n. [Gr. γονή, seed, + κίστις, bag (eyst).] Same as seminal vesicle (which see, under resiele).

gonecystitis (gon e-sis-ti'tis), n. [NL., as gonecyst + itis.] Inflammation of the vesiculæ seminales.

gong-drum (gong'drum), n. A bass drum made unusually thin or shallow, like a very large

tambourine, so as to economize space.

gong-piano (gong'pi-an"ō), n. A musical instrument, common in several countries in



Gong-piano. In the Steams Collection, University of Michigan,

southeastern Asia, consisting of a graduated series of gongs set in a circular bamboo frame, within which the player sits.

goniac (gō'ni-ak), a. [goni-on + -ac.] In anthrop., relating or pertaining to the gonion. Gontac angle, in craniom., same as *angle

dibles. R. Originally (as introduced by de Haan) a genus of Paleozoie ammonoid cephalopods with closely coiled shells, simple septal sutures, and mostly broad lateral saddles and lobes. The genus was later subdivided into other genera of more restricted scope, so that the name, which originally had a value parallel to that of Ammonites, has now, like the latter, disappeared from classification.

gonid (gen'id), n. [NL. gonidium.] Same as

gonidangium, n. 2. Specifically, the asexual reproductive organ, borne upon the gametophyte, in distinction from the sporangium, which is borne upon the sporophyte.

gonidiferous (gō-ni-dif'e-rus), a. [NL. gonidi-um + L. -fer, \(\frac{ferre}{,}\) ferre, bear.] Bearing gonidia. gonidiophyl, gonidiophyll (gō-nid'i-ō-fil), n. [NL. gonidium + Gr. φύλλον, leaf.] Same as *sporophyl, 2.

gonimoblast (gō-nim'ō-blast), n. [Gr. γόνιμος, productive, + βλαστός, a germ.] The filament which arises from the fertilized cell of some of the red alge. It bears the carpospores either directly or upon *gonimolobes (which see).

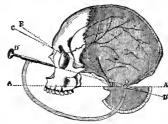
gonimolobe (gō-nim'ō-lōb), n. [Gr. γόνιμος, productive, + λοβός, a lobe.] The terminal lobe into which the gonimoblast of certain red algee is divided. It penetrates the surrounding tissue of the plant, and from its terminal cells the carpospores are formed.

Garpospores are tormed.
Gonioclymenia (gō'ni-ō-klī-mē'ni-ā), n. [NL., (Gr.)ωνία, angle, + Clymenia, a genus of cephalopeds.] A genus of Devonian ammon-oid cephalopeds or clymenias, with discoid shells and acute lateral lobes and saddles.

goniograph (gō'ni-ō-graf), n. [Gr. γωνία, an angle, + γράφειν, write.] An instrument for describing angles.

gonioid (go'ni-oid), a. [Gr. γωνιοειδής, angular, γωνία, angle, + είδος, form.] See *clinoke-

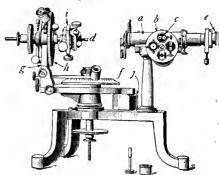
goniometer, n.—Mandibular goniometer, an instrument for measuring the angle formed by the lower rim of the body of the jaw and the ascending ramus.—Occipital goniometer, in crantom., an instrument devised for measuring the angle between the level of the



Broca's Occipital Goniometer.

A'OBA, plane of foramen magnum; D'OD'', plane passing through the opisthion and the lower rims of the orbits; ∂C , line passing through the opisthion and nasion; δE , line passing through basion and nasion. The instrument is in position for measuring the occipital angle. (From Schmidt's "Anthropologische Methoden")

foramen magnum and the line drawn from the medial point of the posterior part of the foramen magnum and the projection of the lower rim of the orbit on the medial plane.—Two-circle gonlometer, an instrument for measuring the angles of erystals, provided with two graduated circles, one of which is horizontal, the other vertical. To the latter the erystal-holder and the devices for centering and adjusting are attached. With this form of goniometer the position of a face of a crystal can be determined relative to a reference-face by two angles in planes at right angles to each other, in a manner analogous to the nse of the latitude and longitude to fix the position of a point on the earth's surface. Also called a theodolite-goniometer.—Three-circle gonlometer, a modification of the two-circle or theodolite-goniometer. It



Two-circle Goniometer,

a, telescope: h, disk with four signals, any one of which (as e) can be brought by revolution into position. The signal (illuminated by lamb by revolution into position. The signal (illuminated by lamb by the bound of the crystal supported at a', and, again reflected back to the observing eye-piece e: f, horizontal graduated circle; g, support, carrying vertical graduated circle h, with centering- and adjusting-apparatus i: f, balancing-weight,

has a third graduated circle and is arranged so that each zone of faces can be adjusted by two of the circles and measured by the third without removing the crystal.

goniometry, n. 2. That branch of trigonometry which treats of circular functions in general, and of their relations.

goniopholidid (go"ni-o-fol'i-did), n. One of the Goniopholididæ.

Goniophora (gō-ni-of'ō-rā), n. Goniophora (gō-ni-of'ō-rā), n. [Gr. γωνία, angle, + φορος, ζ φέρειν, bear.] A genus of prionodesmaceous pelecypods having the form of Modiola, but sharply angulated on the crescence-line. It occurs in Silurian and Devonian rocks.

Goniophyllum (gō/ni-ō-fil'um), n. [NL., ζ Gr. γωνία, angle, + φίλλον, leaf.] A genus of



Goniophyllum pyramidale, from the Silurian of Gotlaod:; showing the operculum in place, twice the natural size. (From Nicholson and Lydekker's "Palæontology." After Lindstroem.)

extinct tetracorals, the corallum having the form of a four-sided pyramid and bearing an operculum composed of four plates. It is from the Silurian rocks.

Gonioplectrus (gō "ni - ō - plek' trus), n. [NL., (Gr. γωνία, angle, + πληκτρον, a striker, spearpoint, spur.] A genus of small bass-like fishes of the family Serranidæ, found in the West Indies. G. hispanus, the known species, is called the Spanish flag, the body being banded alternately with red and golden stripes.

Goniopteris (gō-ni-op'te-ris), n. [NL. (Presl, 1836), ζ Gr. γωνία, an angle, + πτερίς, a fern. The veinlets are connivent in successive angles.] A genus of mostly pinnate or hipinnatifid polypodiaceous ferns, closely allied to Dryonleris. primating polypodiaceous ferns, closely allied to Dryopieris. It is distinguished, in typical species, by having the lowermost branches from adjacent veins connivent in pairs, the resulting veinlet excurrent within the sirch of the next anterior pair, the sori punctiform, normally non-indusiate and medial on the branches. The genus is mainly tropical: its systematic limits are ill defined. Two species, G. reptans and G. tetragona occur in peninsnlar Florida.

goniosymphyseal (gō ni-ō-sim-fiz'ē-al), a. [gonion + symphysis + -al¹.] In craniom., relating to the gonia and the symphysis of the lower jaw. Amer. Anthropologist, Jan.-March. 1901, p. 39.

gonnardite (gon'är-dīt), n. [Named after M. Gonnard, a mineralogist, of Lyons, France.]
A zeolitic mineral allied to mesolite. It forms white, fibrous masses which fill cavities in the basalt of the Puy-de-Dôme region.
gonoblastid (gon-ō-blas'tid), n. [Gr. γόνος, generation, + βλαστός, germ, + -id².] In celentarates, a generation.

terates, a gonophore.
gonocace (go-nok'a-sē), n. [Gr. γόνν, knee, +
κακή, bad condition.] Chronic disease of the knee-joint.

gonochorism (gon-ō-kō'rizm), n. [Gr. γόνος, sex, + χωρισμός, separation.] The bisexual or diœcious condition. Arnold Lang (trans.), Comp. Anat., p. 24.

gonochorist (gen-ō-kō'rist), n. An organism that exhibits gonochorism or the separation of the sexes. [Rare.]

gonochoristic (gon"ō-kō-ris'tik), a. Pertaining to or characterized by gonochorism; dice-

cions; with separate sexes.
gonococcal (gon-ō-kok'al), a. [gonococc-us + -all.] Of or relating to gonococci. gonococcic (gon-ō-kok'sik), a. [gonococc-us +

Same as *gonocoecal.

gonococcoid (gon-ō-kok'oid), a. [gonococc-us + -oid.] Resembling gonococci. gonococcus, n. 2. pl. Micrococci which occur in pairs, flattened at their points of contact; the cause of generrheal inflammation of the mucous and serous membranes.

gonocœle (gon'ō-sēl), n. [Gr. γόνος, seed. + κοίλος, hollow.] The cavity of the gonad, or reproductive organ.

The gonocæl or cavity enclosed by the gonadial wall.

Jour. Roy. Micros. Soc., Oct., 1903, p. 594.

gonocyst (gon'ō-sist), n. [Gr. γόνος, generation, + κίστις, bladder (cyst).] In certain polyzoans, a marsupial cavity, formed by the inflation of the surface of the zoarium, containing the developing embryos.

gonocyte (gen'ō-sīt), n. [Gr. γόνος, generation, + κότος, a hollow (a cell).] The primordial reproductive cell in the embryo, which later develops into the occyte or the spermatocyte. gonodendron (gon-ō-den'dren), n.: pl. gonodendra (-drā). [NL.,

 Gr. γόνος, generation, + δένδρον, tree.]
 A branching blastostyle, as in Physalia. gonoduct, n. Same as gonaduct.

gonœcium (gō-nē'sium), n.: pl. gonæcia (-ä). [NL., ζGr. γόνος, generation, + olkoc, house.] In polyzoans, a zoœeium transformed into a mar-supial cavity. Zittel (trans.), Textbook of Palæon., I. 259.

gonogenic (gon - ō - jen'ik), a. [Gr. γόνος, birth, + -γενής, -producing, + -ic.] Of or

pertaining to origin from germ-cells. [Rare.] - Gonogenic variation, See *variation.

(Col On

Cormidium of Physalia, with a gonodendron (modified from Haeckel).

gonomere (gon'ō-mēr), n. [Gr. $\gamma\delta\nu\sigma\varsigma$, generation, $+\mu\epsilon\rho\sigma$, part.] Either the male or the female pronucleus considered as an autonomous and persisting portion of the cleavage nucleus and the nuclei of the cells which arise by division form the female. by division from the fertilized egg. Amer. Nat., July, 1903, p. 503.

gononephrotome (gon- \tilde{o} -nef'r \tilde{o} -tom), n. [Gr. γ ovo, seed, $+\nu$ o ρ o, a kidney, $+\tau$ o μ n, a section.] In embryol., that portion of the mesoderm which gives rise to the reproductive and excretory organs in the vertebrate embryo.

gonopalpon (gon-ō-pal'pon), n.; pl. gonopalpa (-pa). [Gr. γόνος, generation, + NL. palpon.] Io siphonophorans, a palpon borne upon a gonostyle.

gonophorous (gō-nof'ō-rus), a. [gonophore +

-ous.] Bearing or producing gonophores. gonopore (gon'ō-pōr), n. [Gr. γόνος, generation, + πόρος, passage.] The reproductive orifice of the female, in nemathelminths. Parker and Hasseell, Zoology, I. 276.

gonosphere (gon'ō-sfēr), n. [Gr. γόνος, generation, + σφαῖρα, a sphere.] Same as σösphere. Gonostoma (gō-nos'tō-mā), n. [NL. (Rafin-esque), erroneously for "Goniostoma, < Gr. γωνία, angle, + στόμα, mouth.] A genus of small lantern-fishes of the family Chauliodontidæ, found in the deep seas. G. denudatum is the common species.

Gonostominæ (gon-os-tō-mī'nē), n. pl. [NL., Gonostoma + -inæ.] A subfamily of fishes typified by the genus Gonostoma. gonostyle (gon'ō-stīl), n. [Gr. γόνος, genera-tion, + στῦλος, a pillar.] A blastostyle or re-productive zoöid of a hydroid or siphonophere colony

gonotome (gon'ō-tōm), n. [Gr. γόνος, generation, + τομή, section.] In embryol., the portion of the segmented mesoderm which gives rise to the reproductive organs or gonads of the vertebrate embryo.

Whether we have metamerically repeated gonotomes, is as yet a disputed question.

J. S. Kingsley, Vert. Zool., p. 103.

gonotoxin (gon-ō-tok'sin), n. [Gr. γόνος, generation, + τοξ(ικόν), peison, + -in².] A poisonous substance produced by the gonococcus. gonozoöid, n. 2. In Hydromedusæ, same as medwaid or wantshave

gonozooid, n. 2. In Hydromedusæ, same as medusoid or gonophore.
gony, n., 2. (c) The name seems to have been applied originally to southern albatrosses of medium size, with white bodies and black wings, such as Diomedea chlororhyncha. It was thus used by 'deep-water' sailors about 18:0, and its application to the black-footed albatross, D. nigripes, of the North Pacific is of later date.
gonyagra (gō-ni-ag'rā), n. [NL., ⟨ Gr. γόνν, knee, + άγρα, a catching. Cf. podagra.] Gout in the knee-joint.

gonytheca (gon-i-the kä), n.; pl. gonythecæ (-sē). [NL., ζ Gr. γόνν, knee, + θήκη, receptacle.] In entom., the concavity at the apex of the femur which receives the base of the

I. a.—Good title. See *title.—To make (y) In poker, to make a blind or a straddle equal good. (

II. n.—Confusion of goods. See *confusion.—Lawful goods, in international law, goods which a neutral ship may carry in time of war, including contraband of war, which is carried at the neutral's risk.

good-daughter (gud'da"ter), n. A daughter-in-law. [Scotch.] Goodea (gud'ē-ā), n. [NL., named after G. B.

Goode, an American naturalist.] A genus of small viviparous fresh-water fishes, belonging to the family Pacifieda, found in the lakes of Mexico. G. atripinnis is the earliest known species.

Goodeinæ (gůd-ē-i'nē), n. pl. [NL., < Goodea + -inæ.] A subfamily of fishes typified by the genus Goodea.

goodeniaceous (gu-de-ni-a'shins), a. In bot., belonging to or having the characters of the Goodeniaceæ.

good-father (gud 'fä "THer), n. A father-inlaw. [Seotch.]
good-fors (gud'fôrz), n. pl. A local name for

private notes, bills of exchange, drafts, etc., circulated as money, 'good for' an amount indicated, at the Cape of Good Hope, in the first quarter of the nineteenth century.

good-full (gud'ful), a. Of sails, a little more nearly full than in full-and-by: allowing the vessel to go off sufficiently from the wind to round out her sails.

Haeckel). D. dactylozoöid; G. gastrozoöid; GP. gonopalpon or dactylozoöid on the genodendron; M. fenale medusoid/altimately freed; M. male sporosac; T. tentacle (pal. pacle) of dactylozoöid or palpon (From Lankester's "Zoology.") goodletite (gud'let-it), n. A local name in Australia for the rock forming the matrix of the ruby

good-like (gud'lik), a. Of respectable or pleasing appearance: as, a couple of good-like men. [Prov. Eng.]

goodliking (gud'li'king), n. 1. Kindly feeling; friendly relations. — 2. Good-will; personal liking or approval. Sydney Smith.

species of Polycodium. See squaw-huckleberry.
gooseberry-borer (gös'ber-i-bōr"er), n. The larva of a cerambycid beetle, Xylocrius agas-

good-mother (gud'mutifer), n. A mother-in-

law. [Scotch.] good-shoaling (gud'shō'ling), n. Naut., soundings that change gradually; progressive depths of water.

of water, goodsire (gûd'sir), n. [Also (Sc.) gudesire; < good + sire. Cf. belsire.] A grandfather. Scott. [Scotch.] goods-lift (gûdz'lift), n. A freight-elevator; a device for raising or lowering freight. [Eng.] go-off (gō'ôf), n. 1. Start; outset; beginning or attempt: usually preceded by at and first: as, at first go-off (at once, at the very outset).—2. In banking, the amount of loans falling due In banking, the amount of loans falling due (and therefore 'going off' the amount in the books) in a certain period. Lord Aldenham. N, E, D.

goondie (gön'di), n. [Australian (Wiradhuri) gúndai, a shelter. Compare *gunyah.] Anative Australian hut; a gunyah. [Australian.]

There were a dozen "goondies" to be visited, and the lnmates started to their work.

Rolf Boldrewood, Colonial Reformer, xvil.

Rolf Boldrewood, Colonial Reformer, xvii.

goorgoora (gör-gö'rä), n. [Punjab gurgura.]
In Afghanistan, a large evergreen shrub er small tree, Reptonia buxifolia, of the family Supotaceæ, bearing insipid, globnlar, drupaceous, fleshy fruits which are much esteemed by the Afghans.

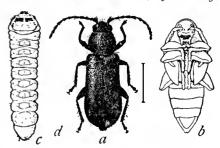
goose, n. 6. In keno, the globe from which the numbered balls are withdrawn.—Bay-goose, the common or Canada goose, Branta canadeurs. [Local, U. S.]—Cape Barren goose, Cercopsis novæ-holtandiæ, a species once common on the uplands of New South Wales, but now much reduced in numbers.—Graygoose, the common European species, Anex cinerays, as known as the graylag.—Gray-goose shaft, an arrow: arrows were formerly feathered with the feathers of

geese.—Knobbed goose, the male of the domesticated form of the Chinese goose, Cygnopsis cygnoides, which has an excrescence at the base of the bill, lacking in the wild bird.—Pygmy goose, any one of the goose-teals, or goslets, which belong to the genus Nettapus.—Roadgoose, a local English name for the brant, Bernicla brenta, Also called clotter-goose and wilk-bob.—Shooting at the goose, in old archery, a shooting-match in which the mark was the head of a living goose, the body being buried to the neck in the earth. to the neck in the earth.

goose-barnacle (gös'bär"na-kl), n. barnacle, as Lepas unatifera: in allusion to the fable that it gave origin to geese. See bar-

barnacle, as Lepas unatifera: in allusion to the fable that it gave origin to geese. See barnacle 1, 2.

gooseberry, n. 3. The farkleberry, Batodendron arboreum: doubtless so called from its somewhat similar fruit. See farkleberry.—
Black-knot of the gooseberry. See *black-knot.
— Cañon gooseberry, Ribes Menziesii, of the outer coast ranges of middle California, a species with flowers more fuchsia-like than those of the fuchsia-flowered gooseberry, but small and less showy.— Coromandel gooseberry, but small and less showy.— Coromandel gooseberry, but carambola, Arerrhoa Carambola. Also called country gooseberry.— Country gooseberry, in findia: (a) The Otahetic gooseberry (Winhi see).—
Drooping gooseberry, Ribes curvatum, a recently described species growing on rocky ground in Georgia and Alabama, the name referring to the recurved branchlets.—
Dwarf cape gooseberry, a species of ground-cherry, Physalis pubescens, lower than the cape gooseberry, Pruviana, grown in vegetable gardens under the name of strawberry-tomato. In cultivation it spreads over the ground two feet in all directions. It is found as a wild plant over a large part of the United States and in Mexico, and also grows in South America and India.—Fuchsia-flowered gooseberry. See Ribers.—Gooseberry family, the plant family Grossulariacese, typified by the genus Ribes, to which the gooseberry belongs.— Gooseberry span-worm.—See *span-worm.—Hawthorn-gooseberry, Ribes oxyacanthoides, having leaves closely resembling those of the hawthorn, bristly and prickly stems, and smooth, globose fruit: found from Hudson Bay to Alaska.—Hill gooseberry, a shrub of the myytle family, Rhodomyrius tomentosa, native to India. It bears a fruit about the size of a cherry, dark purple, with a sweet and aromatic pulp. The fruit is eaten raw or made into jam, and also makes excellent jelly.—Hilmois gooseberry, Same as Missouriense, of the Mississippi valley and Texas, having white drooping flowers on slender peduncles, and reddish-purple berries.—North-ern gooseberry, Ribes



Gooseberry-borer (Aylocrius agassizii), a, beetle; b, pupa; c, larva, dorsal view, all about three times natural size. (Chittenden, U. S. D. A.)

sizii, occurring in the northwestern United States and British Columbia. Also called black gooseberry-borer.

gooseberry-gourd (gös'ber-i-görd"), n. The bur or West Indian gherkin, Cucumis Anguria. See bur *gherkin.

gooseberry-louse (gös'ber-i-lous"), n. pl. gooseberry-lice (-lis"). A red-bug or harvest-bug, a larval Trombidium. [Great Britain.] gooseberry-midge (gös'ber-i-mij"), n. A cecidomycid fly, Cecidomyia grossuluriæ, which lays

its eggs beneath the skin of young goeseberries in which its larvæ feed.

gooseberry-mildew (gös'ber-i-mil' $d\bar{\mathbf{u}}$), n. A fungus disease of gooseberries which attacks the foliage and young fruit: due to Sphærotheca mors-ura.

gooseberry-season (gös'ber-i-se"zn), n. The season when gooseberries are ripe.—Big-goose-

berry season, the time of year when news is scarce, and the newspapers have plenty of space to devote to the chronicling of wonderful, fictitious, or trilling matters.

gooseberry-shrub (gös'ber-i-shrub"), n. In the West Indies, same as Barbados gooscberry,

Pereskia Pereskia. See gooseberry.
gooseberry-tomato (gös'ber-i-tō-mä*tō), n.
The cape gooseberry, Physalis Peruviana. See gooseberry.

gooseberry-tree (gös'ber-i-tre"), n. In the Bahamas, the cultivated Otaheite gooseberry, Dallamas, the currivated Granette gooseberry, Phyllanthus distichus.—Little gooseberry-tree, in Queensland, a tree, Buchanania Muelleri, of the sumac family, hearing sweet, pulpy drupes about one-half of an inch long, somewhat resembling gooseberries.

goosebill, n. 2. Naut., an old-fashioned sail, in shape something like the bill of a goose or duck. It was used before the wind.

Goose-egg moth. See $*moth^1$. goose-file (gös'fil), n. Single file; Indian file. goosefoot, n.—Maple-leaved goosefoot, Chenopodium hybridum, which has leaves lobed as in the maple: native in both Europe and America.—Nettle-leaved goosefoot, C. murale, the leaves of which somewhat resemble those of the nettle. It is an Old World plant, thoroughly naturalized as a weed in waste places in the United States.

goose-grass, n. 5. Same as *crowfoot-grass, 2, and wire-grass, 2.—6. The Texas millet, Panieum Texanum. See *millet.—7. The low speargrass, Poa annua.—8. The sea spear-grass, Puccinellia maritima.

goose-grease (gös'gres), n. The melted fat of the goose: much used in domestic medicine as an ointment.

gooseland (gös'land), n. In California, flat land in the Sacramento valley which is partly flooded by rain in winter and then becomes the feeding-ground of large flocks of wild geese from the north. In large portions of the gooselands the soil is strongly alkaline.

goose-mouth (gös'mouth), n. A horse's month in which the upper lip overhangs the lower.

gooseneck, n. 4. In lumbering: (a) A wooden har used to easily the lower trueks.

bar used to couple two logging-trucks. Also called *rooster*. (b) The point of draft on a logging-sled: it consists of a curved iron hook bolted to the roll. Also called *draw-hook*. (c) A curved iron hook driven into the bottom of a slide to check the speed of descending logs.

Gooseneck-band, a band made in two parts, designed to be fitted round a mast and held in place by acrew-bolts:



nsed to support a screw- or socket-gooseneck for the boom. Sockets are also provided for belaying-pins.

goose-necked (gös'nekt), p. a. Shaped like or supplied with a gooseneck.

goose-pen (gös'pen), n. 1. A pen or yard for geese.—2. In forestry, a large hole burned in a standing tree.

goose-rump (gös'rump), n. A horse's rump or hind quarters which drop suddenly to the tail, giving the animal a somewhat angular appearance from behind. Also short-rump.

goose-rumped (gös'rumpt), p. a. Noting a defect in the conformation of a horse in which the hind quarters have an excessive slant downward and backward from the croup, and the tail is set low.

gore-fish (gor'fish), n. Same as garfish. gorge, n. 12. In angling, a baitiutended to be swallowed by the fish to effect its capture:

the tail is set low.

goose-skin, n. 4. The pitted surface exhibited by copal, cansed by contact with the sand in which it is embedded.

goose-step, n. 2. An exercise in military gymnasties in which the body is balanced on one foot while the other is swung forward and backward as if on the march, but without advancing, the object being to give the soldier an upright carriage in marching .- 3. A marching step in which the feet are raised high above the ground, as when on review.

goose-teal (gös'tēl), n. See *teal¹. goosetongue, n. 2. The lemon-balm, Melissa

goose-wing (gös'wing), n. Naut.: (a) The clue of a squaresail that is kept hauled out by its sheet when the other clue is hauled up to the yard and furled. (b) A studdingsail. goosy (gö'si), a. [goose + -y¹.] 1. Gooselike, especially in stupidity; foolish; silly.

Carlyle.—2. In a condition resembling that of gorge-line (gôrj'līn), n. The rear line of a forthe flesh of a plucked goose; hence, 'ereepy': tification through which the entrance is made. as, a goosy sensation.

G. O. P. An abbreviation of Grand Old Party, a rhetorical designation, by some Republicans, of the Republican party in the United States.

G. In archæol., an object of stone or shell, flat, or convex on one side and concave on the other, and sometimes provided with pergopher-apple (go'fer-ap'l), n. Same as gopher-root: so called from the often edible fruit, which, however, is a drupe and not like an apple.

gopher-plant (gō'fer-plant), n. The caper-spurge, Euphorbia Lathyris. See spurge. For the origin of the name see mole-tree.

gopher-plum (gō'fèr-plum), n. 1. See plum¹.

—2. Same as eocoa-plum. See Chrysobalanus and plum¹.

gor (gôr), n. [Origin unknown; cf. *gorb and *gorbel.] An unfledged bird.
gora (gō'rä), n. [Also gorah, gorrah, goura, gurah; from a S. African nativo name.] A



Original in National Museum, Washington, D. C.

South African musical instrument, consisting goroon-shell (gō-rōn'shel), n. [Appar. au of a bent piece of wood or bow with a single error for *yodroon-shell.] A tritonoid shell, gut string attached, which is sounded by the Lampusia femoralis. player's breath directed through or against a gorse-kid (gôrs'kid), n. A bundle of gorse. quill that is fastened to one end of the bow. N. E. D. bow as a resonator.

The gorah was formed by stretching a piece of the twisted entrails of a sheep along a thin hollow stick about three feet in length in the manner of a bow and string. At one end there was a piece of quill fixed into the stick, to which the mouth was applied, and the tones were produced by inspiration and respiration.

Encyc. Brit., XII. 311.

Encyc. Brit., XII. 311.

Several years ago, Mr. Henry Balfour published an important memoir on the musical bow, and in the current Journal of the Anthropological Institute (vol. xxxii. p. 156) he describes a superficially similar instrument, the goura, which Frobenius and Ankermann have confused with the musical bow proper. The goura is a bow-like instrument; one end of its string is fastened to a flattened quill, the other end of which is fastened to a flattened quill, the other end of which is fastened to the bow, and the string is thrown into vibration through the medium of the quill, which is caused to oscillate by being blown upon. Those musical bows which have no resonator are held to the mouth when playing in order to increase the sound.

Nature, Nov. 13, 1902, p. 37.

gorb (gôrb), n. [Connected with gorbel and other forms, gorbet, gorbre, gorbin, gorbling, based on the simple gor, in sense of 'an unfledged bird': see *gor.] 1. A greedy person; a glutton. [Prov. Scotch and Irish.]—2. An unfledged bird. [Scotch.]
gorbel (gôr'bel), n. [Also gorbal: see *gorb.]
Au unfledged bird. [Scotch.]

Children . . . often take the bare gorbals, or unfledged young, of this bird [the yeldring or yellow hammer], and suspend them by a thread tied round the neck.

Jamieson, Scottish Dict. (s. v. yeldring).

Gordiichthys (gor-di-ik'this), n. [NL., < Gordius, a genus of hairworms or hair-eels, + Gr. $(\chi\theta)$ [c, fish.] A genus of small eels of the West Indies, of the family Moringuidæ. They are characterized by the extraordinary slenderness of the body and the great number of vertebræ. G. irretitus is the

Gordon River group. See $\star group^1$. gore-blood (gor'blud), n. Clotted blood; gore.

Thus they travelled from morning till night several days, through bushes and thorns, which made their arms and shoulders, which were naked, all of a *gore* blood.

*Defoe, Captain Singleton, xviii.

usually a minnow in which a double-barbed leaded fish-hook is embedded .- 13. A fishhook consisting of a straight or crescent-shaped piece of stone or bone sharpened at the ends and grooved or perforated in the center: used by primitive tribes.

I believe that, . . . starting with the crude fish-gorge, I can show, step by step, the complete sequence of the fish-hook, until it ends with the perfected hook of to-day.

B. Phillips, in Sport with Gun and Rod, p. 340.

Circle of the gorge. See $\star circle$. gorge-bait (gôrj'bāt), n. Same as $\star gorge$, 12. gorge-baiting (gôrj'bā"ting), n. In angling, fishing with a gorge.

gorge-circle (gôrj'ser"kl), n. The smallest eircle formed by a plane perpendicular to the axis cutting a hyperboloid of revolution; the circle generated by the shortest line from the circle generated by the circle generated by the shortest line from the circle generated by the circle generated by the circle generated by the shortest line from the circle generated by the shortest line from the circle generated by the circle generated by the circle generated by the shortest line from the circle generated by the generating line to the axis. See *circle of the

Also gorge.

on the other, and sometimes provided with perforations. Stone gorgets may have been used for a variety of purposes—as bracers, as supports for ornaments, as badges, etc.

as badges, etc.

gorgio (gôr'ji-ō), n. [G. gadze, gatscho, Sp. gaeho, from a Romany word.] One who is not a Gipsy; an outsider. [Gipsy lingo.] Borrow.
gorgonin (gôr'gō-nin), n. [Gorgonia + -in².]

A dark-brown, horn-like, albuminoid component comprising the axial skeleton of the

eoral Gorgania Cavolinii.

[Origin unknown; cf. *gorb and gorgon-plant (gor'gon-plant), n. The prickly water-lily, Euryale ferox. See Euryale, 2, and prickly water-lily, under water-lily.

prickly water-lify, under water-lify.

Gorgonzola cheese. See *cheese!.

gormandizer, n. 2. A young, upright branch
or sucker growing from the main stem or
from an old branch of a cultivated tree: so
called from the rapidity of its growth. See
sucker, 5 (b). Also called chupon. [West
Indies.]

Sometimes a small gourd is attached to the gosain (go-sīn'), n. [Also gossein, goussain; (hind. gusāīn.] A Hindu priest, devotee, monk, or religious mendicant.

gosling, n. 3. The American pasque-flower, Pulsatilla hirsutissima: so called from its dense, soft bairs.

gosling-grass (goz'ling-gras), n. goose-grass, 1

gosling-weed (goz'ling-wed), n. Same as goose-grass, 1.

gosmore (gos'môr), n. [Origin obscure; possibly a perversion of gossamer.] A plant of the genus Hypocharis, especially H. radicata, now naturalized in New Jersey and California. See cat's-ear and Hypocharis.

gospodar (gos'pō-dār), n. [Russ. gospodarŭ, Bnlg. gospodar, etc.] Same as hospodar.

Gosseletia (goz-let'i-ä), n. [NL.] A genns of prionodesmaceous pelecypods, including triangular thick-shelled Devonian species belonging to the superfamily Pteriacea.

gossypein (go-sip'é-in). n. [L. gossyp(ium) + -e- + -in².] A phenol-like substance contained, in small quantity, in cotton-seed oil and cot-

ton-seed meal. Also called gossypol.

gossypol (gos'i-põl), n. [gossyp(ium) + -ol.]
Same as *gossypein.

gossypose (gos'i-pōs), n. [gossyp(ium) + osc.] Same as *raffinose.

Goth, n. 3. A 'barbarian' in matters of literature or art.

To call a man a Goth [in the eighteenth century] conveyed a vague sense of superiority on the part of him who uttered it, and a general sense of disreputability of him about whom it was natered; and it was made the harder to endure and the more potent to crush because the man who applied it did not usually understand what was meant by it any more than did the man to whom it was applied.

Lounsbury, Studles in Chaucer, 11I. 250.

Gothic. I. a. 5. Belonging to or characteristic of 'Goths' or 'barbarians' in matters of literature or art.

The constant use of the words Goth and Gothic [by War-The constant use of the words Goth and Gothe lby warrton] demands perhaps a word of explanation. In the litcrature of the eighteenth century these epithets played
about the same rôle that the word Philistine, playa or has
begun to play, in this. They expressed a general disapprobation without putting the one who employed them
under the necessity of ambstantiating what he meant by
any precise definition.

Louishuru. Studies in Chancer. III. 250. Lounsbury, Studies in Chaucer, 111. 250.

Gothic armor, fully developed plate-armor made in the latter part of the fifteenth century: a collectors' term. This armor appears to have been made chiefly in Italy, the leading armorers being the Missaglia family in Milan. Fine suits were also manufactured at Nuremberg and claewhere in Germany. It is the type usually represented in the works of the early Renaissance painters both in Italy and in Germany.

II. n.—Churchwarden Gothic a term ironically applied to additions made to English Gothic buildings during the eighteenth and early nineteenth centuries by local authorities having only imperfect knowledge of the

What he did in this way laid Itself open to the derisive epithet applied to it of Churchwarden Gothic.

R. S. Clouston, in Burlington Mag., V. 495.

One who favors or affects the Gothic style, especially in architecture.

Gothique (gō-tēk'), a. [F.] An epithet ap plied to a style of bookbinding in which the design is blind-tooled or blind-stumped upon the cover in medieval or monastic style. See

göthite, n. Same as goethite.

Gothlandian (goth-lan'di-an), a. and n. In geol., noting the uppermost divisign of the Silnrian system of Murchison, taking its name from the island of Gothland. Quantivalent therewith is the name Ordovician, applied to the lower division of the Silurian system. De Lapparent.

gotten (got'n), p. a. Obtained or acquired: usually with a qualifying adverb; won: as, ill-gotten gains; new-gotten territory; gotten

battles.

tooling.

Give me then health, Apollo; give Sonnd mind; on gotten goods to live Contented; and let song engage An hononred, not a base, old age. Gladstone, tr. of Horace, Odes, xxxi. 5.

Gonda cheese. See *cheese1.

gouger, n. 5. A snow-plow formerly used on railroads in the western United States. It consisted of a strongly built box-car which carried a plow at its head set low enough to run under a drift and throw it over. Sci. Amer., Jan. 3, 1903, p. 8.

gouge-shell (gouj'shel), n. A gimlet-shaped shell, such as that of Vermetus; also, a kind

of pinna.

goujat (gö-zhä'), n. [F.] A camp-follower; a soldier's servant; also, a blackguard.

Boys, or rather fags, [employed to earry the men's weapons or harness on the march] were called in French goujats, and are a curious feature in the armies of the time.

J. W. Fortescue, Hist. Brit. Army, L ii. 1.

goulash, n. See *gulash.

goundou (gön'dö), n. [W. African.] A disease which attacks the natives on the west coast of Africa. It is marked by the growth of a smooth rounded swelling on either side of the bridge of the nose. Jour. Trop. Med., Feb. 16, 1903, p. 62.

goup, gowp (goup), v. i. [Perhaps imitative.] throb violently or painfully, as a boil be-

goura, n. See *gora.
gourd, n., 1. (e) Same as calabazilla.—Bonnetgourd, n., 1. (e) Same as calabazilla.—Bonnetgourd, the fruit of species of Lufa. It is sometimes
aplit lengthwise, turned Inside out, and fashioned into a
bonnet or cut into strips and used for trimming: whence
the name.—Gourd family, the plant family Cucurbitacca.—Missouri gourd. Same as calabazilla. It extends east to the Missouri river.—Scarlet-fruited gourd,
any one of several species of the genus Coccinia, especially C. Indica, a native of India and often cultivated.
It is one of the commonest vegetables of the natives, the
oblong scarlet fruit being eaten fresh when ripe and
cooked in curries when green.—Wild gourd. (a) Same
as calabazilla. (b) The bigroot of Oregon, Micrampelis
Oregona.
gourdhead (gord'hed)

gourdhead (gord'hed), n. Same as big-mouthed

gourdworm, n. 2. One of the segments of a tapeworm: in allusion to its resemblance to the seed of a gonrd; a cucurbitinns.

 \mathbf{gout}^1 , n.—Abarticular \mathbf{gout} , gouty inflammation of the stomach or other of the viscera, without involvement of the joints.—Poor $\mathbf{mar's}$ \mathbf{gout} , gout occurring in consequence of lead-poisoning, exposure, insufficient nourishment, or the abuse of malt liquors, in laborers or others to whom luxury is unknown.—Tophaceous \mathbf{gout} , chronic gout accompanied by deposits of sodium urate in the total the joints.

gout-fly (gout'flī), n. Same as corn-fly. goute d'eau (göt dö). [F., 'drop of water.']
A limpid rolled pebble of topaz feund in
Brazil, Ceylon, and New Sonth Wales.
goutte de suif (göt de swēf). [F., 'drop of
tallow.'] Tallow-drop: noting a style of pot-

tery decoration with enamel colors. See Cluny *enamel.

the bottle-tree (which see). Both names refer to the shape of the trunk. The tissues of the stem abound in a clear, jelly-like, mucilaginous substance resembling tragacanth, which is used as food by the natives in times of extreme drought.

Gr. An abbreviation (b) of Greece. gouty-stem (gou'ti-stem), n. In Queensland,

tragacanth, when is used as lower of extreme drought.

gouty-stool (gou'ti-stöl), n. In old English great; (f) of gross.

furniture, a stool designed by Hepplewhite G. R. An abbreviation (a) of Georgius Rex for the use of persons afflicted with gout. It was fitted with mechanism for raising and great; (King George); (b) of Grand Recorder.

grab', r. II. intrans. To strike the heel of the front foot with the toe of the hind foot:

Governess car. See *car1.
governing-motion (guv'er-ning-mosshon), n.
The action on a spinning-mule of a certain mechanism for regulating the velocity of the spindles during the winding of the yarn on the cop. Also called strapping-motion. Na-smith, Cotten Spinning, p. 300.

Gothicity (ge-this'i-ti), n. [Gothic + -ity.] government, n.—Charter government. See *charter Gothic style or quality; a distinctively Gothic character.

Gothicity (ge-this'i-ti), n. [Gothic + -ity.] government, n.—Charter government. See *charter Gothic style or quality; a distinctively Gothic style or quality style or qualit

A modern government may have a written constitution which sets forth the plan of government. Other nations have a system of habitual practice, modified from time to time as circumstances seem to demand, which is observed as the common law of the government. I wish to use the term constitutive government for one of its departments coordinate with the others which I will set forth. I desire a term which will signify the manner in which the officers of the government in all its departments are selected, chosen, or appointed.

J. W. Powell, An. Rep. Bur. Amer. Ethnol., [1898-93, p. lxxxv.

[1898-99, p. lxxxv.

Government mant, an assigned servant; a convict. [Australia.]—Government stroke, a stroke that lacks vigor; a lazy way of doing work such as is supposed to characterize government employees. [Australia.]

Like the poor the unemployed are always with us, but they have a penehant for public works in Melbourne, with a good daily pay and the government stroke combined.

Melbourne Argus, Feb. 22, 1897.

Melbourne in Melbourne Argus, Feb. 22, 1897.

governmentalism (guv-ern-men'tal-izm), n. [governmental + -ism.] The theory that the authority of the general government should not only be exercised to the full but extended.

regards the government, its views, policy, or regulations; by the government.

government-house (guv'èru-ment-hous), n. 1. The building which contains the government offices.—2. The official residence of a governor.

governor. a.—Differential governor, a governor which runs at a constant speed and is so constructed that when the engine runs at an improper speed the difference in the apeeds produces an action on the regulating-valve which tends to bring the engine back to a correct rate of motion.—Emergency governor, a device which serves to check the speed of an engine when the usual regulating mechanism fails.—Fly-weight governor, a device for regulating the speed of a steam- or gas-engine in which a pair of weights, which fly out by centrifugal force as they are revolved, control the amount of steam or gas admitted to the cylinder.—Governor cut-off. See *cut-off.—Inertia governor, an engine governor in which the inertia of a weight revolving with the shaft is utilized to open or close the admission-valve or change the point of cut-off whenever the speed of the engine changes.—Loaded governor, a governor to which a weight is attached for the purpose of increasing the strength of its action, thus giving it a prompter control of the engine, making it more sensitive to variations of load, and securing a closer approach to isochronism in the engine. approach to isochronism in the engine.

governor-rod (guv'ér-nor-rod), n. The rod by which the motion of the governor is communicated to the valve-gear of an engine.

An abbreviation of governor-Gov.-Gen. general.

gowan, n.—Ling-gowan, the mouse-ear hawkweed, Hieracium Pilosella: usually in the plural.—May-gowan. Same as eve-gowan.—Milk-gowan, the dandelion.—Water-gowan. Same as meadow-gowan (which see, under gowan).—Witch-gowan. Same as milk *govan.—Yellow gowan. (a) See yellow. (b) The dandelion.

gown, n.—Cap and gown. See $\star cop1$. gowp, v. i. See $\star goup$. goy (gō'i), n.; pl. goyim (gō'yēm). [Heb.] In Jewish use, a nation. Used in the singular for any nation, Jewish as well as Gentile. Where the plural goyin is used, however (save in particular cases, for example Gen. xxv. 23), it specially refers to non-Jewish nations, the Gentiles. In Yiddish this distinction is not fully recognized, and goy is used, somewhat like 'heathen' in English use, to imply inferiority, and is often employed among the Jews themselves as a term of contempt involving incorance or stimility.

polyed among the sews memories as a color of contempt implying ignorance or stupidity.

goyim, n. Plural of *goy.

gozell (go'zel), n. [Also gozelle; dial. variant, beside gazel, gazle, etc., of grozle, grozzle, a gooseberry: see groser.] The garden gooseberry, Ribes Grossularia.

G. P. An abbreviation (a) of the Lacon Patri, Glory be to the Father; (b) of Graduate An abbreviation (a) of the Latin Gloria

said of a norse.

grab!, n., 3. (c) A form of dredger-bucket used for digging soft materials; a clam-shell bucket. (d) pl. Same as ***xidding-tongs. (e) In forestry, the stem of an alder, or other small tree, which is bent over and plugged into a hole bored in a boom-stick, or secured in some other way, to hold a boom or logs inshore. [U. S.]

4. A children's game at cards, in which, when two or more cards of early value are on the two or more cards of equal value are on the

table together, the player who is quickest to recognize and grab them adds them to his own

hand. N. E. D.

grab-all (grab'âl), n. A catch-all; specifically, a kind of fishing-net with meshes not less than 21 inches in size, used in sea-fishing along the

Put a graball down where you will in "bell-rope" kelp, more silver trumpeter will get in than any other fish.

E. O. Cotton, in Evidence before Roy. Com. on Fisheries of Tasmania, 1883, p. 82, quoted in E. E. Morris,

Austral English.

grabbing (grab'ing), n. 1. The act of grasping or seizing.—2. A condition, seen principally in the horse, in which the hind foot strikes the heel of the fore foet in traveling.

upits own lead; a self-loading bucket; a gobbler or clam-shell bucket. grab - crane (grab'krān), n.

A portable crane or crane or derrick withwhich a grab or crab is used for winding in the

Grab-bucket.

a, bucket; b,b wings in open position, or when bucket drops upon material to be lifted. Dotted lines show position of wings when closed and forming bottom of bucket, inclosing load.

hoisting-rope, there being no winding-drnm on the crane.

graben (gra'ben), n. [G. graben, a ditch.] In geol., a trough-like area caused by the downthrow of a ernstal fault-block.

The main valley occupied by Georgetown is a depressed unit-block or graben.

Science, Feb. 6, 1903, p. 227. fault-block or graben.

graben-block (grä'hn-blok), n. [G. graben + block, n.] A depressed segment of the earth's crust bounded on all sides by faults.

The imagined intersecting faults of the "bysmalith" or of the submerged graben-block have been generally sought for in vain about those greatest of all granitic massit. R. A. Daly, in Amer. Jour. Sci., April, 1903, p. 270.

grab-hook, n. 2. A hook having a narrow throat, adapted to grasp any link of a chain.

grab-iron, n. 2. A grappling-iron nsed for recovering broken boring or well-drilling tools from a well.

grab-link (grah'lingk), n. Same as

*stip-grab. grab-machine (grab'ma-shēn"), n. A digger or dredger which uses a grab or clam-shell

grabouche (gra-bösh'), n. [Origin unknown.] A card-game in which each player starts with an ace and builds up in sequence until he gets rid of twenty cards originally dealt to him. When one can go no further, another

takes it up. grab-rod (grab'rod), n. In ship-building, a rod or bar, fastened to a bulkhead or in the end of a hatchway, which may be grasped in the hand to steady the body when the vessel is rolling; also, a horizontal rod fastened to the side of a war vessel a few fect above the water-line in the vicinity of the gangwayladders, into which boat-hooks are hooked when holding a boat alongside the ladder.

grab-service (grab'ser"vis), n. Nant., vessels of two or more masts originally fitted out by the Bombay government to cruise against the pirates of the Malabar coast. Admiral Smyth. grab-skipper (grab'skip"er), n. In lumbering,

a short iron pry or hammer used to remove the skidding-tongs from a log.

grab-snow (grab'sno), n. Naut., a two-masted vessel having a boom-mainsail and belonging to the Bombay marine. See *grab-service. [Obsolete.] N. E. D. grab-vessel (grab'ves'el), n. See *grab-ser-

grace, n. 19. A bow or courtesy.

All take your places and make your graces, And let the dance begin. Stedman, Country Sleighing, st. 6.

Congruous grace, grace anited or adapted to the effect intended under the conditions in which it is bestowed. See★congruism. grace-wife (gras'wif), n. A midwife. Halli-

well. [Prov. Eng.]
gracilariid (gras-i-lā'ri-id), n. and a. I. n. A
member of the family Gracilariidæ.

II. a. Of or belonging to the lepidopterous family Gracilariidæ.

graciosity (grā-si-os'i-ti), n. [In ME. gra-cousete, & OF. graciouseté; later newly taken gratiositas, (gratiosus, gracious.] The quality of being gracious; a gracious

act. Carlyle.
grackle, n. 3. In angling, the name of an artificial fly used in bass-fishing.—Bronzed grackle, Quiscalus quiscula aeneus, a subspecies of the purple grackle, found in the northern and western United States, especially in the Mississippi valley. It is characterized by the bronze or brassy reflections of the plumage. grad (grad), n. [A modern technical applica-

tion of AS. grad, a step, $\langle L. \text{ gradus}, \text{ a step} \rangle$ see grade.] In petrog., in the quantitative system of classification (1902) (see *rock1), a division of igneous rocks lower than the subrang. A grad is based on the proportion of minerals of the subordinate group of standard minerals, when they are present in notable amount, that is, when they are more than one seventh as much as the preponderant

grad (grad), n. A graduate. [College slang.] grad. An abbreviation of the Latin gradatim, by degrees.

gradate, v. t. 2. In ehem., to bring (a solution) to a desired degree of concentration. [Rare.] gradate (grā'dāt). a. [L. gradatus (parallel to NL. graduutus, whence E. graduate, u.), \langle L. gradus, step, grade: see grade, n.] Arranged serially according to size, as the whorls of a gastropod shell.

These (five whorls) being uniformly vitreous, shining, smooth, gradate. Proc. Zool. Soc. London, 1901, II. 417. gradation, n. 7. In geol., the process of pro-

ducing an even slope, by agencies of erosion and transportation, on which the supply and removal of rock-waste or detrital material are

about balanced.—Gradation plain. See *plain!. grade!, n. 5. In trigon., in the centesimal system, the hundredth part of a right angle; also, the hundredth part of a quadrant.-6. A small difference between the brightness of two stars: substantially the same as a step: a term used by observers of variable stars. Astrophysical Jour., Dec., 1903, p. 377.—7. In philol., one of the positions or forms assumed by a vowel or root in a series of phonetic changes caused primarily by change of stress and other factors, as the vowels in English sing, sang, sung, ride, as the vowels in English sing, sang, sung, ride, rode, ridden, etc., Latin eapio, eepi, cipio, etc., Greek √λειπ, √λιπ, √λοιπ, leave, √τεμ, √ταμ, √τομ, eut, etc.—Grade of repose, in railroad construction, properly, a grade upon which a train will remain at rest under ordinary conditions of wind or other pressure tending to set it in motion; more loosely, and inaccurately, an incline or slope in a track which is just sufficient to overcome the rolling friction of a train at rest and cause it to move downward.—Grade resistance. See *resistance.—Momentum grade, in railroad construction, a grade on a road which employs locomotives of a given power for a given train resistance on a level track, and which the trains are unable to surmount unless assisted by the train momentum acquired by approaching the grade at full a given train resistance on a level track, and which the trains are unable to surmount unless assisted by the train momentum sequired by approaching the grade at full speed. See pusher *grade, train *resistance,* and grade *resistance.*—Percentile grades, in the study of variations, the values obtained by measurements taken at different points in the scale of frequencies.—Pusher grade, in railroad construction, a grade too steep for a single engine hauling an ordinary train, and requiring the use of a pusher or assistant engine. It is used wherever the cost of construction and maintenance of longer and easier grades would be more expensive than the employment of pusher engines upon a shorter grade. See *pusher, 4.—Ruling grade, in railroad construction, a grade on any given road or division which, by reason of its grade resistance and sometimes also of its curve resistance, sets the limit to the train service; the most difficult grade the locomotives with a fixed number of cara can overcome without the aid of a pusher. In order of grade resistance is next to a pusher grade. See grade *resistance, curve *resistance, and pusher *fyrade.—To be at grade, in phys. geog., said of an eroding and transporting agency, such as a stream, when, by its own action in eroding or filling, it does not actively build up or wear down its course. See *regimen.

grade¹, v. I. trans. 4. In phys. yeog., to develop by eroding or filling (degrading or aggrading) into an even slope on which an eroding and transporting agent (such as a stream) will not actively build up or wear down its course.—5. In philol., to alter or be altered by gradation or ablaut. Skeat, Prin. Eng. Etymol., p. 170.

II. intrans. To prove to be of a certain grade or quality.

grade or quanty.

In Nelson County [North Dakota] . . . some of it [the wheat] is frosted, that of others grading No. 1 hard and No. 2 Northern. . . In Pierce County . . . they have had no frost and the wheat is grading nearly all No. 1 hard.

N. Y. Tribune, Oct. 30, 1891, p. 7.

grade-bred (grad'bred), a. Noting cattle, sheep, or hogs bred by mating a pure-blooded animal

with one of no pedigree. See grade¹, 4. graded (grā'ded), p. a. 1. Arrauged in series of grades; existing in a series of grades: as,

graded schools: graded forms.-2. Reduced to a (specified) grade; specifically, in phys. geog., possessing such a slope or form that the agencies of erosion and transportation which act upon it are essentially occupied in carrying forward the detritus which they receive: said of stream-courses, hillsides, beaches, etc. Graded plain. See $\star plain1$.

grade-peg (grād'peg), n. A small stake or peg driven into the ground to serve as a point A small stake or peg of reference for heights or elevations. F. A. King, Irrig. and Drainage, p. 476.

grade-post (grād'post), u. 1. A stake set upon a right of way to indicate the grade to which the proposed road must be made to conform.

—2. A guide-post placed beside a railway-track to indicate a change in the grade of the

gradient, n. 3. In math., a rational integral homogeneous and isobaric function. Sylvester. -4. In geom., slope.

If from any point P on the curve, we draw the tangent-line, to the right, the gradient is the tangent of the angle which this line makes with the positive direction of the axis of x. II. Lamb, Calculus, p. 67.

If from any point P on the curve, we draw the tangent of the anglie, which this line makes with the positive direction of the axis of x.

Adiabatic gradient. See *vertical *σγασιανία. P. 67.

Adiabatic gradient. See *vertical pressure of barometric gradient in the gradient is measured on the daily map perpendicular to the isohars at any point. —Critical barometrical gradient, the gradient that would be maintained under the influence of a steady wind or a steady system of winds.—Cyclonal gradient, the barometric gradient directed toward the center of a cyclone.—Electric gradient, the rate at which the electric potential varies. The great variations of horizontal gradient become explicable by the determination of the vertical gradient in the atmosphere. A spherical cumulus cloud of one kilometer radius, with its center three kilometers from the earth's surface, will, by its own charge, by induction cause a decrease of potential toward the earth's surface of about 11,000 volts per meter of slittude.—Ferrel's gradient formula, the analytical expression of the relation between barometric gradient and attending winds. This formula was first deduced and published by Ferrel in 1858.—Gradient of refraction, the rather sndden change in the vertical temperature gradient that occurs at considerable slittudes, such as 10,000 feet, in the atmosphere, corresponding to the abrupt change in gradient, the gradient of pressure between the free surface of a liquid in a reservoir and any orfice of efflux connected with the same.—Initial gradient, the ver

gradometer (grā-dom'e-ter), n. [L. gradus, step, + Gr. $\mu \dot{\epsilon} \tau \rho o \nu$, measure.] An instrument for measuring the amount of slope in any

graduated (grad'ū-ā-ted), p. a. Specifically, in ornith., having the tail moderately pointed, the tail-feathers regularly decreasing in length from the center pair outward.

graf, n. and v. t. A simplified spelling of graff.
graft², n.—Animal graft, a graft made with bone or
other tissue removed from one of the lower animals.—
Autoplastic graft, a graft made with skin or other
taken from another part of the subject's own body.—
Heteroplastic graft, a graft made with skin or other
tissue taken from another individual.—Sponge graft, a
very small piece of aseptic sponge applied to agranulating
surface to serve as a center for the formation of new epithelium.—Thiersch's graft, a graft made with a piece
of skin of appreciable size to which a certain thickness of
the subcutaneous tissue is attached.
grafting?
grafting.

graft³ (graft), n. [ME. *graft, AS. *græft (not recorded) = Icel. gröftr (gen. graftur), digging, < AS. grafan, Icel. grafa, dig: see grave¹, v.] 1. The depth of a spade in digging; the amount of earth turned up in one turn of the spade. Markham.

The . . . relics . . . were discovered in 1827, . . . at a depth of about a 'spade's-graft' beneath the surface.

Proc. Soc. of Antiquaries, March 7, 1844, p. 30.

2. A narrow crescent-shaped spade, used in cutting drains. Eng. Dial. Dict.

graft⁴ (graft), n. [Prob. a generalized use of graft³, digging. Compare the figurative use of digginys for a location or region where work is carried on.] 1. Work; labor. [Prov. Eng.] 'Well, I've got some graft to do now.' Often heard in and about Sheffield.

d about Snemeta.

S. O. Addy, Gloss. of Words Used in the Neighborhood [of Sheffield, 1888-90, Sup., p. 25.

[of Sheffield, 1888-90, Sup., p. 20.
The story ["The Autobiography of a Thief"] has been told in the thief's own words. But this feature is not without interest to the student of philology. For example, In Australia the slang word for work of every sort and kind, from that of the head of a State to that of a crossing-sweeper, is "graft." All sorts and conditions of people use the word in this connexion.

Athenæum, April 30, 1904, p. 560.

2. A job or a trade.

The roadster proper is distinguished from the tramp by having a 'graft,' or in other words a visible means of support.

Pop. Sci. Jour., 1V. 255 (1896). N. E. D.

graft4 (graft), v. i. [graft4, n.] To work. [Prov. Eng. 1

Graft, to work; "where are you grafting?" i. e., where do you live or work? Hotten, Slang. Dict. (1869), p. 146.

To graft...(2) to work, but the work in this case was stealing, i. e., picking pockets. Grafting is also used in the sense of helping another to steal.

Farmer, Americanisms—Old and New (1889), p. 273.

graft⁵ (graft), n. [An extension of graft⁴, n.,
2. Compare the like development of job, 'a piece of work,' to job, 'a piece of corruption.']
1. Dishonest gain acquired by private or seeret practices or corrupt agreement or connivance, especially in positions of trust, as by offering or accepting bribes (directly or in the veiled form of commissions, fees, gifts, or philanthropic contributions), or by promising or using, directly or indirectly, one's official influence or power to assist or protect wrong-doing, or by levying blackmail—all in a pri-vate way and often disguised so as to seem the vate way and order disguised so as to seem the customary and proper course of business. The word graft, with its derivstes, came suddenly into extensive use in the political and journalistic language of the United States about 1901, as a new term more convenient in some respects than the equivalent terma bribery, corruption, dishonesty, blackmail, 'boodling,' all of which it connotes, and of which it is a succinct synonym. [Colloq. or slang.]

The World of Graft. Josiah Flynt (title of a book,

2. A business, process, place of concourse, or office, in or at which dishonest gain, by corruption or direct thieving, may be acquired. [Colloq. or slang.]

graft⁵ (graft), v. i. To engage in graft; live by graft. See *graft⁵, n., and compare quo-tation from Farmer under *graft⁴, v. i. [Colloq. or slang.]

I'd like to see this town run by thleves once. Course they'd graft—couldn't help it, but not any more 'n the police do.

Josiah Flynt, in McClure's Mag., April, 1901, p. 572.

graftage (graf'tāj), n. [graft² + -age.] The process and the operation of grafting, or the state or condition of being grafted: a comprehensive term comprising the act of grafting and all the questions of science, practice, and description that grow out of the operation. L. H. Bäiley.

grafter² (graf'ter), n. [graft⁵, v., + -er¹.] One who 'grafts' (see \star graft⁵, v.); one who takes or makes 'graft' or dishonest private gain, especially in positious of trust, and in ways peculiarly secret and corrupt.

When the purchasing agent of a corporation or a firm accepts a fee or a commission from the seller of goods to that corporation or firm he is a grafter.

Hartford Times, quoted in Boston Transcript, July 31,

specifin. 3. Joining; splicing; cally, splicing a rope by unlaying and relaying the strands of the ends to be joined, or, in knit ting, adding one piece to another.—4. In bee-culture, the substitution of eggs or larvæ in queen-cells for the original occupants.—Bark-grafting. Same as rind-grafting (which see, under

grafting).
grafting2 (graft'ting), n. [graft5, v., + -ing1.]
The practice of taking or making 'graft'; the practice of stealing money or its equivalent, especially in positions of trust, in ways not easily detected or punishable. N. Y. Tribune, Oct. 24, 1901.

Everybody who has atudled public life has been appalled at its corruption. There is a general belief that every State Legislature and the national Legislature are

given to "grafting." It is felt that they are actuated by other than pure motives. Why should public life be so debanehed? I have come to the conclusion that it is only a reflection of private life. There is "grafting" every-where.

W. T. Jerome, quoted in Boston Transcript (from Hartford [Times), July 31, 1903.

grafting-saw (graf'ting-sa), n. A saw with a wide kerf and coarse teeth adapted for the sawing of green wood: used for cutting off sheets and making the groove for a graft.

sheets and making the groove for a grant.

Graham flour. See *flour.

grahamite², n. 2. See *meteorite.

Grahamize (gra'am-iz), v. t.; pret. and pp. Grahamized, ppr. Grahamizing. [Graham (see def.) + -ize.] To treat, that is, to open (letters) or cause (letters) to be opened while they are passing through the post-office, as Sir James Graham, a British Home Secretary, was supposed to have done with the letters of Maz-

supposed to have done with the letters of Mazzini and his friends. [Rare.]

To grahamize.—On 14 June, 1840, Mr. T. Duncombe, M.P., presented a petition to the House of Commons from W. J. Linton, Giuseppe Mazzini, and others, complaining that their letters had been opened when passing through the Fost Office. Sir James Graham, the then Home Secretary, acknowledged that he had given instructions for this being done, and incurred great obloquy in consequence; but it appeared subsequently that it had been done by the Foreign Secretary, Byron's "travelled thane, Athenian Aberdeen," at the instance of the Neapolitan Government and with the concurrence of the Gabinet.

N. and Q., 9th ser., May 18, 1901, p. 334.

Grainan (grā'yan), a. [H., Grains, Greek +-an.]

Graian (grā'yan), a. [L. Graius, Greek, +-an.]

Pertaining to the Graii, or Greeks. grain¹, n. 15. In the tobacco industry, a deposit of calcium oxalate, in scattered glebules, often at the base of the hairs, formed upon tobacco-leaves in the process of curing and sweating.—16. The English name for the copsweating.—16. The English name for the copper coin called grano at Malta.—False grain, in a process (grāu'pros"cs), n. In photog., a process of photomechanical printing in which resulting pan in order to increase the size of crystals which have already formed. Saddler, llandbook of Indust Chem., p. 182.—Fish-skin grain, in leather, a grain which resembles the skin of a fish.—Grain leaf-hopper. See **leaf-hopper.—Grains of paradise.* (b) See **mnoyong.—Grains of rice, in ceram. See rice-grain decoration, ahout four fiths of a troy grain; same as diamond-grain (which see, under carat, 4). C. Hering, Conversion Tahles, p. 59.

grain!, v. t., 5. (b) To scrape, as with a slicker, on the grain side. C. T. Davis, Manuf. of Leather, p. 188.

grain-beetle (grān'bē"tl), n. A grain a process (grāu'pros"cs), n. In photog., a process of photomechanical printing in which the proof is given a granulated appearance. See grained *negative.

grain-sick (grān'sik), n. Impaction or over-distention of the rumen or first stomach of the ox due to eating excessive quantities of food. Also called grain-sickness and plenalvia.

grain-split (grān'split), n. In leather-manuf., the outer split, which has the grain on it, as distinguished from the flesh-split. C. T. Davis, Manuf. of Leather, p. 188.

grain-teeter (grān'tes'ter), n. A small weighing-scale adapted to ascertaining the number of pounds in a bushel of any given kind of grain.

of Leather, p. 380.

grain-beetle (grān'bē"tl), n. A
beetle which breeds in stored
grain. Among these beetles are the flat
grain-beetle, Læmophlæus peusillus, the
foreign grain-beetle, Cathartus advena, the
merchant grain-beetle, Silvanus mercator,
the red-necked grain-beetle, Cathartus
gemellatus, and the saw-toothed grainbeetle, Silvanus surinamensis.

grain-borer (crān' hōn" ér)

grain-borer (gran' bor "er), n. insect which bores into grain.—

Red necked Grain-beete Dinoderus truncatus, of uncertain origin, gemetlatus, but probably Central American, which bores en larged lnto stored grain and edible tubers and the Chittenden, boxes in which they may be stored.

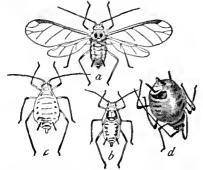
Red necked Grain-beete Crain-beete Crain-beete en larged Cathartus, et al arged control of the c

Grained negative. See *negative.

grainer¹, n. 5. In salt-making, a pan in which granulated salt is formed by rapid crystalliza-

tion under the action of solar heat. grain-gold (grain'gold), n. 1. Gold which develops a granular structure while being heated. -2. Gold-dust.

graining-paper (grā'ning-pā"pèr), n. A transfer-paper printed in color direct from the natural surface of woods and copying the grain of the wood. When wet, it is used as a transfer to print the grain of the wood upon any surface as a reproduction of natural graining. It is a substitute for artificial graining.



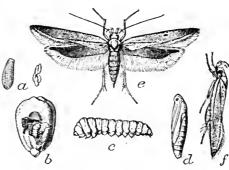
German Grain-louse (Macrosiphum cerealis).

a, winged migrant; b, nymph of same; c, wingless parthenogenetic female; d, same, showing exit hole of parasite. All enlarged. (After Riley.)

Same as seed-lae,

grain-louse (grān'lous), n.; pl. grain-liee (-līs). A plant-louse common to both North America and Europe, and which attacks growing grain and grasses as well as other plants. Among these lice are the English grain-louse, Macrosiphum granaria, the European grain-louse, Siphocoryne avenæ, and the German grain-louse, Macrosiphum cerealis. See cut in previous column.

grain-moth, n.—Angoumois grain-moth, a meth, Sitotroga cerentella, the larva of which infests stored grain. It is now a cosmopolitan species, but is supposed



Angoumois Grain-moth (Sitotroga cerealella),

a. egg and egg mass; b. larva in grain of corn; c. larva; d. pupa; e, f, moth. A tenden, U. S. D. A.)

to bave been introduced originally into the United State from the province in France (Angounois) from which its popular name is derived. Also called fly-weeril.

grain-process (grau'pros"cs), n. In photog.,

ox due to eating excessive quantities of food.

grain-split (grain'split), n. In leather-manuf., the outer split, which has the grain en it, as distinguished from the flesh-split. C. T.

of pounds in a bushel of any given kind of grain. A small quantity of the grain is weighed on the scales and the scale-weight indicates on the beam the exact weight of a bushel of that particular kind of grain. grain-trier (gran 'trī "er), n. A centrivance for sampling grain. See the extract.

for sampling grain. See the extract.

Cereals and other large seeds are sampled with a grain trier. This consists of two hollow cylinders of metal, one inside of the other, about 1 meter long and 12 mm. in diameter. They are pointed at the bottom and provided with a handle at the upper end. A corresponding series of oblong openings extends at regular intervals along one side of both cylinders, which may be turned at will so as to open or close the holes. The sampler, with the holes open, is thrust futo the top of a bag of grain for its entire length. When filled with seeds the inner cylinder is turned, so as to close the holes, and the sampler removed.

Yearbook U. S. Dept. Agr., 1894, p. 406.

(gran 'hwis "ki), n. grain-whisky made principally from raw barley, with only a small proportion of malted barley to assist the change of starch into sugar. The bulk of the Irish whisky of commerce is grain-whisky. Encyc. Brit., XXIV. 542. grain-worm (gran'werm), n. The larva of a

grain-beetle or of a grain-moth.
grallous (gral'us), a. Pertaining to or having
the characters of the Grallæ, an order of wading birds; gralline. .

gram², n.—Gram-centigrade heat-unit. See *heat-unit.—Gram atom. See *gram-atom.

unit.—Gram atom. See *gram-atom.
gram³, n.—Black gram, a black-seeded variety of the green gram, Phaseous Mungo.—Red gram, the cowpea, 1 igna Sinensis. See Vigna and cow-pea, under peal.—Turkish gram, a dwarf East Indian hean, Phaseolus aconitifolius. Called moth in India.—White gram, the soy-bean, Soia Soja. See soy, 2, and sahuca beans, under bean1.

gram⁴ (gram), n. [Gr. γραμμή, a line, ζγράφεν, draw, write: see gram².] In kinematics, the curve described by a point of a link-motion.

The point of a link-motion which describes any curve is called a graph, the curve being called a gram.

A. B. Kempe, How to Draw a Straight Line, p. 6.

grama (gra'ma), n. [See grama-grass.] A name for various grasses: always used with Marie 161 various glasses: always used with a qualifying word.—Black grama. (a) In New Mexico, Ililaria mutica, a perennial grass with running rootstocks which forms dense patches on hillsides. It makes excellent pasturage when abundant, and is gathered for hay by uprooting with a hoe. Also called black bunch-grass. (b) The bristly mesquit, Bouteloua hirsuta,

Grammatophyllum

and the woolly-foot, B. eriopoda. (c) One of the blow-out grasses, Muhlenbergia pungens. See *blow-out. Also called gramn china.—Blue grama, the common gramagrass, Bouteloun obigostachya, which ranges from Wisconsin to California and from Texas and Mexico to Manitoba and Alberta. It is one of the best grazing-grasses, with standing the trampling of stock and curing in the turf. In the eastern Rocky Mountain region it serves for pasture all winter.—Crowfoot grama. Same as blue *grama.—Grama china. See black *grama (c).—Jointed grama. Same as *side-oats.—Low grama. See six-weeks *grama.—One-flowered grama, a slender species, Boutelous unifora, of sonthwestern Texas. It bears numerous one-flowered spikes near together along the axis.—Side-oats grama. Same as *side-oats.—Six-weeks grama, Boutelous polystachya, a slender much-branched annual grass, which ranges from Utah to Texas and southern California. It occurs only in scattered tufts and is seldom more than 6 inches high. Also called low grama.—Tall grama. Same as *side-oats.—Texas grama. Same as seed-*mesquit.—White grama. Same as traggling grass, Muhlenbergia Porteri, of dry meass and tahle-lands in the southwestern United States and in Mexico. It is of good quality as feed, but will not bear trampling: in rich soil, however, it affords hay. (b) Same as eurly *mesquit.—Woolly-foot or woolly-jointed grama. Same as *woolly-foot.

gram-atom (gram 'at on, n. In chem., a quantity of an element whose weight in grams is numerically equal to the atomic weight of

quantity of an element whose weight in grams is numerically equal to the atomic weight of the element.

One gram-atom of radium gives off per hour an amount of heat comparable with the heat produced by the combustion of a gram-ntom of hydrogen.

Jour. Franklin Inst., Nov., 1903, p. 329

gram-calory (gram'kal"ō-ri), n. The quantity of heat necessary to raise one gram of water from 0° to 1° C.; the thousandth of a greater calory

gramenite (gram'e-nīt), n. Same as grami-

gram-equivalent (gram'ē-kwiv"a-lent), n. That weight of an element or compound which is equivalent to one gram of hydrogen; that quantity of an element or compound whose weight in grams is numerically equal to its equivalent weight.

graminicolous (gram-i-nik'ō-lus), a. [L. gram-en (gramin-), grass, + colere, inhabit.] Living upon grasses: said of fungi and other para-

graminiferous (gram-i-nif'e-rus), a. [NL. *graminifer, (L. gramen (gramin-), grass, + ferre, bear, +-ous.] Grass-producing; grass-bearing: as, the graminiferous plains of South America. Mrs. Somerville, Connect. Phys. Sci.,

graminin (gram'in-in), n. A carbohydrate. (C₆H₁₀O₅)₆H₂O, found in the roots of *Trisetum* at pestre and other plants. It melts at 209° C. graminous (gram'i-nus), a. [L. graminosus, grassy, \(\frac{gramen}{gramen} \) (gram'i-\), grass.] Grassy; covered with grass; also, erroneously, grass-

like; gramineous.
gram-ion (gram'i*on), n. In phys. chem., a
quantity of an ion whose weight in grams is numerically equal to the atomic weight of the ion, or, iu the case of a complex ion, to the sum of the atomic weights of the atoms of the ion,

One gram-ion of chlorine signifies 35.45 grams of chlorine in the ionic condition (Ci); a gram-ion of (SO₄) weigha 96 grams (96 being the aum of the atomic weights).

Arrhenius (trans.), Text-book of Electrochem., p. 9.

Gramma (gram'ā), n. [NL., ζ Gr. γραμμή, a line: see *gram*.] A genus of very small basslike fishes, with the lateral line broken, belonging to the family Serranidæ: found in the coast waters of Cuba. G. loreto is the known species.

Grammaria (gra-mā'ri-ā), n. [NL. (Stimpson, 1854), ζ Gr. γραμμή, a line (!).] The typical genus of the family Grammaridæ.

Grammaridæ (gra-mar'i-dē), n. pl. [NL., Grammaria + -idæ.] A family of sertularian hydroids in which the hydrocaulus consists of an axial tube which carries the hydrotheca and is surrounded by and inseparably coalesced with peripheral tubes without hydrothece. The hydrothece are aduate to the axial tube. The typical genus is Grammaria. Grammatophyllum (gram * a - tō - fil' um), n. [NL. (Blume, 1829), ζ Gr. γράμμα (γραμματ-), letter, + φίλλον, leat. The allusion is appar. to the irregular spots and markings on the to the irregular spots and markings on the leaves of the perianth.] A genus of plants of the family Orchidacca. They are large epiphytes, with long leafy stems, narrow leaves, and basal, long-stalked, loose racemes of large yellow or green flowers, spotted and mottled with purple or brown. There are 4 species, natives of the Malay region, often cultivated by orchid-fanciers. G. speciosum, sometimes called the queen of orchids, is one of the largest and most showy plants of the family, its stems sometimes attaining a length of 12 feet in a single year, and the racemes reaching a length of 6 feet. Gramme ring. See *ring.

gram-meter (gram'mē ter), n. A gravitational unit of work, the work required to lift one gram one meter vertically against the earth's attractive force. It is one thousandth of a kilogram-meter, or about 98,000 ergs.

Grammicolepididæ (gram'i-kō-le-pid'i-dē), n.
pl. [Nl., \(Grammicolepis (\cdot d-) + \cdot -idx. \)] A family of deep-water fishes, allied to the pomfrets or Bramidæ: distinguished by large scales and other characters. A single genus, Grammicolepis, is known.

Grammicolepis (gram"i-kol'e-pis), n. [NL., ⟨ Gr. γραμμικός, linear (⟨γραμμή, line), + λεπίς, scale.] The typical genus of the family Grammicolepididæ, containing a single species, Grammicolepis (gram"i-kol'e-pis), n. G. brachiusculus, a very rare fish of the deep waters of Cuba.

Gramminæ (gra-mi'nē), n. pl. [NL., < Gramma + -inæ.] A subfamily of the family Serranidæ, or bass-like fishes, typified by the genus Gramma.

Grammistes (gra-mis 'tēz), n. [NL., ⟨Gr. γραμμη, a line, +-istes.] Λ genus of bass-like fishes of the family Serranidae, found in the South Seas. Th. species are dark brown in color, with stripes of golden yellow. *G. sextineatus* is common in the mid-Pacific.

Grammistinæ (gram-is-ti'nē), n. pl. A subfamily of widely distributed serranoid fishes. gram-molecular (gram mō-lek'ā-lär), a. Pertaining to or containing a gram-molecule. Physical Review, March, 1904, p. 155. gram-molecule (gram'unol"e-kul), n. A weight

of a substance such that the number of grams taken is equal to its molecular weight or to the sum of the combining weights of the elements of which it is made up. One grammolecule of water, for example, is 18 grams $(H_2O = 1 + 1 + 16 = 18).$

Grammysia (gra-mis'i-ä), n. [NL., said to be (irreg.) $\langle \text{Gr. } \gamma \rho \acute{a} \mu \mu a$, a letter, $+ \mu i \varsigma$, a muscle. If so the right form would be *Grammatomya.] A genus of prionodesmaceous pelecypods, typical of the family *Grammysiidæ*, with large oval integropallial valves and very simple, wholly edentulous hinge. It is of Devonian

Gram-negative (gram'neg"a-tiv), a. Negative (that is, resistant) to Gram's stain. See \star stain.

Gram-positive (gram'poz"i-tiv), a. Positive (that is, receptive) to Gram's stain.

grampus, n.—To blow the grampus. See $\star blow 1$,

Gram's method, stain. See Gram's *method,

granadino (grä-nä-dě'nō), n. [Colonial Sp., Granada, (New) Grenada.] A silver coin of Venezuela (the republic of New Grenada), of the value of 8 reals.

granary-beetle (gran'a-ri-bē#tl), n. Same as *grain-beetle (which see).

granary-weevil (gran'a-ri-we"vl), n. Same as grain-weevil.

granatine (gran'a-tin), n. [(pome)granatc+-ine².] A colorless alkaloid found in the bark of pomegranate root.

granatoline (gran-a-tō'lin), n. [L. granatus, grained, +-ot+-ine².] An alkaloid, C₈H₁₄ OH.NH, obtained by the oxidation of n-methylgranatoline. It crystallizes in prisms which melt at 134° C.

Granby token. See *token.
grand. I. a. [In some of the following phrases grand is French, but often treated as the English word.]—Grand feu [F., 'great fire'], the highest temperature in the porcelain kiln, which by some is supposed to be about 4,717° F. Also called sharp fire, fierce fire, etc.—Grand guard, the guard detailed for the outpost duty of an army in the field. Agrand guard is usually lurnished by each brigade.—Grand jeu, in the harmonium, a stop which makes the full power of the instrument available.—Grand misère (gran me-zār'), in boston, the loss of every trick, the hand being played as it was originally dealt, without discarding. Amer. Hoyle, p. 244.—Grand misère ouverte, in boston, the loss of every trick, the eards being exposed on the table: sometimes called a spread.—Grand ouvert, in skat, a grand played with the eards exposed on the table but not liable to be called. See *kskat.—Grand tourné, in skat, if the card shown for a tourné is a jack, the player may change his bid to grand tourné, that is, to play without a trump. See *kskat.

II, n. 2. Any announcement to play without a trump suit, in such games as skat, cayenne, etc. grand is French, but often treated as the Eng-

a trump suit, in such games as skat, cayenne, etc.

-Gucky grand, in skat, a bilt to play a grando after having taken in both the skat cards. See *skat.

grandmaternal (grand'mā-ter"nal), a. Of, per- grano-alaskose (gran"ō'a-las'kōz), n. [L. grantaining to, or befitting a grandmother. Bio-metrika, Nov., 1903, p. 99. grandparental (grand'pā-ren"tal), a. Of, per-

taining to, derived from, or befitting a grandparent or grandparents: as, a grandparental inheritance.

Cases in which the taint was grandparental or farther removed still, 16. Lancet, April 18, 1903, p. 1081.

grandpa's-beard (grand'päz-bērd"), n. In Texas, a species of virgin's-bower, Clematis Drummondii: so named from the fruiting panicle made showy by the feathery tails of the

grandrills (gran'drilz), n. pl. [Orig. grand drills, appar. a factory name.] A corset-jean, or cotton-drilling. A kind of coarse

granilite (gran'i-lit), n. [L. granum, grain, + Gr. λθος, stone.] A name given by Kirwan to complex granitic rocks composed of more than three minerals. Kirwan, Elem. Min., I. 346. [Rare.]

granit, n. A simplified spelling of granite, granite, n. In the quantitative system of classification (1902), it is proposed to apply the term granite for field purposes to all phanerocrystalline rocks composed of quartz and feldspar of any kind, with mica, hornblende, or other ferromagnesian mineral, if present in subordinate amounts. See *r.ock1.—Alkali granite, in petrog., a granite rich in alkali feldspars, of which the dark constituent is also alkalie, as riebeckite, egirite, etc. Similarly, certain syenites may be called alkali spenite. Rosenbasch.—Binary granite. (a) Granite consisting of the two minerals quartz and feldspar, mica and other common stiticates being absent: in this nearly obsolete sense granite is almost synonymous with haptite. (b) A granite containing two micas: the granite proper of some authors.—Concretionary granite, orbicular granite.—Paris granite. Same as *semi-porcelain.—Prunegranite, an orbicular granite in which nodules or lumpy aggregates of the dark minerals, chiefly blottle, form the characteristic feature. The fancied resemblance of these nodules to prunes arranged throughout the rock is the basis of the name. Sometimes also called pudding-granite.

A nodular granite from Ontario has been described.

A nodular granite from Ontario has been described.

This differs from other orbicular granites in that there is no pronounced radial or concentric atructure. The same is true of the "pudding" or "prune" granite of Vermont.

Amer. Geol., Sept., 1904, p. 139.

White granite, in ceram, a variety of hard white pottery of a bluish tint; a grade below semi-porcelain. It is more extensively produced in the United States than any other grade of crockery, being used principally for table and toilet services. Also called stone china and ironstone

granitization (gran"i-tī-zā'shon), n. [granite -ize + -ation.] In geol., an extreme phase of metamorphism leading to the transformation of sediments into rock which resembles igueous granite.

granitize (gran'it-īz"), v. t.; pret. and pp. granitized, ppr. granitizing. [granite + -ize.] In geol.: (a) To impregnate (a rock) with granitie material or minerals. Certain fissile schists are supposed to have been filled with thin seams and layers of grante magma, intruded in a molten condition, producing gneiss-like rocks. Other rocks are in some cases impregnated with minerals derived from bodies of molten grante through processes of contact metamorphism. (b) To change into granite; convert into granite.

granitoidal (gran-i-toi'dal), a. Same as grani-

granivore (gran'i-vor), n. [NL. granivorus, grain-eating: see granivorous.] Any animal, but more particularly a bird, that feeds upon grain.

Our poultry are chiefly granivores.

Lancet, Aug. 22, 1903 (advt.).

granjeno (grän-hā'uō), n. [Mex. Sp.] In the southwestern United States and in northern Mexico, a shrub, Momisia pallida, of the clm family, which bears small orange-colored or The plant is red berries having an acid pulp. suitable for hedges, and the fruit is edible, though not much esteemed by the natives.

grannom (gran'om), n. A British anglers' name for a caddis-fly, Brachycentrus subnubilis, or an imitation of it.

granny, n. 3. A nurse or midwite. [Southern

granny (gran'i), v. t.; pret. and pp. grannied, ppr. grannying. [granny, n.] To serve as a nurse or midwife.

She grannicd yore mother when you was born.
R. McE. Stuart, In Simpkinsville, p. 85.

granny-bush (gran'i-bush), n. Either of two shrubs, Cordia Lima of the borage family, or Croton linearis of the spurge family; hoth are eovered with an ashy-gray tomentum. [Bahama Is.]

2. A subsidiary coin of Naples and grano, n. the two Sicilies, the hundredth part of a ducat, equal to eighty hundredths of a United States cent.

um, grain, +-o, signifying megascopie, + alask-(ite) +-ose.] In petrog., in the quantitative system (see rock1), a granitic rock having quartz and alkalic feldspar in nearly equal proportions, the feldspars being nearly equally sodic and potassie.

granodiorite (gran-ō-di'ō-rit), n. [gran(ite) + diorite.] A phaneroerystalline rock intermediate in composition between granite and quartz-diorite: nearly the same as quartz-monzonite. The feldspars which it contains are orthoclase and lime-soda feldspar in nearly equal smounta; quartz and subordinate amounts of mica, hornblende, or other ferromagnesian minerals also are present. *Becker*.

granoliparose (gran- $\bar{0}$ -lip'a- \bar{n} 0s), n. [gran, granular, +-o-+ liparose.] In petrog., in the quantitative system of classification (see *rock1), an igneous rock belonging to the sodipotassic subrang of the peralkalic rang of the quardofelie order of persalane, Class I, having a megaseopic granular texture. The term is applicable to certain kinds of granites.

granolite (gran'ō-lit), n. [L. granum, a grain, + Gr. $\lambda i \theta o c$, stone.] An evenly granular igneous rock, in distinction from a porphyritic rock. Turner, 1900.

granolithic (gran-ō-lith'ik), a. [L. granum, grain, + Gr. λίθος, stone, + -ic.] Made of crushed stone, sand, and eement: noting a speeial form of concrete. When pavements or buildings are so made they are usually covered with a coating of neat cement.

granoplasma (gran-ō-plaz'mä), n. [NL., \langle L. granum, grain, + Gr. $\pi \lambda \acute{a}\sigma \mu a$, anything formed.] Finely granular protoplasm.

granospherite (gran'ō-sfē-rīt), n. [L. granum, grain, + spher(ule) + -ite².] In petrog., a spherulite composed of grains arranged radially or concentrically. Vogelsang, 1872.

granth (grunt), n. [Hind. granth, a knot, book, code, < Skt. grantha, a knot, composition, verse, book, text, < \sqrt{granth}, \sqrt{granth}, \sqrt{granth}, \sqrt{granth}, \sqrt{granth}, \sqrt{granth}, \sqrt{granth}, \text{tie, connect, compose.}] The Book, that is, the Scriptures, of the Sikhs, containing the hymns composed or compiled by their leaders from Nanak (1469-1538) onward.

Granular gland. See *granule-gland.—Granular hypothesis, the doctrine or opinion that the granules seen in protoplasm are the fundamental units of structure for all living things.

granularity, n. 2. In petrog., the magnitude of the grain of a rock: a factor in the texture. Granulated steel. See *steel1.

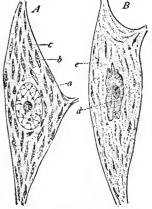
granulation, n.—Exuberant granulations, large succellent granulations which rise above the level of the skin surrounding an ulcer: also called proud flesh.—Granulation tumor. Same as granuloma.

akm surrounding an ulcer: also called proud flesh.—
Granulation tumor. Same as granulona.

granule, n.—Altman's granules. Same as Altman's *hioblasts.—Babes-Ernst granules, small granules which occur in the bodies of diphtheria bacilli and are demonstrable by staining with a methylene-blue solution of the composition: 1 gram of the dye, 20 cubic centimeters of absolute alcohol, 50 cubic centimeters of glacial acetic acid, and water enough to make one liter. The preparations are then counterstained with Bismarck brown. The pseudo-diphtheria bacilli, when thus stained, show no granules.—Central granule. See *central.—Chromatic granules. See *hetomatic.—Granules of Nissl. See Nisst *granules.—Kefir granules. See *hetor-Metachromic granules.—Kefir granules. See *hetor-Metachromic granules. See *hetor-Metachromic granules. Peculiar structures of granular appearance which are seen about the nuclei of the various leucocytes of the blood on staining with a certain dye (Neusser's modification of Ehrlich's triacid stain); regarded by some as artifacts.—Nissl granules, small, deeply staining bodies found by Nissl in the cytoplasm of nervecells. These bodies

by Nissl in the cytoplasm of nerve-cells. These bodies are said to consist of Nissl substance and are sometimes ap in dle - shaped, when they are called Nissl's bodies and tigraid.—Plastin granule. See tigroid.— Plastin granule. See *plastin.— Solar granule, one of the little bright spots, resembling rice-grains, with which the face of the sun appears to be covered when viewed telescopically. cally.

granule-ball (gran'ul - bâl), n. One of the roundish gran-



Nissl Granules

Two motor cells from lumbar region of spinal cord of dog fixed in sublimate and stained in toluidin blue.

A, from the fresh dog; a, pale nucleus; b, dark Nissl spindles; c, bundles of nerve fibrils; B, from the fatigued dog; a, dark shiveled nucleus; c, pale spindles. (After Mann.) the body of the pupa of an inseet in its later stages of development, and

which consist of leucocytes which have ab-

body

granule-gland (gran'ūl-gland). n. In various grape-fly (grāp'fli), n. One of the fruit-flies, platyhelminths, one of the unicellular glands

Drosophila ampelophila, which breeds in grape whose secretion, consisting of refringent granpe and also in preserved fruits and wine.

granulitic² (gran-ū-lit'ik), a. [granule + -ite² +-ie.] In petrog., having a granular texture made up of nearly equidimensional grains or erystals.

granulitize (gran'ū-li-tīz), v. t.; pret. and pp. granulitized, ppr. granulitizing. [granulite In petrog., to make granular, as by erushing.

granulize (gran'ū-līz), v. t.; pret. and pp. granulized, ppr. granulizing. To convert into granulized, ppr. granulizing. To convert into parts of Europe. granules, as a fine powder into a coarser one grape-slug (grap'slug), n. The larva of the by wetting, sieving, then drying and resieving, preparatory to making compressed tablets. The product is termed a granulation.

granulo-adipose (gran/ū-lō-ad'i-pōs), a. Containing or consisting of granules and fatty substance: said of certain cells or tissues: same as granulo-fatty.

granulo-crystalline (gran"ū-lō-kris'ta-lin or -lin), a. 1. Containing or consisting of gran-ules and erystals: said of certain cells or tissues.—2. In petrog., crystalline with nearly equidimensional grains.

granuloma, n.- Granuloma tropicum. Same as

granulo-pulpy (gran"ū-lō-pul'pi), a. Consisting of or containing granules and pulp: said of certain tissues or cells.

grape1, n., 4. pl. (b) A specific affection of the heel of horses, accompanied by an offensive discharge and the formation of red, raw exeres-eences (grapes) on the surface. Also called varrucase dermatitis, (c) Tuberculosis of the se-rous membranes (pleura and peritoneum) in which conglomerate clusters of tubercles are

rous membranes (pleura and peritoneum) in which eonglomerate clusters of tubereles are found. Also called pearly disease.—Arroyo grape, the riverside grape, Pitis vulpina: so called in the western U.S.—Ashy grape. Same as downy *grape. See *bitter-rot.—Bug grape, Vitis bicolor, a high-climbing vine of the eastern United States, having the leaves bluish-glaucous, especially on the under surface, and the berries bluish-black with a bloom.—Chytridiose of grape. See *chytridiose.—Downy grape, Vitis cimera, having downy or floccose pubescent leaves and young shoots, and small, pleasantly acid berries. It is found along streams from Nebraska to Texas, and also in Florida.—Gippsland grape, in Victoria, same as native *grape.—Grape family, the plant-family l'itacea.—Grape seed-worm. See *seed-worm.—Leaf-blight of grape. See *leaf-blight.—Macquarte Harbor grape, in Tasmania, a climbing shrub of the buckwheat family, Calacinum adpressum (Muchlenbeckia adpressa of Meisner), which bears small pink flowers in panicled spikes, followed by currant-like subacid fruits which are used for tarts, puddings, and preserves. Also called Macquarie Harbor rine and, in Australia, native ivy.—Native grape, in Anstralia, an evergreen climber, Cisaus hypoglauca, which bears black edible fruits the size of cherries. Called Gippsland grape in Victoria.—Oil of grapes. See *oil.—Oregon grape. See Berberis.—Peruvian wild grape, Chondrodendron tonentosum, a climbing plant belonging to the moonseed family, with leaves 5-nerved at the base, and clusters of flowers which grow from the leaf-axilis or from the old wood of the stem. The fruit resembles bunches of grapes, from which are derived the Spanish name uva del monte (used in Peru) and the Portuguese pareira brance of the first the state of the continuous and climbing pareira branches the continuous and climbing plant belonging

and chacles of howers which grow from the fear-axis or from the old wood of the stem. The fruit resembles hunches of grapes, from which are derived the Spanish name uva det monte (used in Peru) and the Portuguese pareira brara (of the Brazilians), both of which signify 'wild grape.' The root of this plant is the true radix pareiræ braræ used in medicine. See pareira.—Port Jackson grape. Same as kangaroo-vine or kangaroo-grape. It is a tall woody climber of eastern Australia which bears globular black berries.—Poasum-grape, the frost grape, Vitis cordifotia.—Rocky Mountain grape. Same as Oregon **grape.* Sait-grape, the saltwort, Sahola Kali.—Seald of grape. See **scald1.—Sea-grape, (c) Same as salt-**grape. (d) See **scald1.—Sea-grape, (c) Same as salt-**grape. (d) See **scald1.—Sweet-acented grape, the riverside grape, V. vulpina.—Tall-grape. See tail-grape.—Winter grape, a name sometimes given to the frost grape, the riverside grape, and the blue grape.

grape-cake (grāp'kāk), n. In wine-manuf., the solid mass of grape-skins which remains after the juice is expressed; the mare.

after the juice is expressed; the mare.

grape-caterpillar (grap'kat"er-pil-är), n. A caterpillar which feeds on the leaves of the grape-vine.—Social grape-caterpillar, the larva of an American pyromorphid moth, Harristan Americana, which feeds gregariously on the leaves of the grape.

grape-curculio (grap'kėr-kū"li-ō), n. A small enreulionid beetle, Craponius inæqualis, which lays its eggs on young grape-berries in which its larvæ feed. Same as grape-weevil (a) (which

see, under weevil).
grape-eater (grap'ē"ter), n. Same as *fig-eater. grape-essence (grap'es'ens), n. An artificial truit-essence composed of chloroform, various ethers, tartaric acid, and other components: used as a flavoring agent.

sorbed fragments of the tissue of the larval grape-fleck (grap'flek), n. See *scald of

whose secretion, consisting of refringent gran-ules, mixes with the spermatozoa. Parker and Haswell, Zoology, I. 255.

pomace and also in preserved fruits and wine.
grape-fungus (grāp'fung"gus), n. One of the
molds, Oidium Tuckeri, which attack grapevines. Also ealled vine-mildew. See mildew, 1, and grape-mildew.

grape-hopper (grap'hop'er), n. The grapevine leaf-hopper, Erythraneura vitis.
Grape-leaf blight, gall-louse. See *blight,

 \star oall-louse.

grape-scale (grap'skāl), n. A diaspine scale-insect, Aspidiatus uvæ, which feeds on grape-canes in the United States, Jamaica, and parts of Europe.

grape-vine saw-fly.
grape-trellis cup. See *cup.
grape-vine, n. 2. In wrestling, a lock in which
the arm or leg is twined around that of the opponent.—Grape-vine aphis, Siphonophora viticola, an aphis destructive to the leaves and young shoots of the grape-vine in the middle and southern United States.—Grape-vine apple-gall, bark-louse, filbert-gall, leaf-roiler, root-borer, root-worm, aw-fly. See *apple-gall, etc.—Grape-vine grass. See rine-*mes-quit.—Green grape-vine aphinx. See *sphinx.

grape-worm (grāp'werm), n. Same as grape seed-worm (which see, under *seed-worm).

graph1, n. 2. A curve as representing an equation or function.— 3. A line drawn through a series of points whose position has been already determined.—4. A representation by points on or in a lattice. Sylvester.— 5. The point of a link-motion which describes 5. The point of a link-motion which describes any curve. Kempe.—Easential graphs, a system of graphs for logical analysis of which the chief characteristic is that if two assertions are written at once on the sheet the effect is the ascrtion that one or the other is true.—Graph of an equation, the line obtained by making a diagrammatic representation of an equation with the aid of a system of coordinates; the geometric pleture or map of an equation.—Graph of a function, the line plotted when a function is considered as the ordinate of its argument as abscissa.—Graph of the function (x), the curve whose equation is y = f(x).

graph¹ (gráf), v. I. trans. To draw a eurve representing (a given equation or function).

II. intrans. To trace graphs.
graph² (gráf), n. [Detached from compounds ending in -qraph.] Any apparatus for duplicating drawings or printing day printing from the property of the ing drawings or writings by printing from a gelatinous surface. [Colloq.]

7. Concerned with or using graphs.

Graphic intergrowth, texture. See *texture. Graphic intergrowth, texture. See *texture. See *1. (Poiteau, 1824), ⟨Gr. γραφεία, writing, + dim. -ola. The leaves affected by it have the appearance of heirs writing are the second provided by the second provided prov being written upon.] A genus of fungi of doubtful relationship, but usually referred to the Ustilagnales, having the spore-mass sur-rounded by a black outer and an inner thin peridium. The spores are produced upon lateral cells of the fertile hyphæ. The species are few and occur as parasites on palm-leaves. G. Phanicis is a common species on Phanix dactylifera in hothouses.

graphiological (graf"i-ō-loj'i-kal), a. Relating or pertaining to graphiology.

ing or pertaining to graphitology.

graphite¹, n.—Acheson graphite, graphite artificially made from coke or other anorphous carbon, by the Acheson process, in an electric furnace in the presence of a small quantity of silicon.—Artificial graphite, graphite produced artificially, en an industrial scale, by heating intensely in an electric furnace coke or some other form of amorphous carbon along with a small proportion of silicon or silicon carbide, this addition apparently being necessary to bring about the crystallization of the carbon.—Baraga graphite, the graphite or carbonaceous schist produced in Baraga county, in the northern peninsula of Michigan.—Graphite black. See *black.

Minigan.—Graphice Discs. See *nack. Graphitic acid, a bright yellow compound, $C_{11}II_4O_5$, obtained by the oxidation of Ceylon graphite with potassium chlorate and nitric acid. It crystallizes in lustrous needles which hecome incandescent and explode when heated. It is formed, in small quantity, by the electrolysis of mineral acids when the positive electrode is graphite.—Graphitic earbon. See *carbon.

graphitite (graf'i-tit), n. [graphite + -ite2.] In min., a name proposed for such specimens of graphite as do not intumesce on being moistened with concentrated nitric acid and then strongly heated. This peculiarity is probably explained by the small, compact character of the crystals and is hence not essential. It is very doubtful whether graphite and graphitite really represent, as has been supposed, two distinct forms of carbon.

itize + -ation.] 1. Conversion of amorphous carbon or of the diamond into graphite by exposure to a very high temperature. See artificial *graphite. Electrochem. Industry, March, 1904, p. 108.—2. The operation of eovering the surface of an object with graphite. See \star araphitize, 2.

graphitize (graf'i-tiz), v. t.; pret. and pp. graphitized, ppr. graphitizing. [graphite + -izc.] 1. To convert into graphite (either of the two other forms of carbon) by exposure to a very high temperature. Industrially the process is applied to amorphous carbon. See artificial *graphite. Electrochem. Industry, June, 1904, p. 237.—2. To cover (the surface of an object) with graphite. This may be done by the direct application of graphite or, in the case of organic substances, hy heating them in absence of air until the outer surface is converted into graphite, as is done with the filaments of incandescent lamps. a very high temperature. Industrially the

graphitoid, u. II. n. A form of graphite, occurring in certain schists, supposed to be culiar in its readier combustibility. This, however, is probably due to the minute size and purity of the scales.

Graphium² (graf'i-um), n. [NL. (Corda, 1837), ζ Gr. γραφείον, a painter's brush or pencil.] A genus of hyphomycetous fungi having the fertile hyphæ closely united into an elongate stipe-like fascicle and bearing at the summit simple hyaline conidia. Over 60 species have been described, occurring mostly on decaying vegetable matter.

graphokinesthetic (graf"ō-kin-es-thet'ik), a. In psychol., pertaining to the sensations aroused by the movements of writing. Psychol.

Rev. Mon. Sup., xiv. 26. graphologic (graf-ō-loj'ik), a.

+ ie.] Of or pertaining to graphology.

graphomania (grat-ō-mā'ni-ā), n. [Gr. γραφή,
writing, + μανία, madness.] A morbid impulse to write or compose.

graphomaniac (graf-ō-mā/ni-ak), n. [grapho-mania + -ac.] One who is constantly writing, either letters to friends or to the newspapers, or stories and works of fiction, driven thereto either by an exaggerated idea of the importance of what he writes or by an insane im-

We have just been considering, in madmen, the substantial character of genius under the appearance of insanity. There is, however, a variety of these, which permits the appearance of genius and the substantial character of the appearance of gennis and the substantial character of the average man; and this variety forms the link between madmen of genius, the sane, and the insane properly so called. These are what I call semi-insane persona or mattoids. . . . The graphonaniac, representing the commonest variety, has true negative characteristics—that is to say, the features and cranid form are nearly always normal. always normal.

C. Lombroso (trans.), Man of Genius, p. 209.

graphon (graf'on), n. [graph(ite) + (carb)on.] In chem., a name given by Brodie to earbon in the form of graphite, which he assumed to represent a peculiar radical, capable of producing graphitic acid, while amorphous carbon

and diamond do not yield a similar product. graphostatical (graf-ō-stat'i-kal), a. [graph-(ic) + statical.] Pertaining to or using graphieal staties.

Great care was taken by experts in making the most correct mechanical and graphostatical calculations and investigations in order to settle the exact numerical value in length of the greatest permissible delections at different parts, points, and cross-sections of the bridge.

Sci. Amer. Sup., June 4, 1904, p. 23758.

graphotone (graf'ō-tōn), n. [Gr. γράφειν, write, + E. tone.] A photo-engraved plate in high relief, usually of zine but sometimes of copper, prepared for printing with type on a type-printing press; also the print taken from a plate so made.

The collotype process is worked universally, and is known by a variety of names; the Germans call it "Lichtdruck," the French "Phototyple," the Americans "Phototype," and we English have given it the titles of "Photoprint," "Heliotype," "Autotype," "Photophane," "Fhotomezzo-type," "Graphotone," etc.

Jour. Soc. Arts, quoted in Sci. Amer. Sup., March 28, [1903, p. 22767.

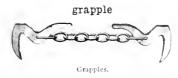
graphotype, n. 2. A type-writer for embossing letters upon thin sheets of metal to form type for use in an addressing-machine.-A form of type-casting and -setting machine.

The Goodson graphotype machine . . . depends upon electricity for its successful operation. It is composed of two parts: a small table about the size of a typewriter desk, containing an ordinary typewriter, a perforating machine, and a dial similar to a clock; and a caster and setter.

Census Bulletin 216, June 28, 1902, p. 59.

graphitization (graf"i-ti-zā'shon), n. [graph- grapnel-hook (grap'nel-huk), n. Same as arapnel, 1.

grapple, n. 7. pl. (a) Small iron dogs, joined by a short chain, which are driven into logs near the end when skidding on mountains, so that several logs may be skidded by one



horse at the same time. Also called *chain-grapples*, *coupling-grab*. (b) See *skiddingtonus

grapple-hook (grap'l-húk), n. Same as grap-

Grapta (grap'tä), n. [NL. (Kirby, 1837), < Gr. ραπτος, marked, painted, written, ζ γράφειν, mark, write. The reference is to the markings on the under side of the hind wings, which resemble letters or punctuation-marks.] A genus of butterflies of the family Nymphalidæ, well represented in the United States by the eomma butterfly, G. comma, the semicolon butterfly, G. interrogationis, G. j.-album, and others. Synonymous with Polygonia. Huebner,

Fraptolitoidea (grap"tō-li-toi'dō- \ddot{a}), n. pl. [NL., $\langle graptolite + Gr. \varepsilon i \delta o c$, form.] An or-Graptolitoidea ganie division including the graptolites, an extinet group of Hydrozoa.

graptoloid (grap'tō-loid), a. [graptol(ite) +-oid.] Related to, characteristic of, or resem-

bling the graptolites.

Graptoloidea (grap-tō-loi'dō-ā), n. pl. [NL. irrēg. < *graptoli(thus), graptolite + Gr. είδος, form.] A suborder of the graptolites, comprising the graptolites proper, characterized by the symmetric structure of the rhabdosomes, the lack of differentiation of the thecæ, and the solid periderm. They appear at the end of Cambrian time, strain their first culmination in the middle Lower Silurian with axonolipous forms, and a second such period in the Upper Silurian with axonophorous forms. Their rapid development and variation at succeeding geological horizons and their wide horizontal distribution make them important index-fossils.

graptomancy (grap'tō-man-si), n. [Gr. $\gamma \rho a \pi \tau \delta c$, written, $+ \mu a \nu \tau \epsilon i a$, divination.] Divination by handwriting

written, $+ \mu a \nu \tau$ by handwriting.

graptotheca (grap-tō-thē'kä), n.; pl. grapto-thecæ (-sē). [Gr. γραπτός, marked (see grapto-lite) + θήκη, a box.] One of the thecæ or zoöid receptacles of the graptolites. grass, n. 7. In printing, temporary employ-

grass, n. 7. In printing, temporary employment. [Eng.]—Aleppo grass. Same as Johnson kyrass.—Angola grass, Panicam spectabile, a stout species somewhat resembling the barn-yard grass, introduced from Africa into the lowlands of Brazil. It is represented as a productive and nutritions fodder grass.—Aparejo-grass, Sporobolus utilis, a slender, wiry, much-branched species which grows in Mexico and adjacent parts of the United States, in swampy places along streams. The name refers to its use in stuffing the aparejo (which see).—Arctic grass. Same as rescue-grass.—Arrow-grass. (a) See atrov-grass. (b) The csparto, Stipa tenacissima.—Artificial grass, a leguminous plant grown for forage. (Ferat Britain.)

The term artificial grasses is usually applied to clovers and their allies. Fream, Complete Grazier, p. 930. and their allies.

The term artificial grasses is usually applied to clovers and their allies. Fream, Complete Grazier, p. 930.

Austin grass. Same as Texas *millet.—Barcoo grass, Iseilema Mitchellii, an excellent pasture grass of western and southern Australia, New South Wales, and Queensland: named from a river in the last-named colony.—Bear-grass. (a) See *kear-gross, 2. (c) In the northwesern United States, Xerophyllum tenze. Its very slender and tough leaves, 2 or 3 feet long, were used by the Indians in making water-tight baskets. This is the bear-grass of Lewis and Clark. Also called squau-grass and squau-lify, and, in Idaho, pine-lify. See Xerophyllum.—Bermuda grass. See grass. This grass produces seed freely in warm countries, but in the United States only at the extreme south. By the use of imported seed it is found practicable to set aside the laborious method of propagating by enttings, provided the seed is sown in the cool and moist season. See St. Lucie's *grass.—Bhabur grass, Ischemum angustifulum, an Indian grass which possesses valuable technical qualities similar to those of esparto. It forns the chief raw material for paper-making in India, and is also used for ropes, strings, and mats.—Blow-out grass. See *blow-out.—Bluefolnt-grass. See bluejoint-grass. The common bluefoint-grass, Calamagrostis Canadensis, ranges across northern North America, extending south to North Carolina. New Mexico, and California. It inhabits moist meadows and, when abundant, is highly prized for hay. It succeeds well in cultivation. In the northern Rocky Monntains it is replaced by the subspecies acuminata, the mountain bluejoint-grass. The name (often simply bluejoint) extends to the other species of the grenus, several-of which, in Wyoming, etc., are also valuable for forage. Northern bluejoint, C. Langsdorffi (slso called Langsdorf's reed-bent and by stockmen purpletop), is highly prized where plentiful. The huejoints are also called reed-grass. See pine *grass, —Bottom-grass. (b) Same as Texas *millet.—Bull-grass. (a) Same as gran

Crested dog's-tail grass. Same as dog's-tail grass (a) (which see, under grass). See also Cynomrus. This is, at least in kurope, a standard grass in instruction permay an even and compact sod and bearing shade. The ripened straw is one of the best used in the manufacture of Leghorn hats.—Crop-grass, the yard-grass or wire-grass, grass of the permay a corruption of crob-grass.—Cuba grass. See sorgham. 2—Dennest grass, one of this diffused over the east-art half of the United States, growing along the borders of woods, etc.—Dog-town grass, the needle-grass. Arietista fasciculata (also A. Longista). The name alludes to the presence of this grass in partie-dog colouies.—Duck-grass, the false grass in the grass of t

grass-ill

the mat-grass of Australia. See *mat-grass.—Redfield's grass. Sec *Redfieldia.—River-grass. Same as Texas *millet.—St. Augustine grass. See *Stenotaphrum and saintl. This grass, widely distributed in South America and on the Pacific islands, grows along the Atlantic coast from Florida to South Carolina. It quickly covers sandy yards with a dense, carpet-like growth, where the usual lawn-grasses will not grow. From its extensive use in Charleston for this purpose it has the name *Charleston lawn-grass* and in Australia buffalo-grass. In South America its creeping stems are employed as a din-retic.—St. Lucie's grass, in Florida, a variety of the Bermuda grass, preferred to the ordinary plant for lawns as rooting less deeply and heing less liable to invade neighboring fields.—St. Mary's grass. (a) Same as *Johnson *grass*. (b) Same as *guinea-grass. Salem grass. Spartina stricto and S. patens. The latter is also called *salt-meadow grass and fox-grass. Sometimes simply marsh-grass.—Schrader's grass, Schrader's brome-grass.

*Same as *rescue-grass.—Shore-grass. Same as *midden-*cane.—Six-weeks grass, in the southwestern United States, the low spear-grass, Poa annua; also, any low quick-growing annual grass, Sparanna.—Six-weeks grass, in the southwestern United States, the low spear-grass, Poa annua; also, any low quick-growing annual grass, Same as *maiden-*syrans.—Sing grass. Same as *bear*grass. Some as *ernal grass, the bour-grass. Same as *bear*grass.—Spring grass, Same as *prand grass, the low spear-grass, Same as *prand grass, any species of the genus *Aristiaia.* See *hough-grass.—Spring grass. Same as *create-grass. The alter is also callede-grass, any species of the genus *Aristiaia.* See *needle-grass.*, and *poverty-grass.—Three-awned or triple-awned grass, any species of the genus *Aristiaia.* See *needle-grass.*, and *poverty-grass.—Three-awned or triple-awned grass, and *poverty-grass.—Three-awned or triple-awned grass, and *poverty-grass.—Three-awned or triple-awned grass.

*The poverty-gr grass, v. I. trans. 5. In printing, to discharge (a workman). [Eng.]
II. intrans. 2. In printing, to seek or give

temporary employment. [Eng.] grass-bug (gras'bug), n. Any one of many species of leaf-hoppers which occur in pastures or meadows, Dicdrocephala mollipes.

grass-cold (gras'köld), n. Inflammation of the lining-membrane of the nose of horses, an affection readily amenable to treatment. Also called nasal catarrh and coryza.

grass-comber (gras'kō"mer), n. A landsman who is making his first voyage at sea; a novice who enters naval service from rural

grass-crab (gras'krab), n. A Jamaican and South American crab, Pseudocorystes armatus. grassed (grast), a. Said of a golf-club of which the face is slightly spooned or sloped backward.

grasserie (gras'e-ri), n. [F.] A disease of the silkworm of commerce. The diseased worms become restless, bloated, and yellow in color, and when punctured exude a pus full of granular polyhedral crystals. U. S. Dept. Agr., Div. Entom., Bulletin 39, N. S., p. 31.

grass-fern (gras'fern), n. See *fern¹.
grassfinch, n. 3. In Australia, any of the small finches of the genus Poephila.
grass-flower (gras'flou"er), n. 1. A plant of the genus Sisyrinchium, especially S. angusti-

folium, with narrow grass-like leaves; blueeyed grass .- 2. The spring-beauty, Claytonia Virginica.

grass-hand, n. 2. A newly engaged type-setter. [Printers' slang, Eng.] grasshopper, n. 4. A chaise of which the body is suspended by braces to the rear ends of wooden springs.—5. A mechanical arrangement for connecting the sucker-rods of several ment for connecting the sucker-rods of several contiguous petroleum wells with a single steam-engine or other source of motive power. Groves and Thorp, Chem. Technol., II. 163.—Cone-nosed grasshopper, any one of the wingless locustids of the genus Conocephalus.—Grasshopper-disease fungus. See *\tingus.—Meadow-grasshopper and the family Locustide, as distinguished from the katydids, the cricket-like grasshoppera, and the shield-backed grasshoppers.

Trasshopper-elevator (grassbopper-elevator)

grasshopper-elevator (gras'hop"er-el"e-va-

tor), n. See derrick-*elevator.
grasshopper-mouse (gras hop er-mous), n.
Any one of several species of small mice of the genus Onychomys, common in the north-western United States, especially O. leuco-gaster. The food of these mice consists largely of grasshoppers: hence the name.

grasshopper-spring (gras'hop"er-spring), n.

See *spring.

grass-house (gras'hous), n. 1. The cottage of a cotter or grass-man.—2. Same as *grasshut.

grass-hut (gras'hnt), n. A hut the roof and sides of which are made of thatch, bundles, or mats of grass, common in tropical regions.

grass-ill (gras'il), n. An intestinal disease of lambs arising from the malassimilation of food at a time when they first make grass a part of their diet.

grassing, n. 2. The aet or practice of working for a second employer elsewhere, after working the regular time for one's principal employer: so called by trade-unions, which rule out the practice in order to increase the opportunities for men who are out of work. Also called smooting and foxing. Webb, Indust.

Democracy, I. 439. grass-land, n. 2. In phytogeog., land naturally covered with grass, viewed ecologically. Grass-land is regarded by Schimper as one of three great types of climatic formation. He subdivides it into meadow, hygrophilous or tropophilous grass-land; steppe, xerophilous, treeless grass-land; and savanna, xerophilous grass-land with isolated trees.

grass-lawn (gras'lan), n. A light, fine cotton or linen fabric of open texture for women's dresses.

grass-man (gras'man), n. 1. A peasant living in a cottage. [Scotch.]—2. The person charge of the common lands of the parish. [Scotch.]

grass-moth, n.—Knot-grass moth, a British collectors name for a European and Asiatic noctuid moth, Apatela rumicis, whose larvæ live on many low herbaceous plants.

grassnut, n. 2. In California, one of the brodiæas, Triteleia laxa, common on adobe Soils. It bears an umbel of 10 to 25 heautiful violet-purple flowers. The stem rises from a deep-seated cdible corm, to which the name, usually in the plural, applies. Also called *Ithuriel's-spear* (which see).

Also called Ithuriet's-spear (which see).

grass-oil, n. Much has been learned of late years in regard to the chemical composition of the fragrant grass-oils which hold a prominent place in modern perfumery. The most important constituents are an alcohol, geraniot (C₁₀H₁₈O), in Indian grass-oil or palmarosa oil, from Andropogon Schwanathus; an aldehyde, geranial or citral (C₁₀H₁₈O), in lemon-grass oil, from Andropogon citratus; and another aldehyde, citronellal (C₁₀H₁₈O), in citronella-oil, from Andropogon Nardus.

grass-pink (gras'pink), n. 1. See under pink2.
2. The Deptford pink, Dianthus Armeria.

grass-staggers (gras'stag'erz), n. 1. See stagger.—2. A frequently fatal disease of sheep and cattle, due to impaction of food in the Animals suffering from it are third stomach. said to be furdel-bound. See fardel-bound.—3. Cerebro-spinal meningitis or forage-poisoning of horses. [Eng.] grass-tree, n. 2. In Australia, a tree of the

lily family, Kingia australis, resembling species of Xanthorrhea.—3. In Tasmania, either of two trees of the family Epacridaceae, Cystanthe dracophylla and C. pandanifolia, the latter usually called giant grass-tree, and often raising its long, slender, naked stems, which bear one or several huge crowns of long waving leaves, far above the surrounding vegetation.-4. In New Zealand: (a) A tree of the family Araliaceæ, Pseudopanax crassifolius, with very variable leaves, those of the young plants being from one to three feet long and but half an inch wide. It is then usually called umbrella-tree, from the way in which the rib-like leaves stand out. (b) A name formerly given to the ti, Tætsia australis. grass-walk (gras'wâk), n. A garden-path

covered with grass, instead of gravel.

The grass-walk with its semicircular end forms the whole extent of the Cetinale garden.

E. Wharton, Italian Villas, p. 66.

grass-weed (gras'wed), n. Same as grass-

grass-work (grás'wérk), n. In mining, any operation which is performed above ground, grass-worker (gras'wer"ker), n. In minin In mining, one who works above ground.

grass-worm, n.—Northern grass-worm, the larva of an American noctuid moth, Drasteria erechtea. It somewhat resembles a geometrid larva in its looping method of progression, and feeds by night on the leaves of grass and clover.

of grass and clover.

grate², n.—Bodner's screw grate, a valuable contrivance for economizing fuel and effecting the consumption of smoke in burning bituminous coal, especially under steam-boilers. Screws are used to keep the grate-bars in motion, regulating their distance spart, and rocking them in such a way as to prevent coking of the fuel and keep it free from ash and clinker. Grozes and Thorp. Chem. Technol., I. 516.—Inclined grate, a grate in which the bars are inclined at a slight angle so that the fuel, when fed to the furnace, slides downward into the back or hottest part of the fire, giving up its more volatile gases first, then coking and sliding down the grate until consumed.—Sectional grate, a grate in which the bars are arranged in groups or sections, for convenience in stoking and in making repairs.

the support for a round-, rocking-, dump-, or shaking-grate.

graticulate (grā-tik"ū-lāt), r. t.; pret. and pp. in or with gravy.

graticulated, ppr. graticulating. [See graticu-gravific (gra-vif'ik), a. [L. gravis, heavy, +

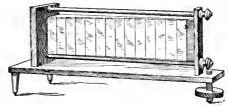
lation.] To divide (a drawing or design) into squares

gratification, n. 4. Any reward in money given to soldiers for good conduct in a battle or campaign; an allowance made to prisoners of war; a voluntary contribution made by soldiers to the widows of comrades.

gratin (gra-tan'), n. [F., $\langle gratter, serape grate: see grate^2$.] 1. A browned crust.—2 Food served in a rich sauce and covered with browned crumbs.

gratinate (grat'i-nāt), v. t.; pret. and pp. gratinated, ppr. gratinating. [gratin + -ate².]
To cook in a rich sauce and cover with a crust of browned crumbs.

grating², n.—Concave grating, a diffraction grating the lines of which are ruled upon the surface of a concave mirror so that the spectra may be focused without the interposition of a lens. This important type of grating was introduced by Rowland in 1882, and is commonly known as the Rowland concave grating.—Diffraction grating. See diffraction.—Echelon diffraction



Echelon Diffraction Grating.

grating, an apparatus devised by Michelson to replace the ruled grating in a spectroscope, particularly in that form known as the constant deviation spectroscope, where the collimator and the telescope remain stationary and the grating is rotated. The echelon consists of a series of plane-parallel glass plates, each 10 millimeters thick, overlapping in such a way as to form a series of steps, each 1 millimeter wide. The plates, fourteen or more in number, all optically worked and in perfect optical contact, are mounted in a frame. The parallel rays of a beam of transmitted light emerge, because of their retardation, in a condition to interfere.—Nobert-grating, a diffraction grating ruled by Nobert.—Rutherford grating, in optics, a plane-diffraction grating ruled upon metal. The term is commonly used to designate gratings ruled by means of Rutherford's dividing-engine, as distinguished from those later produced with the engines devised by Rowland.—Transmission grating, a finely ruled piece of glass or other transparent material, such as celluloid, showing a spectrum by transmitted light, in contradistinction to a ruled metal surface which gives a spectrum by reflected light. Astrophysical Jour., Sept., 1903, p. grating, an apparatus devised by Michelson to replace the by reflected light. Astrophysical Jour., Sept., 1903, p.

Gratiolet's radiations. See *radiation. gratiolin (grā-ti'ō-lin), n. [Gratiolu + -in².] A bitter glucoside, $C_{40}H_{68}O_{14}$ (†), extracted from hedge-hyssop, Gratiola officinalis. It crystallizes in silky lustrous needles melting at

grattage (gra-täzh'), n. [F., \langle gratter, grate: see grate1.] The process of scraping out the interior of the uterus with a brush having short, stiff bristles: resorted to as a substitute for curettage.

2. In the British service, money gratuity, n. paid to soldiers on reënlistment and to goodconduct soldiers on discharge.

graupel (grou'pel), n. [G.] A form of soft hail or half-melted snow or sleet.

grave², n.—Passage grave, in prehistoric archæol., a prehistoric grave in Enrope, consisting of a dolmen or a stone burial chamber to which a covered passage leads.—Stone grave, in prehistoric archæol., a grave the sides of which are lined with stones and which is covered with a slab, or slabs, of stone.

a slab, or slabs, of stone.

gravel, n.—Buchanan gravels, a subdivision of the Pleistocene deposits of lowa. They are weathered gravels deposited during the melting and retreat of the Kansan ice, and are underlain by Kansan drift and overlain by Iowan drift or hy loess.—Cannon-shot gravel, accumulations of glacial gravel, theirly of rounded finits which occur in Norfolk and adjacent tracts in southeastern England.—Plateau-gravel, a glacial deposit resting on boulder-clay and accumulated in sheets over the plains and plateaus of northern Europe.

Travel-art* (grave/cl.b) ... A tip-ego or flateaus of northern Europe.

gravel-car (grav'el-kär), n. A tip-car or flatcar used to transport loose gravel. Such cars are sometimes fitted with a double mold-hoard plow, on a guide-rail, which, when the train is at rest, can be drawn, by means of a steel rope wound by the engine, over the cars, thus discharging the gravel on each side. See **car-unloader.

gravel-weed (grav'el-wed), n. 1. The false gromwell, Onosmodium Virginianum .- 2. The bush-honeysuckle, Diervilla Diervilla.

grave-wax (grav'waks), n. Same as adipocere. grate-ring (grāt'ring), n. A circular casting gravicembalo (grā-vi-chem'bā-lō), n. which in the fire-box of a house-furnace forms alteration simulating It. grave, grave alteration simulating It. grave, grave, of elavicembalo, q. v.] A harpsichord. gravied (grā'vid), a. [gravy + -ed².] Served

 ficus, < faccre, make.] Weight-producing.
 Edinburgh Rev., X. 147.
 gravimeter, n. 3. Specifically, a copper vessel of one cubic foot capacity, with a heavy gravimeter, n. plate-glass cover, used in determining the density of large-grained gunpowder inclusive of the vacant spaces between its grains. See gravimetric density of gunpowder, under density.

gravimetric, a.— Dupont gravimetric halance, a balance specially constructed for convenient use in determining the gravimetric density of fine-grained gunpowder.

gravimetry (grā-vim'e-tri), n. [L. gravis, heavy, + Gr. -μετρία, ζ μέτρου, a measure.] The measurement of weight or the determination of the specific gravity of bodies.

graviperceptive (grav"i-per-sep'tiv), u. [L. gravis, heavy, + ML. *perceptivus, perceptive.] Perceiving the attraction of gravity: a term noting the awareness or sense of verticality in animals, a quality analogous to geotropism and geotaxis in plants. Jour. Rou. Micros. Soc., Oct., 1904, p. 545.

gravisensitive (grav-i-sen'si-tiv), n. [L. gravis, heavy, + NL. sensitivus, sensitive.] Sensitive to the attraction of gravity; geo-

In a seedling, Phalaris canariensis, the apical part has only falling starch-grains, while lower down both forms occur, and correspondingly, we find that the seedling is gravi-sensitive throughout, but especially so at the apex. Jour. Roy. Micros. Soc., Oct., 1904, p. 545.

gravitant (grav'i-tant), a. [NL. *gravitaus, ppr. of gravitare, gravitate see gravitate.]
Attractive: said of forces of the same type as

that of gravity: opposed to repulsive.
gravitate, v. II. trans. To allow to fall or
move downward under the action of gravitation; manipulate (as gravel, in diamond-mining) so that the heavier portions sink to the bottom.

the bottom.

Gravity chronoscope. See *chronoscope.—Gravity correction, the correction of the observed reading of a mercurial barometer for the fact that for the same height of the mercurial column the variation in the force of gravity produces a variation in the pressure. The gravity correction reduces the observed height of the barometric column to what it would have been if the force of gravity had retained the standard value that it has at sea-level and latitude 45°. The ancroid barometer and the boiling-point hypsometer do not require correction for variation of gravity, but the table of vapor-tensions expressed in barometric heights does require such correction.—Specific-gravity balance. See *balance.—Standard gravity, the value of the acceleration of gravity at some selected latitude and level which is taken as a standard in comparing the measurements of gravity made on different parts of the earth's surface. The latitude taken is frequently 45° and the level that of the surface of the sea.

gravity-return (grav'i-ti-rē-tern"), a. , noting an arrangement of parts such that the force of gravity returns them to their normal relations after displacement: as, a gravity-return gun-carriage—one in which the upper part is on inclined guides and returns to the outward firing-position by gravity after

receil from firing the gun.
gravity-valve (grav'i-ti-valv), n. A valve
which is closed against a pressure by the force Elect. World and Engin., Dec. 12, of gravity. 1903, p. 979.

gravivolumeter (grav-i-vol'ū-mē-ter), n. gravis, heavy, + E. volumeter.] A simple piece of apparatus by means of which the diantity or weight of a specimen of a gas may be determined with a fair degree of accuracy by a measurement of its volume under fixed

conditions of temperature and pressure.

gravure (gra-vūr'), n. [F. gravure, \langle graver,
engrave: see*grave\(^1\), v.] 1. Same as photogravure.—2. A print or plate produced by photogravure.

gray. I. a.—Gray atrophy. See *atrophy.—Gray matter or substance, the cellular as distinguished from the fibrillar (white) portions of the central nervous system: same as cinerea.

system: same as cinerea.

II. n. 5. Unbleached cotton fabric; a piece of cotton or worsted cloth, in the natural color of the raw material, as it comes from the loom, before it is dyed or finished.—Alsace gray. Same as methylene *gray.—Benzo fast gray, a direct coal-tar color, of unpublished constitution, which dyes unmordanted cotton bluish-gray shades from a slightly alkaline salt bath.—Chicago gray, a direct coal-tar color prepared by combining diazotized Chicago crange with one of the amido-naphthol-sulphonic acids.—Direct gray. (a) A direct coal-tar color of the disaco type, derived from tolidine. It dyes unmordanted cotton gray in a salt bath. (b) Same as methylene *gray.—French gray a dull-gray mat finish of silver, first introduced by the French silversmiths.—Malta gray. Same as methylene *gray.—Methylene gray a basic coal-tar color of unknown constitution, prepared by the exidation of dimethyl-paraphenylene-diamine, or by boiling nitrosodimethyl-aniline-hydrochlorid with water or alcohol. It dyes tannin-mordanted cotton gray, but also possesses of cotton or worsted cloth, in the natural color

the property of dyeing unmordanted cotton. Also called Also cyray, direct gray, Malta gray, new and new first gray, and invariance. New or new fast gray. Same as methylene *gray.—Oxford gray, a mixed black and white (§ black, § white) woolen cloth.—Payne's gray, and invariance of carbon-black, other, and French blue. (b) A water-color consisting of carbon-black, lake, and indigo.—Pearl gray. See pearl-gray.

Greechatin square. See *square1.

Greeco-Main square. See *square1.

Greeco, Herning for the form of the form

gray-band (grā'band). n. A gray laminated quartzose sandstone of the Medina formation

of western New York: used for flagstones. graybeard-tree (crā'\beta\beta\cdot dr\delta\cdot dr\delta

grayish (grā'ish), a. [gray + -ish1.] Some-

what gray: tending to gray.
grayling, u. 4. In Australia, Prototroctes muræna, of the family Hoplochitonidæ, a fish which remotely resembles the English grayling. Also called eucumber-fish, eucumber-mul-let, fresh-water herring, and Yarra herring.—5. An American agapetid butterfly, Cercyonis alope, which occurs in several well-marked vaalope, which occurs in several well-marked varieties. See below.—Arctic grayling. Same as Alaskan grayling.—Blue-eyed grayling, an American butterfly, Cercyonis alope alope, dark brown in color, with a yellowish band on the outer half of the fore wings and two black spots with bluish centers. Its larve feed on grass.—Dull-eyed grayling, an American butterfly, Cercyonis alope nephele, of northern distribution, resembling the blue-eyed grayling, but lacking the yellow band on the fore wings.—Hybrid graylings, intergradations between Cercyonis alope alope and C. alope nephele.—Montana grayling, a species of grayling, Thymatlus montanue, found in the head waters of the Missouri river.

gray-nurse (grā-ners'), u. A species of small saud-shark, Odontaspis littoralis, of the family Odontaspididæ, widely distributed. [New South

Wales. 1

grayumo (grä-yö'mō), n. [A Porto Rican form (also yagrumo) of a native name, answering to Central Amer. quarumo, Mex. quarumbo, the Cecropia.] In Porto Rico, a name applied to several trees of palm-like aspect having a straight, slender trunk and a crown of large leaves, especially to Didymopanax Morototoni, of the ginseng family, and to Cecropia peltata, of the mulberry family. See *yagrumo.
graziery (grā'zher-i), n. [grazier + -y3.] The

grazing business; the occupation of a grazier.

grazing business; the occupation of a grazier.

grease, n.—Distilled grease, a partially purified grease obtained by distilling with superheated steam 'Yorkshire grease' from wool and fatty materials which have been recovered from other sources.—Engine-waste grease, fatty or other lubricating material recovered (generally by the use of solvents) from cotton-waste or rags used to wipe the spindles, shafts, and other moving parts of machinery. Such material now consists so largely of mineral oils that in its recovered form it has little value for soap-making; but it is applied to making cart-axle grease and similar coarse lubricants.—Foot grease. (b) The sediment which is often deposited from an expressed fatty oil on standing. It consists mainly of impurities which have been in suspension, but necessarily retains along with these some of the oil—Pullers' grease. See *fullers' grease.—Golden grease, a bribe. (Slang. U. S.)—Yorkshire grease, a mixture of fatty acids recovered from the soap-liquors used in wool-scouring, with wool-grease from the raw material, and, sometimes, lubricating-oils from the spinning and weaving machinery: used in soap-making and for lubricating purposes.

grease-heels (gres'hēlz), n. A specific affec-

grease-heels (gres'helz), n. A specific affection of the heels of horses. Ususily associated with the growth of a parasitic fungua, an offensive discharge from the nunerous schaeous glands, and the formation of red, raw excrescences (grapes) on the sur-

grease-mold (grēs'mold), n. A fungus, Phycomyces nitans, which frequently occurs upon tallow and other grease. See mold² and Phy-

grease-moth (gres'môth), n. A Enropean pyralid moth, Aglossa pinguinalis, which also occurs in India, South Africa, and Australia. Its larve live in silken tubes in barns, stables, and outhouses among accumulations of vegetable rabbish. Although long supposed to be a grease-feeder, this is now doubted. Also known to British collectors as the tabby-

grease-nut (gres'nut), n. Same as *eudgerie, 2. grease-paint (gres'pant), n. Tallow or some hard grease, melted and colored by stirring into it various pigments, used by actors in painting their faces. While hot it is run into eonveniently formed molds, sticks variously colored being thus made to meet the needs of the make-up.

grease-pox (gres'poks), n. Grease (see def. 3) produced in other animals or in man by inoculation from the horse.

grease-trap (grēs'trap), n. Same as trap1, 4.

great, a.—The great ice. See *ice. greatwort (grāt' wèrt), n. See Triumfetta. Greco-Asiatic (grē'kō-ā-shi-at'ik), a. Pertaining to the ancient Hellenic inhabitants of Asia, especially of the coast of Asia Miner.

Grecomaniac (grē-kō-mā'ni-ak), n. One who has a mania for things Greek.

Greco-Phenician (gre kō-fe-nish an), a. Of or pertaining to both Greece and Phenicia: applied especially to Greek art developed under Phenician influences, as in northern Africa and Spain.

Grecophile (grē'kō-fil), n. [L. Græcus, Greek, Gr. φιλείν, leve.] One who is friendly to or is an admirer of Greece and the Greeks, their language, literature, etc.

grecostasis (gre-kos ta-sis), n. [L. Græcostasis, ⟨ Roman Gr. *Γραικόστασις, ⟨ Γραικός, Greek, + στάσις, station.] In Rom. archæol., a platform in the forum which was a post of honor for Greek and other foreign ambassadors.

green I. (a.—Green fish. (c) A fish cured simply by drying without salt or smoke.—Green manuring.—See **montring.—Green solling. See **soiling. I. A.—In golf: (a) The whole links or golf-course. (b) The putting-green, or portion of the links, devoid of hazards, within twenty yards of a hole.—Acid alizarin green, a mordant-acid dyestuff derived from authracene. It is rendered extremely fast when subjected to an after throming.—Acid green. See **acid-green. 2.—African green. (a) Hydrated chrominm sesquioxid, a green pigment: same as emerdid-green. (b) A name sometimes given to Schweinfurt green.—Alizarin green, a name of several mordant coal-tar colors. One is an anthracene derivative and therefore. One alizarin colors: another belonging the coarding one; while still another belonging green.—Alizarin green.

a name of several mordant coal-tar colors. One is alizarin colors: another belonging green.—Alizarin green.

see alizarin coal-tar color of the azonimit type, designated as azin green (which see, under green.)—Azin green. (c) A basic coal-tar color of the azonimit type, designated as azin green S.—Benzal green. Same as bezuddehyde green (which see, under green.)—Azin green. Same as dieter green.

Bit green alizarin green a dieter coal-tar color which dyes unmordanted cotton an olive-green from a salt bath.—Bindschedler's green, one of the modern artificial dyeing materials made from coal-tar color sale. It belongs to the chinominide chase of such materials.—Bitter-almond oil green, a basic coal-tar color which age unmordanted cotton an olive-green of the modern artificial dyeing materials made from coal-tar color sale as bezuddehyde green (which see, under green, a basic coal-tar color of the trisazo type, derived from benzidine and dichloratiline. It dyes unmordanted cotton is green in a salt bath, and is exceptionally bright for a green, a direct coal-tar color of the introso type. derived from benzidine and pariment coal-tar color of the introso type, derived from benzidine and pariment coal-tar color of t

greenling

blue. It dyes tannin-mordanted cotton green, and is used chiefly in calico-printing.—Milling green, an acid coal-tar color of unpublished composition which gives a very fast green upon wool.—Naphthalene green, an acid coal-tar color which dyes wool green in an acid bath.—Neiwieder green, a green pigment which consists of Schweinfurt green or the acetoarsenite of copper mixed with calcium or barium sulphate.—New fast green, a basic coal-tar color of the triphenyl-methane type which dyes tannin-mordanted cotton green. Also called Victoria green.—New green. (a) Same as *malachite-green, 3, and benzaidehyde green. (b) A basic coal-tar color of the diphenyl-naphthyl-methane type.—Night green, Same as iodine *green (b).—Oxamine green, a direct coal-tar color which dyes unmordanted cotton green in a salt bath.—Russian green. Same as dark *green.—Snake-skin green, in ceram., a peculiar tint of green glaze, with iridescent sheen, found on old thinese porcelain.—Through the green, in 90lf, a term applied to all that part of the course, excepting bazarda, between the tees and putting-greens.

green¹, r. i. 2. In oyster-culture, to give (oysters) a green tinge about the gills by putting them in pits.

greenalite (gre'na-lit), n. [Erroneously formed from green + -a- + -lite.] In petrog., metamorphosed rock composed largely of minute granules of green hydrons ferrous silicate. Leith, 1903.

The iron-bearing formation occurs in the Upper Huronian, and in what is known as the Biwabik division. This comprises a variety of rocks, including slates, cherts, and "greenalite." This last-named ambatance consists largely of minute granules of green ferrous silicate, without potash, and is named greenalite for convenience.

Nature, Dec. 3, 1903, p. 116.

greenback, n. 6. Salmo stomias, the tront of the Arkansas river.

green-bag (gren'bag), n. A lawyer: so called from the green bag in which barristers carry

from the green wag in their books and papers.

green-blind (gren'blind), a. Color-blind as
pagerds the green rays. Stud. Yale Psychol. regards the green rays.

Lab., VIII. I.

green-blindness (gren 'blind "nes), n. ability to distinguish the color green: a form of partial color-blindness.

green-bottle (gren'bot"l), n. Same as green-

green-brier, n.—Bristly or fiddle-shaped green-brier, Smilax Bona-nox of the eastern and southern United Statea: ac named from its bristly stems and fiddle-shaped leaves. See *bamboo-brier and *stretchberry.

green-coat (gren 'kôt), n. One who wears a green coat, as a servant, a scholar at certain charity-schools in England, etc.

greener (grē'ner), n. [green $^1 + -er^1$.] An unskilled or inexperienced person; specifically, a person without previous experience who takes the place of another who is on strike, or who takes employment simply to get experience. Scribner's Mag., Sept., 1902, p. 304.

green-felt (gren'felt), n. A dense, felt-like

growth of the alga Vaucheria.

greenfish, n. 3. Girella nigricans, a fish of the family Kyphosidæ, abundant in rocky places from Monterey bay, California, south to Cape San Lucas. —Alaska greenfish, Hexa-grammos octogrammus, a food-fish of the coast of Alaska.

green-groin (gren'groin), n. Gangreneus inflammation of the vermiform appendix and

surrounding parts.
greenhead¹, n. 2. Any one of several species
of American gadflies which have green heads, as the common greenhead, Tabanus costalis, and the gray-striped greenhead, Tabanus line-

greenheart, n. 3. In Jamaica, Zizyphus Chloroxylon, one of the trees called cog-wood. In Jamaica, Zizyphus

greenhew (grën'hū), n. [Also green-hue; \(\) green!, a., + * hew!, n., from hew!, v.] 1. In Eng. forest law, the green parts of trees or shrubs: same as rerl!, 1 (which see).—2. The right to cut the green parts of trees or shrubs

right to cut the green parts of trees or shrubs for fodder; the payment for such right. greenhide (grēn' hīd), n. A whip made of untanned hide; a rawhide. [Australia.] Greenhouse bug. See *bug². green-jack (grēn'jak), n. A carangoid fish, Caranx ruber, which inhabits West Indian waters.

waters green-keeper (gren'ke"per), n. The person who keeps the putting greens of a golf-course in order. Also greens-keeper.

Greenlandman (gren'land-man), n. A vessel

engaged in whaling near Greenland.
green-leek (grēn'lēk), n. A small Australian
parrakeet, Polytelis barrabandi.
greenling, n. 2. Any fish belonging to the
family Hexagrammidæ, earnivorous fishes living in kelp and about rocks in the North Pa-

ation with the oyster. [Australia.]
greenroom, n. 4. An apartment for drying damp or 'green' pottery before it is burned.
greensand, n. 2. [cap.] In geological classification, one of certain subdivisions of the Creeation, one of certain subdivisions of the Cretaceous system. In England the Lower Greensand overlies the Wealden formstion and is characteristically developed on the Isle of Wight, where it includes the Atherfield clay, Hythe, Sandgate, and Folkestone beds in ascending order. The Upper Greensand is the sandy or chloritic facies of which the Galt is the clay equivalent (see gatt1). The Lower Greensand is generally equivalent on the Continent and elsewhere to the Aptian, the Upper Greensand to the Ablian stage.—Cambridge Greensand, in geod., a bed of Cretaceous Greensand lying benesth the chalk at Cambridge, England, largely worked for phosphate of lime and phosphated fossils which are chiefly reptilian remains.

green-shaving (gren'sha"ving), n. In eurrying, the process of shaving a hide or skin which

ing, the process of shaving a hide or skin which is in a green or untanned state.

green-sighted (gren'sī"ted), a. In psychol. optics, seeing as if through green glasses. If the eye is kept for some little time in a reddish illumination (in certain kinds of artificial light, or in a photographic dark room with a ruby window), it becomes adapted to red; on passing to a normal white-light illumination it is green-sighted, that is, it sees everything as if tinged with a certain amount of the complementary green. Since the light which in ordinary daylight leaks into the eye through the sclerotic is tinged with red, the organ is (within certain limits) permanently adapted to red, and in so far permanently green-sighted. E. B. Titchener, Exper. Psychol., I. i. 23.

greenstone, n. 3. A name in New Zealand for

greenstone, n. 3. A name in New Zealand for several varieties of jade, specifically for pou-namu or nephrite, found chiefly on the west coast of the Middle Island: formerly much used by the Maoris for weapons, implements, and

green-tail (gren'tal), n. 1. Same as *gran-nom.—2. A diarrhea of deer: named from the profuse green-colored evacuations. It is often fatal, sometimes within twenty-four hours.

Greenwood, n. 3. Same as green-broom.

Greenwood bit. See *bit1.

greenyard (gren'yard), n. Formerly, in England land, a village pound for the reception of stray animals; also, a grass-yard in which hounds

gregale (grā-gä'lā), n. [It. *gregale, Sp. gre-gal, It. also greeo, the northeast wind, prop. the 'Greek' wind, < L. Græcus, It. Greco, Sp. Griego, Greek.] The cold northeast wind of

the Mediterranean Sea. See levanter 1.
gregarinosis (greg "a-ri-no sis), n. [NL., caregorina + -osis.] A disease caused by the presence of parasitie gregarines.

gregarious, a. 2. By Drude and subsequent writers gregarious plants are further determined as growing in patches among other vegetation, thus contrasting with social species, which dominate the whole ground.

or manufacturers' name which has been generally adopted.

Gregorian, n. 3. In music, a melody written in one of the church modes; a piece of plainsone

greillade (grāl-yād'), n. [F.] Iron ore which has been sufficiently crushed for reduction in

has been sufficiently crushed for reduction in a Catalan forge.

grelifuge (grcl'i-fūj), a. [F. *grelifuge, < grele (OF. gresle), hail, + -fuge, < L. fugere, fiee.] Driving away or preventing hail.—
Grelifuge cannon, the cannon from which vortex-rings are fired for the prevention or dissipation of hail-storms. Many thousands of these have been used in southern Europe. See *hail-cannom. Sci. Amer. Sup., Dec. 13, 1902, p. 22536.

grenadine, n. 2. (a) In cookery, a larded fillet, especially one of veal or poultry, glazed with its own concentrated liquor. Larousse. (b) A sweet drink; a syrup: used for colds, etc. Larousse.

grenat, n.—Carminnaph grenat, Same as alphanaphthylamine *red.—Soluble grenat, isopurpurate of potassium or ammonium, produced by the interaction of pieric acid and an alkaline cyanide: nsed as a brownish-red dye on wool and silk.—Syriam grenat, the rich red or purple-red garnets found in Syriam Pegu, India. gres, n. 2. The gum of the fiber of the domestic silk worm. Care his great a spekidishment.

gres, n. 2. The gum of the horr of the domes-tic silkworm.—Grès bigarré, in gcol., a subdivision of the Triassic system in the Vosges in Germany and France. It is correlated with the Upper Bunter sand-stone, which is the lower division of the Trias.—Grès cérame [F., 'potters'-earth stoneware']. See grès de Flundres, nunder grès.—Grès des Vosges, in geol., a subdivision of the Triassic system in Germany and France, correlated with the Lower Bunter sandstone and overlain by the Grès bigarré. It is unfossiliterous, and is characterized by the crystalline condition of the quartz-grains.

green-oyster (grēn'ois"ter), n. The green sea-weed Utra Lactuca, found in frequent associ-ation with the oyster. [Australia.] Gressis, walking, + gradi, go, walk.] A division of Pinnipedia containing those forms in which the hind legs can be turned forward and used in walking. It includes the walruses, Odo-bænidæ, and eared seals, Otariidæ. Correlated with *Reptigrada. J. A. Allen, Hist. North Amer. Pinnipeds, p. 3. Gressyla (gres'i-lä), n. [NL.] A genus of

anomalodesmaceous pelecypods with the right margin projecting over the left, ligament pari-vincular attached to an internal nymph-like callosity in the right valve: abundant in Jurassic rocks.

gribane (grę̃-bän'), n. [Γ.] A small two-masted vessel of Normandy.

grid, n. 4. A name applied to a particular arrangement of members in which a number of narrow, parallel members lying in one plane are fastened at their ends to two heavier par-

allel nembers perpendicular to the others, grid-bar (grid bär), n. Part of a grating of parallel bars through which dirt and other extraneous matter pass in the scutching or pick-

ing of cotton.

gridiron, n. 3. In Amer. foot-ball, a trivial term applied to the field of play, in allusion to the fact that it is crossed by transverse white lines every five yards. It is also sometimes called a checker-board, because recent rules provide for longitudinal lines as well—4 A structure of planks creeted above well.—4. A structure of planks erected above the stage of a theater to support the mechamism by which the drop-scenes, etc., are worked.—Gridiron floor, the staging of planks near the roof of a theater, and directly over the stage, where the drop-scenes are manipulated; the gridiron.—Gridiron manœuver.

gridiron-tail (grid'ī-èrn-tāl"), n. A small iguanoid lizard, Callisaurus ventralis, from the desert regions of southern Utah: named from the dark bars on its tail.

grid-valve (grid'valv), n. Same as gridiron

The last pale whitey-brown section had been earthed over, and Larry was dealing a few superfluous final pats with the flat of his broad griffacen. . . . when Peg came halting ont of doors and up to the field-dyke.

Jane Barlow, Irish Idylls, p. 62.

griffe¹, n. 3. The part of a Jacquard loom which raises the warp-threads. Also ealled knife-box. R. Marsden, Cotton Weaving, p. 3. The part of a Jacquard loom 19Ť.

grège (grāzh), n. [F., < It. greggia; origin griffe-bar (grif'bar), n. A blade or knife of unknown.] The raw silk of the domestic silkworm before the gum is removed: a trade upon which the warp-thread hooks eatch. T. W. upon which the warp-thread hooks eatch. T. W. Fox, Mechanism of Weaving, p. 87.

Germany which, being intersected by cleavage-planes in two directions, are broken for slate-pencils. They contain some radiolarians (Sphæroidea).

(Sphæroidea).

griffin-dog (grif'in-dog), n. A breed of large hunting-dogs. They combine the qualities of the setter and the pointer, and have a harsh coat which specially adapts them for work in thick covert. The color is a reddish gray. The breed, which is of modern origin, originated in Germany. Also bassett-grifon.

gri-gri?, n. 2. In West Africa, the sassy-bark:

see Erythrophleum. The name is probably due to the fact that the tree enters into the fetish worship and ordeals of the natives.

grike (grik), n. [A variant of crike (ME. crike), dial. form of crick².] 1. A crevice; a chink; a widened joint in rock. [Prov. Eng.] Nature, Nov. 13, 1902, p. 33.—2. A ravine on the side of a hill. [Prov. Eng.] gril, r. A simplified spelling of grill. grill², n. 2. Faint and short white lines or

cross-bars on some flat surfaces of engraving.

3. In elect., the grid of a storago cell.
grill², v. t. 2. To mark or stamp with a series
of parallel lines like a grill; specifically, in
line-engraving, to break up (a too flat surface)
with short bars of faint white lines sometimes crossed at right angles, as may be seen in some forms of postage-stamps. grilled (grild), p. a. 1. Cross-barred; made

in the form of a grill; specifically, said of the flat surface of an engraved plate which shows short bars or cross-bars of white lines.—2. Roasted on a gridiron.

Grimmia (grim'i-a), n. [NL. (Friedrich Ehrhart, 1782), named for Johann Friedrich Karl Grimm (1737-1821), a German botanist.] A

large genus of true large genus of true mosses, type of the family Grimmiaceæ. It consists of more or less compactly tafted plants, rooting at the base with lanceolate, mostly entire leaves, spherical or ellipsoidal capsules, and a peristome of 16 teeth (rarely absent). There have been described 241 species, distributed over all the earth, mainly intemperate, frigid. mainly intemperate, frigid, or alpine regions, growing chiefly on rocks: 104 are found in America.

Grimmiaceæ (grim-i-å'sē-6).n.pl. [NL., < Grimmia + -aceæ.] A family of acrocarpous

Grimmia pulvinata.

mosses of the order Bryales, typified by the genus Grimmia, and characterized chiefly by the fact that the teeth of the peristome are perforated or split up into several strands. It contains 7 genera, of which Grimmia and Rhacomitrium are the most important, widely distributed over the globe, but rare in the tropics. They are leafy, tufted mosses growing chiefly on rocks and stones, rarely on trees or on the ground.

Grimm's attack. See *attack.
grimthorpe (grim'thôrp), v. t.; pret. and pp. grimthorped, ppr. grimthorping. To treat in the manner of Lord Grimthorpe, that is, to 'restore' (an old piece of architecture) with the effect of spoiling it, as Lord Grimthorpe is said to have done when he undertook to restore the genus Grimmia, and characterized chiefly by

to have done when he undertook to restore the west front of St. Albans Abbey in England.

Why should any one who finds it stated that a book has been bowdlerized or grangerized, that a man has been boycotted, that a church has been grinthorped, or that a writer shows a Zolaizing tendency, be denied the explanation of these words because they have been formed from personal names?

J. Randall, in N. and Q., March 18, 1893.

raire.

Griess's test. See *test!
griev, v. A simplified spelling of grieve.
griffaun (gri-fân'), n. [Also griffaun, more eorrectly graffaun, (grafaim, [scrape:
see grare!, v.] An Auglo-Irish agricultural
implement used for cutting turf to be dried
and burned.

Grindelia, n. 2. [l.c.] A plant of the genus Grindelia.—3. [l.c.] In pharm., an official drug which
consists of the leaves and flowering tops of
Grindelia robusta and G. squarrosa. The name consists of the leaves and howering tops of Grindelia robusta and G. squarrosa. The name California gum-weed has been used of the official grindelia in general, but only the former species is Californian, the latter being distributed only over the great interior region. G. robusta is somewhat preferred, and, though collected in large quantities in California, is said to be scarcer than G. squarrosa. The virtue of grindelia resides in the gum which exudes from the heads and upper leaves.

grinder, n., 1. (f) A cylinder covered with emery for sharpening the wire teeth in card-clothing.— Grinders' lung. See ★lung.

grinder-head (grin'der-hed), n. A bench grinding-machine which carries an arbor for two emery- or earborundum-wheels.

grinding, n.—High grinding, low grinding. Same as high and low milling (which see, under milling).
grinding-machine, n.—Skin-grinding-machine, a machine for reducing leather or skins to a uniform thickness: especially valuable for treating the skins used in covering the drawing-rolls of cotton-spinning machines.
grip1, n. 10. In track athletics, a piece of cork, shaped to fit the hollow of the hand, which a runner grips when running.
grip-block (grip'blok), n. A pulley-block at-

tached to the grip or hoisting-tongs on a loghandling machine.

gripe¹, n.—Watery gripes, cholera infantum. Griphopithecus (grif'ô-pì-thê'kus), n. [Gr. γρίφος, a riddle, +πίθηκος, an ape.] A genus of anthropoid mammals known by isolated molars from the Miocene Tertiary of Austria, grip-knot (grip'not), n. A clamp; a contrivance for holding an article while it is being turned in a lathe. gripe1, ".- Watery gripes, cholera infantum.

gripment (grip 'ment), n. [grip2 + -ment.] Seizing; holding; gripping.

Generally speaking, the harder the surfaces in contact, the lower the coefficient of friction, and the higher the pressure under which gripment takes place.

Jour. Franklin Inst., July, 1903, p. 51.

grip-pedal (grip' ped'al), n. In a bicycle. a pedal fitted with a spring or other device for holding the foot to the pedal. Also called grip-treadle.

gripping-rolls (grip'ing-rolz), n. pl. Feeding-rolls: a pair of rotating rolls between which a board or other piece of material is gripped and drawn or pushed along into a planing or other machine.

grisaille, n. 2. A fancy fabric with a cotton warp and a wool weft for women's wear.

gris de perle (grē-de-pāri'). [F., 'pearlseen in the glaze of Chinese porcelain; pearl-

Grison liquid. See *liquid.

grisonnite (grē'son-īt), n, [F., \langle grison (grisonn-), gray, + -ite, E. -ite²,] A name given to certain of the explosives of Favier. (See Fuvier *explosives.) One of these consists of 95.5 parts ammonium nitrate with 4.5 parts trinitronaphthalene; another of 92 parts ammonium nitrate with 8 parts dinitronaphtha-

monium nitrate with 8 parts dinitronaphthalene.

grit², n.—Altamaha grits, a division of the older Miocene of Georgia.—Berea grit. Same as Berea sandstone.
—Calcareous grit, a division of the Middle Oxford Oolites or Corallian.—Gocktail grit.—See Esopus kyrit.
—Denbighshire grits, a division of the Upper Silurian in North Wales, equivalent in part to the Wenlock group.
—Esopus grit [Esopus, a village in Ulster county, New York, a subdivision of the Lower Devonian in castern New York, New Jersey, and Pennsylvania. It attains a thickness of 400 feet, is underlain by the Oriskanylimestone, and is overlain by the Schoharie grit. It was originally termed the Candagalli or Cocktail grit, from the presence of a supposed organism which has been termed Fucoides cauda-yalli. Otherwise it is nearly barren of fossils.—Foreland grits, a division commonly regarded as the lowest of the typical marine Devonian series in Devonshire.—Glengariff grits, a subdivision of the Old Red Sandstone in the south of Ireland, passing down into Upper Silurian strata and in some regions overlain by the Kiltorean beds.—Gryphite grit, a name given to some of the strata of the Inferior Oolite in Britain on account of the prevalence of the bivalve Gryphæa. The term Gryphite Unwestone is applied to some of the strata of the Lower Devonian in North Devon, lying between the Lynton group beneath and the uppermost division of the Lower Devonian in North Devon, lying between the Lynton group beneath and the Uffracombe slates above.—Harlech grit, a division of the Lower Cambrian rocks in Wales.—Moor grit, a local name of the upper and lower coal-bearing series, and consisting of a succession of plant-bearing grits, and sandstones 1,500-2,000 feet thick.—Rensselaer grit, a deposit of grit, regarded as of the age of the Oneida conglomerate, which overlies the Lower Silurian rocks in Rensselaer county, New York.—Shawangunk grit, a heavy deposit of grit and conglomerate which constitutes the upper part of the Shawangunk Mountains in castern New York. It has

ten-copeck piece.

grivna (grēv'nā), n. [Russ. grivna.] sian silver coin, equal to 10 copecks, and weighing 31.992 grains troy. Copper coins of this name were also struck.

grizzle¹, n. 4. In brickmaking, a badly burned second-quality brick of a grayish color.

grizzle² (griz'1), r. i. [Also grizzel, grizle, grisle; origin obscure.] 1. To laugh or grin; show the teeth like a dog; snarl.—2. To grumble; complain; whine; fret. [Prov. Eng. or Australian.]
grizzly, n. 3. A machine used for breaking

coal or other material to a moderately small

Next a set of grizzlies consisting of 7-inch round iron bars is passed, when finally comes a double screen of heavy galvanized iron wire with a 1-inch mesh.

Elect. Rev., Sept. 17, 1904, p. 455.

grizzly-king (griz'li-king), n. In angling, an artificial fly having a green body, a dark-gray hackle, a searlet fail, and mottled wings.

grizzly-queen (griz'li-kwen), n. In angling, an artificial fly.

G. R. jug. See *jug1.

An abbreviation of gross.

groat, n.—Borage groat, a Scottish silver coin of 1467, of the value of 12 pence.—Spurred groat, a Scottish silver coin of the value of 16 pence.—Tournay groat, an Anglo-Gallic silver coin of the time of Henry VIII.: so called from being struck at Tournay in France.

groining, n.— Fan groining. Same as fan *vaulting. Grolier binding. Same as Grolier design. Grolieresque (grö"li-èr-esk'), a. In the style of binding or ornament used by Grolier, which was a pleasing combination of curved lines about a geometrical framework, gromatics (gro-maticis), n. [LL. gromaticus,

grumaticus, of land-surveying (gromatica, the art of land-surveying), < groma, gruma, a surveyor's measuring-rod, < Gr. γνώμων, the index of a dial, a carpenter's square, etc.: see gross, I. a. 10. Relatively large; specifically, quomon.] The art of land-surveying, as the laying out of camps.

He [Frontinus] also left records of his varied experience and studies. We possess excerpts from a work on gromatics. W. S. Teuffel (trans.), Hist. Roman Lit., 11, 147.

A peculiar shade of gray, sometimes gromet-set (grom'et-set), n. A hand-tool for making gromets.

grondwet (grond'vet), n. [D., \(\) ground, ground, + wet, law.] A fundamental law or constitu-tion in lands settled by the Dutch or under Dutch influences.

Being the principal Dutch colony in the Malay Archipelago, Java was the first to benefit from the material change which resulted from the introduction of the Grondwet or Fundamental Law of 1845 in Holland.

Encyc. Brit., XXIX. 738.

Gronovius's dodder. See $\star dodder^1$. Same as gru-gru.

Gronovius's dodder. See *dodder¹.
groogroo (grö'grö), n. Same as gru-gru.
groove, n.—Dental groove, a slight furrow along the
edge of the jaw in manimals which marks the base of the
ingrowing dental lamina.—Genital groove, in embryol, a
a furrow or groove which in course of development becomes the rima pudendi or the urethra, according to the sex.
—Germinal groove, in embryol, a median longitudinal
groove in the germ-band of insects which gives rise to the
mesodern throughout the greater portion of its length
and, in the region of the mouth and anns, to the cellmisses that spread over the yolk to form the entoderm.—
Gothic groove, in mech., a groove having a Gothic arch
section in a roll.—Groove of Hatschek, a peculiar
sense-organ, supposed to have a gustatory function, which
lies against the right side of the notochord in the wall of
the buccal hood of the lancelet (Branchiostoma [Amphioxus] lanceolatum).—Harrison's groove, a sinking in of
the chest-wall along the line of insertion of the diaphragm,
noted occasionally in cases of extreme shortness of breath,
especially in children.—Lacrymal groove, a depression
in the bony wall of the orbit which lodges the lacrymal sac.
—Leakage groove, a groove turned in an engine-piston
to prevent steam from leaking past the piston. The
steam forms eddies in such a groove instead of going
right by it.—Nasobuccal groove, a groove which connects each nostril with the month, as in the sharks.—Parapodial groove, in certain gastropods, as the Endodontidæ and the Zonitidæ, a deep longitudinal furrow running along each side of the hody a short distance above
and parallel to the edge of the foot.—Pedal groove.
Same as parapodial *groove.—Vertebral groove. (b)
The depression or gutter on either side of the spine.

groove-bit (gröv'bit), n. A boring instrument
of which the shaft is grooved at one side so

groove-bit (grov'bit), n. A boring instrument of which the shaft is grooved at one side so that the chips from the point may pass up the shaft and escape at the entrance to the hole.

groove-board (gröv'bord), n. In organ-building, that part of a wind-chest in which or on which are the grooves. Also called *channel-board*. See *groove*, 3 (c). **groover-head** (grö'ver-hed), n. A cutter made

of one or of several pieces, used in a wood-plan-ing or -sawing machine to make grooves in

boards or lumber.

grooving, n. 2. The forming of grooves in eolor) fast. C. T. Davis, Manuf. of Leather, boilers at places where very rapid deterioration of the metal takes place, particularly at the lune of the riveted joints.

ground, v. t. ...

ground, v. t. ...

ground the bat. See *bat1, groundberry, n. 2. In Australia, either of two species of dwarf shrubs of the family Epacridae.

Stanhelia humifusa and S. pinifolia.

shaped tool for making a groove in wood.

grooving-machine (grö'ving-ma-shēn"), n. In sheet-metal work, a hand-power machine for forming a groove in the seam in tin and sheetiron pipe. It consists of a bench-pedestal with a long liorn for supporting the pipe or other hollow sheet-netal form, and a traveling roll which, by means of simple ratchet-gearing, can be made to travel over the joint or seam of the pipe as it rests on the horn. By the use of different rolls, grooves can be formed, seams pressed flat, and other work done in forming a joint in the pipe. The end of the horn can be released from its support to allow for the removal of the finished pipe.

grooving-plane (grö'ving-plān), n. 1. A plane which has a narrow iron for cutting a groove. -2. A plane having an iron that reaches from side to side, so that the frame of the plane will not interfere when planing a groove; a rabbetplane.

grooving-saw (grö'ving-sâ), n. A single eireular saw used for the same purpose as the ground-burnut (ground'bêr'nut), n. The landgroover-head.

grooving-tool (grö'ving-töl), n. Any tool used for cutting grooves; a gouge; specifically, a round-pointed tool used by wood-engravers.

groper² (gro⁵ per), n. Same as grouper.—Blue groper, a large sea-tish of New South Wales and Tasmania. Acharodus gouldti, of the family Labridæ. Often called parrot-jish in Australia and bluehead in Tasmania.

grorudite (grô'rö-dit), n. [Grorud, near Christiania, Norway, +-ite².] n. In petrog., a fine-grained green porphyry composed of alkalifeldspars rich in soda, with quartz and ægirite and occasionally hornblende and mica. Brög-

grosbeak, n.—sociable grosbeak, the sociable weaver-bird, Philieterus socius, many of which nest together, building a huge, done-shaped structure of grass, resembling a haystack. See cut under hive-nest.

Operation was performed, and the kidney in its general contour and gross substance gave no satisfactory evidence of the cause of the trouble.

Med. Record, Feb. 14, 1903, p. 268.

The tumor presented the gross appearance of a sarcoma. There was no gross disease, except in the prefrontal gion. Phil. Med. Jour., Jan. 31, 1903, p. 22L. region.

Gross efficiency. See ★efficiency of a source of light.

II. n.—Power in gross. See power1, 7 (c) grossetto (grō-set'ō), n. [It. dim. of grosso, a coin, \(\) grosso, big, thick; see gross.] A Venctian money of account, one twelfth of the

gross-flute (grōs'flöt). n. [G. grosse flöte.] In organ-building, an 8-feet flute-stop of large scale and rich tone.

grossone (grō-sō'ne), n. [It., $\langle grosso, big, thiek: see gross.$] A silver coin of Venice and of other states of Italy, equal to 8 grossi.

grossulariaceous (gros "ū-lar-i-ā'shius), a. Belonging to or having the characters of the

gooseberry family, Grossulariaceæ. grossulin (gros'ū-lin), n. Same as peetin. grote (grō'te), n. [LG.: see groat.] 1. A current subsidiary coin of Bremen, one seventysecond of a reichsthaler, equal to one United States cent.—2. A Flemish coin, one twelfth

of a shilling. grothite (grot'it), n. [Named for Professor Paul Groth, a German mineralogist.] A lightbrown variety of titanite containing a small amount of yttrium

grouch (grouch), n. sulkiness. [Colloq.] [grouch, v.] A fit of

grouch (grouch), v. i. [A variant of grutch, grudge, v.] To be sullen or morose.

groudge, v.] To be sullen or morose.
grouchy (grou'chi), a. Sullen; morose; peevish; grouty. [Colloq.]
ground¹, I. n.—Bine ground, See blue. The local name at the Kimberley diamond mines, South Africa, for the matrix of the gem. While embracing a number of rocks, it is in largest part a variety of peridotite, called 'kimberlite. Near the surface it has weathered yellow, the 'yellow ground' of the miners. Below this it is the typical blue. Even when hard in the depths of the mine, it softens on exposure and may be washed for the gems without crushing.—Pitted ground, in ceram. Same as *king's *land.—To take ground, in milit., to extend the front of a line.—Yellow ground, the uppermost portion, about 100 feet in thickness, of the diamond-bearing rock at the Kimberley mines, South Africa. Compare blue *ground.

II. a .- Ground note, stroke, tissue, tone, See *note1, etc.

daceæ, Staphelia humifusa and S. pinifolia. Both bear small fruits with a viseid, sweetish, edible pulp.

ground-bread (ground'bred), n. Same as sowbread.

ground-bridge (ground'brij), n. That portion of a cordurey road which crosses a stream or other body of water: a system of rough paving for a ford through a stream having a bad bottom, or through a quagmire or quicksand, formed by laying small logs or poles parallel and close together across the roadway and loading them down with stones.

ground-bundle (ground'bun"dl), n. In neurol., a bundle of nerve-fibers adjacent to the central gray matter in the ventral portion of the spinal cord; the fasciculus ventralis proprius, which is continuous with the fasciculus longitudinalis medialis in the medulla oblongata.

ealtrop. See callrop, 3, and Tribulus.
ground-cable (ground'kā"bl), n. Naut., the
anchor-cable; a section of mooring-cable which is intended to lie on the bottom.

ground-cedar (ground'sē"där), n. 1. The Christmas green, Lycopodium complanatum .-2. The false heather, Hudsonia tomentosa. Also called poverty-plant.

ground-cover (ground'kuv"er), n. In forestry, all the small plants growing in a forest, except young trees: such as ferns, mosses, grasses, and weeds.

ground-cured (ground'kūrd), p. a. Cured upon the ground, that is, without cutting; cured in the turf: said of several Western grasses, as the Buffalo grass (Bulbilis), blue and black grama (Bouteloua), which furnish winter graz-

Live stock subsisted largely on the ground-cured range grasses, etc. U. S. Mo. Weather Rev., Jan., 1902, p. 6.

ground-detector (ground'de-tek tor), n.

clect., a device for indicating when the insulated conductors of an electric system become grounded. It consists of a wire running from the insulated lines to earth and having an incandescent lamp, or sometimes a voltmeter or galvanometer, in circuit. Current will flow lu this wire only when the insulated system is connected with the earth at some other point. Trans. Am. Inst. of Elect. Eng., Jan.-July, 1902, p. 598.

ground-drummer (ground'drum"er), n. Same

ground-elder (ground'el"der), n. See *elder2. ground-feeding (ground'fe'ding), a. Feeding on the bottom of the water, as certain fishes: an anglers' term.

ground-festoon (ground'fes-ton"), n. Same as

∗ground-eedar, 1.

ground-fielding (ground'fēl"ding), n. In cricket, fielding or stopping the ball upon the ground, in contradistinction to catching it in the air. ground-flea (ground'fle), n. Any one of many species of leaping thysanurous insects which

inhabit rich earth.

ground-holly (ground'hol"i), n. See ★holly1. ground-hornet (ground'hôr"net), n. Any hornet that nests in the ground, as Vespa germanica

ground-house (ground'hous), n. A house with a peaked roof the eaves of which come down to the ground,

Macgregor describes and figures small ground-houses, with the gable roof coming right down to the ground, at Neneba, on Mount Scratchley.

Geog. Jour. (R. G. S.), XVI. 422.

ground-itch (ground'ich), n. An inflammation of the skin of the feet which affects coolies who work in rice-fields in the East. Buck.

Med. Handbook, VI. 221.
ground-joint (ground'joint), n. In masonry,
the meeting of an upper and lower course of stone in a wall.

ground-laurel (ground'la "rel), n. The trail-

ground-lemon (ground lem'on), n. The transing arbutus, Epigæa repens,
ground-lemon (ground lem'on), n. The wild
mandrake or May-apple, Podophyllum pellatum. Also called wild lemon.

ground-lily (ground'lil"i), n. wake-robin, Trillium cernuum. The nodding

groundman (ground'man), n. In cricket, a man whose duty it is to keep a cricket-ground

in condition for play. Also groundsman, ground-mine (ground'min), n. See *minc2. ground-mite (ground'mit), n. Any acarid of the family Trombidiidæ.

ground-moraine (ground'mo-ran"), n. In geol., a compact, unstratified deposit formed beneath glaciers; till; boulder-clay.

The first division of the former [moraines]—ground-moraines—take various forms, from nearly level plains to drumlius and regularly undulating country, with no level spaces, such as the Baltie lake plateau.

Geog. Jour. (R. G. S.), XIII. 290.

ground-moss (ground'môs), n. Same as *ground-cedar.

ground-needle (ground'ne'dl), n. Same as musky *alfilerillu.

ground-parrot (ground'par ot), n. 1. The flightless owl-parrot or kakapo, **Ntringops habroptilus, of New Zealand. -2. A small farmer in Australia, otherwise known as a cockatoo. See *cockatoo, 2. [Australia.]

ground-pea, n. 2. Same as groundnut, 3. ground-pine, n. 3. The pineweed or orange-grass, Sarothra gentianoides.—4. The American germander, Teuerium Canadense.

ground-pink (ground'pingk), n. An annual

herb of southern California, Lin-anthus dianthiflorus, from 1 to inches high, which carpets meadows meadows and slopes with its bloom in March. The funnel-shaped corollas are nearly an loch hroad, pink in color, and fringed. The plant is grown in gardens for elgin gardens for edgings and rockwork under a former name, Fenzlia. The genus Linanthus was long included in Gilia, whence this species is sometimes called fringed gilia.



Ground-pink (Linanthus dianthiflorus ..

ground-cypress (ground'si"pres), n. See *cy- ground-plasm (ground'plazm), n. The more generally distributed and fundamental portion of the protoplasm, either in the nucleus or the cytoplasm.

ground-provisions (ground'prō-vizh"onz), n. pl. In the West Indies, a collective name for all kinds of roots used as food.

They trust more to plantain-groves, corn and other vegetables than to what are called ground-provisions; such as yams, eddoes, potatoes, cassada and other escusuch as yams, eddoes, potatoes, cassada and other esculent roots.

Bryan Edwards, A Hist, of the Brit, W. Indies, H. 162.

ground-raspberry (ground'raz"ber-i), n. The

goldenseal, Hydrastis Canadensis.

ground-rattler (ground'rat'ler), n. A small rattlesnake, Sistrurus miliarius, found along the Atlantic and Gulf coasts south of Fort Macon, Ga., up the Mississippi Valley, and west to Oklahoma. It is of a dark ashen-color, marked along the back with rounded brown blotches, and is one of several rattlesnakes to which the name Massasauga is given.

groundsel-bush (ground'sel-bush), n. as groundsel-tree.

ground-shield (ground'shëld), n. In cleel., a conducting-plate, between the primary and

secondary windings of a transformer, which is connected to earth and serves to prevent the high-tension currents of the primary coil from entering the secondary circuit. Trans. Amer. Inst. Elect. Engin., 1904, p. 681.

groundsman (groundz'man), n. Same as

 \star groundman.

ground-spearing (ground'sperring), n. A fish, Trachinocephalus myops, of the family Synodoutidæ, common in the West Indies and Brazil. ground-spider (ground'spi"der), n. Any ground-inhabiting spider, especially any member of the families Lycosidæ and Attidæ.

ground-substance (ground'sub"stans), n. In histol., the structureless substance which lies between cells or in which cells are embedded.—2. The fundamental or basic substance of a cell or tissue.

ground-thermometer (ground'ther-mom"e-See *soil-thermometer.

ground-timbers (ground'tim"berz), Naut., the timbers of the lower course in the making up of the frame of a wooden vessel. ground-vine (ground'vin), n. The twin-flower,

Linnæa borcalis.

ground-wasp (ground'wosp), n. Same as $\star ground$ -hornet.

ground-weave (ground'wev), n. The foundation weave in the structure of figured fabrics. ground-worm (ground'werm), \bar{n} . An earthworm.

group! n., 3. (b) In the recommendations of the International Geological Congress this term is applied, in geological classification, to stratigraphic divisions of the highest order comprising several terrains. Its equivalent term in the time scale is era.

5. (b) In combinatorial analysis, one of the classes into which the objects are distributed when the order of the objects in a particular class is material. (c) In group-theory, a set of definite operations containing the operation compounded of any two of the set, and also the inverse of every operation of the set.—6. In crystal., a class of crystals characterized by the same degree of symmetry. Each crystal-line system embraces several such groups or elasses. See *symmetry, where the names commonly employed in designating the more important of these groups are given.—7. In ethnol., a number of people united together by common habits and usages. Brinton, Basis ctimol., a number of people united fogether by common habits and usages. Brinton, Basis of Social Relations, p. 33.—Albirupean group. See *albirupean.—Alternating group. (b) A group composed of all those substitutions which are equivalent to an even number of transpositions: as, for example, abcd, actb, adbc, cbda, dbac, bdac, adcb, bead, cabd, badc, cdab, adbc, cbda, dbac, bdac, acto, a commune in Francel, a Lower Devonian formation in Belgium and northern France.—Anticosti group, a naone given by the Canadian geologists to the silurian strata which compose the island of Anticosti and range in age from Middle Silurian to the upper part of the marine Silurian represented in New York by the Niagarau formation. The rocks are soft calcareous shales and limestones, and abound in finely preserved invertebrate fossils.—Applecross group, a subordinate member of the Torridonian strata of northern Scotland.—Aquia Creek group, certain Eocene Tertary deposits of the United States in the region traversed by the Potomac river. They are largely composed of greensand, some of them indurated, and abound in fossils.—Arapahoe group, a stratigraphic division of the Laranic group of formations developed in the vicinity of Denver. Colorado. The Arapahoe beds constitute, according to Cross and Eldridge, the lower division of the upper Laranic or Denver. Colorado. The Arapahoe beds constitute, according to Cross and Eldridge, the lower division of the Upper Laranic or Denver group and are mostly conglomerates. They attain a thickness of 800 feet.—Arenig group, the lowest division of the Lower Silurian rocks in Great Britain. These rocks consist of dark slates, shales, flags, and

bands of sandstone which pass down conformably into the Tremadoc group of the Cambrian series. They are typically developed in Arenig Mountain, Wales, where typically developed in Arenig Mountain, Wales, where they were originally described by Sedgwick, and composed part of his Cambrian system. The group is divided into two or three parts and a number of zones based on the predominance of certain species of graptolites.—Ariyalur group, in the Cretaceous series of India, the uppermost and most highly fossiliferous division.—Arundel group, one of the divisions of the so-called Potome formation in the Atlantic coast States, regarded as appertaining to the Jurassic formation together with the Patuxent group. Its strata contain a considerable number of vertebrate remains having Jurassic affinities.—Aubrey group. Hautery City on the Colorado river, a heavy series of beds exposed in the Grand Cañon of the Colorado and belonging to the Carboniferous system. H is divided into an upper linestone division, estimated by Gilbert to have a thickness of 835 feet, and a lower sandstone series, 1,435 feet thick; below this is the Red Wall linestone, 970 feet thick, below this is the Red Wall linestone, 970 feet thick, below this is the Red Wall linestone, 970 feet thick, below this is the Red Wall linestone, 970 feet thick, which in part contains fossils of Lower Carboniferons age—Aultoea group, a subdivision of the Torridonian strata of northern Scotland.—Auxochromous group. See *auxochromous.—Azoxy group. See *auxochromous.—Azoxy group. See *auxochromous and shales in North Devon constituting a division of the Upper Devonian, lying below the Pilton shales and grits and above the Pickwell-Down grit. These rocks contain a fanna of marine invertebrates unlike those at a corresponding horizon in Sonth Devon my like type-general in other countries.—Bahian group, sente to the northwest conserved to the state of the content of an altones and shales and grits and above the Pikewell-town grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauma of marine invertablem grit. These rocks contain a fauta of the lateral grit of the contain an advantage of the fact as a distinct element in the succession of marine Devinian deposits, and more recently demonstrated to be a lacustrine or lagoon formation contemporaneous with marine deposits of late Devonian time—a conception implying their equivalence to the typical Old Red Sandstone and fortifying the original interpretation.—Chari group, a division of the Jurassic system corresponding to the Callovian and Oxfordian, and highly developed in the Cutch region of India.—Chase group, a division of the Permian formation in Kansas.—Cherry Ridge group, a division of the Catskill formation in eastern Fennsylvania.—Chico group, a subdivision of the Creaceous formation of the Pacific border, extending from

Lower California northward beyond the Queen Charlotte Islands. It is regarded by Californian geologists as equivalent to the 1 pper (retaccous and as forming an anthologous series with the Tretacous and as forming an anthologous to the 1 per series and farther east by dura-Trias and Carboniferous deposits, and coveragin in California and Oregon by the Flow Bolk. Its fauns is characterized by the blending of Cretacous with Tertiary types—Chidra group, a faither cast by dura-Trias and Carboniferous deposits, and coveraging in California and Oregon by the Flow Bolk. Its fauns is characterized by the blending of Cretacous with Tertiary types—Chidra group, a faither of Cretacous beds in the continental interior of America, lying above the Dakota and below the Fort Pierre group. It is divided into a lower (Fort Benton) division and an upper (Noberary division, which together attain a maximum this, and is a continuous group). In the continuous group, playshat in Indian, a division of the Dagohal group | Josepha in Indian, a division of the Secene Tertiary in the Simia district of India—Cuchara group, a division of the Simia district of India.—Denver group, the upper member in Colondo, recarded by some writers as of Lower Tertiary age, by these as belonging to the late Cretacous.—Derived group, in math., the self-conjugate subgroup generated by the combinants of the rinfinitesimal generating operations of any given continuous group. If the number of the self-conjugate subgroup generated by the combinants of the rinfinitesimal generating operations of any given continuous group. If the number of the Cretacous and states, and division of the Fordian series of Flowence Tertiary age in the South Atlantic States.—Diabog group, the lowest member of the Terridonian series of Precambrian rocks in the north of Sectian, commissing of sandstones, shades and clays carrying an abundance of the Terridonian series of Precambrian rocks in the north of Sectian, commissing of sandstones, and the series of the Floridan series of Precambr

the pelagic Triassic series of the Mediterranean basin and of India.—Lafayette group, a division of the Tertiary rocks, now regarded as of Pliocene age in the Gulf region of the United States, lying above the Floridian series and regarded as equivalent to the Lagrange, the Orange sand, and the Appomattox groups of this region.—Lewisian group, a group of gneisses and related metamorphic rocks belonging to the archean and occurring in northern Scotland and the Hebrides: named by Murchison (1858) from the island of Lewis.—Little River group, a series of strata in Nova Scotia referred to the Middle Devonian.—Lower Helderberg group, a term introduced by the New York geologists and equivalent in present usage to the Helderberg group or Helderbergian. Its rocks are of earliest Devonian age. See Helderberg #group.—Lynton group, the middle division of the Lower Devonian rocks of North Devon, consisting of grits and calcareous slates, lying between the Foreland grits beneath and the Hangman grits above.—Marion group, an upper division of the Permian rocks in Kausas.—Marshall group, the lowest division of the Lower Carboniferons or Mississippian series in Michigan.—Menevian group, a name proposed by Salter and Hicks for a series of Middle Cambrian sandstones, shales, slates, flags, and grits which are seen near St. Davids (Menevia) in Wales, where they attain a thickness of about 600 feet and lie conformable to both Upper and Lower Cambrian. They abound in marine fossils.—Midway group, the lowest member of the Eocene Tertiary in the States of Alahama and Georgia, and extending westward into Arkansas and Texas.—Monodromy group of a linear equation or system of linear equations, Asshville group, a series of shale beds in eastern Tennessee, lying above the horizon of the Tenton lineat and terearded as equivalent to the Loverane solutions of the linear equation or system of linear equations.—Nashville group, a series of shale beds in eastern Tennessee, lying above the horizon of the Trenton limestone and regarded as equivalent to the Lorraine shales of New York or the Richmond beds of Indiana.—Navesink group, a subdivision of the Cretaceous rocks in New Jersey equivalent to the Lower Greensand, lying above the Raritan clays and below the Upper Greensand.—Niobrara group, a division of the Cretaceous system in the interior region of the United States. It is regarded as the upper subdivision of the Colorado formation, which lies below the Montana and above the Dakota formation, the latter constituting the base of the Cretaceous series. It consists largely of chalk and chalky marls, and contains an abundance of organic remains, the most conspictions of which are the vertebrates, which are represented by several species of mosasaurs, pterodactyls, plesiosaurs, tains an abundance of organic remains, the most conspicuous of which are the vertebrates, which are represented by several species of mosasaurs, pterodactyls, plesiosaurs, turtles, and the toothed birds **Hespervinis** and **Ichthyorais.**—Non-integrable group, in math. When G is a given continuous group, G₁ the derived group of G, G₂ that of G₁, and so on, if the series G, G₁, G₂, . . . terminates with a perfect group, G is a non-integrable group. —Oil-creek group, the lowest division of the Subcarboniferous or Mississippian series in northwestern Pennsylvania. It is regarded as the equivalent of the Pocono group of eastern Pennsylvania.—Olenellus group, the lowest division of the Cambrian system, characterized by the presence and culmination of the trilobite genus *Olenellus.*—Olenidian group*, the uppermost division of the Cambrian system, characterized by the presence and culmination of the United States, embracing the Burlington, Keokuk, and Warsaw limestones, and lying above the Kinderhook and below the St. Louis groups. —Panchet group, the appermost member of the middle Gondwana beds in the Triassic of India, consisting of about 1,800 feet of sandstones and red clays containing an abundant flora of ferns, cycads, and conifers, and some vertebrates. Traces of the Panchet fauna and flora have also been found in North Russian (Dwina beds) and in the Beaufort beds of Cape Colony, Africa. The Panchet beds overlie the Damuda beds of Lower Triassic age and arc overlain by sandstones of Jurassic age.—Paradoxidian group, the Middle Cambrian formations of shales, sandstones, and the Damuda beds of Lower Triassic age and are overlain by sandstones of Jurassic age.—Paradoxidian group, the Middle Cambrian formations of shales, sandstones, and limestones, characterized by the presence of various species of the trilobitic genus Paradoxides. The group underlies the Upper Cambrian or Olenidian series, and overlies the Lower Cambrian, Georgian, or Olenellus group. It is well developed in New Brunswick, Canada, and Newfoundland, where it constitutes the middle or Acadian division of the St. John group. It includes the Braintree argillites of eastern Massachusetts, and is represented in Europe by the Menevian of Great Britain and the Paradoxides shales of Scandinavia, Russia, Bohemia, and Spain. The contained fauna consists of numerous trilobites, with some brachiopods, worm-tubes (hyolithids), rare gastropods, echinoderms, and sponge-Bohemia, and Spain. The contained fauna eonsists of numerous trilobites, with some brachiopods, worn-tubes (hyolithids), rare gastropods, echinoderms, and spongespicules. Also called Paradoxidian series.—Patapscogroup, the basal member of the Cretaceous series of Maryland, consisting of party-colored clays and sands lying unconformably upon the Arundel beds, and overlain by the Raritan groups. The beds have furnished a considerable tora comprising ferns, cycads, conifers, monocotyledons, and some primitive dicetyledons.—Perfect group, in math., one which coincides with its derived group.—Pogonip group, a series of limestone and shale beds, of Silurian age, in the Eureka district of Nevada. It is about 3,000 feet thick and contains faunas of mixed Cambrian and Silurian expression in successively higher zones.—Potomac group, See Potomac *formation.—Predominant group. See Robominant *group.—Puerco group, the basal member of the terrestrial Eocene Tertiary, developed in the San Juan basin of northwestern New Mexico, lying upon the marine and brackish-water Laramie beds of the Upper Cretaceous and beneath the Torrejon formation. This formation has furnished a large number of multituberculate mammals (Polymastodon, Neoplagiaulax, Triisodon, Protochriacus) and some condylarths and edentates.—Purin group, in chem., a group consisting of an alloxan group, Call 2048-5, joined to a urea radical, as shown in the diagram:

 $\begin{cases} C = N \\ C = N \end{cases} \geqslant C.$ A group of this order enters

into the structure of the purin bases and of uric acid. The group suggests the existence of a common mother-sub-

stance of the composition $\stackrel{|}{\text{IIC}} \stackrel{|}{\text{C-NII}} > \text{CH}$, which has

soo feet, and its rocks are chiefly fresh-water deposits with a great abundance of terrestrial mammalian remains.

— Wahsatch group, the lower division of the Lower Ecocene Tertiary in the Wahsatch Mountains of Utah, lying below the Wind River group and above the Torrejon group. These strata have also been named the Corphodon beds. They carry an extensive series of mammalian remains, among which are Phenacodus, the primitive type of the equine stock, several species of Corphodon, Hyracotherium, etc.—Wichita group, the lower division of the Permian beds in Texas, carrying a flora of ferns and Walchin, and a fauna of cephalopods, fish, amphibia, and reptiles.—Wind River group, a division of the Lower Eocene, in the vicinity of the Wind River of Wyoming, lying above the Wahsatch group and below the Bridger beds: also called the Bathyopsis beds. This division abounds in mammalian remains—the primitive horses, Phenacodus and Proterohippus, together with Corphodon, Hyracotherium, Bathyopsis, and others.

— Woodstock group, the uppermost division of the Ecocene Tertiary beds in the region of Maryland and Virginia, bordering the Potomac river, and regarded as representing in part the middle division of the Ecocene of the Gulf States.

groupage (grö'pāj), n. [group +-age.] Group-

groupage (grö'pāj), n. [group + -age.] Grouping; arrangement in groups. B. Taylor.

group-breaker (gröp'brā"kèr), n. In elect.. a switch or circuit-breaker, in a power-station, so arranged as to break simultaneously a group of circuits.

grouper, n. 2. Any one of many different fishes in different countries. The name is applied fishes in different countries. The name is applied to different species of serranoid fishes resembling or supposed to resemble the serranoid fishes properly so named. — Black grouper. (a) See grouper. (b) The black jewshish, Garrupa nigrita. (c) Mycteroperea bonaci.— Mangrove grouper, a large fish of the lamily Serranidæ, Mycteroperea bondengeri. [Gulf of California.]— Poison grouper, Scorpæna plumieri, a fish found from Florida to Brazil.— Yellow grouper, a name given in the Galasagos Islands to the large grouper Mycteroperea dfax.— Yellow-finned grouper, a large fish, Mycteroperea venenosa, of the family Serranidæ. [Florida.] group-flashing (gröp'flash"ing), n. The flashing of a light with varying periods between the flashes, as in lighthouses. The flashes of a group, two or three in number, are separated by very short intervals and each group is divided from the next group by a much longer period of darkness.

group of a much longer period of address, and a form of marriage in which a group of men are considered the husbands of a group of women.

Keane, Man Past and Present, p. 153.

group-mind (gröp'mind), n. In social psychol., the collective mind of a group, class, or so-ciety; the stock of beliefs, customs, attitudes, ete., common to the members of such a group. Some have maintained that the promptings of the group-mind as felt by the individual belong in the unconscious or involuntary part of his nature, and partake of the character of mechanical necessity.

Brinton, Basis of Social Relations, p. 24.

group-type (gröp'tip"), n. The common mental and moral type, and the prevailing manner of a social group. E. A. Ross, in Amer. Jour. Sociol., VIII. 762.

group-wife (gröp'wif), n. A woman who is

one of a group considered to be the wives of a group of men. See *group-morriage.

Dr. Howitt says, "the germ of individual marriage may be seen in the Dieri practice; for as I shall show later on, a woman becomes a Tippa-malku wife before she becomes a Pirrauru or group-wife

Nature, Jan. 5, 1905, p. 226.

group-will (gröp'wil), n. An agreement or concert of individual wills; the common purpose and determination of a social group.

E. A. Ross, in Amer. Jour. Sociol., VIII. 762.

gronp-wise (gröp'wīz), a. Directed upon the

group rather than the individual; pertaining to the interest of the group. E. A. Ross, Social Control, p. 28.

grous, n. Same as grouse.
grouseberry (grous'ber"i), n. The American
wintergreen or cheekerberry, Gaultheria procumbens. See wintergreen, 2.

grouse-locust (grons'lo"kust), n. A locust or grasshopper of the subfamily Tettiginæ. J. B. Smith, Econ. Entom., p. 92. grove-snail (gröv'snäl), n. A snail, Helix

grow, v. i. 6. Of a crystal, to develop or enlarge by the addition of molecules arranged in accordance with the laws of molecular attraction.—Growing pottery, earthenware or crockery which exhibits the phenomenon of a crystalline growth on its surface, caused by the chemical action of some of its constituents.

growing-pains (grō-ing-pānz"), n. pl. Various indefinite pains about the joints, especially of the lower extremities, in children and adolescents.

growing-point (gro'ing-point), n. In bot., the cone of growth at the tip of the stem, at which the apical cell is located and which is

the seat of vegetative activity.

the seat of vegetative activity.

growth, n.—Apical growth. See *apical.—Basal growth. See *basal.—Cone of growth. See *cone.

—Determinate growth, growth which ends with a bud at the conclusion of the season.—Line of growth, in moliusks, especially bivalves, one of the concentric lines that mark the external surfaces of the shell and run parallel to the free margin. Each line represents a period of rest in the process of the formation of the shell.—Old field growth. See volunteer *growth.—Second growth, forest growth which comes up naturally after cutting, fire, or other disturbing cause.—Volume growth. See *increment, 6.—Volumeer growth, in forestry, young trees which have sprung up in the open, as white pine in old fields, or cherry or aspen in burnel tracts. tracts

growth-line (groth'līn), n. Any line which marks a stage of growth in an organism: as, the growth-lines of a plant or of a shell. growth-ring (groth'ring), n. A line of growth.

arouth.

growthy (grō'thi), a. [growth + -y1.] Somewhat overgrown; of rather more than the usual size. [Colloq.]

She was easily third and Mr. Clough's growthy imported Merlin helfer boreas had to stand scating down to fourth. Rep. Kan. State Board Agr., 1901-02, p. 194.

grub, n. 4. In cricket, a ball bowled along



White Grub (Lachnosterna a, beetle; b, pupa; c, mature larva. All natural size. (Chittenden, U. S. D. A.)

the ground. Also ealled, in the slang of cricket, sneaker and daisy-cutter.—Jug-bandle grub, the chrysalis of any one of several large sphingld moths, as the tobseco-sphinx, or the tomato-sphinx [Local, U. 8.]—White grub, the larva of any scarabeld beetle; especially of the Melolomthini, and the genus Lacknosterna. The white grubs of Lacknosterna and Cyclogenical ways and the desired day and and nosterna. The white grubs of Lachnosterna and Cycloenosterna. The white grubs of Lachnosterna and Cycloephala or May-beetles do great damage to grass-land and
to strawberry, potato, and other crops planted in old sod.
Other well-known forms belong to the genera Allorhina
or June-beetles, Ligyrus, and Cotalpa.

Grubbia (grub'i-ä), u. [NL. (Bergius, 1767),
named in honor of Michael Grubb, director of

the Swedish East India Company and a patron of science.] A genus of plants, constituting science. J A genus of plants, constituting the family Grubbiaccæ. They are heather-like shrubs, with opposite, entire, linear or lanceolate, coriaceous leaves having revolute margins, and small flowers in clusters of three, the clusters borne singly in the axis of the leaves or congested in axillary cones. There are three species, all South African.

Grubbiaceæ (grub-i-ā'sē-ē), n. pl. [NL. (Endlicher, 1838), < Grubbia + -ueeæ.] A family of dicotyledonous apetalous plants of the order. Southless, containing the single genus.

der Santalules, containing the single genus *Grubbia (which see).

grub-fungus (grub'fung"gus), n. A fungus which attacks the grubs of buried insects and replaces the body of the larva with mycetium. replaces the body of the larva with invection. The fruiting bodies of the fungus often develop from the head, giving a peculiar horned effect. The common American species is Cardyceps Ravenehi. C. Sinensis is used medicinally in China. See Cordyceps, with cut.

grub-prairie (grub/prā/ri), n. Land full of company of the company of the

roots requiring to be grubbed out. See the extract. [Upper Mississippi region.]

In grub-prairies in the Northwestern states, the soil is full of the roots of trees and bushes, often of the jack-oak, hazel, etc., that have been killed back to the roots by annual fires.

F. B. Hough, Elements of Forestry, p. 52,

grub-screw (grub'skrö), n. A set-screw hav- G. T. An abbreviation (a) of Good Templar: ing no head but simply a slot for receiving the (b) of Grand Tiler. serew-driver by means of which it is turned. Gt. Br., Gt. Brit. Abbreviations of Great Jour. Brit. Inst. of Elect. Engin., 1902-03,

grubstake (grub'stāk), v. t.; pret. and pp. grubstaked, ppr. grubstaking. [grub-stake, n.] gnaba (gwä'bä), n. [Porto Rican.] Same as To fit out or supply with appliances, etc., for *guava, 2. some operation or undertaking, on condition guacamaia (gwä-kä-mī'ä), n. [NL., < Central of sharing in the profits. See grub-stake, u.

Electrochem. Industry, March, 1904, p. 103. gruenerite, n. Seo *grüncrite. gruff¹, n. 2. Crude or impure saltpeter, as

gruff 1, n. 2. Crude imported from India.

Gru-gru worm. Same as gru-gru, 1. grünauite (grü'non-it), n. [G. Grünau+-ite2.] A complex metallic mineral containing sulphur, bismuth, niekel, etc.: perhaps only a mixture of the nickel sulphid polydymite with bismuthinite and other species: from Grünau, Germany.

grundy-swallow (grun'di-swol'ō), n. [A popular perversion of the original (AS. grundeswelge, properly gundeswelge) of groundsell, q.v.] The golden ragwort, Senecio aureus.

grünerite (grü'ner-it), n. [Named after Herr Grüner, a German, who analyzed it.] An iron amphibole (FeSiO₃) occurring in brown fibrous forms.

grüneritization (grü ner-ī-ti-zā'shon), n. [grünerite + -ize + -ation.] In petrog., the alteration of the minerals in a rock to grünerite or iron metasilicate in the form of amphibole.

grünlingite (grün'ling-īt), n. [Named after Herr Grünling, a German mineralogist.] A compound of bismuth, tellurium, and sulphur, perhaps Bi₄TeS₃. It resembles tetradymite. grunt, n. 3. Among the various fishes of the Hamulon and family Hamulidae, so genus Hæmulon and tamity Hæmululæ, so named, are the following: Black grunt, Hæmulon bonariense; boar-grunt, H. sciurus; French grunt, H. flavolineatum; gray grunt, H. macrostonaum; grunt blackfish, H. bonariense (see seblackfish), Margaret grunt, H. album; open-monthed grunt (same as French *grunt); red-monthed grunt, Buthystoma rimator; atriped grunt, Hæmulon macrostonum; white grunt, Buthystoma striatus (see also capeuna); yellow grunt (same as boar-werent). *arunt)

grunter, n., 1. (c) A horse which has the habit of emitting a sound during expiration, when suddenly emitting a sound moved or startled.

Grusian (grö'zi-an), a. and n. [Russ. Gruziya,

Georgia, +-an.] Same as Georgian².

gryllid (gril'id), n. and a. I. n. A member of the family Gryllidæ.

II. a. Of or belonging to the orthopterous

family Gryllidæ.

gryochrome (grī'ō-krōm), n. [Said to be formed (by Nissl) from Gr. γρν, taken in the sense of 'the dirt under the nail,' + χρωμα, color.] In neurol., a nerve-cell in which the chromatic substance exists in the form of

minute basophil granules which give tne stained protoplasm a dusty appearance.

There is also a considerable number of cells in which the hasophile substance is present as fine granules giving a blue dusty appearance to the cell body. These cells Nissl describes as "grypochromes."

issl describes as "gryochromes."
F. R. Bailey, in Jour. Exper. Med., Oct. 1, 1901, p. 579.

gryphosis (gri-fō'sis), n. An incorrect form

Grypocera (gri-pos'e-rä), n. See ★Netrocera, 2 **Grypoceras** (grip-os'e-ras), n. [Gr. $\gamma \rho \nu \pi \delta \zeta$, curved, $+ \kappa \epsilon \rho a c$, horn.] A genus of ammonoid cephalopods or ammonites from the Triassic

Grypotherium (grip-ō-thē'ri-um), n. [NL., < Gr. $\gamma \rho \nu \pi \dot{o} c$, eurved, $+\theta \eta \rho i o v$, beast, in allusion to the claws.] A genus of extinct groundsloths, related to and closely resembling Mylodon and Meyatherium. Some members of the genus were contemporary with early man in southern South America, and one species G. listai, remains of which were found in a cave in Patagonia, is supposed to have been kept in a state of domestication.

G. S. An abbreviation (a) of Grand Scribe; (b) of Grand Secretary; (e) of Grand Sentinel; (d)

of Grand Sentry.

Gshelian (gshel'i-an), n. [Russ. Gshel('sk') a district in Russia, + -ian.] In gcol., one of the divisions of the Carboniferous system on the continent of Europe which constitutes the marine type of the uppermost part of the system. The term 'Stephanian' is applied to the lagoon type of the same period. The Gshelian is better known as the *Uralian* from the high development of the formation in the Ural Mountains.

G-string, n. 2. A narrow strip of eloth worn as a breech-elout. J. Mooney, Child life: in

Cye. of Indian Tribes.

gu. An abbreviation (a) of guinea; (b) of gule.

guaba (gwä'bä), n. [Porto Rican.] Same as

American and W. Ind. guacamaya, a parrot.] A large parrot-fish, Scarus Callyodon guacamaiu. It is characterized by deep-blue teeth and is found in the West Indies.

guacamphol (gwä-kam'fol), n. [gua(iaeol) + eamph(or) + -ol.] An ester of guaiaeol and eamphoric acid. It is suggested as a remedy for the night-sweats of phthisis; also as an intestinal antiseptic. guacima (gwä'sē-mä), n. [Haytian name.] In Porto Rico, Guazuma guazuma, a handsome

tree of the order Sterculiaceæ, which has elm-like leaves and axillary clusters of small yellowishwhite flowers. white flowers. The fruit is an oval hard nut having blunt projecting tubercles all over its surtubercles all over its surface. On the Pacific coast of Mexico the nuts are made into a drink called orchata de gudeima, to which sugar and lemon are usually added. They contain mucilage and are sometimes administered as a remedy for gonorrhea. The inner bark is also used medicinally. It is muci-



The inner bark sales used medicinally. It is muci-laginous and is adapted one fourth natural size. One fourth natural size. One fourth natural size. It is quite tough and has been used for cordage. The tree is admirably adapted for avenues. It may be repeatedly trimmed and soom sends for tha huntimeter with of small branches which form a dense head. The young branches and fruit are much relished by cattle. The wood, sometimes called bastard cedur, is used for tubs, furniture, and interior woodwork.

guacin (gwä'sin), n. [guaeo + -in2.] An amorbitter principle obtained from the phous bitter pr leaves of guaco.

guaco, n. 3. Same as *huaco. guacocoa (gwä-kō-kō'ä), n. [Cuban.] A tree of the family Daphnuccæ, Daphnopsis Guacucoa, which yields a very strong, white bast-fiber.

guadalcazarite (gwä-däl-kaz'a-rīt), n. [Guadalcazar, in Moxieo, + -ite².] Sulphid of mereury (metacinnabarite) containing a small

mercury (metacannaparite) containing a smattamount of zine.

guadil (gwä-dēl'), n. [Guanche name in the Canary Islands.] One of the shrubs which produce rhodium-wood, Convolvulus floridus. It is an onamental shrub, from 4 to 6 feet high, the branches and linear leaves of which are covered with a white powder. The flowers are pure white, so that when the plant is in bloom it has the appearance of being covered with snowflakes.

+ -ol.] Same as *ajacol. guaguanche (gwä-gwän'che), n. [Cuban.] A small barracula. Sphyrana guachancho, found in the waters of Cuba.

guaiacal (gwī'a-kal), n. [quaiac(um) + -ul3.] A little used name for crotonaldehyde, CH3CH: CHCHO, which is also called 2-butenal.

guaiacene (gwi'a-sēn), n. [guaiac(um) + -ene.] Same as *quaiol, the incorrect name for *tiglic

guaiacetin (gwi-as'e-tin), n. [guai(acum) + acet(ic) + ·in².] Pyrocatechiu-monoacetic acid: used in medicine in about the same way as guaiacol.

guaiacola (gwī'a-kōl), n. Same as guiacol, guaiacolate (gwī'a-kō-lāt), n. [guaiacol + -atel.] A salt of guaiacol.

guaiaconic (gwi-a-kon'ik), a. [guaiacum + -one +-ic.] Derived from guaiacum resin.— -one +-ie.] Derived from guaracum resin.—Guaraconic acid, a resinous, levorotatory compound, C_{3a}H₄₀O₁₀, which is obtained from guaracum resin. It melts at 100°C, constitutes 70 per cent. of the crude guaracum resin, and turns blue in the presence of oxidizing agents. Also called a-resin.

guaiacyl (gwi'a-sil), n. [quaiac-um + -yl.] whitish amorphous compound, $(C_0H_3.0.CH_3)_2$ ($(O_2Ca)(HSO_3)_2$, the calcium salt of guaiacol sulphonic acid: used as a local anesthetic.

guaiakincl (gwī'a-kin-ōl), v. [guaia(cum) +

kina + -ol.] A guaiacolate of quinine.

guaiamar (gwi'a-mär), n. [guai(acol) + L.
amarus, bitter.] The glycerol ester of guaicol: used in medicine in about the same way as guaiacol.

guaiaperol (gwī-ap'e-rōl, n. [guaia(col) + (ni)per(idine) + -ol.] A crystalline compound, C₅H₁₁N.(C₇H₈O₂)₂, obtained by the action of piperidine upon guaiacol: used in tuberculosis.

guaiaquin (gwī'a-kwin), n. [guaia(col) + quin(ine).] A yellowish solid of bitter taste consisting of quinine-guaiacol sulphonate. consisting of quinine-gnaiacol sulphonate, $C_6H_3O_2$. CH_3 . HSO_3 . $C_20\Pi_{24}N_2O_2$: an odorless substitute for gnaiacol.

guaiaquinol (gwī'a-kin-ōl), n. [guaia(cum) + quina + -ol.] Quinine bromguaiacolate. lt is used in medicine.

guaiasanol (gwi'a-sa-nol), n. [guaia(cum) + L. (!) sanus, sound, + -ol.] Diethyl-glycocoll-guaiacol hydrochlorid. It is soluble in water, and is used in the same way as gnaiacol.

Guaiasanol.. was introduced by E. Einhorn and Hütz as a soluble form of guaiacol. It crystallizes in white prisms, having a faint odor and a saline, bitter taste. Buck, Med. Handbook, IV. 425.

guaiene (gwi'en), n. [guai(acum) + ene.] A pale blue fluorescent hydrocarbon, $C_{12}H_{12}$, prepared by the distillation of gnaiacum resin with zine dust. It sublimes and forms brilliant plates, which melt at 97-98° C.

liant plates, which guaio (gwi'ol), n. [quai(acum) + -ol.] 1. Same as *tiglic aldehydc.—2. Same as *champacol. guajica (gwä-hē'kä), n. [Cuban.] Pæcilia rittula, one of the killifishes inhabiting streams in Cuba.

A variant of bly belongs to the glycocholic-acid group, found in Peruvian guano.

A tin tube

guako (gwä'kō), n. [From one of the pueblo languages of New Mexico, prob. Tehua.] A vegetable dye used by the Pueblo Indians to paint their pottery black. It is probably obtained from the root and stalks of a species of

guama (gwä-mä'), n. [Porto Rican and Venezuelan.] A tree of the mimosa family, Ingu laurina, extensively used in the West Indies and in Venezuela and Colombia as a coffee It bears broad, bean-like pods, shade-tree. with an edible, sweet, fluffy pulp.

with an edible, sweet, numy purp, guamacho (gwä-mä'chō), n. [Native name in Venezuela.] A tree, Pereskiä Guamacho of the cactus family, 12 to 15 feet high, which the cactus family, 12 to 15 feet high, which cactus family, 12 to 15 feet high, which the cactus family, 12 to 15 feet high, which comocladia dentata. Its edible fruit is known to more allowed to the cactus family, 12 to 15 feet high, which comocladia dentata. Its edible fruit is known to more allowed to the cactus family, 12 to 15 feet high, which cactus family, 12 to 15 feet high, which can be a support of the cactus family. bears yellow flowers and branches covered with long, straight spines. When planted in rows it forms impenetrable hedges. It yields quantities of a pale brown gum, which dissolves completely in water. [Venezuela.]

guamo (gwä-mō'), n. [Venezuelan.] Same as

guamuchil (gwä-mö-chēl'),n. [Mexican gua-muchil, huamuchil, guamachil, < Aztec quamo-chitl.] A tree, Pithecolobium dulce, which bears abruptly pinnate leaves and pods which contain a sweet edible aril surrounding the seeds. [Mexican.] See *kamachiles.

guaethol (gwä-eth'ōl), n. [gua(iacum) +eth(er) guana², n. [Cuban.] 2. The namo in Cuba for the lace-like inner bark of the blue or mountain mahoe, Pariti clatum, a malvacemountain manoe, Farite eccuum, a maivace-ous tree 50 to 60 feet high. The fiber is ob-tainable in broad bands up to 12 or 15 inches wide. Formerly it was much used for tying up bundles of cigars; its place for this purpose, however, has been taken by specially woven silk bands. It is extensively used in the United States and Europe for making women's hats and millinery trimmings. Commercially known as Cubu bast.

guanacaste (gwä-nä-käs'tā), n. [Costa Riean.] Same as *quanacuztli.

guanacaztli (gwā-nā-kās'tlē), n. [Mex. guanacaztli, (Nahuatl quauhnacaztli, 'ear-tree,' (quanitl, tree, + nacaztli, ear.] The ear-drop tree or ear-pad Enterolobium cyclocarpum, a large, handsome tree of the



handsome tree of the mimosa family. It has wide-spreading symmetrical branches, twice-pinnate leaves, globular heads of flowers, and peculiar pods shaped like a human ear, the inner suture of the legume being very much contracted and the outer forming the periphery of a circle, so that the rounded top of the pod meets the rounded base. The pods contain a sweetish pulp surrounding the hard seeds and are eaten by cattle, by means of which the undigested seeds are dispersed without losing their vitality. At Colima, Mexico, the natives use the seeds in times of scarcity as a substitute for maize. The wood is used for troughs, canoes, and in house-building, and the pods and bark are rich in tannin and are used as a substitute for soap in washing. Also called conacaste and guanacaste.

guanase (gwä'nās), n. [guan(ine) + -asc.] An autolytic ferment which causes the transformation of guanine to xanthin.

guanazole (gwä'na-zōl), n. [guan(ine) + az-(otc) + -ol.] A colorless compound, NH — C(NH)

NH < which crystallizes in mono-C(NH)NH

elinic prisms, and melts at 206° C. It is a feeble base, gives a deep red color with ferric chlorid, and is also called 3, 5-diamino-1, 2, 4triazin

guandee (gwän-de'), n. Same as *gandul. guanidin (gwä'ni-din), n. [guan(ine) + -id + -ine².] A strong crystallizable base, CH₅N₃, which results on oxidation from guanine. In combination with ornithin, as arginin, it represents one of the most constant decomposition-products of the albuminous molecule.

guanimin (gwā'ni-min), n. [guan(ine) + imine.] A basic substance which is formed by the action of heat upon a guanidin salt of a fatty acid.

guajilote¹ (gwä-hē-lō'tā), n. A variant of bly belongs to the glycochone-acid group, *cadjilote, guajilote² (guä-hē-lō'tā), n. A corruption of guano-horn (gwä'nō-hôrn), n. A tin tube about 3 feet long and 2 inches in diameter, guako (gwä'kō), n. [From one of the pueblo languages of New Mexico, prob. Tehua.] A languages of New Mexico, prob. Tehua.] A 1896, p. 194.

guanoline (gwā'nō-lin), n. [guano + -ol + -ine².] A colorless compound, HN:C(NH₂) NHCOOC₂H₅, formed from guanidin and ethyl chlorcarbonate. It crystallizes with NHCOOC₂H₅, formed from guanidin and between the clusters of a blossom of a double ethyl chlorearbonate. It crystallizes with hollyhock. Stand Dict.

¹H₂O in trimetric lamine, melting at 100° C. Also called guanolene and ethyl guanadinecarboralized the junction of an artificial canal with the hornlaster. boxylate.

guanylic (gwä-nil'ik), a. [guan(ine) +-yl +-ic.] Noting a nucleinic acid, C₄₄H₆₆N₂₀P₄O₃₄, obtained from the pancreas.

as maiden-plum (which see). In Mexico the name is applied to several plants with acrid juice which causes eruptions of the skin, especially to the poison-oak (Rhus Toxicodendron) and Comocladia Engleriana, which are also called tetlatia.

guaparanga (gwä-pä-räng'gä), n. [Braz.] See Marlieria.

guapena (gwä-pā'nä), n. [W. Ind. ?] Same as ribbon-fish.

guaperva (gwä-per'vä), n. [Pg. (Lacerda).] tereduntil drafted to sea-going vessels. [Naval A trigger-fish of the genus Balistes. guapinol (gwä-pē-nōl'), n. [Mex. Sp., < Naguardo-move (gär'dō-möv), n. Naut., a trick huatl quauitl, tree, + pinolli, a kind of flour. played upon a landsman on a receiving-ship.

There is a dry mealy pulp surrounding the seeds.] The courbaril, Hymenæa Courbaril. See Hymenæa.

guar (gwär), n. Same as gouarce. guara³ (gwär's), n. [Cuban Sp., from a native name.] In tropical America, several species of Cupania, trees of the family Sapindaceæ, having pinuate leaves and racemes of panicles of small flowers. In Porto Rico C. Americana furnishes a wood which, though soft, is susceptible of a high polish. Its fruit is a three-celled capsule which opens on ripening and displays its black seeds with yellow aril about their base. Guara blanca, or guara de costa, is C. glabra, a species common in the West Indies, and guara colorado, or guara macho, is C. macrophylla, a Cuban species. In Jamaica the timber of these trees is called lobiolly-wood.

guarabu, n. 2. A large tree of the family Casalpiniacae, Peltogyne confertifiora, which yields a useful wood and from the bark of which a fine red dve is obtained. having pinnate leaves and racemes or panicles.

which a fine red dye is obtained.

guaracha (gwä-rä'chä), n. [Mex. Sp., also guarache, huarache, huarache.] 1. A kind of sandal used by the Mexicans and the Indians of Mexico.—2. A graceful Spanish dance, or the music for it.

guaraguao (gwä-rä-gwä'ō), n. [Porto Riean.] In Porto Rico, a name of several trees of the genera Trichilia and Samyda, of the mahogany genera Trichita and Samyat, of the manogany family. The most important is S. Guidonia, the hard, red wood of which resembles mahogany but is crossgrained and has larger pores. It is used in construction and for furniture. The tree has abruptly pinnate leaves and axillary clusters of white flowers followed by reddishbrown, capsular fruit. T. spondioides, known as white bitter-wood in Jamaica, furnishes timber for construction, and for msking carts, boats, and farm implements. See Trichilia and Samyda.

guard, n., 3. (g) In foot-ball, basket-ball, and similar games, a player occupying a certain position. In foot-ball there are two guards, who play on either side of the center rush: in basket-ball the guard prevents the opposing forward from throwing goals.—Guards or guardians of the pole, the two stars β (Kochsb) and γ in the constellation of Ursa minor.—Main guard. (a) Milit.: (1) See guard. (2) The gnard from which all the other guards are detached. (3) A guard chosen from the troops of a garrison under which all drunkards, etc., are placed. (4) See main?. (b) In fort., the keep of a castle; the lodging of the main guard.—To give guard, in cricket, of the umpire, to inform the batsman, when he holds his bat upright before the wickets, which of the three stumps the bat is covering.—To run the guard. See *run!.—To take guard, in cricket, of the batsman, to ask the umpire, as the bat is held upright before the wickets, which of the three stumps it is defending.

guarda-costa (gär"dä-kōs'tä), n. Naut., a Spanish gunboat mostly employed against smugglers; a coast-guard vessel.

guard-bolt (gärd'bōlt), n. In a mowing-machine, the screw-bolt used to fasten the finger-guards in place. See moving-machine. similar games, a player occupying a certain

guards in place. See moving-machine. guard-book, n. 2. Naval, a book in which are entered the orders and official information received by the boarding-officer of the guardship of a fleet or squadron.

guard-detail (gard'de-tal"), n. The squad detailed from a company for guard-duty. Guardians of the pole. See *guard.

guard-iron (gärd'i*ern), n. 1. pl. See guard-irons.—2. An iron strap placed along the outside edge of the wheel-guard of a paddle-steamer.—3. A guard or fender attached to the front end of an English locomotive.

guard-lamp (gard'lamp), n. In telephony, an incandescent lamp in a central station so connected as to serve as a signal or indicator to prevent mistakes on the part of an operator. Elect. World and Engin., Dec. 12, 1903, p. 966.

guard-leaf (gard'lef), u. A leaf that grows

sea or other natural body of water whose level is subject to an extent of fluctuation undesirable for the canal. When boats are required to enter or leave the canal while a difference of level prevails between the water in the canal and outside, a pair of locks is necessary; otherwise a single lock is sufficient.—2. Any lock used to guard a keyhole or to guard another lock, as in the locks of the boxes of a safe-deposit vault, where the key to the guardlock may be held by the attendant of the vault and the key of the box by the renter, both keys being used to open the box. See duplex *lock. guardo (gar'dō), n. A receiving-ship or -vessel on which enlisted men are temporarily quar-tered until drafted to sea-going vessels. [Naval

ping or heavy floating bodies.

guard-pin (gärd'pin), n. In a small firearm,

a pin used to fasten the trigger-guard.
guard-plate, n. 2. A curved plate used to
prevent a flexible disk-valve from opening or
lifting beyond the distance limited by the

guard-polyp (gärd'pol"ip), n. In some hydroid polyps, as *Plumularia*, a tentacle-like projection of the cenosare, bearing threadcells, or adhesive globules, and surrounded by a hydrotheca. It has, probably, a nutritive function, serving to catch food. Also nemato-

phore, sarcotheca, and machopolyp.
guard-rail, n. 2. Naut., a fore-and-aft timber bolted on the outside of the covering-board or plank-sheer on steam-vessels navigating harbors, lakes, and rivers, to act as a fender when lying alongside of other vessels, or when made fast to a dock. Sometimes a second guardrail is carried along the sides just above the

water, and is then called a bilge guard-rail.
guard-ring, n. 2. In elect., an annular metal
plate which surrounds the attracted disk of an electrometer and is maintained at the same petential as the disk.

guard-strap (gärd'strap), n. A strip of sheet-iron arched above the top of a driving-wheel of a lecemetive.

guard-wire (gärd'wir), n. In electric railway construction, a wire stretched above the trolley-wire to prevent its coming in contact with other and still higher wires. Jour. Brit. Inst. of Elect. Engin., 1901-02, p. 91.

Guareschi and Mosso's base. See *basc^2. guarinite (gwä'ri-nīt), n. A calcium titanosili-

cate which occurs in yellow tabular crystals at Monte Somma, near Naples.

Guarnieri body. See *body and *Cytoryctes.
guarri (gwä'ri), n. [Hottentot name.] In South Africa, the fruits of any one of several schulbe belowing to the carry the description. shrubs belonging to the genus Euclea of the ebony family, especially of *E. undulata*, the edible red fruits of which are esteemed by the Hottentots. See *Euclea².

guarumo (gwä-rö'mō), n. [Also guarumo; from a native name.] In tropical America, several trees of palm-like aspect with slender trunks surmounted by a crest of large leaves, especially various species of *Cecropia*. In Mexico the name is applied to *C. peltata* and

C. Mexicana.
guasa (gwä'sä), n. [Cuban.] The great jewfish of the West Indies, Promicrops itaiara,

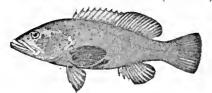
guaseta (gwä-să'tä), n. [Cuban Sp.; dim. of guasa.] A small sea-bass, Alphestes afer, of the family Serranidæ. [Cuba.]

Guastalline (gwä'sta-līn), n. [It. Guastalla, name of the foundress.] A member of a female religious order founded in 1534 by Counters. tess Guastalla, and known as Angelicals (which see).

Guastavino construction. A system of masonry construction extensively practised in the United States by a Spanish builder named Rafael Guastavino. The Guastavino arch is the limbrel arch composed of two or three layers of thin tiles laid in the most perfect cement. It is practically homogeneous like an egg-shell and capable of resisting great pressure.

Guate. An abbreviation of Guatemala.

guativere (gwä-te've-rā), n. [Cuban guatibere, from a native West Indian name (Pichardo).]



Guativere (Cephalopholis fulvus punctatus). (From Bulletin 47, U. S. Nat. Museum.)

A name of several fishes of the West Indies; A name of several usues of the West Indies; specifically, a serranoid fish, Cephalopholis ple form of viol, used in Russia fulcus, of a bright red, yellow, or brown color, with blue spots, ranging from Florida to Brazil. Also called guativere amarilla.—Black guativere, same as nigger-fish.—Red guativere, Cephalopholis fulcus ruber, a serranoid fish found in West Indian waters. It is scarlet in color and linhabits shallow water.

Anisotremus virginicus.

guava, n. 2. In Porto Rico, Inga rera, a tree
of the family Mimosacca, used as a shade-tree in coffee-plantations. See *Inga* and *coco-wood.*

2.—Cattley guava, *Psidium Cattleyanum,* a shrub or small tree, from 10 to 20 feet high, native to Brazil. It has leathery, glossy, evergreen feaves and round, claretred, acid fruits an inch in diameter, with a strawberry-like fragrance and flavor. It is cultivated in California and Florida for its fruit, which unakes fine jelly. Called also *strawberry-guava, purple guava, and in Brazil araça de *Praya.* A dwarf variety, with larget, yellow, sweeter fruits, is called *yellow* Cattley guava, pellow strawberry-guava or *Chinese guava, the yellow Cattley guava.—French guava.* (a) The peur-shaped variety of the common guava. (b) In Barbados, the ring-worm-shrub, *Herpetica alata.—Hill-guava, the hill-goosebetry, *Rhodomyrtus tomentosa.* See *hill *gooseberry, Rhodomyrtus tomentosa.* See *hill *gooseberry, Rhodomyrtus tomentosa.* See *pice-guava, a West Indian tree. *Psidium montanum, bearing globose, aromatic berries about half an inch in diameter. Called mountain-guava in Jamaica.—Strawberry-guava.

guava-berry (gwä'vä-ber*i), *n. In the West in coffee-plantations. See Inga and coco-wood.

guava-berry (gwä'vä-ber"i), n. In the West Indies, a small tree of the myrtle family, Eugenia lineata, which bears juicy red fruits of the size of cherries, which are eaten raw, preserved, or made into cordial.

Guavina (gwä-ve'nä), n. [Cuban.] 1. A genus of gobioid fishes found in fresh waters of the West Indies and Brazil: typified by G. guavina, of the rivers of Cuba.—2. [l. c.] A name appear of the company plied in Cuba to the elongate, flat-headed gobies.— Guavina hoyera, Awaous banana, a gobioid fish found in fresh waters on both coasts of tropical America.—Guavina mapo, Dormitator maculatus, a gobioid fish found on both coasts of tropical America.—Guavina tétard, Eleotris pisonis, a gobioid fish found in streams in the West Indies and south to Rio Janeiro.

guaviyu (gwä-vē-yö'), n. [Braz.] In southern Brazil and northern Argentina, either of two trees belonging to the myrtle family, Eugenia Guabiju and E. pungens. Both yield edible fruits.

guaxima (guā - shē ' mā), n. [Tupi quaxima, quajima.] The name in Brazil of a malvaceous guajima.] The name in Brazil of a malvaceous plant, Urena lobata, yielding a nseful fiber. See *aramina, *Cæsar-wced and Urena.

guayaba (gwä-yä'bä), n. [Sp.] Same as quava. Also quayara.

guayacan (gwä-yä-kän'), n. [S. Amer. ?] The lignum-vitæ, Guaiacum officinale and G. sanctum.—2. In the southwestern United States and Mexico, a shrub or small tree, Porlicria angustifolia, closely related to the lignumvitæ.—3. In Argentina, a large leguminous tree, Casalpinia mclanocarpa, yielding a very hard, heavy wood which resembles lignum-vitæ except that it is of a reddish-black color. Its fruits are used for tanning and dyeing in the same manner as divi-divi.—4. In Panama, a

same manner as activació.—4. In Fanama, a bignoniaceous tree, Tecoma Guayacan.
guayava (gwä-yä'vä), n. Same as guara.
guayavi (gwä-yä'vē), n. [Native name.] In Argentina, a large tree of the borage family, Patagonula Americana. It yields a soft and easily worked useful wood.

guayavita (gwä-vä-vč'tä), n. [Sp. dimin. of guayava.] In Porto Rico, the bayberry, Pimenta racemosa (Caryophyllus racemosus of Miller), the leaves of which yield bay-oil, the source of bay-rum. See bayberry, 3, and guib (gwib), n. [See guiba.] The harnessed Pimenta2.

guayrote (gwī-rō'tā), n. [Porto Rican.] A tree of the family Sabiaccæ, Mcliosma obtusifolia, native to Porto Rico. It is generally distributed throughout the island and is valued for its wood, which is much used locally. Called also aquacatillo.
guazu (gwä-sö'), n. [Guarani guaçû, 'deer.']
The words door of South America (Moccileus

The marsh-deer of South America, Odocoilcus or Blastocerus campestris.

guazuti (gwä-sö-tē'), n. [Guarani guaçuti, 'deer of the field.'] The pampas-deer of South

gudok (gö-dők'), n. [Russ. gudókŭ.] A simple form of viol, used in Russia, having three strings, two of which serve only as drones.

guelder-rose, n.— Maple or maple-leaved guelder-rose, the maple-leaved arrow-wood, Fiburnum acerifolium.—Virginian guelder-rose, the ninebark, Opulaster oputifolius.

guard-pile (gärd'pīl). n. A pile driven in a guatucupa (gwä-tö-kö'pā), n. [Pg., from a guemul (gā-möl'), n. [Sp. guemul, from a S. waterway near and in front of a dock, pier, abutment, or other structure, for the purpose of protecting the latter from injury by ship
guard-pile (gärd'pīl). n. A pile driven in a guatucupa (gwä-tö-kö'pā), n. [Pg., from a guemul (gā-möl'), n. [Sp. guemul, from a S. Amer. native name.] A species of South American deer of medium size, usually placed in the genus Furcifer. There are two species, F. in the genus Furcifer. There are two species, F. chilensis and F. antisiensis, which range along the Andes from Peru to Patagonia. They are characterized by the antlers, which have a single fork, the front prong of which is the longer; by the presence of tusks in the upper jaw of both male and female; and by the unspotted coat of the fawn.

guenon (gwe-non'), n. [F.] A French name, very generally adopted as a book-name, for the old-world monkeys of the genus Cercopithecus.

guerepo (ge-rā'pō), n. [Mex.] An atherinoid fish, *Chirostoma grandocule*, found in Lake Pátzeuaro, Mexico.

guéridon (gã-rē-don'), n. [F., from the name of a character in a farce.] A small round table used for mounting vases or objects of art. Sometimes made in bronze or silver: usually with a single stem and tripod base.

Guernsey, n. 3. [cap.] A breed of dairy cattle, named from the island of Guernsey in the English Channel. It is slightly larger than

Engish Channel. It is signify larger than the Jersey, lacks the black markings about the face, and has the inside of the ear yellow. guerre de course (gar de körs'). [F. 'war of roving' (privateering).] Commerce-destroy-

guest-ant (gest'ant), n. An ant which lives as a guest in the colony of another species, as the European Formicoxenus nitidulus, which lives as a guest in the colonies of Formica rufa. Cambridge Nat. Hist., VI. 159.

guest-bee (gest'bē), n. A bee which lives as a guest or inquiline in the nests of another bee: thus the bees of the genus Psithyrus are guests in the nests of bumble-bees.

guestling (gest 'ling), n. [A perversion of guesting, with substitution of -ling for -ing1.] Formerly an annual assembly of the representatives of the corporation of the Cinque

guest-wasp (gest' wesp), n. A wasp of the family Masaridæ: so named by Comstock because it is supposed that all of the species of this family are inquilines.

guevarism (gā - vär ' izm), n. The euphnistic literary style which originated in imitation of that of the Spanish writer Antonio de Guevara (1490-1545).

At the close of Berner's 'Golden Boke' is a passage applauding the "swete style" of "the sentences of this booke." . . . Most probably this "envoy" in praise of Guevarism was written by Sir Francis Bryan.

S. L. Lee, in Athenænm, July 14, 1883, p. 50.

guevarist (gā-vār'ist), n. An imitator of the

literary style of Antonio de Guevara.

guglia (gö'lyä), n. [lt. guglia, orig. aguglia, a needle, an obelisk, etc., \langle ML acucula, L. acicula, a needle: see acicula, aiguille, aglet.] In Ital. arch., a decorative obelisk, or upright shaft, used as a monument.

Guiana chestnut. See *chestnut. Guiano-Brazilian (gē-ä"nō-bra-zil'ian), n. In zoogcog., a subregion proposed by Sclater which includes the greater part of South America, east of the forests of the Andes, between the Isthmus of Panama and lat. 30° S., as well as Trinidad.

antelope, Tragclaphus pictus.
Guichen shales. Seo *shale².

guide, n., 6. (e) pl. In an engine, the rods on which, or the surfaces between which, the cross-head of the piston

slides: usually called cross-head guides.

8. In surg.: (a) A filiform bougie passed through a stricture of the urethra or other canal, over which a tunneled sound of larger size is passed. See tunneled. (b) A sound, grooved in its convexity, which is passed through the urethra into the bladder and

'deer of the field.'] The pampas-deer of South America, Odocoicus or Blastocerus campestris, gubat (gö'bät), n. [Tagalog.] A forest. gubbin, n. 3. pl. [cap.] The almost wild inhabitants of Dartmoor, England.

Gubbio pottery. See *pottery. Gubernacular sac. Same as gubernacular. See *cord! — Gubernacular sac. Sudgeon', n. 4. Elcotris coxii, a gebieid fish of New South Wales.

gudde (gö-dök'), n. [Russ. gudóků l. A sim.]

ing directions to travelers, set up at points on the highway or in the woods where paths diverge.

guide-curve (gīd'kerv), n. Samo as *quide-

guide-fossil (gīd'fos"il), n. A fessil species regarded as specially characteristic of a given geological formation, horizon, or fauna; an index-fossil.

guide-iron (gūd'i 'ern). n. A piece of iron rod pelled by oars, used in former times to smug-gulonic (gū-lon'ik), a. [gul(ose) + -one + -ic.] which, having been bent to the contour of a curved pipe-pattern, is used as a guide by which the core-maker strickles up its core Lockwood. without the use of a core-box.

guide-lay (gid'lā), n. See *side-lay. guide-mill (gid'mil), n. A rolli: ruide-mill (gid mil), n. A rolling-mill in which the smaller sizes of irou or steel bars are rolled. It is fitted, in front of the passes, with guides, so that the billets or rods shall be presented correctly to the nip of the rolls.

guide-pin (gid'pin), n. 1. A pin that perthe process of printing, to guide the proper guinea-role (gin \tilde{e} -rol), n. See *rod1. the process of printing, to guide the proper guinea-violet (gin \tilde{e} -rol), n. See *violet1. placing of the sheet for following impressions on that paper.—2. One of a set of pins used to hold the hub and felly of a wheel in a concentric position while they are being worked. guide-plate (gid'plāt), n. 1. In textile manuf., an iron plate, perforated with holes, for guiding several ends of sliver through the drawing-frame. Nasmith, Cotton Spinning, p. 173.—2. A plate which holds the axle-box of a locomotive in position longitudinally, while permitting

it to slide up and down. guide-pulley, n. 2. In oval-turning, a pulley for driving the guide or model at the same speed as the blank which is being turned.

guide-ring (gid'ring). n. In ungling, a metal ring attached to a tishing-rod, through which the line runs.

guide-straight (gīd'strāt), n. In projective geom., any straight of one ruled system on a ruled surface with reference to another ruled system (of which it is said to be a guidestraight).

guide-wheel (gīd'hwēl), n. A wheel which is provided for the purpose of guiding a moving structure, rather than of supporting its weight; a pilot-wheel.

The boats are furnished with a hinged device at both ends and provided with guide-wheels to roll on, and at each side of the outer rail, so that they are kept at a proper distance from the track. Sci. Amer. Sup., April 18, 1903, p. 22214.

Guignardia (gwig-när'di-ä or gēn-yär'di-ä), n.

0

O SO

000

French botanist.] A genus of pyrenomyeetous fungi of the family Myof cosphærellaceæ. cosphærellaceæ. The perithecia are membranous and are embedded in the tissue of the host; the spores are ellipsoid or spin-dle-shaped and hyaline. The species are numerous occurrences. aline. The species are numerous, oc-eurring chiefly on leaves. The pychid-ial condition of some species is known to correapond to species of Phoma of the Fungi Imperfecti. G. Bidwellii causes one of Phono of the Fingi Imperfecti, G. Bid-welli causes one of the most destructive diseases ot the grape, known as black roat. See rot, 2 (b), and grape-rot, guild-tree(gild' trē), n. The European bar-

bar-European

berry, Berberis vulgaris, naturalized in the United States.

Guignardia Bidwellii.

Guillaume alloy. Same as *invar. guillotine, n. 4. A machine for breaking iron by means of a falling weight.

guillotine-shears (gil'o-ten-sherz), n. A heavy lype of shearing-machine: used principally for the cutting up of puddled bars and stabs ready for piling. The shears are similar to those of ordinary shearing-machines, but are parallel to the plane of machine framework instead of being set transversely. Lock-

Guilty ball. See *ball1. guinara (ge-na'ra), n. [Philippine Sp., from an undetermined native name.] In the Phil-ippine Islands, a rather coarse stiff cloth made from the fibers of Manila hemp. Gaz. Philip-

pine Is., 1902, p. xxxiv.

guinea, n. 4. An Italian. [Slang, eastern
U. S.]—Military guinea, the English golinea of 1813.

—Third of a guinea, an English gold coin, of the value
of seven shillings, struck in the time of George III. guinea-boat (gin'ē-bēt), n. A fast galley, progle gold across the English Channel.

guinea-fowl, n.—Guinea-fowi wood, either one of two small trees of the family Myrsinacce, Badula Bar-thesia and B. insularis, natives of Mauritins: so called from the glandular punctate leaves and dotted flower guinea-keet (gin 'ē-kēt), n. A guinea-hen. [Southern U. S.]

guinea-pig, n. 4†. A junior midshipman in the East India service.—Abyssinian guinea-pig, a fanciers name for a rough-coated breed somewhat larger than the ordinary guinea-pig.—Peruvian guinea-pig, a modern breed with long, silky hair.

Guipure d'art, linen net upon which are worked raised patterns.—Guipure de Flanders, a pillow-lace of the guipure-lace order, ornamented with floral designs con-nected by bars and brides.

guisaro (gē-sä'rō), n. [Native name.] In Central America, a tree of the myrtle family, Psid-ium molle, related to the guava. It bears small, acid fruits having the flavor of strawberries.

guitar-fiddle (gi-tär'fid"l). n. An early form of viol, preceding the violin, the body of which was flat like that of a guitar. It had five strings, of which the two highest were usually tuned in unison.

guitar-fish (gi-tär'fish), n. A shark-like ray of the family Rhinobatida, inhabiting warm seas; specifically, Rhinobatus productus.

guitar-plant (gi-tär'plant), n. Tricondylus tinctorius, a small Tasmanian shrub of the family Proteaceæ, often enltivated for its ornamental foliage. The mealy dust which clothes the seeds yields a rose-colored dye when infused in water.

guitarro (gē-tār'rē), n. [Sp., \(\) guitarra, a guitar.] The Spanish name of Rhinobatus percellens and of other species of guitar-fish.

guitar-violoncello (gi-tar'vē"ē-lon-chel'ē), n.

Same as *arpeggione.
gulash (gö'lash), n. [Also goulash, goulasch,
etc., < Hung, gulyas-hús, lit. 'shepherd's meat'; gulyas, shepherd, herdsman (\(gulya, herd \); hús,

fuignardia (gwig-när'di-ä or gēn-yär'di-ä), n. [SL. (Viala and Ravaz, 1892), named for guldan (gùl'dän), n. [Pers. *guldān, < gul, flower, rose, + dān, holding.] A Persian flowervase, one form of which is provided with several tubes arranged around the central open-

gulden, n.—Gold-gulden, a gold florin current in Germany and the Low Countries from the fifteenth to the eighteenth century.—St. Andries gulden, a gold coin of the count of Holland in the fifteenth century.—St. Maartens gulden, a gold piece struck by the bishops of Utrecht in the fifteenth century.

11. of Gulik (so linear)

gulix (gū'liks), n. [Pl. of Gulik (sc. linens), so called from D. Gulik, G. Jülich (F. Juliers), a town in Prussia.] A linen fabric of fine texture used for shirts.

gull², n.—Franklin's gull, Larus franklini, a small species which has, in the breeding plumage, a hood of dull black encircling the head and upper neck, and the blue of the back darker than in Bonapartes gull. It is about 14 inches long and 35 in apread of wing. Abundant in the central and western United States.

gulleter (gul'et-er), n. In angling, a tool for extracting a fish-hook from a fish's gullet.

gullet-tooth (gul'et-töth), n. In a circular saw having inserted teeth, a single tooth adapted to a gullet-saw blade. See gullet-saw.

gull-grass (gul'gras), n. The goose-grass, Galium Aparine.
gully¹, n. 3. A eatch-basin.

gully-drain (gul'i-dran), n. A pipe or drain which extends from a street drainage catch-

basin, catch-pit, or gully. gully-drainage (gul'i-drã″nāj), n. The drainage-water, sewage, or other refuse water passing through a gully.

gully-raker (gul'i-rā/ker), n. 1. A long whip. As the day wore on, they overtook bullock-drays lurching along heavily, . . . the driver appealing occasionally to some bullock or other by name, following up his admonition by a sweeping cut of his "gully-raker," and a report like a musket-shot.

A. C. Grant, Bush-Life in Queensland, I. 40.

2. A cattle-thief. [Australian slang in both senses.]

gully-root (gul'i-röt), n. In the West Indies, roots of the guinea-hen weed, Petiveria alliacca, which are used locally as medicine. See Petiveria.

gully-squall (gul'i-skwâl), n. A violent wind of short duration, from the mountain ravines of tropical America, sometimes experienced in the Pacific Ocean.

guloc (gö'lok), n. Same as machetc. Also golok.

Related to gulose.—Gulonic acid, a colorless compound, $C_6H_{12}O_7$, isomeric with dextronic acid. It passes very rapidly into its anhydrid, $C_6H_{12}O_6$.

gulose (gū'lōs), n. [Formation not ascertained.] A colorless syrupy sugar, C₆H₁₂O₆, unfermentable by beer-yeast. It is produced by the reduction of gulonie acid.

gulper (gul 'pėr), n. A deep-sea eel, Saccopharynx ampullaceus, and other species of the



Gulper (Saccopharynx ampullaceus). (From Bulletin 47, U. S. Nat. Museum.)

family Saccopharyngidæ, remarkable for the extraordinary extension of the gape.

gulpin (gul'pin), n. [Perhaps orig. *gulp-in, one who would 'gulp in' or swallow anything told him.] One who swallows without question whatever he hears; a simpleton or credulous person; among sailors a 'marine.'

one who would 'gulp in' or swallow anything told him.] One who swallows without question whatever he hears; a simpleton or credulous person; among sailors a 'marine.'

"gulm2', m-Alk gum, Same as Chien turpentine. See Chien.—Amrad gum, a white, yellow, or brown substitute for gum arabic obtained from the Abyssinian highlands, probably derived from Acacia scorpiodes. It has a sweetish taste and a resinous smell.—Animal gum, a complex organic substance, obtained from mucin, which on decomposition yields a carbohydrate that is not fermentable but reduces metallic oxids. It was discovered by Landwhr. The supposed formulais (CAH10Ch2)—Artificial gum. Same as dextrine.—Babul gum, a crude gum arabic obtained from Acacia scorpiodes. Also called Bengal gum and Gond babul.—Bauhinia retusa gum, same as Bauhinia variegata yum, a Bauhinia variegata gum, a gum which resembles Indian gum arabic but is not very athesive.—Beet-root gum, a gum separated from the juice of the beet-root: it forms a jeily with water.—Botany Bay gum. (b) Eucalpytus resinifera. See ironbark-tree.—Brittlegum, the brittle, white gum exuded by Acacia albide of North Africa.—Brown gum, Eucalpytus robusta.—Buchanania latifolia gum, a lead resident albide of North Africa.—Brown gum, Eucalpytus robusta.—Buchanania latifolia gum, a lead resident albide of North Africa.—Brown gum, a brittle whitish resin obtained from acacia. It is used in the arts.—Gum archipin, a name applied in Mexico to several gum-resins derived from species of Terebinthus, See *exanjote, 2.—Gum asphaltum.—See *exaptathus.—See *exaptathus.—See *exaptathus.—See myrrh, 1.—Irish-moss gum, the characteristic gum from Irish moss, Chondrus criepus.—Lactic fermentationgum Sameas dextran.—Lelo gum, a rosated potato starch.—Manila gum, a resin of unknown botanical origin, resembling copal and dammar, souble for the most part in alcohol and readily fusible: used in making insulating varnishes.—Manila gum, a fee of the myrthe family. See *exaptore, 2.—Gum asphaltum.—See redum and sevanty-sum, see s

gümbelite (gim'bel-ite), n. [Named after C. W. Gümbel. a German geologist.] A glittering greenish-white silicate of aluminium, iron, and minocarbonaceous film of the graptolites.

may be an impure pyrophyllite.

gumbol, n. 4. A type of soil in the southern and western United States which forms a tough, dark-colored mass in a high degree plastic and clay-like, yet sometimes consisting chiefly of silt or very fine sand. It is very sticky and difficult to till when wet, and when dry breaks difficult to till when wet, and when dry breaks into hard cuboidal lumps. See *gumbo elay.—
Gumbo clay, a clay which resembles the gumbo of the Mississippi valley, a stratified boulder-clay of the lower till. From the known characters of this material, the term is less precisely applied to any dense, massive, or stratified clay of marked plasticity, especially those forming the subsoil layers of many farming districts.

gum-box (gum'boks), n. In southern Chile, Escallonia macrautha, an aromatic evergreen chrub with resipones dutted simple legyes and

shrub with resinous-dotted simple leaves and red flowers. An infusion is made from the leaves and flowers which is administered as a tonic and enumenagogue, and a balm is made with oil for dressing wounds. Also called siete-caminas.

gum-digger (gum'dig"er), n. A person engaged in digging fossil resin of the kauri pine, which is used in the manufacture of varnish. [New Zealand.

gum-disease (gum'di-zēz"). n. A disease of the bark of orange-trees. See *gummosis, 2. gum-field (gum'fēld), n. In New Zealand, an

area where kauri-gum may be found.

gum-flower (gum' flou " er), n. An artificial flower. [Seotch.] gum-flux (gum'fluks), n. Same as *gummosis, 2.

gumi (gö'mi), n. [Jap.] The Japanese name of Elæagnus longipes, a bush that is now cultivated in the United States, prized both for its ornamental character and for the edible eranberry-like fruits.

gum-lancet (gum'lan"set), n. An instrument for incising the gum over a tooth, or for pushing back the gum so as to free the neck of a tooth about to be extracted. See lancet.

gumma-bush (gum'ä-bush), n. [West Indian negro gumma, supposed to be of African origin, + bush1.] The black nightshade, Solanum nigrum, which is used as a pot-herb by the negroes.

gummer, n. 2. A workman whose business it is to use the gummer in widening the spaces be-

tween the teeth of a saw.

gummic (gum'ik), a. [NL. *gummieus, < L.
gummi, gum.] Pertaining to or derived from gum or gummie acid.—Gummic acid. Same as arabin.

gummose¹ (gum'ōs). a. [NL.*gummosus, < L. gummi, gummus, gum: see gum, a.] Gummy; gummatous.

gummose2 (gum'os), n. [gum + chem.-osc.] An unfermentable reducing sugar, produced by the hydrolysis of mucin.

gummosis, n. 2. An abnormal production and flow of gum from cracks or wounds of trees. Apricots, cherries, and plums are especially subject to this disease. Fungl and bacteria are frequently found in the affected tissues and gum and are believed by some authors to be the cause of the pathological conditions. Also called gum-flux and gum-disease.

gum-shoe (gum'shö), n. A shoe made of gum, that is, india-rubber; a rubber overshoe. [Colloq., U. S.]

gum-shrub (gum'shrub), n. In St. Helena. Commidendrum rugosum, one of the shrubs there called gum-wood. See scrubwood and gum-wood, 2.

gum-succory (gum'suk"ō-ri), n. See succory. gum-sucker (gum'suk'ér), n. A person of European descent born in the Colony of Victoria, in Australia. [Australia; now rare.]

gum-swamp (gum'swomp), n. In the southeastern United States, a swamp, or more commonly an area in a large swamp, in which the black-gum or sour-gum, Nyssa sylvatica, or any other species of Nyssa, is the dominant tree. In the Dismal Swamp these areas are distinguished from the juniper-swamps.

gum-thistle (gum'this"l), n. A spiny, eactus-like plant of Morocco, Euphorbia resinifera, which yields an acrid, poisonous gum-resin, and is often seen in cultivation. See euphorbium, 1, and cut at Euphorbia, 1.

gum-tooth (gum'töth), n. A molar tooth. gum-wax (gum'waks), n. The balsamie exudate from the sweet gum, Liquidambar Styraeiflua.

gum-weed (gum'wēd), n. 1. The gum-plant. Grindelia (which see; also *Grindelia).—2. A weed of the Great Plains, Lygodesmia juneea, of the Cichoriacew. It is a rigid, branching, gun1, v. II. trans. In forestry, to aim (a tree)

potassium, not infrequently replacing the bitu- skeleton-like plant with most of the leaves very small or reduced to scales.

gun¹, n. 7. A professional criminal; a thief;

a pickpocket. [Thieves' cant.]

No one knows absolutely how many guns there are in New York; the Front office itself could not tell for a certainty the number of first-class thieves who are on the streets at this moment; but it is a generally accepted fact among the guns themselves that every day in the week there are enough grafters in the city to people a good-sized county-seat. McClure's Mag., XVI. 571, 572.

week there are enough grafters in the city to people a good-sized county-seat. McClure's May., XVI. 571, 572.

Automatic gun, a gun, generally of small-arms caliber, in which the recoil of the pressure of the powder-gases may be utilized, after the first round (by actuating the proper lever), to perform continuously all the operations of loading, firing, and ejecting the cartridge-case. The cartridges are fed from belts, and very great rapidity of aimed fire may be attained. See pompom.—Barisal guns, a mysterious booting noise, as of a distant cannon, heard off the coast near Barisal, India, the nature of which is not yet clearly understood. Similar noises off the coast of Holland are there known as mistpouffers. In both places they occur in foggy weather. Analogous sounds are often reported from the coasts of Nova Scotia, New Brunswick, and Florida, and from Seneca Lake, New York, where they are known as the Seneca Lake guns. Various plausible explanations have been suggested, but nothing has as yet been demonstrated.—Bofors guns, a gun of Swedish manufacture, built up of steel castings, having a breech-unchanism and mounted on a carriage of such design that the action may be semi-automatic.—Built-up gun. See gun1. The largest piece is the central tube, which extends throughout the length of the gun. Upon this tube is shrunk a series of jackets and hoops, the most important one of which is the jacket that covers the rear part of the tube from a third to half its length. In modern guns, the threads for the breech-plug are cut in this jacket. The number of hoops and jackets varies with the size and type of gun.—Canet gun, a gun manufactured in France on the system of M. Canet. It does not differ materially from other built-up guns, but, with its special mounting, is designed to give high initial velocity and rapid fire.—Converted gun, a muzzle-loading gun.—Creusot gun, a gun manufactures built-up guns of all calibers for any service.—Crozier wire-wound gun, a gun composed of a heavy tube wrapped with steel wire. non built up by forcing on thin rings under pressure.—

Gathmann gun, a comparatively short camon of large caliber, specially designed for firing the Gathmann projectile, which is filled with guncotton as a bursting-charge.—Gun down, in trap-shooting, said of a gun when it is held in such a position that the butt is below the shooter's elbow.

Shooting to begin at 2 P. M. sharp. First eup, 25 birds, handicap, "gun down."

Forest and Stream, Jan. 24, 1903, p. 79.

Hooped gun, a gun in which the central tube or barrel is reinforced by hoops shrunk on the outside.—Hotchkiss gun, a gun manufactured at the Hotchkiss gun, a gun manufactured at the Hotchkiss gun, a gun manufactured to the Hotchkiss gun, a gun manufactured to the Hotchkiss works in St. Denis, France; especially, a revolving cannon, and also the mountain-or field-gun of this manufacture. See machine-gun, mountain-artillery, under artillery, and field-gun.—Lancaster gun, a piece of ordnance, patented in the year ts50, having an elliptical bore and increasing twist. It proved to be a failure, since the projectile exerted a wedging action.—Life-line gun, a gun about the size and pattern of a cavalry carbine, used to throw a life-line to the top of a burning building to save life imperied there.—Maxim gun. See machine-gun.—Naval gun, a cannon mounted on board a war-ship or used by the maval forces of a country.—Nordenfelt gun. See machine-gun.—Rapid-fire gun, a breech-loading gun of from 1½ to 8 linches caliber which uses metallic ammunition. Each type is designated by the name of the inventor of the breech-loading system used, as the Gerdon, Fletcher, Seabury, Dashiel, Canet, Schneider, Armstrong, Driggs-Schroder, Maxim-Nordenfelt, Hotchkiss, Gruson, and others.—Semi-automatic gun, a cannon of small caliber in which the recoil may be utilized to open the breech, thus saving the time necessary to perform this operation by hand and permitting more rapid liting.—Seneca Lake guns. See Barisal *µnns.—Sims-Dudley pneumatic gun, a powder pneumatic gun, the best-known form of which consists of three parallel tubes, of which the center one is much longer than the other two. Both the center one is much longer than the other two. which the center one is much longer than the other two. Both the center and right-hand tubes open at the breech, the former for the introduction of the projectile and the latter for the powder charge. In action, the powder is exploded in the right barrel and the gases pass to its front end, then across to the left barrel, and are finally admitted behind the projectile in the center barrel, mixed with the air in the two side barrels which has been compressed by the process. Shelfs containing sensitive high explosives can thus be discharged without sufficient shock to cause explosion.—Snbcaliber gun, a small cannon generally about 1½ to 3 inches in caliber, placed axially in the chamber of a cannon of large caliber to be fired in target-practice. The arrangement is such that the breechmechanism of the large gun is operated, and the object of its use is to permit considerable practice without the great expense and wear attending the firing of the large cannon. Also, a small-arms barrel placed, for the same purpose, in the chamber of a field- or siege-gun.—To lay a gun, to give a gun the proper elevation and direction to nit an object; aim or point.—Under the gun, in poker, said of the first man to bet—the player immediately to the left of the age.—Vickers-Maxim mountain-gun a mountain-gun of medium power, easily dismounted and having a well-designed pack outfit for gun, earriage, and ammunition.

gun¹, v. II. trans. In forestry, to aim (a tree)

in felling it. In the case of very large, brittle trees, such as the redwood, a sighting device, called a gunningstick, is used.

2. In the Sankhya philos. of India, guna, n. one of the three constituents of the primal matter out of which the world is evolved. See the extract.

The originator of the Sānkhya doctrine believed that he recognized in the world of matter three substances or constituents (yunas, usually, and very erroneously, rendered by "qualities"), unequal, and mingled in varying proportions: of which the first exhibits the characteristics of lightness, of light, and of delighting; the second, those of mobility, of excitation, and of pain-giving; the third, those of heaviness, of obstruction, and of stupefaction. . . The undeveloped primeval matter is accordingly the condition of equilibrium of the three yunas.

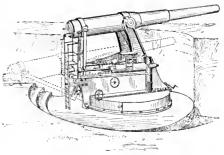
Rearbhe, Sānkhya, in Univ. Cyc., VII. 297.

gun-bed (gun'bed), n. In ordnance, the platform or wood planking on a deck which sup-

ports a gun-mount.

gun-bright (gun'brit), n. The common scouring-rush, Equisetum hyemale, used in polishing guns.

gun-carriage, n.—Disappearing gun-carriage, a gun-carriage so arranged that the gun after being fired descends, under the influence of the force of recoil, to the loading position behind the protection of the parapet, where it can be manœuvered without exposing the gun detachment to the enemy's fire. During the recoil of the where it can be manustreed without exposing the gun detachment to the enemy's fire. During the recoil of the gun sufficient energy is stored up, by means of a counterweight or by air-compression, to raise the gun to firing position when released. The Buffington-Crozier disappearing gun-carriage has been adopted for the sea-coast



Disappearing Gun-carriage with Gun in Firing Position. Loading position shown in dotted outline,

service of the United States. The gun is mounted upon levers trunnioned in a top carriage which rolls back under the force of recoil. The lower ends of the levers are compelled to move between vertical guides and taise a compelled to move between vertical guides and taise a counterweight. The constrained notion on two lines approximately perpendicular to each other, thus causing the gun to describe an arc of an ellipse in recoiling, is the mechanical principle of the carriage.—Hydraulic-recoil gun-carriage, in ordnance, one in which the recoil of the gun, when fired, is gradually resisted by pistons in cylinders filled with liquid. See *jun-mount.

gun-case (gun'kās), n. A covering for pro-tecting a gun, generally of cloth or leather: sometimes provided with a handle for carrying the gun when it is not to be used.

gunda (gun'da), n. [Hind. ganda, gunda, Beng. ganda]. A copper coin of Bengal of the value of 4 cowries, or one twentieth of an anna.

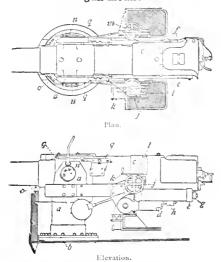
gun-fence (gun'feus), n. See fence. gun-fire, n. 2. The discharge of small arms or cannon.

gun-layer (gun'la"er), n. One who lays or aims a gun; gun-pointer. [Eng.]

Expert gun-layers and well-drilled detachments are thus of cardinal importance. Encyc. Brit., XXVIII. 453.

gun-money (gnn'mun"i), n. 2. Prize-money, reckoned at so much per gun, given to the captors of an enemy's ship of war that had been destroyed or deserted in fight. Admiral Smyth, Sailor's Word-book.

In ordnance, the gun-mount (gun'mount), n. ensemble of the mechanism, placed on a plat-form or deck, or in a turret, by which a gun ensemble of the mechanism, placed on a platform or deck, or in a turret, by which a gin
is supported and manipulated. In a modern deckmount, the principal parts are the pedestal or stand and
the top-mount or earriage. The pedestal or stand is the
lower fixed part, permanently bolled to the platform or
deck. Upon it the top-carriage turns on a vertical axis
to train the gun. The top-carriage includes the guncradle or -saddle and the sleeve. The sleeve has trumnions
forming a horizontal axis by which it is supported in the
saddle, and the gun carried in the sleeve can be elevated
or depressed by the elevating gear which connects the
sleeve to the saddle. The sleeve carries the hydraulic
recoil-cylinders, which check the recoil of the gun through
the sleeve when fired, and the springs, which return the
gun to its normal position in the sleeve. In a turretmount, the turret support or foundation on which it rotates replaces the pedestal; the turret itself, with its gungirders, is equivalent to the saddle. Attached to the
girders are heavy steel castings, called deck-turs, which
are equivalent to the upper parts of the saddle. They have
in their upper parts trunnion-bearings to receive the trunnions on the sleeve which carries the gun. The sleeve is
of the same general character as that of a deck-mount



Elevation.

Central Pivot Gun-mount for 6-inch Rapid-fire Gun.

a, top-carriage saddle; b, pedestal or pivot (the only part of the pedestal showing in the cut is the deck-dauge, the remainder being in the interior of the top-carriage; c, cylindical sleeve; d, hydraulic recoil-cylinder; c, f, spring return-cylinders; g, projecting arm by which gun is attached to spring return-ods; b, projecting arm by which gun is attached to recoil-cylinder piston-rod; f, hand-wheel for elevating gear; k, hand-wheel for training gear; k, shoulder-piece; m, auxiliary training-wheel; n, n, trunnion bearings; o, gun-shield; q, q, gun-sights.

described above. (See cut under *turret.) The rapid progress of invention in guns and gun-mounts has resulted in a large number of types, and uncertainty and variety in the nomenclature of the parts.

gunnage, n. 2. Same as *gun-money, 2. gunnarite (gun'ar-īt), n. [Gunnar, a Swedish name, + -ite².] An iron-nickel sulphid, perhaps 3FeS_{2.2}NiS, occurring with pyrrhotite in Sweden.

gunnel² (gun'l), n. [gunnel¹, n.] A name of the elongate blennies, found on the rocky coasts of the North Atlantic and North Pacific, belonging to the genus *Pholis*. The best-known of these

Gunnellops (guu'e-lops), n. [NL., ζ Gunnellus, + Gr. ωψ (ωπ-), eyc, face.] A genus of blennies, small fishes allied to Pholis, found in the North Pacific.

North Pacific.

Gunner's daughter, a name formerly given to the broadside gun to which offenders were seemed before being lashed or otherwise punished.—To marry the gunner's daughter, to be bound to the 'gunner's daughter.'—Gunner's gang, the gunner and his mates whose duty it is to keep the guns and mounts clean san in good order.—Gunner's tallor (naut.), formerly, the man who made the cartridge-bags for the guns.—Master gunner, one of the warrant-officers in the British service.

Gunning.stick (gun'ing.stik) a A stick used

gunning-stick (gun'ing-stik), n. A stick used in guiding the fall of a tree. See $\star gun^1$, v.t.

gunny-sack (gnn'i-sak), n.

gun-pointer (gun'poin ter), n. of a guil's crew whose duty to is to keep the gain pointed at the target and to fire it. In modern methods of gun practice, the pointer keeps his eye continuously at the sight and manipulates the training and elevating gear to keep the gun continuously aimed at the target notwithstanding the rolling of the vessel.

target notwithstanding the rolling of the vessel.

gunpowder, n.—Smokeless gunpowder, a substitute for gunpowder which gives off little or no smoke when discharged in a gun and develops increased velocity in the projectile without increased pressure in the gun. It consists in general of an oxidizing agent and a substance added to regulate the explosive force. This latter is technically called a deterrent. Smokeless powders are classified according to the oxidizer used: (1) Pieric-acid powders (these are not generally stable); (2) ammonium-nitrate powders (these are highly hygroscopie); (3) guncotton powders; (4) nitroglycerin and guncotton powders. The first two classes have practically been abandoned. Smokeless powders are designated from their appearance, the name of the inventor, or arbitrarily, as cordite, Peyton, poudre E., etc.

gunpowder-engine (gun'pou-dér-en'in). n.

gunpowder-engine (gun'pou-der-en/jin). An internal-combustion motor of early design in which the fuel to supply heat and expand the air in the mixture behind the workingpiston came from a charge of gunpowder introduced at each stroke behind the piston and fired. It was noisy and impossible to regulate closely, and the sudden shocks from the explosion of the power made frequent repair necessary. The gasification of the solid material in the gunpowder produced high pressurea from small quantities of powder.

 ${\tt gunpowder-hammer}\,({\tt gun'pou-der-ham''er}),\,n.$ A device for driving piles by exploding gun-powder on top of a piston on whose rod is attached a hammer-head or tup, which is thus driven downward against the top of the pile with great force.

gun-sen (gön'sen"), n. [Jap.] In Japan, a large iron-framed folding fan used for signaling and as a weapon of defense.

gun-shield (gun'sheld), n. In ordnance, an armored shield attached to and turning with the gutta-band (gut's-band), n. In Greco-Rom. top-carriage of a gun: designed to protect the mechanism and the gun's erew. Such shields are of varied size and shape, in some cases approaching the dimensions of a turret, except that the shield is relatively of thinner armor and is open at the back. See cut under shield, 2 (a).

gun-sight (gun'sit), n. The rear sight of a small arm or cannon, marked with graduations corresponding to various ranges. See sight1,

gun-spaniel (guu'span yel), n. A spaniel used in the field in shooting game.

Gun-stock deformity. See *deformity. gunter (gun'tter), n. Same as Gunter's scale (which see, under scale³).—According to Gunter.

gunyah (gön'yä), n. [Aboriginal Australian.] A shelter of the native Australians; a hut of any kind. Compare *goondie.

gurjunic (gér-jö'nik), a. [gurjun+ie.] Of or pertaining to gurjun resin.—Gurjunic acid, a crystalline acid, C₄₄H₆₈O₈, from gurjun resin.
gurnard, n.—Bearded gurnard, Mullus bārbatus, a fish of the family Mulliar, found in European waters.—Red gurnard, the European species of gurnard or sea-



Striped Gurnard (Prionotus evolans). (From Bulletin 47, U. S. Nat. Museum.)

robin, Trigla cuculus.—Striped gurnard, or sea-robin, Prionotus evolans, a trigloid fish found on the South Atlantic coast of the United States. Also called sea-robin.—Tub gurnard, Trigla birundo, a gurnard found on the coast of Europe.
gurnet¹, n. 2. In Australia, the fish Centrop-

ogon scorpænoides, of the family Scorpænidæ.
—Flying gurnet, Chelidonichthys polyommata, found on all the Australian coasts from New South Wales to Western Australia. It has large pectoral fins, but cannot support itself in the air like the flying-fish.

gurolite (jur'ō-līt), n. Same as gyrolite. gusle (gös'le), n. [Servian gusle, Bohem. housle,

=Russ. gusli, a fiddle, violin, (OBulg. gandan, gunny-sack (gnn'i-sak), n. Same as gunny-bag (which see, under gunny).
gun-pointer (gun'poin*ter), n. The member of a gun's crew whose duty it is to keep the gun pointed at the target and to fire it.

Gun's gunt, a nume, violin, Cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian viol having only one string; a form of rebab.

Gusting gunty-sack (gnn'i-sak), n. The member guitar, etc.] A Servian violin, Cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc. (\sqrt{gond} -), play on the guitar, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc.] A Servian violin, cobing, gandan, gansti, Russ, gusti, etc.] A Servian violin, cobing, gandan, gansti, gansti

Russian zither.

gusset, n., (h) In iron shipbuilding, a piece of plate of triangular form reinforcing on one side the junction of a part which meets another angularly, the gusset-plate being approximately normal to the line of the joint between the parts. See cut under ★bracket¹, 9 (b).

gusset-needle (gus'et-ne"dl), n. In knitting,

a needle used for inserting a gusset, as that iu a stocking.

gusset-plate (gus'et-plat), n. A triangular metal plate used to join two or more pieces where they meet and form a corner or panel-

point in a truss; a gusset-stay. R. H. Thurston, The Steam-boiler, p. 415. gusset-stay (gus'et-stā), n. A triangular plate having a flange turned on two sides, which is used as a bracket-stay in the corners of a steam-boiler.

Gustatory center, image. See *center1, \star image.

gusto, n. 2. Artistie 'style' or 'taste': as the grand gusto (It. il gran gusto), the grand style.

Gutenstein limestone. See *limestone. gut-hook (gut'huk), n. A hook, made by bending a piece of wire, used for joining small round belts, as on a sewing-machine.

gutta, n.—Guttæ Anglicanæ ('English dropa'), a preparation, composed chiefly of ammonia and alcohol, formerly employed as a cerebral stimulant.—Gutta rosacea, in pathot., same as acne rosacea. See acne.

gutta², n. 2. A colorless pulverulent compound, $\mathrm{C_{10}H_{16}}$, contained in gutta-percha. It begins to melt at 180° C., and loses its flexibility on exposure to air and light.—Gutta merah (Malay getah merah, 'nice gutta'), a trade-name for one of the commercial grades of gutta-percha. Elect. World and Engin., March 14, 1903, p. 449.

gutta-band (gut'\(\beta\)-band), n. in Greco-Rom, urch., same as regula, 2. guttajoolatong (gut'\(\beta\)-j\(\beta\)-j\(\beta\)-j\(\beta\)-j\(\beta\)-j\(\beta\), n. [Prop. \(^*\)gutta-jelatong, \(^*\)Malay getah, gutta, \(^+\)jel\(^\beta\)-tang, stinging nettle.] The concrete latex obtained from any one of several Malayan trees of the genus \(^D\)yera of the dogbane family, especially \(^D\). \(^{\}\)eostulatu. It is an inelastic, creamy-white substance which somewhat resembles gutta-percha, and is imported in large quantities into the United States for mixing with other ingredients in the manufacture of low-grade rubber-goods. Called also jelatong and pontianak.

Importations of "gutta-joolatong," a product of India, which is used in certain industries as a substitute for india rubber, now average more than a million pounds a month.

Elect. World and Engin., June 18, 1904, p. 1150.

gutta-milk (gut'ä-milk), n. The freshly exuded milky juice of Isonandra gutta, which on drying forms the valuable substance gutta-percha. Sci. Amer. Sup., Feb. 28, 1903, p.

any kind. Compare *goondie.
gunyang (gön'yang), n. [Aboriginal Anstralian.] The native name of the kangaroo-apple,
Solamam aviculare.
gurah, n. See *gora.
gurahen, n. Same as *buranhem.
gurgeon-stopper (ger'jon-stop"er), n. See
stonner. 3.

22707.
gutta-percha, n. 2. In geol., an exceedingly
fine, laminated glacial elay. [Scotlaud.]
guttatim (gu-tâ'tim), n. [L. guttatim, < gutta,
a drop.] Drop by drop.
gutter!, n. 9. In turpentine-making, one of
two thin bent strips of metal which are intwo thin bent strips of metal which are inserted in gashes cut into the face of a tree and

served in gashes cut into the face of a tree and serve to conduct resin into a cup.—Parallel gutter, a gutter specially built with accurately parallel sides, as distinguished from a fillet gutter or valley gutter.—Parapet gutter, a gutter raised upon the surface of a sloping roof near its lower edge, and usually composed of the flashing turned up against the parapet wall beyond.—Seminal gutter, in certain earthworms, a groove which connects the two openings of the spermiducal glands on each side of the body.—Valley gutter, a gutter produced by the metal flashing of the valley in a roof. Where the run of water is very great this flashing may be hollowed into a decided channel.

"utter-drift" (gut' er-drift) a Same as gut-

gutter-drift (gut'èr-drift), n. Same as gut-

gutter-fillet (gut'er-fil"et), n. A cove made by flashing, as where a chimney breaks the slope of a roof and the flashing is turned up to throw the water away from the masonry.

gutterman (gut'èr-man), n. Same as swamper. gutter-member (gut'ér-mem bèr), n. The architectural feature made by the decorative treatment of the front or outer edge of the roof-gutter: prominent in the design in the Dorie style and in some modern styles.

gutter-plane (gut'er-plan), n. A grooved plaue with a rounded iron which cuts a smooth, hollow molding.

gutter-tile (gut'er-til), n. A tile, usually of

pottery, bent to a half-eirele or nearly so. Such tiles can be used with the concave aide up, forming gutters, or with the convex side up, forming ridges.

gutter-tongs (gut'er-tôngz), n. A variety of roofing-tougs used in forming the gutters of a

gutter-tree (gut'èr-trē), n. 1. Same as gaiter-tree.—2. The red-osier dogwood or kinnikinick, Cornus stolonifera.

guttery (gut'èr-i), n.; pl. gutteries (-iz). [gut + -cry.] A place where fish are gutted. gut-tie (gut'tī), n. 1. A condition of cattle in which a loop or knuckle of intestine enters a tear in the peritoneum and is held between the remains of the spermatic cord and the anterior margin of the hip-bone, causing obstruction to the passage of excrement and exciting an inflammation which terminates in gaugrene and death. Also called peritoneal hernia. U.S. Dept. Agr., Rep. on Diseases of the Horse, 1903, p. 56.—2. The twisting or knotting of the bowels of animals, eausing severe colicky pains. Same as volvulus in man.

Guttural pouch. See *pouch.
gutturalism (gut'u-ral-izm), n. [guttural + -ism.] Guttural quality or character.

There existed of old in the language a group of words beginning with wh and wr; such as whale, wharf, . . . wrath. . . The contagion of these examples spread to words beginning with H or R simple, and the movement was perhaps aided . . . by the desire to reassert the languishing gutturalism of H and . . . of R Earle, Philol. Eng. Tongue, ¶ 166.

gutturalize, v. t. 2. To impart a guttursl character to; render guttural: as, to gutturalize a vowel.

gutturolabial (gnt/u-rō-lā'bi-al), a. and n. I. a. Pertaining to or produced by both the throat and the lips.

II. n. A sound produced in this way.

gutturonasal (gut"n-rē-nā'zal), a. Belonging to both the throat and the nose

gutturopalatine (gut"u-ro-pal'a-tin), a. Belonging to both the throat and the palate. gutturosibilant (gut "u-rō-sib'i-lant), a. and n.

I. a. Belonging to the throat, but sibilant. II. n. A sound which possesses that characteristic.

gutty² (gut'i), n. [A diminutized form of gutta-percha.] In golf, the gutta-percha ball. [Slang.]

gut-weed (gut'wed), n. The corn sow-thistle,

Sonchus arvensis.

guvacine (gö'va-sin), n. A monacid alkaloid, $C_6H_9NO_3$, from the areca-nut. It is deposited in small lustrous crystals which melt at 271–

guvern, guverness, etc. Simplified spellings

of govern, governess, etc.

guy¹, n.—Jib-boom guys, ropes which steady the jib-boom sidewise. They lead from the outboard end of the spar to the bows of the vessel, where they are set up.—Lower-boom guys, ropes used for steadying the swinging-hoom.—Spanker-boom guy, a rope for steadying the spanker-boom when running before the wind, so that the spar may not swing inboard when the vessel rolls deeply to windward.

guy-belly (gi'bel'i), n. Naut., a rope that supports the middle part of a derrick or sheer-leg. guy-chain (gi'chan), n. A chain used as a tension-brace or -guy instead of the customary

rope.

guy-crane (gī'krān), n. A derrick; a crane which is held upright by tension-braces or guys. guy-peg (gi'peg), n. A peg, usually of wood but sometimes of metal, to which the tensionbrace or -guy of a derrick, tent, etc., is made fast.

guy-rings (gī'ringz), n. Naut., the iron rings of the head-block on a derrick-mast, to which

the guy-ropes are secured.

guy-rod (gi'rod), n. A tension-brace or -stay made from a rod instead of rope, as is customary.

Guy-rods are 8 ft. x § in., provided with an eye at one end, threaded 2 in. at the other, each fitted with two nuts and one washer, and all are of wrought iron or mild steel.

Elect. World and Engin., Oct. 31, 1903, p. 711.

guz (guz), n. [Also gaz and gudge; < Hind. gaz, an iron bar, a ramrod, a yard-measure, a foot-rule, etc.; Hind. desi gaz, the 'native yard' (33 inches), lambari gaz, the 'standard yard' (36 inches); Pers. gaz, an ell.] A measure of length used in Hindustan and Arabia, equal to about 27 inches in Bombay, to 33 inches in Madras, to 36 inches in Bengal, to 38 inches in Mysore, to 25 inches at Mocha, and to 31.6 inches at Bagdad.

Gymnachirus (jim-nak'i-rus), n. [NL, ζ Gr. γνινός, naked, +άχειρ, άχειρος, without hands.] A genus of scaleless soles of the family of Soleidæ: found in South America.

Gymnasteria (jim-nas-tẽ'ri-ä), n. [NL., ⟨ Gr. γνμνός, naked, + ἀστήρ, star.] The typical genus of the family Gymnasteriidæ. Gray.

Gymnasteriidæ (jim-nas-te-ri'i-dē), n. pl.
[NL., ⟨ Gymnasteria + -idæ.] A widely distributed family of Schlander.

tributed family of Stelleroidea. It consists of phanerozonia with opposite amhulacral ossicles and unequally developed marginal plates, abactinal skeleton tessellate with irregular plates, and the whole test covered with membrane. The typical genus is Gymnasteria.

gymnastics, n.-Swedish gymnastics. Same as

Gymneleotris(jim-nel-ĕ-ō'tris), n. [NL., < Gr. γυμνός, naked, + ἐλέωτρις, a fish of the Nile.] A genus of small gobies with the body largely naked, found about Panama.

Gymnelinæ (jim-ne-li'nē), n. pl. [NL., < Gymnelis + -inæ.] A subfamily of fishes of the family of Zoarcidæ, typified by the genus Gym-

Gymnelis (jim'ne-lis), n. [NL., used for the proper form *Gymnenchelys, < Gr. γυμνός, naked, + εγχείνες, cel.] A genus of small brightly colored eel-shaped fishes of the family of Zoareider, found in the Arctic and Antarctic waters of the Pacific. G. viridis is common in Bering Gymnosporidia (jim"nō-spō-rid'i-ä),

gymnemic (jim-nem'ik), a. [Gymnema + -ic.] Noting a resinous acid extracted from the leaves of Gymnema sylvestris, indigenous in India. The leaves, when chewed, produce the curious effect of temporarily destroying the sense of taste as respects sweet and hitter, so that such substances as sugar and quinine become indistinguishable in the mouth. E. B. Titchener, Exper. Psychol., I. ii. 104.

Gymnoascaceæ ($jim''n\bar{o}$ -as- $k\bar{a}'s\bar{e}$ - \bar{e}), n.

[NL., \(\) Gymnoascus + -ace\(\alpha \). A family of simple ascomycetous fungi, named from the genus Gymnoaseus. It has small ascocarps consisting of a thin peridium of loose hyphe inclosing globose asci which arise as lateral branches of the ascogenous hyphe. Simple mold-like conidia occur in many cases. See Gum nouscus.

Gymnoascus (jim-nō-as'kus), n. netzky, 1872), ζ Gr. γυμνός, naked, + ἀσκός, a sack.] A small genus of fungi of the family Sack.] A smart genus of fungt of the ranning Gymnoascaccæ. They have the peridium composed of a loose layer of thick-walled much-branched hyphæ whose terminal branches are frequently pointed and sometimes hooked. The spores are simple and hyaline or bright-colored, varying from globose to spindle-shaped. G. Reessii occurs on dung.

gymnoblastous (jim-nē-blas'tus), a. Same as gymnoblastic.

Gymnocanthus (jim-nō-kan'thus), n. [NL., an error for *Gymnacanthus, \(\) Gr. γυμνός, naked, + ἀκανθα, spine.] A genus of fishes of the family Cottidæ (the sculpins), found in the North Atlantic and North Pacific. It is characterized by the absence of teeth on the vomer and by the presence of antier-like spines on the preopercie. G. tricuspis is found on the coast of Canada.

Gymnocarpeæ (jim-nō-kär'pē-ē), n. pl. [NL.] Same as *Discolichercs. See gymnocarpous.
gymnocarpic (jim-nộ-kär'pik), a. Having the

spore-bearing surface or hymenium naked: applied by Brefeld to the Uredinales and Dacryomycetales.

Gymnoglossa (jim-nō-glos'ä), n. pl. [NL., < of gr. γυμνός, naked, + γλωσσα, tongue.] A group of gastropods destitute of radula and jaws. The proboscis is prominent and in parasitic forms is used to suck the juices of the host. The group contains the families Entimidæ and Pyramidellidæ.

gymnoglossate (jim-nō-glos'āt), a. and n. [As Gymnoglossa + -atc1.] I. a. Having the radula hidden or absent; of or pertaining to the Gymnoglossa.

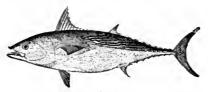
II. n. Any gastropod of the group Gymno-

Gymnogongrus (jim-nō-gong'grus), n. [NL. \[
 \lambda \text{Gr. γνμνός, naked, + γόγγρος, an exercscence.} \]
 A large genus of red alge which resembles Chondrus, or Irish moss; it is widely distributed to the control of the control o uted.

gymnoplast (jim'nō-plast), n. [Gr. $\gamma \nu \mu \nu \delta \epsilon$, naked, $+ \pi \lambda a \sigma \tau \delta \epsilon$, formed.] A naked protoplasmic mass, that is, one without an inclos-

ng wall or membrane.

Gymnosarda (jim-nō-sār'dā), n. [NL., ζ Gr., γυμνός, naked, + σάρδη, L. sārdā, sardine.] Α genus of the Scombridæ or mackerel-like fishes found in most tropical seas, swimming freely in the open ocean. Members of the species are smaller in size than the true tunnies, reaching a weight of 5 or 6 pounds, and are known as small tunnies and oceanic bontos. Two species are well known, G. alleterata and G. pelamis.



Gymnosarda alleterata (From Bulletin 47, U. S. Nat. Museum.)

gymnosome (jim'nō-sōm), n. [NL. gymnosoma.] In zoöl., one of the Gymnosomata; a pteropod with a naked body

gymnospermic (jim-no-sper mik), a. Same as gymnospermal.

gymnospermy (jim'nō-spér-mi), n. [Gymno-sperm-ous + -y3.] In bot., the state or charac-

ter of being gymnospermous.

gymnospore, n. 2. Specifically, in bot., a spore that is naked in the sense of not being produced in a sporangium.—3. In the classification of Le Maont and Decaisne, a cellular cryptogamic plant in which the spores, by absorption of the mother-cell, become free in a common cavity. Their group Gymnospores is coextensive with the Bryophyta. No longer used.

[NL., ζGr. γυμνός, naked, + σπορά, seed (spore), + dim. -ιδιον.] In Labbé's classification, a group of protozoan cell-parasites, which form group of protozoan cell-parasites, which form an order or a suberder of Hxemosporidia. They infest warm-blooded hosts and owe their name to the fact that no resistant cysts are formed in these hosts, sporogony, so far as observed, taking place in an intermediate invertebrate host.

Gymnostomata (jim-nō-stō'ma-tä), n. pl.[NL., \langle Gr. $\gamma v \mu v \phi_{\zeta}$, naked, $+\sigma \tau \delta \mu a(\tau-)$, mouth.]

An order of Ciliata in which the mouth is usually closed except during the inception of food, and is without an undulating membrane. The pharyux, when distinctly developed, is without ciliary structures, but is usually provided with a rod-apparatus or with a modification of one. It includes the families Chlamydodonta, Enchelina, and Trachelina. Compare *Trichostomata.

gymnostomatous (jim - n $\bar{\phi}$ - st $\bar{\phi}$ 'ma - tus), a_* [Gr. $\gamma \nu \mu \nu \phi \varsigma$, naked, $+ \sigma \tau \delta \mu a(\tau -)$, mouth.] Having the mouth unprovided with an undulating membrane, as certain ciliate infusorians.

Gymnothorax (jim-nō-thō'raks), n. Gr. $\gamma \nu u \nu \delta \zeta$, naked, $+ \theta \omega \rho a \xi$, chest.] A genus of morays or eels, of the family Mur w u i d w, or morays or eets, of the family Muranidae, comprising many of the largest and most ferocious members of the group. The genns is characterized by the well-developed dorsal fins and by the absence of tentacles on the posterior nostrils. There are very many species, some of them brilliantly and fautastically colored. G. moringua and G. funebris are common in the West Indies.

Gympie series. See *series.

gynæcandrous, gynæcarchy, etc. See *gync-

gynæceum, n. 4. In some countries, that part of a Christian church which is reserved for the women of the congregation.

gynandrism (ji-nan'drizm), n. [gynandr-ous + -ism.] The state of being monocious or

hermaphredite.

gynandrocratic (ji-nan-drō-krat'ik), a. [Gr. gynandromorph (ji-nan'dro-môrf), n. [Gr. νανδρος, female and male, + μορφή, form.]



Insect gynandromorph: a moth (Automeris io), female on the left, male on the right side of the body.

In biol., an animal of a unisexual species but exhibiting the anomaly of having part of the body male and part female. Gynandromorphs are most frequently found among insects.

gynandromorphic (ji-nan-drō-môr'fik), a.

[gynandromorph + -ic.] Possessing the char-

acteristics of gynandromorphism.

Gynandromorphic insects, in which the characters of the whole or part of one side of the body, wings and antennæ, are male, while those of the other side are female.

W. Bateson, Study of Variation, p. 68.

gynandromorphy (ji-nan-drō-môr'fi), n. Same as gynandromorphism. W. Bateson, Study of Variation, p. 35.

gynecandrous, gynæcandrous (jin-ệ-kan'-drus), a. [Gr. γενή (γενακ-), woman, + ἀνήρ (ἀνδρ-), man, + -οιε.] In bot., containing both staminate and pistillate flowers, as the spikelets of some carices; androgynous. [Rare.]

The terminal spike is, in this species, nearly always gynæcandrous. Amer. Jour. Sci., April, 1904, p. 308. gynecarchy, gynæcarchy (jin'ē-kār-ki), n. [Gr. γυνή (γυναικ-), woman, + ἀρχή, rule. Cf. gynarchy.] Rule or supremacy of the female, especially the alleged mother-right or matriarchate of primitive human society.

Ward, Pure Sociol., p. 336. gyneclexis (jin-ck-lek'sis), n. [NL., \langle Gr. $\gamma \nu \psi$, female, $+ i \kappa i \kappa \xi i \zeta$, choice: see celectic.] Sexual selection through choice by the female.

L. F. Ward, Pure Sociol., p. 361.

gynecocentric, gynæcocentric (jin/ē-kō-sen'trik), a. [Gr. γυή, woman, + κέντρον, center, + -ic.] Centering in and depending upon the +-ic.] Centering in and depending upon the female. L. F. Ward, Pure Sociol., p. 296.

-Gynecocentric theory, the view that "the female sex is primary and the male secondary" in organic life and evolution, and that the male was developed "under the operation of the principle of advantage to seeme organic progress through the crossing of strains." L. F. Ward, Pure Sociol., p. 296.

gynecocrat, gynæcocrat (jin'ē-kō-krat), n. [gynecocracy (-crat-).] One who favors or up-holds female government. Fitzedward Hall, in The Nation, LVI. 68. gynecocratic, gynæcocratic (jin * ē -kē -krat'-ik), a. [yynecocracy (-crat-) + -ic.] Organized on the basis of descent in the female line and governed by woman or by her male relatives; matriarchal.

This phenomenon may point to an original *gynarcocratic* ge, such as that proposed by Topifer in the case of the Minyadae.

A. H. Smith, in Jour. Hellenic Studies, xiv. 250.

gynecomania, gynæcomania (jin″ē-kō-mā'-ni-ii), n. [NL., (Gr.)ννή (γυνακ-), woman, + ματει, madness.] Same as satyriasis.

gynecomorphous, gynæcomorphous (jin / ē-kō-mòr'fus), a. [Gr. γινή (γιναίκ-), woman, + μοροή, form, + -ous.] In biol., having the form, attributes, or appearance of a female.

gynecopathic, gynæcopathic (jin'ē-kō-path'k), a. [gynecopath-y + -ic.] Of or pertaining to gynecopathy.

gynecopathy, gynæcopathy (jin-ē-kop'a-thi), u. [Gr. $\gamma vv\eta$ ($\gamma vva \kappa$ -), woman, $+\pi \acute{a} \theta o \varsigma$, disease.] A disease peculiar to women.

gynecophoral, gynæcophoral (jin-ē-kof'ō-ral), a. [gynecophor-ous+-all.] Same as gynecophoric

(ynerhopy (ji-ner'ō-pi), n. [Irreg. (Gr. γυνη, 55 Februare), sum-furnace.

female, + ροπή, inclination downward, decline.] The state or condition of a species in cline.] The state or condition of a species in whorls of the spire.—3. Any system of gyrithm of the spire.—3. Any system of gyrithm of the spire.—4 Multro-spire in the brain. **gynerhopy** (ji-ner'ō-pi), n. [Irreg. ⟨Gr. γυνή, female, + βοπή, inclination downward, deeline.] the males from the ancestral condition.

When female preponderance occurs, it might be called ynerhopy. Science, Feb. 13, 1903, p. 250.

gynetype (jin'ē-tīp), n. [Gr. γυνή, woman, + τυπος, type.] In zoöl., a female specimen taken as the type of a species. gyniatrics (jin-i-ā triks), n. [Gr. γυνή, woman,

· ιατρικός, of medical treatment: see iatric.] The treatment of diseases peculiar to women. gynocardate (jin-ō-kār'dāt), n. [gynocardic + -ate¹.] A salt of gynocardic acid, the active principle of chaulmugra-oil, used in the treatment of leprosy. Buck, Med. Handbook, V.

gynocardic (jin-ō-kär'dik), a. [Gynocardia + -ic.] Of or derived from Gynocardia.—Gynocardic actd, the active principle of chaulmugra-oil. Its salts are used in the treatment of leprosy.

gynocardin (jin-ö-kär'din), n. [Gynocardia + -in²-] A glucoside from the seeds of Gynocardia odorata.

gynodiœcism (jin"ō-dī-ē'sizm), n. [gynodiæ-c(ious) + -ism.] The condition of being gyno-

gynogenetic (jin/o-je-net'ik), a. [Gr. γυνή, female, + yévear, generation: see genetic.] Productive of females only.—Gynogenetic parthenogenesis, the production of females only from unfertilized eggs; thelytoky. See *honoparthenogenesis.

gynomonæcism (jin*ō-mō-nē'sizm), n. [gynomonæcious) + -ism.] The cendition of being gynomonæcious

gynomonœcious.

gynoplasm (jīn'ō-plazm), n. [Gr. γυνή, female, + πλόσμα, anything formed (see plasm).] The material that is supposed by Haeckel and others to enter into the composition of female cells and give them their distinctive character, and to be unlike anything that enters into the composition of male cells. See quotation under *androplasm.

under *androplasm.
gynospore (jin'ō-spōr), n. [Gr. γυνή, female, + σπορά, seed (spore).] Same as *macrogamete. Buck, Med. Handbook, VIII. 541.
gynostyle (jin'ō-stīl), n. [Gr. γυνή, woman, + στῦλος, pillar: see style².] In siphonophorans, a female blastostyle.
Gynura (ji-nō'rā), n. [NL. (Cassini, I825), ζ Gr. γυνή, female, + στρά, tail. The name alludes to the ellongated, tail-like stigmas.] An untender

γυνη, female, + συρα, ιαπ. Inc. manner the elongated, tail-like stigmas.] An untenable name for Crassocephalum, a genus of plants of the family Asteraceæ. See *Crassocephalum.

gypsine² (jip'sin), n. [gyps-um + -iue².] 1. The trade-name for a fire-proof material, for use in building, consisting of plastic hydranlic lime mixed with coke or sand and asbestos and pressed into blocks like bricks .- 2. and pressed into blocks like bricks.—2. A dusting-powder containing arseniate of lead, applied to plants as an insecticide. E. G. Lodemon, The Spraying of Plants, p. 147. gypsite (jip'sit), n. [gyps-um + -ite².] Gypsum in a finely granular form: a local name in Kansas and Texas, where this variety occurs.

Under the general head of calcined plaster, or plaster of paris, in these reports is included the product of cement plaster made from gypsum dirt, or "gypsic." A greater portion of the gypsum product of Kansas and Texas is of this variety. . . . Under the microscope the

Gypskeuper (güps'koi-per), n. [G., 'gypsum keuper.'] In geol., a subdivision of the Triassic system in Germany. It is correlated by German geologists with the upper part of the Keuper, and is underlain by the Lettenkohl and overlain by the Rhætie. It reaches a thickness of 1,000 feet and contains numerous plants (Equisetum columnare) and labyrinthodont and fish remains.

Gypsornis (jip-sôr'nis), n. [NL., \langle Gr. $\gamma \ell \psi o_{\mathcal{S}}$, gypsum, + $\delta \rho \nu \iota_{\mathcal{S}}$, bird.] An extinct genus of grallous birds like the rail, found in the Eocene gypsum-beds of Montmartre, France.

Eocene gypsum-beds of Montmartre, France. gypsum, n.— Gypsum tablet, a smooth plate of plaster of Paris used in the blowpipe analysis of minerals, particularly of those which yield colored sublimates.— Paris gypsum, in geol., the uppermost division of the Upper Eocene (Oligocene) in the Paris Tertiary basin. It consists of four beds of gypsum, intercalated with sands and marls, the highest of which is celebrated for the profusion of its mammalian remains (Anoplotherium, Palæotherium, opossum, pachyderms, Carnivora). gypsum-furnace (jip sum-fer*nās), n. A furnace used to calcine gypsum, in the manufac

nace used to calcine gypsum in the manufacture of stucco or plaster of Paris. More com-

monly called gypsum-kiln.
gypsum-kiln (jip'sum-kil), n. Same as *gyp-

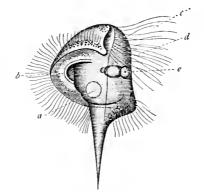
whorts of the spire.—3. Any system of gyri or convolutions in the brain. Amer. Anthropologist, July-Sept.. 1901, p. 465.—Dove's law of gyration. See Dove's law of the rotation of the *winds.—Gyration in storm-areas, the rule, annunced by Ferrel, that in the northern hemisphere winds must circulate about a low pressure in the direction contrary to the movement of the hands of a watch, but that in the southern hemisphere the circulation must be with the movement. See Ferrel'**klave.

gyrinid (ji-rin'id), n. and a. I. n. One of the Gyrinidæ.

II. a. Of or belonging to the coleopterous family Gyrinidæ.

gyroceracone (ji-rō-ser'a-kōn), n. [Irreg. < Gr. γυρός, round, + κέρας, horn, + κονός, cone.] A shell of a nautiloid cephalopod which is curved in a loose spiral like that of Gyroceras, the volutions being sometimes in contact but with no impressed zone. Hyatt.

Gyrocoryna (ji"rō-kō-rī'nā), n. pl. [NL., < Gr. γυρός, round, + κορίνη, a club.] A family of hete-



Cænomorpha medusula Perty.

From the ventral side, slightly turned to the right, a, contractile vacuole; b, adoral zone; c, cirrl; d, nicronucleus; c, meganucleus. Highly magnified. (Bütschli, after Blochmann. From Lankester's "Zoology.")

rotrichous, trichestemateus ciliates. They have

rotrichous, trichostomatous ciliates. They have a bell-shaped body, with the anterior end rounded and the posterior as a caudal appendage projecting from the bell, and a ventral furrow of cilia, with a row of cilia at the base of the edge of the bell leading to the mouth at the base of the appendage. The only genus is Cenomorpha.

Gyrocotyle (jī-rē-kot'i-lē), n. [NL., ⟨ Gr., νυρός, round, + κοτύλη, cup.] The typical genus of the family Gyrocotylidæ. Diesing, 1850.

Gyrocotylidæ (jī"rē-kō-til'i-dē), n. pl. [NL., ⟨ Gyrocotylidæ | jī"rē-kō-til'i-dē), n. pl. [NL., ⟨ Gyrocotylidæ | A family of menozoic tapeworms. They have a leaf-shaped body with crenate margins; a small but deep sucker at the pointed extremity; and at the opposite end a rosette organ carried by a cylindrical peduncle, traversed by a canal which opens at each end, from which a peculiar proboscis-like organ can be everted. Gyrocotyle is the typical genus. Gyrodus (ji'rō-dus), n. [NL., ⟨ Gr., νυρός, round, + νδοίς, a tooth.] A genus of extinct ganoid

odoirs, a tooth.] A genus of extinct ganoid fishes. They have a very flat and deep body completely covered with scales; a blunt nose; flat bean-shaped teeth on the palate and splenial, and a few sharp prehensile teeth on the dentary; a symmetrical caudal fin, and thick scales ridged at the margin. The genus is common in the Jurassic rocks.

gyrograph (jī'rō-grāf), n. [Gr. γῦρος, a wheel, + γράφειν, write.] An instrument for register-

gypsite of Kansas is seen to consist of a mass of small, angular gypsum crystals of varying size.

An. Rep. U. S. Geol. Surv., 1897-98, pp. 584, 585.

wheel.

gypsite of Kansas is seen to consist of a mass of small, ing the revolutions of a mechanism, such as a wheel.

gypsite of Kansas is seen to consist of a mass of small, ing the revolutions of a mechanism, such as a wheel.

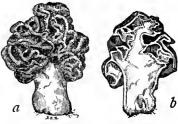
gyrographic (ji-rō-graf'ik), a. [Gr. $\gamma \tilde{\nu} \rho \rho c_{\gamma}$, a wheel, a circle, $+ \gamma \rho \hat{a} \phi \epsilon \nu \nu$, write, + -ic.] Noting an organic acid found in certain lichens (Gyrophora or Umbilicaria pustulata).

Gyrolepis (jī-rol'ē-pis), n. [NL., ζ Gr. γυρός, round, + λεπίς, a scale.] A genus of heterocercal ganoid fishes characterized by having the anterior rays of the pectoral fins not articulated and scales marked with irregular wrinkles. It is common in the Mesozoic rocks.

gyromele (j_1^{γ} , $\bar{\gamma}$, $\bar{\gamma}$, \bar{n}), n. [Gr. $\gamma\bar{\nu}\rho\rho\sigma$, a wheel, a turn, $+\mu\bar{\gamma}\lambda\eta$, a probe.] A device consisting of a spenge on the end of a long rotating boughe, used for swabbing out the stemach.

gyrometer (jī-rom'e-ter), n. [Gr. γυρος, a turn, revelution, + $\mu \epsilon \tau \rho o \nu$, a measure.] An instrument for indicating continuously the number of revolutions of a rotating axis.

Gyromitra (jī-rō-mī'trā), n. [NL. (Fries, 1849), (Gr. γυρός, round, + μίτρα, a head-dress,



Gyromitra esculenta.

One fourth natural size; a, general view of plant; b, cross-section of same. (From Engler & Prantl's "Pflanzenfamilien.")

a turban.] A genus of ascomycetous fungi of the family Helvellacex, having large fleshy stipi-tate fruiting bodies (ascemata) with the surface irregularly depressed and folded. The name refers to the convoluted turban-like ascoma. Eleven species have been described, some of which are among the largest known Ascomycetes. G. esculenta, as its name indicates, is an edible species occurring in America and Europe.

Gyrophoraceæ (ji"rō-fō-rā'sē-ē), n. pl. [NL., Gyrophora + -aceæ.] A family of gymno-earpous lichens named from the genus Gyrophora.

gyro-pigeon (ji'rō-pij'en), n. [Gr. γύρος, a turn, + E. pigeon.] A contrivance of tin having flanges so arranged spirally that when a rotary motion is imparted to it its gyrations cause it to rise in the air: formerly used as a target for shooting.

gyroplane (ji'rō-plān), n. [Gr. γῦρος, a ring (wheel), + -plane, as in E. aëroplane.] A type of flying-machine. See the extract.

A further departure from the present fashion of machine is the gyroplane of Messrs. Breguet, which revives interest in the attempt to overcome gravity by vertical screw propellers. As at present designed, it is supported by four propellers placed at the corners of a square.

**Nature*, Dec. 5, 1907, p. 107.

Gyroscopic precession. See *precession.

gyrostatics (jī-ro-stat'iks), n. That branch of the science of kinetics which deals with the laws of rotating solids.

the science of kinetics which deals with the laws of rotating solids.

gyrus, n.—Broca's gyrus. Same as inferior frontal gyrus. See frontal gyri under gyrus.—Central gyri. Same as central *convolutions.—Composite gyrus, a gyrus, or ridge, just below and in front of the precrucial oranterior portion of the sigmoid gyrus.—Dentate gyrus, an imperfectly formed convolution within the dentate fissure.—Fusiform gyrus, the lateral occipitotemporal convolution, a convolution of the temporal lobe which lies between the collateral and third temporal fissures. It forms the posterior portion of the fourth temporal gyrus at the anterior end of the callosum.—Gyrus intermedius rhinencephall, a name applied by ketzius to the tubercle of the olfactory tract in the brains of marsuplals and edentates.—Gyrus limbicus, a thin strip of gray matter upon the callosum which contains the longitudinal strie of Fancisii. Also industum grizeum.—Gyrus intermedius in the brains of marsuplals, a gyrus which extends from the rostrum of the callosum, to the base of the cerebrum immediately in front of the precommissure and lamina terminalis.—Internal gyrus, Same as callosal gyrus.—Lingual gyrus, the median occipitotemporal convolution of the brain.—Paracentral gyrus, a convolution bounded by the paracentral and ealosomarginal sucic.—Postcentral gyrus, a convolution on each half of the cerbrum, adjacent to the median lit is more or less parallel with the sagittal suture of the skull.





tial letter of the general symbol, hkl, applied to a face of a crystal in the system of Miller. See *symbol, (c) In hacienda-piece (äth-i-ān'di-pēs), n. A private (which see). -4. (f) In pathol., hypermetropia.

dense layer of flint chips, which had evidently never been disturbed since the materials were operated upon, for Mr. Spurrell was able to piece many of the flakes, and to demonstrate that the object sought was the manufacture of J. Geikke, The Great Ice Age, p. 637. hacienda-piece (äth-i-ān'di-pēs), n. A private coin struck by the proprietor of an hacienda or ranch in Mexico or Central of the fladean (hā'dē-an), a. Of or pertaining to Hadean (hā'dē-an), a. Of or pertaining to Spurrell was able to piece many of the flakes, and to demonstrate that the object sought was the manufacture of J. Geikke, The Great Ice Age, p. 637. The Lethean water to the Hadean shore, The fare was just a penny.—not to the moderate of the manufacture of J. Geikie, The Great Ice Age, p. 637. The fladean (hā'dē-an), a. Of or pertaining to the disturbed since the materials were operated upon, for Mr.

Hadean (hā'dē-an), a. Of or pertaining to the flades: as, Hadean (hā'dē-an), a. Of or pertaining to the flates and the description of the flates and the description pathol., hypermetropia.

h., hy. In electrotechnics, abbreviations of

ha. An abbreviation of hectare.

haa (hä'ä), n. [Hawaiian.] A tree of the spurge family, Antidesma platyphyllum, found on most of the Hawaiian Islands, and reaching the Hawaiian Islands are the Hawaiian Islands and reaching the Hawaiian Islands are the Hawaiian Islands and reaching the Hawaiian Islands and re ing a height of 30 feet. Its fruit is a reddish drupe with a beny, flattened putamen.

habanera (hä-bä-nā'rä), n. [Sp. \(\) Habana, Havana.] A slow Spanish dance in triple rhythm; also, the music for such a dance.

habdalah (häb-dä'lä), n. [Heb.: ha, the, b'dālah, habdalah (hāb-dā'lā), n. [Heb.: ha, the, b'dālah, 'badal, separate.] Areligious ceremony among orthodox Jews at the close of the Sabbath. On returning home from the synagogue the master of the home lights a special wax taper, fills a cnp with wine, and recites several passages of Scripture which treat of salvation, beginning with: "This is the God of my salvation, in whom I trust and will not he afraid"; "God is my strength and song, and he became my salvation." etc. He then pronouncea a blessing on the wine: an ornamented, chased, or carved apice-box is produced, of which all the members of the household smell; and the following blessing is pronounced: "Blessed thou art, O God of the universe, who created all kinds of spices."

**abeas corpus ad respondendum, a writ by which a

nniverse, who created all kinds of spices."

#abeas corpus ad respondendum, a writ by which a person was removed out of the custody of one cours into that of another to answer to a suit in the latter. It was also employed to compel the production of a person in confinement to answer to a criminal charge.—Habeas corpus ad satisfactendum, a writ by which a prisoner imprisoned by virtue of the indgment of one court was brought into another court to charge him in execution upon a judgment of the latter.

behavel (he_bé^nal). a. [NI. *habenalis. (

habenal (ha-bé'nal), a. [NL. *habenalis. L. habena, a thong, strap, rein, \(\text{habere}, \text{hold:} \)
see have. Same as habenar. Buck, Med.
Handbook, II. 152.

Habenular ganglion. See *ganglian habe-

Haberlia (ha-ber'li-ä), n. [NL. (Dennstedt, 1818), named in honor of Karl Koustantin Haberle (1764-1832), professor of botany at Pesth.] A genus of dicotyledonous trees of the family Anacardiaceve. See Odina.

habilla (ä-bē'lyā), n. [Amer. Sp., dim. of Sp. haba, broad bean, \(\subseteq L. faba, bean. \)] 1. The sand-box tree, Hura crepitans, and especially its seeds, which are a drastic eathartic. Called also javilla. See Hura and sand-box, 3 .- 2. In Central America, Lens phascoloides, or its seeds. See Entada, sca-bean, 1, and *lens, 5.

habit, n., 1. (d) In petrog., the general appearance of a rock given by the texture and the mode, that is, the mineral composition. Rocks may have the same habit and not agree closely in composition.

6. A small piece of linen attached to a woman's

collar at the back, designed to go under the neck of the dress and keep the collar in place. Dyvour's habit, in Scots law, a habit which bank-rupts were compelled to wear unless in the bankruptcy proceedings it was alleged and proved that the insolvency was the result of misfortune. Bankrupt dealers in an illicit trade were condemned to wear the habit in any event. Bourier, Law Dict.—Land of steady habits, the State of Connection.

habitancy, n. 2. Inhabitants collectively. De Quincey.

Habitat group, a sum of plant species affiliated by their requiring similar environments. Pound and Clements.

Habitual time. See *time1.

habituation, n.—Error of habituation. See \star error of

habutai (hä"bö-tĩ'), n. [Jap. habutaye.] A Japanese silk.

hache (häsh). n. [F. hache, an ax: see hatchet.] A palwolithic stone implement, called originally lang de chat, evidently used for a great variety of purposes. Also called coup de poing (de Mortillet), and Chelleau implement.

This [a Paiaeolithic workshop] was represented by a

hack?, n., 1. (9) The board on which a hawk's meat is laid.—To be at hack, to have partial liberty, as eyas hawks before they begin to be trained.—To fly at hack, to be at partial liberty, as a half-trained hawk.

hack4, r. i. 4. To do work as a hack or literary

on biscuit-ware when a reserved design is desired in a printed pattern. The whiting drops off in the kiln, leaving a white reserved design on the ground color.

hacking, n. 4. In pathol., the emission of a succession of short coughs. - 5. In massage. the act of striking the muscles with the side of

communis.

hacking-board (hak'ing-bord), n. A board on which unburned bricks are dried or hacked. hackle3, n. 6. One of the long hairs which, when erected, form a crest along the neck and back of a dog.

I could see the great dog standing, not sleeping, in the veranda, the hackles alift on her back, and her feet planted as tensely as the drawn wire rope of a suspension bridge.

R. Kipling, The Recrudescence of Imray.

Dun hackle, in angling, an artificial fly.

hackle³, v. t. 3. In angling, to dress (an artificial fly) with hackle.

hackle-back (hak'l-bak), n. Same as * hatchet-

hackle-bench (hak'l-bench), n. A bench or

hackmack (hak'mak), n. Same as hackmatack. hackmannite (hak'man-it), n. [Named for Dr. Victor Hackman of Helsingfors.] A member of the sodalite group of minerals which occurs in pale reddish-violet dodecahedrons in the rock called tawite from the Tawa valley, Kola Peninsula, Lapland. It is near sodalite in composition but contains also the radical NaS. hackmatack, n. 2. The juniper, Juniperus

hackney, n. 2. Specifically, a breed of horses which combines thoroughbred blood with that of the English shire horse or cart-horse and also of the English shife horse or cart-horse and also that of the native Irish horse. A hackney is a horse of moderate size, but over 14 hands, compact build, good setion and good disposition, not so heavy as a coach-horse nor so 'leggy' as a hunter. The term is used in England much as roadster or driver is used in the United States, but includes horses for riding as well as for driving. hack-saw (hak'sâ), n. See sant. hack-saw (hak'sâ), v. t. To cut with a hack-saw. Hack-sawing maching a powerposching and

hack-saw (hak'sâ), v. t. To cut with a hack-saw.— Hack-sawing machine, a power-machine employing a reciprocating hack-saw and used for cutting metal rods, bars, and pipes. Two types are in use. In one the saw is operated by an oscillating frame, and in the other it is directly connected with a rod and crank-pin on a wheel, suitable mechanism being provided for holding the saw to its work on the draw or backward stroke and allowing it to run free on the return stroke, and for sallowing for the wear of the saw. Feed-mechanism is also naed to bring the rod to be cut to the vise, locking it in the vise while the cut is made, and releasing the saw and the vise while the next length is fed to the saw. The depth and length of cut are adjustable.

also nsed to nrms
also nsed to nrms
in the vise while the cent is made,
and the vise while the next length is fed to the said
depth and length of cut are adjustable.

hackthorn (hak' thôrn), n. [S.AF.D. haakedorn, hook-thorn.] A South African thorny,
leguminous shrub, Acaeia detinens, which is
considered sacred by some of the native tribes.
Called also wait-a-bit thorn.

hack-tree (hak'trē), n. Same as hackberry, 2.

A name wrongly applied to

A n the hake.— New Zealand haddock, a gadoid fish, Merluccius australis, found in Australian waters. 559

hadrome (had'rom), n. [Gr. άδρός, strong, + E. -ome.] The xylem or woody part of a vascular bundle

Hadromerina (bad″rō-me-rī'nä), n. pl. [NL., Gr. ἀδρός, thick, large, + μέρος, part, + ima²]. An order of monaxonidan Demosponice, usually of massive form, sometimes stalked or cup-shaped, of compact structure, with the skeletal framework radiate or without order, and the spongin absent or very feebly develop-ed. It includes several families, among them the Coppatiidæ. Clionidæ, and Subcritidæ.

hadromerine (ha-drom'e-rin), a. [Hadrome-rina.] Resembling sponges of the order Hadromerina; having a massive form. hadromin (had'rō-min), n. [Formation not ascertained.] An aldehyde substance said to accompany natural vanillin.

Hadropterus (ha-drop'te-rus), n. [NL., \langle Gr. $a\dot{\phi}\rho\dot{\phi}c$, thick, $+\pi\tau\epsilon\rho\dot{\phi}\nu$, wing (fin).] A genus of etheostomatine perches or darters, containing some of the largest and most active species of the group. They are small fishes, olivaceous in color, with large black blotches on the sides, found in the hottom of clear streams in the Mississippi valley. *H. aspre* is the common black-sided darter.

hadrosaurid (had-ro-sâ'rid), n. One of the Hadrosauridæ.

hadrosauroid (had-rō-sâ'roid), a. and n. I. a.

Resembling or allied to Hadrosaurus.

II. n. A saurian having affinities with Hadrosaurus.

table for supporting hackling-pins.

hackle-sheet (hak'l-shet), n. The movable apron, or sheet, to which are attached the apron, or sheet, to which are attached the speculations of Ernst Hackel, a German zoölo-speculations of Ernst Hackel, a German zoolo-speculations of Ernst Hackel, a Germ gist, especially his opinion that the life-history of the individual organism is a recapitulation of its ancestral bistory. See *rccapitulation, 3, and Haeckel's *law.

Hæmamæba (hem-a-mē'bā), n. [NL., < Gr. aiµa, blood, + NL. amæba.] 1. The typical genus of the family Hæmamæbidæ. II. malariæ (Plasmodium quartanæ) is the eause of quartan fever in man. See *malaria, with cuts. Grassi and Feletti, 1890.—2. [l. c.] cuts. Grass and recett, 1899.—2. [t. c.]
An organism of this genus. Also hemamæba,
—Hæmamæba immaculata, a non-pigmented variety
of II. præcox.—H. præcox. Same as Plasmodium
madignum.—H. relicta, a protozoan blood parasite of
the sparrow.—H. sub-immaculata, a protozoan blood
parasite of the hawk.—H. subpræcox, a protozoan
blood parasite in the owl, lark, and other birds.—H.
vivax. Same as Plasmodium testiane.

Hæmamæbidæ (hem-a-mē'bi-dē), n. pl.Hæmamænd + -idæ.] A family of Hæmosporidia, consisting of amæboid organisms
found mostly in the red blood-corpuscles. It
includes Halteridium, found in birds, causing lever and
sometimes death; Hæmamæba, the cause of malaria in
nan; and other forms parasitic in frogs, cattle, and other
animals.

The Italian observers have found that all three species of the human Hxmamxbidx are cultivable in Anopheles claviger and not only in this but in other Italian species of Anopheles, while they . . . have failed to cultivate the parasites in Culex.

L. O. Howard.

hæmatein, n. See hematein.

dia. The typical genus is Hamogregarina.

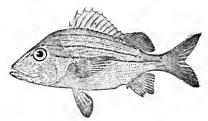
and finer hair or down, found on skina, which sometimes remains after the coarser hair is removed.— In the hair, with the hair remaining: said of skins.— Peppercorn hair, the hair of some African negrod tribes: named from

Hæmosporidia (hem * ō - spō - rid ' i - i). n. pl. haikh (hièh),n. [The [NL.. ζ Gr. aiua, blood, + σπορε, seed (spore), native name of Ar-+ dim. -idior.] An order of Sporozoa, the members of which are parasitic in the blood of bers of which are parasitic in the blood of ishes, amphibians, and reptiles. The trophozoite is generally a vermiform hæmogregarine, which passes its early stages in a blood-corpuscle, but becomes free when full-grown. There appears to be no alternation of hosts, the entire cycle of development being passed in the body of one animal. This order contains the genera Lunkestrella, Karyolysus, and Hæmogregarina. Danilewsky.

hæmosporidian (hem \bar{o} -sp \bar{o} -rid'i-an), a. and n.

 I. a. Of or pertaining to the Hæmosporidia.
 II. n. One of the Hæmosporidia.—2. A general designation of the pathogenic Protozoa that live and multiply in the corpuseles of the red blood of mammals, and give rise to malaria. See *malaria.

Hæmulidæ (hē-mū'li-dē), n. pl. [NL., < Hæ-mul(on) + -idæ. Cf. Hæmulonidæ.] A family of sparoid fishes, typified by the grunts, which constitute the genus Hæmulon. They differ from the Sparidæ in having the teeth all pointed; from the Lutianidæ in having no teeth on the vomer; and from



Hamulon Macrostomum (From Bulletin 47, U. S. Nat. Museum.)

the Serranidæ in having the maxillary bone or side of the upper jaw slipping under the edge of the preorbital bone. The species are widely diffused in tropical seas and are rained as food. The family is often called Pristipomatidæ. The typical genus is *Hæmulon.*

hæmuloid (hem'ū-loid), n. Any fish of the family Hamulida.

hagbaha (häg-bä'hä), n. [Heb., < gabah, lifting.] The elevation of the open sacred seroll (torah) after the reading of the *parasha (which see). When it is thus exposed to the view of the congregation, all stand up and recite the following: "And this is the law which Moses placed before the children of Israel," etc.; "This is a tree of life to them that grasp it," etc. All ceremonies in connection with the reading of the law, including the hagbaha, are considered meritorious, and are performed by prominent members of the synagogue.

hagbrier (hag'bri-er), n. The hispid green-brier, Smilax hispida, the stems of which are thickly set with long, straight, slender spines. It ranges from Ontario to North Carolina, and westward to Minuesota and Texas.

haggadah, n. 3. The Jewish ritual for the first two nights of Passover. It contains extracts from the Bible and the Talmud treating of the exodus from Egypt, also praise, including hallel (Ps. citi.-cvii.), and prayer for future redemption.

hagiasterium (hā/ˈji-as-tē/ˈri-um), n.; pl. hagiasteria (-გ). [NL., ⟨Gr. ἀγιαστήριον, a sanetuary,
⟨άγιάζειν, make saered, ⟨άγιος, saered: see
hagiology.] In early Latin arch., the sanetuary, as distinguished from the choir occupied by

hagiolater (hā-ji-ol'a-ter), n. [Gr. ἀγιος, saint, + -λάτρης, -worshiper.] A saint-worshiper. F. P. Cobbe.

hahanui (hä-hä-nö'ē), n. [Hawaiian.] A spiny, bristling shrub, Cyanea feror, of the family Campanulacea, with dissected leaves and purplish-blue flowers.

Hahnemannism (hä'ne-man-izm), n. The medical theories of Dr. Hahnemann; homeo-

haigua (hi'gwä), n. [Nootka haigua, also spelled hiagua, hiagua, higua, hyagwa, in Chinook jargon hykwa, hyakwa.] The Dentatium shell used by the Indians of the North Pacific coast of America for ornaments. Sometimes the surface of the shell was decorated with delicate carvings. It was valued according to its size, the value being determined by the number of shells required to make a string one fathom in length. The shortest kind was also called coopcoop or kopkops (Chinook ikupkup).

haikal (hī'käl), n. [Coptie.] In churches of naikal (hī'kāl), n. [Coptie.] In clurches of the Levant, a sacred place, usually distin-guished from the choir. In the Coptic churches of Egypt it forms an important member of the plan and is in some cases covered with a cupola which is richly adorned, having mosaics or paintings. See cut in next column.—Haikal Sereen, in churches of the Levant, a decorative and elaborate screen-wall which shuts off the haikal from the body of the church. In churches of the Greek rite the screen is called iconoscasis.

menia.] The Armenian language.

haikwan(hī-kwän'), n. [Chinese, < hai, sea, + kwan, a gateway, a custom-house.] Maritime eustoms in China.

hail, n.—Soft hail, small pellets of ice, sometime frozen raindrops, at other times small hail, usually falling together with rain and rapidly melting away.

hail³, n. The various responses made by naval officers at night to the sentry, by which the latter may learn the rank of the officer approaching the vessel, are as follows:

the vessel, are as follows:

"Hag-officers answer Egypt.")

"flag: "the captam gives the name of his ship; the ward-room officers answer, "Aye, aye!" the steerage and warrant officers answer, "No, no!" and petty officers and members of the erew answer, "Hello!" Yachtsmen have adopted this code with a clickt medification. slight modification.

slight modification.

hail³, r. t.—To hail the ball, to throw or drive the ball to the goal; win the goal. N. E. D. [Scotch.] of cells of a hair. See hair.

hail-backed (hāl'bakt), a. Having a broad hair-drawn (hār'drân), a. Drawn out as fine as a hair; characterized by over-refinement as a hair; characterized by over-refinement as hair-drawn dialectics. Schaff.

neck to the root of the tail: said of cattle. hail-band (hāl'band), n. One of the narrow tracts covered with hail which are characteristic of severe hail-storms, especially in France. hair. hair-fern (har fern), n. The American maid-they generally lie parallel to one another and to the general path of the storm, leaving between them lanes of little hail but of heavy rain and destructive winds. hair-germ (har jern), n. An ingrowth of entail-cannon (hal/kan-on) and American maid-their fern (har jern), n. An ingrowth of entail-cannon (hal/kan-on) and American maid-their fern (har jern), n. An ingrowth of entail-cannon (hal/kan-on) and a maid-their fern (har jern), n. An ingrowth of entail-cannon (hal/kan-on) and a maid-their fern (har jern), n. An ingrowth of entail-cannon (hal/kan-on) and a maid-their fern (har jern), n. The American maid-their fern

hail-cannon (hāl'kan-on), n. A small cannon or tube set vertically and furnished with a or tube set verifically and furnished with a conical prolongation. The discharge of a few ounces of gunpowder in the cannon sends a vortex-ring of smoke rapidly npward to an altitude of about 1,000 feet. Such cannon have been extensively used since 1890 in southern Europe, under the mistaken belief that numerous discharges of them will prevent injurious hailstorms. See *grelifuge cannon.

hail-cloud (hāl'kloud), n. A cloud from which hail falls; that portion of a cumulus cloud which represents the so-ealled hail-stage and within which the temperature is at freezingpoint, the cooling due to expansion being just counterbalanced by the evolution of the latent heat of freezing water from the drops of rain that are being frozen. hail-gage (hāl'gāj), n. A special form of rain-

gage constructed to separate the hail from the rain-water and allow of the separate measurment of each.

hailing-port (hāl'ing-port), n. The name of the port from which a vessel hails, required by to be painted on the stern of all documented vessels in the United States; the port in which the managing owner of the vessel lives, or which is nearest to his place of resi-

hail-shooting (hal'sho"ting), n. The firing of cannon for the purpose of dissipating hail-storms or preventing hail: beneficial results of this practice have not been demonstrated.

hailweed (hāl'wēd), n. Dodder, especially the thyme-dodder or the flax-dodder. Also hair-

haimarada (hī-mā-rā'dā), n. [Arawak.] Lindernia diffusa, a herbaceous plant of the family Scrophulariaeeæ, native of South America. In Guiana it is used as medicine in fevers, dysentery and disorders of the liver.

Haimea (hā'mē-ii), n. pl. [NL.] The typical genus of the family Haimeidæ. Milne-Edwards.

Haimeidæ (hā-mē'i-dē), n. pl. [NL., Maunea + -idæ.] A family of protaleyonacean Aleyonaria, consisting of solitary polyps with or without spicules. It contains the genera Haimea, Hartea, and Monoxenia.

Haimea, Hartea, and Monoxenia.

Same as hindberry.

The woodruff, a, plant, one fourth natural spicules chaired, chartes, chairhound (hār' hound), n. Same as hoar-hound (b). hair-line, n. 3. Same as *hair-cord. hair-line, n. 3. Same as *hair-cord. Haimeidæ (hā-mē'i-dē), n. pl. [NL., < Haimea

hainberry (hān'ber"i), n. Same as hindberry. hainte (hin'it), n. [G. hain, grove (see def.), + -ite².] A silicate, allied to wöhlerite in composition, occurring in slender, colorless to yellow, triclinic crystals: found in phonolite of the Hohe Hain ('high grove') in northern Bohemia.

Bohemia.

hair¹, n.—Beaded hair. See *beaded.—Collecting hairs, the hairs on the styles of certain composite plants the function of which it is to collect the pollen as it falls from the anthers.—Curled hair, hair from animals' manes and tails steamed and twisted, when hot, into rope, and afterward untwisted and picked apart, making a light springy material for upholstering.—Fine hair, an inner



Haikal in the Church of Abu's Sifain, old Cairo. (From Butler's Sifain, old Cairo.
"Ancient Coptic Churches

hair, the hair of some African negrod tribes: named from the small spirals which it forms, beginning at the root. The closeness of these spirals gives the impression that the hair grows in tufts, although the roots are quite regularly distributed.—Ringed hair a kind of gray hair in which the affected hair is marked by segments of white alternating with the normal color. Also called trichonosis rersicolor.—Salamander's hair, the mineral asbestos.—Thetis's hair, a name given by C. T. Jackson to quartz which contains fine needle-like inclosures of actinolite or asbestos. The fibers are generally straight, but penetrate the mass in several directions.—True-wool hair, the hair of a sheep's fleece, which possesses the textile properties of a serrated surface, curliness, and elasticity, the typical example being that from the merino sheep.

hair¹, v. i. 2. To form fine fibers, as syrup, hair¹, v. i. 2. To form fine fibers, as syrup, when tested by dripping. hair-ball (hãr'bâl), n. A small pellet or a

large concretion, composed chiefly of hair, found in the stomachs of animals which have the habit of licking themselves or other animals. See bezoar and *heterolith. Yearbook U. S. Dept. Agr., 1897, p. 501.

Hair-comber's disease. See *disease. hair-cord (hār kôrd), n. A fabrie woven with very fine lines or stripes, usually running lengthwise. Also ealled hair-line.

hair-felt (har'felt), n. Felt made of animal

enhair, Adiantum pedatum. hair-germ (har jerm), n. An ingrowth of epidermal cells from whose base a hair is subsequently developed.

quently developed.

hair-grass, n.—Bearded or long-awned hair-grass, Muhlenbergia capillaris, a species which bears a large light-purple paniele with slender, spreading branches and very delicate pedicels, the flowers also with a slender awn. This grass is found in sandy or rocky soils in the eastern United States.—California hair-grass, Deschampsia holeifornis, a much stouter plant than the Eastern species of the same genus. Also the slender hair-grass, D. elongata, and the oat-like hair-grass, D. calycina.—Oat-like hair-grass, a low, tufted grass, Aira earyophyllea, nearly related to Deschampsia. Its shining paniele gives a silvery tringe to fields where it abounds. It is a European plant, of no value agriculturally, introduced into the eastern United States and into California. In England sometimes called mouse-grass.—Slender duced into the eastern United States and into California. In England sometimes called mouse-grass.—Slender hair-grass, See California *hair-grass.—Tufted hair-grass, Deschampsia cæspitasa, a European and North American grass found in the northern United States and especially abundant in the Rocky Mountains. It is of little caricultural trains but

especially abundant in agricultural value, but from its tussock-forming habit is useful in building up and giving firmness to low, wet ground. The stems in rural England have been made into decreases and land have been made into door-mats, and furnish a fiber. Also hassock-grass and tus-sock-grass.— Water hair-grass. See water-hairgrass.— Same as wood *hair-grass.— Wood hair-grass.— Bechampsia flexuosa, a more delicate European and American species, American species, worthless except in woodland pastures. land pastures. leaves are filiform, the branches of the panicle hair-like, often flexuous. hairhoof (hãr'

höf), n. [One of the numerous variants of hairif.]

Tufted Hair-grass (Deschampsia a, plant, one fourth natural size; b, spikelet, enlarged; c, florets, still more enlarged.

hair-moss (har'mos), n. Same as haireap-moss.

hair-moth (har'moth), n. One of the clothes-moths, Tincola biseliella, whose larva feeds on hair and woolen goods.

hair-peg (har'peg), n. A straight hair-pin with an ornamental head. A. M. Earle, Costume of Colonial Times, p. 122. hair-pencil (har'pen'sil), n. In entom., a group

of very long hairs which may occur on several parts of the body of a lepidopterous insect. hair-plate (hãr/plāt), n. The iron plate at the back end of a bloomery-hearth.



hair-rooted (har'ro-ted), a. Noting clouds which have a bulbous center whence proceed long wisps like hairs and short wisps like

hair-scale (har'skal), n. One of the modified of the body of certain lepidopterous and trichopterous insects.

hair-shot (hār'shot), n. In billiards, a shot which barely moves the first object-ball; also, one which barely misses the second.

hair-slip (hār'slip), n. A place on a green skin where the grain has become decayed, enabling the hair to slip. Flemming, Practical Tauning, p. 265.

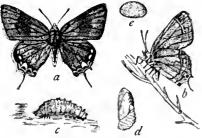
hair-slipped (har'slipt), a. Marked by places where the grain has decayed: said of skins. Flemming, Practical Tanning, p. 265.

hair-snake (hãr'snāk), n. A nematoid worm, Gordius, parasitic in insects in its early stages and frequently found in damp places or in pools when mature. Also known as hairworm and horsehair-snake, from the popular superstition that it is a hair that has metamorphosed into a worm.

hair-stone (hãr'stōn), n. Quartz penetrated by slender crystals of rutile, amphibole, or other mineral species. Also called Venus hair-stone and flèche d'amour.

hair-stone and flèche d'amour.

hairstreak, n.—Acadian hairstreak, an American butterfly, Theela acadica, occurring from New England to Montana and up and down the Pacific coast. Its larvee feed on the willow.—Banded hairstreak, a lycenid butterfly, Theela calanus, occurring throughout the northern United States east of the Rocky Mountains. The upper aurface of the wings is dark brown and the under aurface slate-brown. Its larvæ feed on the leaves of the oak and the hickory.—Coral hairstreak, an American lycænid butterfly, Strymon titus, of wide distribution within the United States. Its larvæ live on the wild cherry and the plum.—Gray hairstreak, an American lycænid butterfly, Uranotes melinus, occurring through-



Gray Hairstreak (Uranotes melinus).

a, butterfly; b, butterfly with wings closed; c, larva from side; d, pupa; ϵ , egg; all slightly enlarged except ϵ , greatly enlarged. (Howard and Chittendeo, U. S. D. A.)

out the United States. Its larvæ feed on the bean, hop, haw-thorn, St.-John's-wort, and hound's-tongue.—Great purple hairstreak, an American lycænid butterfly, Atlides halesus, the largest of the eastern hairstreaks, expanding nearly two inches. Its larvæ feed on the oak.—Least purple hairstreak, an American lycænid butterfly, Calycopis eeerops.—Olive hairstreak, an American hesperiid butterfly, Mitoura damon, occurring in the southern United States, where its larvæ feed on the red cedar and the smillax.—Striped hairstreak, an American lycænid butterfly, Theela liparops, wide-spread in the United States east of the Rocky Mountains. Its larvæ live on the oak, willow, shad-hush, and blueberry.—White-M-hairstreak, an American lycænid butterfly occurring throughout the sonthern United States, ranging as far north as New Jersey, Pennsylvania, and Ohio. Its larvæ live on the oak and the milk-vetch.

hairstrong (har'strong), n. Same as harstrong.

hairstrong (hãr'strông), n. Same as harstrong. hair-weed (hār'wēd), n. 1. Any hair-like alga. See mermaid's-hair.—2. Same as *hailweed.

hair-whorl (hār'hwerl), n. A more or less spirally arranged ridge of hair, produced by the meeting of hairs running in different directions.

hairy-back (hãr'i-bak), n. Any fish of the family Trichonotidæ, found in the western Pacific.

hairy-tongue (har'i-tung), n. Hypertrophy of the filiform papille of the tongue: it gives to the surface a hairy appearance. Buck, Med. Handbook, III. 291.

med. Handbook, III. 291.

hai-tsai (hī-tsī'), n. [Chinese, < hai, sea, + ts'ai, weed.] A seaweed, Gloiopeltis tenax, and a gelatin prepared from it. The gelatin is used in the manufacture of lanterms to strengthen or varnish the paper, and to give gloss to silk or ganze. Windowa of split hamboo crossed diagonally have their rhombic openings filled with a film of it as a substitute for class.

hair-restorer (har'rē-stōr"er), n. A preparation used to restore the hair when it is scant. A Heb. hakam, be wise. Compare Aram. hakim or hakima; Ar. hakim: see hakim.] In Jewish use, a sage or philosopher: a title given to the Sephardi rabbis in the Orient. The chief rabbi

roots: as, hair-rooted cirro-stratus. Also called tailed cirrus by Clayden, and cirrus caudatus by Clayton.

hair-scale (hār'skāl), n. One of the modified hair-like scales which occur on different parts of the bedref cortein. In echief rabbis in the orient. The chief rabbis in the orient rabbis in the orient. The chief rabbis in the orient rabbis in the orient rabbis in the orient. The chief rabbis in the orient rabbis in th mann.] A member of the league organized in Germany for the support of Prussian measures against the Poles in Posen. N. and Q., 9th ser., IX, 145, 374,

hake2, n.- White hake, a small fish of the family



White Hake (Urophycis tenuis). (From Bulletin 47, U. S. Nat. Museum.)

Gadidæ, or codfishes. Urophycis tenuis, a common species, is found off the New England coast. Others are found in the same region and in Europe.

hako (hä'kō), n. [Pawnee.] A ceremony of the Pawnee Indians, intended to benefit cer-

tain individuals by bringing to them the promise of children, long life, and plenty, and establishing at the same time a bond between the persons taking part in it, thus insuring friendship and peace between different clans or tribes. Alice C. Fletcher, 22d Rep. Bur. Amer. Ethnol., II. 14.

Amer. Ethnol., II. 14.

The expression "hako" is used to describe the whole of the articles employed in the ceremony, which are two feathered stems of ash wood from which the pith is burnt out; an ear of white corn; three sticks of plane tree; owl and eagle feathers; the heads of two woodpeckers; the head, neck, and breast of two dueks; a wild est skin; fat from a consecrated deer or buffalo; an oriole's nest; and other objects. . . The two feathered stems are treated by the tribe with great reverence, and always deposited on the wild cat skin when not in use. One symbolizes the sky, the other the earth. The ear of corn represents the fruitfulness of the earth, and is called "mother." This seems to indicate an origin for the ceremony among agricultural tribes, though it has been adopted by the hunting tribes. It does not appear, however, that the rites were performed at any stated time, or had any connexion with planting or harvesting.

Atherwam, May 20, 1905, p. 628.

hala (hä'lä), n. [Hawaiian.] The native screw-

hala (hä'lä), n. [Hawaiian.] The native screwrins. Coarse mats are made of the leaves.

halachist (hä-läch'ist), n. One who is learned in the halachah (which see).

Halælurus (ha-lē-lū'rus), n. [NL., ⟨Gr. αλς, sea, + αιλουρός, cat.] A genus of sharks of the tropical Pacific, belonging to the family Sculiorhinidæ.

halah (cha'la), n.; pl. haloth (cha'lot). [Heb., ⟨ halal, perforated.] A cake; originally, a loaf used in offerings (Num. xv. 20 et passim) and now partaken of at the three meals of Saband now partaken of at the three meals of Sabbaths and festivals. As now used it is a well-baked, elongated, and twisted loaf, thick in the middle and tapering toward the ends, with poppy-seed sprinkled over the top. The halah of some festivals differs in form from the ordinary Sabbath cake: for example, that used at the Rosh ha-shanah festival (New-Year's day) is made in the form of a ladder. The reason given is that, it being the season of prayer for forgiveness, the ladder symbolizes the ascension of the prayers heavenward.

halapepe (hä-lä-pā'pā), n. [Hawaiian.] A tree of the lily family, Dracana aurca, bearing golden-yellow flowers and small yellow berries, and yielding a soft, whitish wood out of which

and yielding a soft, whitish wood out of which

the natives used to carve their idols.

halatinous (ha-lat'i-nus), a. [Gr. ἀλάτινος, of salt, ⟨άλας (άλατ-), salt, ⟨άλς, salt: see salt¹.] Having the character of common salt. [Rare.] halbling (hälb'ling), n. [G., \(\) halb, half, + dim. -ling. Cf. halfling \(\). A small coin of Basel and of other Swiss and German states.

halching (hal'ching), n. [halch + -ing.] The entanglement of the coils of yarn at the nose,

or top, of a spinning-mule cop. Nasmith, Cotton Spinning, p. 286.

Haleciidæ (hā-lē-sī'i-dē), n. pl. [NL., < Halecium + -idæ.] A family of campanularian hydroids having the hydrothecæ reduced to shallow, saucer-shaped, pedunculate appendages, the hydranths with conical hypostomes and the gonophores hedrioblastic. It contains the genera Halecium, Diplocyathus, and Ophioides.

Halecium (hā-lē'si-um), n. [NL.] The typical genus of the family Halcciidæ. Oken, 1815. half. I. a.—Half fifteen, in tennis, a point given to a anpposably inferior player at the heximing of the second and subsequent alternate games of the set.—Half forty,

in tennis, two points given to a supposably inferior player at the beginning of the first game, three at the beginning of the second, and so on alternately in the subsequent games of the set.— Half thirty. See *thirty.

II. n.—Half a stroke. See ★strokel. half-arc (häf'ärk), a. Noting an electric arelamp of approximately half the usual illuminating power. In commercial practice arc-lampa supplied with from 9.5 to 10 amperes and 450 or more watts were classed as full-are lamps; those taking from 6.5 to 7 amperes and 325 to 350 watts, as half-arcs. Also used substantively.

half-beam (häf'bēm), n. In ship-building, a deck-beam which extends only part way across the vessel, being cut off at a hatchway or similar opening through the deck.

half-bird (häf'bèrd), n. One of the smaller ducks, such as the teal: so named because it sells for half the price of the larger species. [Eng.]

half-bit (häf'bit), n. The Spanish half-real in

the British West Indies.

half-blind (haf' blind), a. Noting holes in plates (which are to be riveted together) which do not coincide or match, those of one plate being partly covered by the other plate.

half-breadth (häf'bredth), n. In ship-building, the distance of any given point on the outer skin or of the exterior line of the frames (in the latter case called molded half-breadth) to the central longitudinal plane of the vessel.

Half-breadth plan. See plan.

half-breed, n.—Bigeneric half-breed, the product of a cross between varieties of species belonging to different genera.

half-broad (häf'bråd), n. An English gold coin, a double crown of James I.
half-bull (häf'bul), n. A term employed by sealers to denote a male fur-seal from four to sext years old. The largest half-bulls are practically full grown, but not strong enough to fight their way into the rookeries and establish themselves. They are dark gray in eolor, lacking the brownish tint characteristic of old male fur-seals. This class of seals is termed potusikatchi by the Russians.

half-butt (häf'but), n. A cue, used only in English billiards, the length of which is halfway between that of a long and that of an ordinary cue.

half-center (häf'sen"ter), n. The position of the crank-pin of an engine when it is midway between the two dead-centers or dead-points. pine of the Hawaiian Islands, Pandanus tecto-trius. Coarse mats are made of the leaves. half-clutch (häf'kluch). n. A jaw-clutch iu which each jaw is half a cylinder, and consequently has only one driving-face for each direction.

half-column (haf'kol "um), n. An engaged column of which only half, or about half, projects horizontally from the surface of a wall. half-crown, n.—Newark half-crown, an English piece of Charles I., struck at the siege of Newark. half-davit (häf 'dav "it), n. Naut., a fish-

davit.

half-florin (häf'flor"in), n. An English coin, first coined in gold by Edward III. in 1344. It was current for 3 shillings and weighed 54 grains.

half-hardy (häf'här"di), a. In hort., noting an intermediate grade between tender and hardy: said of plants which withstand a little frost, but not a hard one, and are sown or planted out after frosty weather is past and before the weather becomes thoroughly settled. Sometimes used also for plants which will live out of doors throughout the year if given shelter or protection.

half-hit (hät'hit), n. See *hit1. half-iron (hät'ī*ern), n. In golf, a half-shot with an iron club.

half-joe (häf'jö), n. A Portuguese gold coin, originated in 1722, the half-dobra of 6,400 reis: one of the most popular gold coins of the New World in the eighteenth century.

half-lap (häf'lap), n. The metallic matrix, or bed, in which are embedded the rows of combing-needles in a cotton-combing machine.

— Half-lap roller, the part of a cotton-combing machine which carries forward the combed sliver.

half-lapped (häf'lapt), a. Lapped about one half as much as when brought to the proper position: used of rivet-holes that do not meet

properly, but are half-blind. half-lichen (häf'li"ken), n. An ascomycete which lives as a saprophyte during its early stage, but later becomes associated with algowhich, usually, have been injured.

Spheria Lemaneæ and Thermntis velutina are examples of half-lichens.

D. H. Campbell, University Text-book of Bot., p. 188.

half-looper (haf'lo'per), n. Any one of many noctuid larvæ which, because they do not have the normal number of prolegs, move like geometrid larvæ.

half-man (häf'man), n. On coasting-vessels,

a landsman, or deck-boy. [Eng. slang.]
half-moon, n. 5. A species of rudder-fish,
Medialuna californiensis, found on the coast of southern California.

half-mourner (häf'mör"ner). n. Au old British collectors' name for a black and white European agapetid butterfly, Melanargia galathea. Also called the marbled white.

A gold coin of Edhalf-noble (häf'no"bl), n.

flights, so that the direction of the stairs is completely changed.

halfpenny, n.—Mark Newby halfpenny. Same as St. Patrick *halfpenny.—St. Patrick halfpenny, a private copper token issned in Ireland between 1600 and 1630, with St. Patrick on the reverse: current in

half-rater (häf'rā"ter), n. A small yacht of less than the unit of rating (one ton). [Eng.] (traus.), Planktonic Studies, p. 578.

half-ray (hāf'rā), n. 1n math., the aggregate of all points of a straight which are on one as halibiost - ot-ic.] Living in the sea. points of a straight which are on oue and the same side of O, a point of the straight. half-seal (häf'sēi), n. In Eng. law, a seal used in the Court of Chancery to seal commissions issued to delegates appointed to hear appeals in marine er ecclesiastical causes.

half-sheet (häf'shēt), n. In printing, an abbreviation of one half of a sheet of double size.

When presswork was done on a hand-press, upon sheets of small size, the sheet of octavo had its pages 1, 16, 13, 4, 9, 8, 5, 12, first printed from one form on one side of the sheet. Pages 3, 14, 15, 2, 11, 6, 10, 7, were next printed on the hack of that sheet, so arranged that they would fold in order as one sheet of 16 consecutive pages. This method was called sheet wise. When large machines were used for presswork the two forms were rearranged in one form to preduce 16 larges at one interession on one side. used for presswork the two forms were rearranged in one form to produce 16 pages at one impression on one side. Turning the paper upside down for the subsequent printing on the hack of the sheet enables the pressman to back each page with its proper mate and produce two copies of 16 pages. Each half-sheet of the paper cut in two contains the same number of pages as that of the sheet printed sheetwise. sheet, printed sheetwise.

De Vinne, Mod. Book Composition, p. 337.

half-shoe (häf'shö), n. A shoe which covers but one side of a horse's foot: used to correct some defect in the growth of the hoef.
half-shot, n. 2. In golf, a stroke of less dis-

tance than a full shot, and played with a half swing: less than a three-quarter shot and

more than a wrist or quarter shot.

half-sibling (häf'sib"ling), n. A breeders'
term for a half-brother or half-sister; the effspring of different mothers by the same sire.

The high values, however, found for half-siblings in the case of the thoroughbreds seem to indicate that we must look rather to unit prepotency than intermittent pre-potency for the source of the high value of fraternal as compared with parental correlation in the case of the horse. Biometrika, Nov. 1903, p. 391.

Half-speed shaft. See *shaft.

half-spring (häf'spring), n. A spring made up of one set of leaves; a half-elliptic spring. half-sprit (häf'sprit), n. The sprit of a foreand-aft rigged vessel, all on one side of the

As she sailed before with a half-sprit, like a yacht, she sailed now with a square sail and a mizzen, like a ketch.

Defoe, Captain Singleton, xviii.

half-stopped (häf'stopt), a. In organ-building, said of pipes which are partially closed at the

top by a lid or cover.

half-tone, n. 3. A picture printed from a plate produced by the half-tone process (which plate produced by the half-tone process (which see), or the plate itself.—Half-tone process, a phototypographic method in which, in the process of photographing the object, as screen of netting, or a ruled glass, is interposed between the lens and the sensitized plate. From the negative thus made, a positive image is produced upon a prepared metal plate and etched into relief by acids. The screen is designed to give to the etching a texture similar to that produced by the engraver. A common, but in large manner remediable, effect of its use is an undue softening of both lights and shadows with loss of distinctness.—Half-tone screen, in photog., a sheet of glass ruled with fine lines, crossing one another at right angles, inserted in the camera about one sixteenth of an inch from the negative. It enables half-tones to be obtained in photo-engraving. The lines run from 109 to 250 per square inch. See *half-tone process.—Three-color half-tone process, a method of engraving in relief by photography, and

etching upon three separate metal plates of printingsurfaces of yellow, red, and blue, which are successively
superimposed in printing on a typographic press, to produce the many needed combinations of color required for
a truthful picture. Successful workmanship depends on
the ability of the photographer to detect and practically
dissect the primary colors of a pictorial design, on the
skill of the engraver by hand who may seek improvement
in varying the cross lines on the plates that make neater
combinations of colored lines, on the purity of the primary colors and accuracy of register in printing. The
four-color process has the added color of black or other
dark color that aids distinctness.

II. a. Noting a print or plate, produced by
the half-tone process. See above.

the half-tone process. See above.
half-top (häf'top), n. Naut., a small, narrow platform which rests upon the trestle-trees of

ward III. of England, and of succeeding kings to Edward VI.

half-pace, n. 2. A landing in a stair which separates two flights of stairs. It differs from quarter-pace in that it crosses the ends of both the connecting-rod is attached, but not having a trunk or hellow piston-red to which the connecting-rod is attached, but not having the connecting rod is attached.

a trunk on the opposite side of the piston. half-vision (häf'vizh"en), n. Hemianopsia. half-volley (häf'vol"i), n. In cricket, a ball which reaches the batsman just after it has pitched upon the ground. Hutchinson, Cricket,

half-plane (häf'plān), n. Same as *hemiplane. half-proof (häf'proof), n. In civil law. evidence entitled to some weight, but insufficient as foundation for a sentence or decree.

p. 0.0.
half-plane (häf'plān), n. Same as *hemiplane. halibios (ha-lib'i-os), n. [Also halibius; ⟨ Gr. hal fresh water and those of the land.

as halibios + -ot-ic.] Living in the sea.
halibut, n.—Arrow-toothed halibut, the slenderbodied halibut, Atheresthes stomias, of the North Pacific,
with arrow-shaped teeth.—Bastard halibut, a large
flounder, Paralichthys californicus, found in the Gulf of
California. It differs from the true halibut in the much
smaller size and in the fact that its tail is doubly concave
at the point, instead of simply lunate or forked.
Halichœres (hā-li-kē'rēs), n. [NL., prop. Halichærus, ⟨Gr. ā̄̄̄̄̄ς, sea, + χοῖρος, hog.] A genus
of Labridæ found in tropical seas. It is characterized by the presence of 9 spines in the dorsal fin, of
large scales, and of a canine tooth in the posterior part of
the jaw. There are many species, highly variegated in
color. H. radiatus is the pudding-wife and H. bivittatus
the Slippery Dick of the Atlantic coast of the United
States.

halichondrine (hal-i-ken'drin), a. Resembling or having the characteristics of the sponges belonging to the order *Halichondrina*; halichondroid.

halicurrent (hal-i-kur'ent), n. [Gr. άλς, sea, + 1. currens, current.] A stream or current in mid-ocean, as contrasted with a coast current. The Gulf Stream is the mest familiar example Haeckel (trans.), Plankof a halicurrent. tenic Studies, p. 625.

halide (hal'id), a. [Gr. $\hat{a}\lambda \varsigma$, salt, $+-ide^1$.] In chem., having a constitution similar to that of common salt; haloid: thus, potassium iedide is a halide salt analogous to sodium chlorid or common salt.—Halide acid, an acid corresponding to a halide, or haloid, salt, containing hydrogen in place of the electropositive element or radical of the salt, as hydrochhoric acid from sodium chlorid, or hydroide acid from potassium iodide. Jour. Physical Chem., April, 1001 2, 282 302.

Halieutæa (hal"i-ū-tē'ä),n. [NL., < Gr. ἀλιευτής, otherwise ἀλιεύς (ἀλιευτ-), a fisher, a seaman, ζάλιεύειν, fish.] A genus of frogfishes of the family Ogcocephalidæ, found in the deep waters of the Pacific.

Halieutella (hal"i-ū-tel'ā), n. [NL., \Gr. \alpha\text{identife}, a fisher, \perp \L. \cdot ell\alpha.] Agenus of frogfishes of the family \(\text{Ogcoephalide},\) found in the deep waters of the Atlantic.

halieutic (hal-i-ū'tik), a. [Gr. ολιευτικός: see halieutics.] Of or pertaining to fishing.

Halieutics.] Of or pertaining to fishing. Halieutichthys (hal*i-ū-tik'this), n. [NL., \langle Gr. ἀλιευτής, fisher, $+i_{\lambda}θ_{i}c$, fish.] A genus of frogfishes of the family Ogcocephalidx, found in the deep waters off the West Indics. halieutics, n. 2. That branch of practical theology ('fishing for men') which treats of the theory of the properties of Christian

theory of the extension of Christian missions; the science of Christian missions,

genus Halicutæa.
haligi (hä-lē'gē), n. [Also (Sp.) haligui, (mineral constituents of none wines of the model of the wooden posts or piles on halisteretic (ha-lis-te-ret'ik), a. [halisteresis (-et-) + -ic.] Relating to or affected with haligi (hä-lē'gē),

haligraphy (ha-lig'ra-fi), n. [Gr. ἀλε, salt, + halisteresis.
-γραφία, ζγράφειν, write.] A discussion of the halitherioid (hal-i-thē'ri-oid), n. and a. I. n. sources, properties, etc., of saline substances.

A sirenian mammal allied to Halitherium. [Rare.]

halilimnic (hal-i-lim'nik), a. [Gr. $a\lambda \xi$, sea, + $\lambda i\mu \nu \eta$, lake, + -ic.] Living in fresh water, but exhibiting genetic affinity with forms of life that are restricted to salt water; actually limnetic, but phylogenetically marine. Also halolimnic. See *halibiotic.

The fauna of Lake Tanganyika is to be regarded as a double series, one-half consisting of forms which are found everywhere in African fresh waters, the other of what we may call halolimnic organisms, which are found nowhere else in the world, at least so far as is at present known.

J. E. S. Moore, quoted in Internat. Year Book, 1898, p. 270.

halimeter (ha-lim'e-ter), n. [Gr. άλς, salt, + μέτρον, measure.] An apparatus for determining the strength of a saline solution; specifically, a device for estimating the amount of water in beer by determining the quantity of salt the beer will dissolve.

halimetric (hal-i-met'rik), a. [halimetr-y + -ic.] Of or pertaining to halimetry or the halimeter. [Rare.]

halimetry (ha-lim et-ri), n. [Gr. ἀλς, salt, + -μετρία, < μέτρον, measure.] Determination of the strength of a saline selution. [Rare.] halimetry (ha-lim'et-ri), n. halimous (hal'i-mus), a. [Gr. $\tilde{a}\lambda \mu o \varsigma$, of the sea ($\langle \tilde{a}\lambda \varsigma$, the sea), + -ous.] Having relation

of heavy gloves or woolen mittens used to pro-tect the hands of sailers and fishermen on the Maine coast, while hauling heavy cables, etc.: frequently double lined in the palms with A. M. Earle, Costume of Colonial leather. Times, p. 122.
halinous (hal'in-us), a.

[Gr. ålivog, of salt, < äkç, salt.] Having relation to common salt.

[Rare.]

haliplankton (hal-i-plangk'ton), n. the sea, + NL. plankton.] The floating and swimming organisms of the ocean, considered collectively and in contrast with the organisms that float or swim in fresh water; the plankton. Also haloplankton. See *plankton and *limnoplankton. Haeckel (trans.), Planktonic Studies, p. 580.

Halisarca (hali-sür'kä), n. [NL.. \langle Gr. $\hat{a}\lambda_{\zeta}$, the sea, $+ \sigma \hat{a}\rho \xi$ ($\sigma a\rho \kappa$ -), flesh.] The typical genus of the family Halisarcidæ. Dujardin.

Halisarcidæ (hal-i-sär'si-dē), n. pl. [NL., < Hulisarca + -idæ.] A family of hexaceratine triaxenian spenges, having the flagellated chambers syconate and the skeletal structures about 11 certains. tures absent. It contains the genera Halisarca and Bajulus.

Halisaurus (hal-i-sâ'rus), n. [NL., < Gr. άλς, sea, + σαύρος, lizard.] A genus of marine reptiles, referred to the Mosasauridæ, based on incomplete material from the Cretaceous of New Jersey: a synonym of *Baptosaurus.

spectively, closely resemble it, and it is regarded by some paleobotanists as a dicotyledonous plant. halistase (hal'i-

stās), n. [Gr. âλς, sea, + στάσις. standing.] The tract of quiet water within the gyration of a



Haliserites Reichin, one half natural size. (From Sternberg's "Flora der Vorwelt.")

great oceanic current. The Sargasso Sea, in the

sions; the science of Christian massives, specifically, of fereign missions.

Halieutinæ (hal-i-ū-ti'nē), n. pl. [NL., \langle Halieutinæ (hal-i-ū-ti'nē), n. pl. [NL., \langle Halieutinæ (hal-i-ū-ti'nē), n. pl. [NL., \langle Halieutinæ (hal-i-ū-ti'nē), n. pl. [Gr. $\tilde{a}\lambda \zeta$, salt, + $\sigma \epsilon \rho \eta \sigma i \zeta$, deprivation, \langle $\sigma \tau \epsilon \rho \epsilon i \nu$, deprive.]

II. a. Resembling Halitherium.

halitosis (hal-i-tō'sis), n. [NL., < L. halitus, breath, + -osis.] Offensive breath.
halitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, \(\triangle \) halology (ha-lol'ō-ji), n. [Gr. \(\tilde \) \(\tilde \) halos same as \(\tilde \) halitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, \(\tilde \) halitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, \(\tilde \) halology (ha-lol'ō-ji), n. [Gr. \(\tilde \) \(\tilde \) same as \(\tilde \) halikah (hā-lō'kā), n. [Also chaluka: Heb. halitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, \(\tilde \) halology (ha-lol'ō-ji), n. [Gr. \(\tilde \) \(\tilde \) same as \(\tilde \) halitsa, \(\tilde \) halitsa, \(\tilde \) halitsa, \(\tilde \) halos chaluka: Heb. halitsa, \(\tilde \) halos chaluka: Heb. halitsa, \(\tilde \) halos chaluka; divide.] The annual and other contributions sent by Jews for the support of their brethren in the Holy Land. It stances as a class of chemical compounds. [Rare.]

halometer (ha-lom'e-ter), n. [Gr. \(\tilde \) \(\tilde \) salt, + \(\tilde \) halurgist (hal'er-jist), n. [halurg-y + -ist.] halurgist (hal'er-jist), n. [Gr. \(\tilde \) \(\tilde \) solt work. The manufacture of salt solt work.

haller (hal'èr), n. [G. dial. variant of heller.] A small copper coin of the Swiss canton of Zug.

Halleyan line. See *line2. halliblash (hal'i-blash), n. A great fire. [Prov. Eng.]

'Oh-go long wi yo!' said Hannah in high wrath, 'Ilc an his lolke II mak a halliblash of ns aw soon, wi their silly faddle, an pamperin o' workin men, wha never wor an never will be no better nor they should be.'

Mrs. Humphry Ward, David Grieve, iv. 11.

hallopodous (ha-lop'ō-dus), a. Of or pertaining to the Hallopodidæ; of the nature of the Hallopoda.

Hallstattian (häl-stät'i-an), a. [G. Hallstatt, in Austria, where extensive remains characterizing this period were found, + -ian.] In prehistoric archæol., noting the first period of halophyte, n. 2. In phytogeog., a plant adapted

the iron age.

hallucar (hal'ū-kṣr), a. [L. hallux (halluc-), the great toe, + -ar³.] Relating to the hallux or great toe; hallucal. [Rare.]

hallucination, n.—Collective hallucination, in psychol, a hallucination experienced similarly and simultaneously by a number of persons similarly situated.

hallucinative (ha-lū'si-nā-tiv), a. Hallucinative

hallucinative (ha-lū'si-nā-tiv), a. Hallucinatory; productive of hallucinations.

Hallux dolorosus, a condition associated with flat-toot in which pain is felt in the great toe when an attempt is made to walk.—Hallux flexus, hammer-toe affecting the great toe.—Hallux rigidus, stiffness of one or or both of the joints of the great toe.—Hallux valgus, deviation of the great toe otherward, so that it overlaps the other toes.—Hallux varus, deviation of the great toe other toes.—Hallux varus, deviation of the great toe inward, away from its fellows.

halma (hal' mā), n. [Gr. ἀλμα, a leap, < ἀλλεσθαι, leap.] A game for two persons, played on a special board of 256 squares with 19 men apiece, the object of each player being to drive out his opponent's men from their position and to replace them with his own.

position and to replace them with his own. halmatogenesis (hal ma-to-jen'e-sis), n. [Gr. $a\lambda\mu a(\tau-)$, a leap, + $\gamma \dot{\epsilon} \nu \epsilon \sigma \alpha$, production.] In biol., the sudden appearance of new characters in animals or plants. Same as saltatory or discontinuous *variation.

sence of an auricle. It is very abundant in the Triassic rocks.—Halobia shales. See **shale2. halobiotic (hal*ő-bī-ot'ik), a. Same as **hali-

halochromism (hal-ō-krōm'izm), n. [Gr. āλω, a halo, + χρῶνα, color, + -ism.] The property possessed by certain organic compounds of forming highly colored salts with colorless acids and without themselves under-

going any change of structure.

In connection with this subject reference may be made to some recent work of v. Baeyer and Villiger on dibenzylidene acctone and triphenyl methane. They refer to the constitution of colourless substances which form highly coloured salts, and term the phenomenon halochronism.

Ren Revi dain 1.

Rep. Brit. Ass'n Advancement of Sci., 1902, p. 119. halogenate (hal'ō-jen-āt), v. t.; pret. and pp. halogenated, ppr. halogenating. [halogen + -ate².] To introduce a halogen atom into (a compound); especially, to substitute a halogen for hydrogen in an organic compound.

A restatement of the view that the reactivity of the halogens in ortho- and para-halogenated nitrobenzenes la due to the assumption of the elements of a molecule of water by the nitro-group, with subsequent intranolecular changes, leading to the production of a tautomeric form of a nitrophenol with the losa of a molecule of a halold acid.

Nature, Feb. 12, 1903, p. 358.

halogenize (hal'ō-jen-iz), v. t.; pret. and ppr. halogenized, ppr. halogenizing. [halogen+-ize.] In chem., to cause (a substance) to combine with or to take up one of the halogen elements, as chlorin or bromine. Smithsonian Rep., 1890, p. 383

haloidite (hal'oi-dīt), n. [Gr. άλς, salt, +εlδος, form, + -ite².] In pelrog., a term applied by Wadsworth (1892) to rock-salt.

ing the form, angles, and plane surfaces of crystalline salts.

halonial (ha-lo'ni-al). a. [Halonia + -all.]

Belonging or relating to the fossil plant-form called Halonia (which see).

halophil (hal'o-fil), a. Same as halophilous. Also halophite.

halophilism (ha-lof'i-lizm), n. [halophil+-ism.] The character of being halophilous.

I found a close correspondence between the halophilism of the plant and the power of its root-hairs to resist plasmolysis. W. F. Ganong, in Bot. Gazette, Nov., 1903, p. 354.

halophilous, a. 2. In zoöl., inhabiting salt marshes and sea-coasts.

It seems that littoral Myriopods are much more frequent than is generally supposed, but the author distinguishes accidental halophilous forms (three species of Lithobius found in Normandy by Gadean de Kerville).

Jour. Roy. Micros. Soc., April, 1904, p. 180.

to the absorption of common salt or other salts and confined to or preferring a salty substratum, as the sea or the sea-shore. Ilalophytes were treated by Warming as a class coordinate with hydrophytes, xerophytes, and mesophytes, though recognized as essentially xerophytic in physiological character. Schimper and other late writers have regarded them as included in variable to included in xerophytes

halophytic (hal-ō-fit'ik), a. [halophyte + -ic.]

1. Having the character of a halophyte; ha-

which have the body ovate and rounded behind. the fins broadened at the back, and gills and proboscis absent. It includes the genus Halopsuche.

halosauroid (hal-ō-sâ'roid), a. Of or belonging to the family Halosauridæ. Proc. Zool. Soc. London, 1897, p. 268.

London, 1897, p. 268.

ham1, n.—Beef ham. Same as collared beef (which see, under collared).

hamamelidaceous (ham-a-mē-li-dā'shins), u.

or discontinuous *τατίατίοη.

halo, n.—Diffraction halo. See *ddifraction.—Hering's halo, in psychophys., the bright fringe which surrounds the dark after-image of a bright object seen on a dark background: an effect of brightness contrast. Ε. C. Sanford, Exper. Psychol., p. 161.

Halobia (ha-lō'bi-ā), n. [NL., ⟨ Gr. āλζ, sea, + βως, life.] A genus of prionodesmaceous pelecypod mollusks, characterized by the absence of an auricle. It is very abundant in \$\lambda \text{L. sal. salt.} \] In chem. a salt of the same

halosel (hal'ō-sel), n. [Gr. \hat{a} ? ζ , salt, + F. sel, ζ l. sal, salt.] In chem., a salt of the same type as sodium chlorid; a halide or haloid salt. [Rare.]

halo-symptom (hā'lo-simp#tom), n. The appearance as of a colored circle surrounding a light: one of the signs of glaucoma.

halotechnic (hal-ō-tek'nik), a. [Gr. âλς, salt, + τέχνη, art, + -ic.] Concerned with the extraction, preparation, and use of saline substances, as of common salt.

halotechny (hal'ō-tek'ni), n. [Gr. $\hat{a}\lambda c$, salt, $+\tau \epsilon \chi \nu \eta$, art, $+y^3$.] The art of extracting,

preparing, and using common salt and other saline substances. [Rare.] halter?, v. t. 2. To hang with a halter; hang. halter-cast (hâl'têr-kâst), a. Said of an animal which has been thrown by becoming entended in its balton. tangled in its halter.

Halterididæ (hal-te-rid'i-dē), n. pl. [NL. (Halteridium + -idæ.] A family of Sporozoa, of the order Hæmosporidia, which contains the genera Halteridium and Polychromophilus. The former is found in the blood of birds and the latter in that of bats.

Halteridium (hal-te-rid'i-um), n. [NL., < (1) Gr. $d\lambda r h \rho$, a balancing-weight in leaping, $\langle NL$. halter (see halter³), + Gr. dim. - $\iota d\iota o\nu$.] 1. A genus of Hæmosporidia which consists of haltershaped organisms parasitic in the blood-corpuscles of common birds. The typical genus of the family Halterididæ. Labbé, 1894.—2. [l. c.] A protozoan of the genus Halteridium.

Ross further showed that the mosquito which served as Ansa lattile: showed that the mosquito which served as an intermediate host for this parssite could not transmit the malarial parasite of man or another similar parasite of birds (hatteridium).

G. M. Sternberg, in Pop. Sci. Mo., Feb., 1901, p. 367.

work.] The manufacture of salt: salt-working. T. Ross, trans. of Humboldt, Travels, III. xxxi. N. E. D. halved, a. 2. In golf, having the same score on each side: as, a hole is hatred when each on each side: as, a pole is hatred when each side.

side takes the same number of strokes; a match is halved when both sides have won the same number of holes, or have proved equal; etc.

halving (hä'ving), n. The act of dividing anything into halves or sharing by halves; specifically, the act of putting together two pieces of material, as wood, by cutting away half of the thickness of each and lapping them one upon another, when a pin or nail or glue

may hold them tast.

halving-joint (hä'ving-joint), n. A joint made by *halving (which see).

halving-joint (hä'ving-joint), n. A joint made by *halving (which see).

halyard, n.— Ensign-halyards, the line or whip by which the ensign is run np or hoisted to the peak of the gaff or to the head of the flag-staff.—Flying-jih halyards, the purchase used to hoist the flying-jih along its stay.—Jib-halyards, the tackle nsed in hoisting the jib. The power of the purchase is adapted to the weight of the sail and ranges from a single whip to a double and single block.—Jib-0-jib.—Royal-halyards, the purchase by which the royal-yard is hoisted.—Smoke-stack halyards, a sailors' name for the cog-wheel or other mechanism by which telescoping smoke-stacks are hoisted.—Staysall-halyards, the purchase by which a staysail is run upon its stay.—Studdingsail-halyards the whip which is bent to the studdingsail-halyard and by means of which the latter is hanled out to the yard-arm.—Topgallant-halyards, the purchase which is used to hoist the topgallant-yard after the topgallantsail has been sheeted home, so that the canvas will be flattened or extended to the wind.—Topsail-halyards, these halyards are the heaviest of any for hoisting yards. They pass overlarge ginor tie-block sheeves abaft the respective masts, and in order to get a big purchase are rigged or rove as follows: on one side of the deck a long pendant is shackled, which reaches to the top; then a long drift of chain is shackled in, which leads through the gin-block, or topsail tie-block, and thence toward the deck, and to this end, some distance above the deck a purchase is secured by means of which tides the deck is long.

halysitid (ha-lis'i-tid), n. One of the Hulysi-

hamamelidaceous (ham-a-mē-li-dā'shins), u. Belonging or pertaining to the plant family Hamamelidaceæ.

hamathionic (ham a-thī-on'ik), a. [Gr. ā/a, together, + \theta cior, sulphur, + \cdot on + \cdot c.] Noting an acid, a syrupy compound, C12H18SO161 formed by the action of sulphuric acid on euxanthic acid.

hamatum (hā-mā'tum), n.; pl. hamata (-tā). [NL., neut. (sc. os, bone) of L. hamatus, hooked: see hamate.] The outermost bone in the second row of carpals, commonly called uneiform (which see).

hambergite (ham'berg-it), n. [Named after A. Hamberg, a Swedish mineralogist.] A hydrated beryllium borate, Bc₂(OH)BO₃, occurring in grayish-white orthorhombic crystals: found in southern Norway.

Hambleton oölite. See *oölite.

hame¹, n.—Concord hame, a bent-wood harness-hame, strengthened by a strap of iron on the outside.

haminura (ham-i-nū'rā), n. [Said to be S. Amer.] A large food-fish, Hoplias malabariens (Macrodon trahira), of the family Erythrinidæ, inhabiting fresh waters of South America.

Hamitoid (ham'i-toid), a. [Hamite +-oid.] In ethnol., similar to the Hamites; especially, of a Hamitia type which is influenced by negro

a Hamitic type which is influenced by negro blood.

Hamito-Semitic (ham'i-tō-sē-mit"ik), a. Relating to the peoples speaking Hamitic and Semitic languages which are considered members of one linguistic stock.

hamlet², n. 2. Gymnothorax moringa, an eel of the family Murænidæ.

hamlinite (ham'lin-ît), n. [Named after A. Hamlin, an American mineralogist.] phosphate of aluminium and strontium with fluorin and water, occurring in colorless rhombohedral crystals: found at Stoneham, Maine, and also in Brazil.

hamma (ham'ä), n. [AL., AS. and ME. ham (hamm-), an inclosure: see ham3.] In old

closed yard adjoining a house.
hammada (ham'a-dä), n. [Ar.]
desert upland or plateau. [Sahara.]

The composition and influence on the hydrography of the hammada, or Cretaccous and Tertiary plateaux of the higher and lower Sahara.

Geog. Jour. (R. G. S.), XVI. 225.

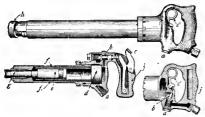
Hammarbya (ham-är'bi-ä), n. [NL. (Kuntze, marby, the villa of Linneus in the suburbs of Upsala.] A genus of monocotyledonous plants belonging to the family Orchidaceæ. See Malaxis.

hammel2 (ham'l), n. A shed of about 150 feet area opening into a small courtyard, employed in Great Britain for feeding cattle singly or hammerless (ham'er-les), a. at most by twos.

hammel-feeding (ham'l-fe''ding), n. The system of feeding cattle in hammels. It has the advantage over stall-feeding and box-feeding (feeding free in an inclosure about 10 feet square and 12 feet high) of permitting the animal air and exercise, and also requires less litter.

These objects are attained by the system of hammel-redding, as it is termed. A hammel consists of a small shed, etc.
Fream, Complete Grazier (14th ed., 1900), p. 171.

hammer¹, n., 2. (j) In athletics, a 16-pound weight (or a 12-pound weight for school-boys), attached by hall-bearing to a wire handle, which competitors, standing in a marked circle, endeavor to throw as far as possible. The old-fashioned hammer had an ordinary stiff wooden handle.—Boller-maker's hammer, a hammer resembling the bridge-builder's hammer, a hamner resembling the bridge-builder's hammer, the headache following a debanch. [Colloq.]—Bridge- or ship-huilder's hammer, a heavy hammer with two loug heads with small faces.—Coppering-hammer, a bost-builder's hammer with a large flat face and curved peen ending in a claw.—Corrigan's hammer, a metal disk attached to a wooden hammer-shaped appliance, formerly employed, when heated and applied to the skin, to cause rubefaction or a blister: similar in principle and application to Corrigan's button (which see, under button).—Duplex hammer, same as double hammer (which see, under hammer).—Interchangeable hammer, a hammer having a clamp on the handle for holding different styles of head and face.—Magnetic hammer, a long-handled tack-hammer having a head with a long slender peen. The head is a permanent magnet and can be used to pick up a tack by its head and hold it in position for driving.—Pneumatic hammer, a hammer operated by compressed air. It has an automatic valve which alternately



Pneumatic Hammer

a, inlet for compressed air by flexible hose; b, throttle-valve controlling entrance of air; c, trigger for operating throttle by thumb of operator; c', trigger for operating throttle by forefinger of operator; d', valve-box, carrying valve which admits air to cylinder, drives piston out for working stroke, and retracts it; c, piston sliding in working-cylinder, and acting as hanumer; f', channel by which air gets to front of piston to drive it back; g, shank of cutting-tool or riveting-set or swage; f', handle-grip.

admits and exhausts the air so long as a trigger is kept pressed down by the thumhor forefinger of the workman.

—Revolving hammer, a form of trip-hammer in which a revolving cam makes the hammer strike a quick suca revolving can makes the nammer strike a quick succession of blows.—Slater's hammer. Same as asax1, 2 (which see).—Wagner hammer [from P. Wagner], an antomatic electromagnetic interrupter which constitutes the bnzzer of du Bois-Reymond's inductorium.

hammer¹, v. I. trans. 5, To declare (a memmer¹, z. L. fault of the protice by because

ber) to be in default, after notice by hammering three times on the rostrum. [Stock-exchange slang, Eng.] -6. To beat down or depress (price or the market); bear.

II. intrans. 4. To make a knocking noise,

as a steam-pipe when steam is let on and a water-hammer is produced. See water-hammer, 2.

hammer-action (ham'er-ak"shon), n. In pianoforte-making, a collective name for the parts

which compose and control the namners.

hammer-block (ham'er-block), n. The steel shaped like a ham.
face of a steam-hammer which is fastened to hamular, a. II. n. The hamular process or slender curved end of the pterygoid. [Rare.] ing on the work to be done.

hammer-break (ham'er-brak), n. of ignition for internal-combustion motors where an arc is formed by separating two surfaces between which the current basket. basket

Eng. law, a small inclosed field or meadow; a ment is often shaped like the head of a hammer, and the sparks pass as the hammer is lifted from the anvil on which it has rested.

hammer-butt (ham'er-but), n. In pianofortemaking, the block, pivoted upou the action-rail, into which the base of a hammer-shank is

fitted. See cut under pianoforte. hammer-check (ham'er-chek), n. Same as hammer-catcher and check¹, 16.

hammerclavier (ham'er-kla-ver), n. One of the early forms of the pianoforte.

Hammered pottery. See *pottery. Hammer-fish oil. See *oil. hammer-head (ham'er-hed), n. In pianoforte-

making, the padded projection of the hammer which strikes against the string. [hammer +

-less.] Having no hammer or no visible hammer: applied, specifically, to a breech-loading small arm in which the cartridge is fired by the action of a firing-pin or a concealed hammer.

hammer-palsy (ham'èr-pâl "zi), n. *palsy.

making, the rail which extends through the action from side to side and against which the hammers rest when not in use. Also called spring-rail. See cut under pianoforte. in hammer-shank (ham'er-shangk), n. In piano-

forte-making, the slender rod or shank of wood which bears the hammer-head. See

cut uuder pianoforte. hammersmith (ham'er-smith), n. One who works or forges metal with a hammer; particularly, one who works large forgings under a steam-hammer.

hammer-tail, n. 2. In pianoforte-making, the backward projection of a hammer-head, designed to engage with the check.

hammer-toe (ham'er-tō), n. A deformity of one of the toes, commonly the second, marked by ankylosis of the joints—the proximal in extension, the distal in flexion.

hammochrysus (ham-ō-krī'sus), n. [L.; also ammochrysus, ζ Gr. ἀμμοχρυσος (only in Pliny and later Latiu writers), ζ ἀμμος, sand, χρυσός, gold.] In Pliny and later writers, a name probably designating a yellow mica schist or the sand yielded by it.

hammock n.—Up all hammocks! The command to lash hammocks and bring them on deck for stowing in the

hammock-nettings.

hammock-berthing (ham'ok-ber"thing), n. Naval, a box-like structure built above the deck at the side and forming bulwarks, or in the interior against the side, in which the hammocks are stowed when not in use. See

eut under frame, 6. hammock-box (ham'ok-boks), n. Naval, a large box in which are stowed hammocks for which there is not room in the hammockberthing.

hammock-carriage (ham'ok-kar"āj), vehicle in which the passenger is earried in a hammock swung between two posts attached to the axles. [Madeira.]

hammock-lines (ham'ok-linz), n. pl. Naut., sets of cords at each end of a hammock, by which it is hung up. Also called clues.

hammock-moth (ham'ek-môth), n. A South American moth, Perophora sanguinolenta, whose larva constructs a portable habitation from its own excrement.

hammock-rail (ham'ck-rail), n. Naut., the rail around the long troughs, known as hammock-nettings, built ou top of the bulwarks.

hammock-stanchions (ham'ok-stan shonz), n. Naut., iron shapes to which are secured on the main rail of the ship or on the plank-sheer or covering-board.

namo (hä'mō), n. [Jap.] An eel, Murænesox cinereus, of the family Murænesocidæ, found in hamo (hä'mō), n. the waters of Japan.

Hampstead beds. See *bed1. ham-tail (ham'tāl), n. A tail (of a horse)

. . . they appear to rise scarcely above the level of tips of hamulars. Annals and Mag. Nat. Hist., May, 1901, p. 450.

hana-kago (hä'nä-kä'gò), n. [Jap., < hana, flower, + kago, basket.] In Japan, a flowerbasket.

Several men had been terribly torn by the bloodhounds, who, when their masters had fied, noble brutes as they were, stood gasping and barking; and hanching at ns, at the entrance of the opening, thus covering their retreat;—spouting ont in a bound or two towards ns every now and then, and immediately retring, and yelling and barking at the top of their pipes.

M. Scott, Cruise of the Midge, p. 19.

hancockite (han'kok-īt), n. [Named after E. P. Hancock of Burlington, New Jersey.] A member of the epidote group, peculiar in containing lead and strontium, found at Franklin Furnace, New Jersey.

hand, n.—An old hand. (a) One who has had long experience: as, he's an old hand at that game. (b) One who, in the early days of Australian history, had been a convict.

The men who had been convicts are termed old hands;

they are mostly rude rough men with no moral principle or religious feeling.

T. Mc Combie, Australian Sketches, quoted in E. E. Mor[vis, Austral English.

[ris, Austral English.

A taut hand, naut., an officer who is a strict disciplinarian.—Book hand, a style of penmanship suitable for hooks, as distinct from ordinary cursive forms of writing.—Broken hand, in bridge, a hand in which the strength is distributed; one in which there is no snit long enough to be made the trump.—Buddha's-hand, a cultivated variety of the citron, Citrus medica, in which the individual carpels of the fruit are partially separated, often for half their length, and each is covered by the highly aromatic, oily rind; the whole fruit bearing a rough resemblance to the human hand. This fruit has an important place in Japanese and Chnese mytholin Japanese and Chinese mythology and is very often used as a decorative design in ceramics and other works of art.

Huge bowls of art.

Huge bowls of rare old porcelain held pyramids of fruits—
apples, sweet-smelling quinces, Fruit of Citrus medica
and the highly perfumed "Bud- (Buddha's-hand). Reduced.
dha's-hand."



Katharine A. Carl, The Century, Nov., 1906, p. 45. Cleft hand. See *deft.—Comparison of hands. See *comparison.—Complete hand, in poker, a hand from which cards have been discarded and to which other cards which cards have been discarded and to which other cards have been drawn.—Dead-man's hand, in poker, two pairs, jacks and eights.—First hand. (b) In card-playing, the one who leads in any trick.—Hands down, with ease; easily: as, to win the race hands down.—Hand under hand, the natural movement of the hands when descending a rope without employing the feet.—Original hand. In card-playing: (a) A hand which has not been discarded from. (b) In poker, the hand before the draw.—Plano hand, in whist of bridge, an easy hand to play.—Younger hand, in card-playing: (a) The opposite of eldest hand; the second player on the first trick. (b) In piquet, the dealer.

hand, r. t.—To hand over, to deliver.
hand-box (hand boks), n. In hort., a small
box, usually of wood, with a sliding pane of
glass, used for setting over individual plants or hills of plants in order to force them ahead of their season or to protect them. L. H. Bailey. See *forcing-hill.

hand-canter (hand'kan"ter), n. An easy, slow eanter. In racing it is understood to refer to an easy victory. If the winner come in at a hand-canter it means that he is so much shead of his competitors that there is no longer necessity to gallop—that victory is assured.

handcuft, handcuft. Simplified spellings of handcuff, handcuffed. hand-dynamometer (hand'dī-na-mom'e-ter),



Hand-dynamometer.

n. In physiol, and psychophysics, a dynamometer, of an oval shape, commonly used to measure the force of grip or squeeze of the hand. E. B.

Titchener, Exper. Psychol., I. ii. 167.

hand-grenade, n. 2. A fire-extinguisher consisting of a glass bottle filled with chemicals.

handhold, n. 3. In car-building, an iron bar firmly fixed to the side or end of a freight-car to assist trainmen in boarding it; a grab-iron.

handicap, n.—Flying handicap, a race in which the starting post is passed at full speed.

handing (han'ding), n. Making work which is symmetrical, on the right and the left hand,

with respect to an assumed plane of symmetry. The bulks are so flattened that when viewed from behind hand-iron (hand'i*ern), n. A tinman's stake. they appear to rise scarcely above the level of tips of See stake 1, 5.

hand-lamp (hand'lamp), n. In elect., an arc-lamp without antomatic feed, in which the adjustment of the carbons is made by hand from time to time.

handle-bar (han'dl-bär), n. In a bievele or motor-cycle, the curved bar in front of the rider by which the vehicle is guided by the hands. In the motor-cycle many of the con-trolling devices are affixed to the handle-bar. handle-piano (han'dl-pi-an'ō), n. A meehanieal pianoforte operated by a handle or erank, A meehan-

as a street-piano.

hand-light (hand'lit), n. A hand-glass; a bell-shaped glass used to shelter young seedlings and euttings from rain and wind: not in general use in the United States.

Hand-lights are freely used in the market gardens of this district [the vicinity of Evesham and Pershore] for the protection of cucumbers and vegetable marrows.

Encyc. Brit., XXVIIL 532.

Hangman's knot. See *knot1.

ship, an ammunition handling-room; a comparment immediately adjacent to those in which ammunition is stored and into which hank-dyeing (hangk'di*ing), n. The process which ammunition is stored and into which hank-dyeing (hangk'di*ing), n. they open. The lower ends of the ammunition-hoists are in the handling-rooms and the ammunition is passed from the magazines into the handling-rooms to be loaded into the hoists. See cut under *turret.

handmaid-moth, n.—Walnut handmaid-moth, Datana integerrina, an American species whose larvæ damage forest trees of different kinds.

hand-me-down (hand'mē-doun"), a. Same as

reach-me-down. hand-out (hand'out), n. In hand-ball, hand-tennis, and similar sports, the condition of the game when the striker is out and the players

change places. hand-pike (hand'pīk), n. A piked lever, nsually from 6 to 8 feet long, used in han-

dling floating logs. hand-rest (hand rest), n. The T-rest on a hand-lathe: so called because used as a rest for a hand-tool in turning and to distinguish it from an automatic or slide-rest.

handscrew, n. 2. A earpenter's clamp. hand-specimen (hand'spes"i-men), n. A specimen of rock or mineral not too large nor too small to be conveniently handled for pur-

poses of study. The standard size for rocks is 1 by 4 by 3 inches.

handspike (hand'spik), v. t.; pret. and pp. handspiked, ppr. handspiking. 1. To move by means of a handspike: as, to handspike a cannon into place.—2. To strike with a handspike.

Perhaps he did not know me—no, he could not, or he never would have handspiked me.

Marryat, Snarleyow, vi.

handspoke (hand'spok), n. A long spoke or bar fitted at each end for the hand; specifi-cally, one of the two used in Scotland in carrying a coffin to the cemetery, or from the hearse to the grave. Also called handspike.

The coffin, covered with a pall, and supported upon handspikes by the nearest relatives, now only waited the father to support the head. Scott, Antiquary, xxxi.

hand-square (hand'skwar), n. A modification of the squaring-machine, operated by hand, for the preliminary shaping and truing of tiles. See *rubbing-bed.

hand-stake (hand'stak), n. In glove-making, a tool used for stretching skins. See the ex-

As soon as the skin is received by the glove maker it is immediately staked by the hand stake, which consists of two upright and two horizontal bars, one of the latter being movahle to admit the skin, which is held in position by a wedge inserted at the end of the bar. The stretching is then done by pressing over the skin so placed a blunt iron like a spade, having round corners and a handle which fits under the arm.

Sci. Amer. Sup., Jan. 24, 1903, p. 22629.

hand-stamp (hand'stamp), n. Any form of marking-, printing-, or impressing-stamp used by hand.

hand-tree (hand'tre), n. Same as handflower-

hang, v. I. trans.—To hang up. (c) To hitch or the up (a horse) to a post, a tree, or the like. [Colloq. Australia.]

The mail-boy is waiting impatiently in the verandah, with his horse hung up to one of the posts.
E. W. Hornung, quoted in E. E. Morris, Austral English.

II, intrans. 13. In cricket, to come from the pitch at a perceptibly decreased rate of speed: said of a ball bowled. Hutchinson, Cricket, p. 67.—Hanging ball, bits, glacier, lie, valley. See ball

hang-down (hang'doun). n. A bearing which is suspended from a roof or beam by a hang-

ing bracket; a hanger.

hanger, n., 5. (f) A vat in which skins are tanned by being suspended in the liquor. Modern Amer. Tanning, p. 78. (g) A long loop or looped rod which lsngs from a transverse beam attached to a foundry crane, and which receives the trunnlons of a molding-flask slung therefrom.

-Expanding hanger. (b) An adjustable hanger; a haori (hä'ō-rē), n. A short loose over-jacket hanger having adjustments to allow for taking up wear and to keep the shaft in line even though the building settles.

hanging-block (hang'ing-blok), n. Naut., one of the blocks which are secured under the eyes of the rigging on the foremast, and through which the halyards of the head-sails are rove.

hanging-drop (hang'ing-drop), n. The minute portion of nutrient solution suspended from a hapaxanthous (hap-aks-an'thus), a. [Gr. âπαξ, slide or cover-glass and usually inclosed in a cell, in which bacteria and other miero-organisms are cultivated.

hanging-parrot (hang'ing-par"ot), n. *bat-parrakeet.

handling-room (hand'ling-rom), n. In a war- hangout (hang'out), n. One's place of business or resort; a rendezvous. [Colloq.] Forest and Stream, Feb. 21, 1903, p. 143.

of dyeing yarn in the form of hanks or skeins. It is earried out both by hand and by machinery. Also ealled skein-dyeing. Georgieries (trans.), Chem. Teehnol. Textile Fibres, p. 205.

hank-indicator (haugk'in "di-kā-tor), n. Adevice attached to some textile machines for

registering the amount (m. duetion. Thornley, Cotton Combing maching. 196.

hannahill (han'a-hil), n. [Origin unknown.]
A name of the black sea-bass, Centropristes striatus, found on the Atlantic coast of the middle United States. Jordan and Evermann, Fishes of North and Middle Amer., p. 1199.

Fishes of North and Middle Amer.,

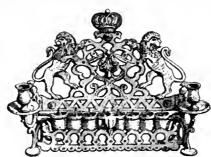
parliament.

Hansardize (han'sär-dīz), v. t.; pret. and pp. hansardized, ppr. hansardizing. To confront hansardized, ppr. hansardizing. To confront Appenetius is the original toni of the land. (a member of parliament) with his previous haplochlamydeous (hap $^{\prime}$ lo-kla-mid e-us), a. utterances on some question, as recorded in Hansard, and thus convict him of inconsistency. [Colloq., Eng.] In bot., having a simple or rudimentary floral envelop, as in the pistillate tency. [Colloq., Eng.]

hansom, n.—Cape hansom, a hansom-cab with a bow top, fitted with a pole like a Cape cart.

Hants. A contraction of ancient Hantesshire (now Hampshire).

Hanukah (chā' nö - kā), n. [Also Chanukah, Chanuca. Heb. ḥanūkah, < ḥanak, dedicate.] Among the Jews, the festival of dedication. Josephus (Antiq., XII. vii. 7) calls it the "festival of lights." It is the only post-Biblical festival of Importance smong the Jews. It begins on the twenty-fifth day of Chisleu (Kisleu), about the end of December, and lasts eight days (until the second day of Tebeth). This festival, like Purim (which see), is the occasion of much rejoicing. It is celebrated in commemoration of the defeat of Antiochus Epiphanes by the Maccabees (B. C. 164). When the temple was recovered from the defeated Syrians it was cleansed and the sacred vessela were purified. One vial of undeflied oil for the golden candlestick was found. According to tradition, that small quantity of oil miraculously continued to burn for eight days and nights until more oil was procured. In memory of this, the rabbis decreed the perpetuation of the festival. Orthodox Jews scrupulously keep the Festival of Lights. Special prayers and praises are added to the daily riusi. The chief feature of Hanukah la the 'Hanukah lights.' Every household and even Among the Jews, the festival of dedication.



Modern Russian Hanukah Lights

every adult male is obliged to light them at home immediately after the evening prayer. One caudle, lamp, or taper is lighted the first night, two on the second, and so on until the eighth night. An additional light, called ahanash ('servant'), serves to supply the light to the others. Two such lights are sometimes placed in modern

haoma (hä'ō-mä or hou'mä), n. [Avestan haoma=Skt. soma: see soma².] Same as homa [Avestan and soma2.

On the position of the *Haoma* in the Avesta of the arsees. Smithsonian Rep., 1890, p. 91.

Women under their umbrellas were the graceful short overcoat they call haori, and tottered over the wet ground on high wooden pattens. La Farge, Artist's Letters from Japan, p. 274.

hapaxanthic (hap-aks-an'thik), a. [Gr. âπαξ, once, + ἀνθεῖν, bloom, + -ie.] Same as *hapaxanthous.

hapaxanthous (hap-aks-an'thus), a. [Gr. aras, once, + ἀνθιζν, bloom, + -ous.] In bot., having only a single flowering-period: applied to herbs which after once seeding die throughout. Such plants may be annual (monocyclic) or biennial (dicyclic). F. E. Clements.
haphalgesia (haf-al-jē'si-ä), n. [NL., < Gr. ἀφή, touching, + ἀλγησις, the feeling of pain.] A condition of hyperæsthesia in which the slightest touch causes pain.

est touch causes pain.

est touch causes pain.

haplite, n. Haplite proper is a granite free, or nearly free, from muscovite or any dark silicate. The name is also applied by Rosenbusch and other petrographers to the highly feldspathic members of the syenite, monzonite, and diorite families, such rocks being usually called syenite-haplite, diorite-haplite, etc. This extension of the term is connected with the belief that such haplite rocks are differentiation products of syenitic, monzonitic, or dioritic magmas. The rocks in question often occur in dikes and possess the panautomorphic granular texture, and these features enter into the definitions given by Rosenbusch.

haplitic (hap-lit'ik), a. [Also aplitic:

Hansard² (han'sard), u. [Hansard, one of the Haplocheilus (hap-lō-kī'lus), u. [NL., also original compilers.] The official report of Aplocheilus; \langle Gr. $a\pi\lambda\dot{\omega}c$, single, $+\chi\epsilon\dot{\omega}c$, the proceedings and debates of the British lip.] A genus of kiilifishes closely allied to Fundulus, but differing in the short dorsal and longer anal fin. The species are mainly Asiatic. Aplocheilus is the original form of the name.

rudimentary floral envelop, as in the pistinare flowers of the Juglandaccæ. In plant development the haplochlamydeous stage succeeds the achlamydeous and is followed by the homoiochlamydeous.

Haplocrinidæ (hap-lō-krin'i-dō), n. pl. [NL., < Haploerinus + -idæ.] A family of crinoids which belongs to the order Larriformia and is typically represented by the genus Haplo-

crinus.

Haplocrinus (hap-lok'ri-nus), n. [NL., & Gr. άπλους, single. + κρίνου, a lily (see crinoid).] A genus of inadunate or larviform erinoids typical of the family Haplocrinidæ, of which it is the only representative. It has a small pyriform calyx in which there are three compound and two simple radials, uniserial and non-pinnulate arms. It occurs in the Middle Devonian.

Haplodinotinæ (hap " lō-di-nō-tī'nē), n. pl. [Haplodinotus + -inæ.] A subfamily of freshwater drums, typified by the genus Haplodinotus (or Aplodinotus).

Haplodoci (hap-lod'ō-si), n. pl. [NL., < Gr. aπλόος, single, + δοκός, a beam, bar.] A suborder or group of fishes, typified by the toad-fishes or Batrachoididæ. It is characterized by the peculiar structure of the pectoral arch.

haplodonty (hap'lō-don-ti), n. [haplodont + -y3.] The condition or fact of having molar teeth with simple erowns. See haplodont.

haplohedral (hap-lo-he'dral), α. [Gr. άπλόος, the asymmetric or pediad group of the tri-elinie system in which each form has one face See *symmetry.

haplogamic (hap-lo-gam'ik), a. Pertaining or

relating to haplogamy.

haplogamy (hap-log a-mi), n. [Gr. $d\pi\lambda\delta\sigma_c$, simple, $+\gamma\delta\mu\sigma_c$, marriage.] A method of cell-conjugation in which the fusions of the nuclei and the chromatin are not deferred to permit the formation of vegetative cells or tissues, plasmapsis, karyapsis, and mitapsis occurring phasmapsis, adityapsis, and intelpsis occurring in the same cell. Vegetative tissues of haplogamic structures are composed of cells with a single nucleus and a single set of chromosomes. The alternatives of haplogamy are *apauloyamy and *parayamy. Cook and Spinale.

Swingle.
haplology (hap-lol'ō-ji), n. [Gr. ἀπλόος, single, + -λογία, ζλέγεω, speak.] The utterance of only one of two similar adjacent syllables or sounds that appear in the full pronunciation of the word. The phenomenon is a universal linguistic fact, and is parallel to that of haplography (which see). Both

The phenomena seemed related to those of haplology in the history of words, as in 'nutriv' for 'nutritrix.' Scripture, Exper. Phonetics, p. 168.

lomi.

Haplomi² (hap-lō'mī), n. pl. [NL., ⟨Gr. ἀπλόος, singlè, + ὑμος, shonlder, upper arm.] An order or suborder of fishes which is characterized by the absence of the mesocoracoid arch and of spines in all of the fins. The families contained in this group are the Peccliidæ, or killitshes, the Esocidæ or pikes, the I'mbride or mud-minnows, and the Amblyopsidæ or blind-fishes.

Haploscleridæ (hap-lō-sklē'ri-dē), n. pl. [NL.].

haptophorous (hap-tof'ō-rus), a. [As haptophoric. seaside laurcl. See laurel, 3.

hard-horse (härd'hôrs), n. A sailors' term for a tyrannical officer.

hardie (här'di), n. [AF.: see hardy.] 1. An ender of the specified (hä'pō-kö), n. [Maori.] A fish, the groper (Polyprion oxygeneios), found on the soast of New Zealand. Its average weight is about 45 pounds, and in some places it forms an important article of trade. Also hapuka.

Haploscleridæ (hap-lō-sklē'ri-dē), n. pl. [NL.].

hard-horse (härd'hôrs), n. A sailors' term for a tyrannical officer.

hardie (här'di), n. [AF.: see hardy.] 1. An English billon coin of Edward III. See hard-hocad, 2.—2. A French copper coin of the year 1270, the liard of Philip le Hardi.

Harding sandstone. See *sandstone. hard-meat (härd'mēt), n. Dry fodder: eorn and hard-meat (härd'mēt), n. English billon coin of Edward III. See hard-horse (härd'hôrs), n. [AF.: see hard-horse (härd'hôrs), n. [AF.: see hard-horse (härd'hôrs), n.

Haploscleridæ (hap-lō-sklē'ri-dē), n. pl. [NL.]. A large fatuily of halichondrine Demospongiæ The spiculation is of a simple type, and the microscleres, if present, are never chelæ. It contains Halichondria, Chalina, Reniera, Spongilla, and many other genera. haploscope (hap'lō-skōp), n. [Gr. ἀπλόσ, single, + σκοπειν, view.] In physiol. and psychol. optics, a stereoscope which presents to either eye a field invisible to the other. E. C. Sanford, Exper. Psychol., p. 404. haploscopic (hap-lō-skop'ik), a. [haploscope + ic.] Pertaining to the haploscope or to its

+-ic.] Pertaining to the haploscope or to its

This test is superior to the tests with haploscopic figures because it is dependent upon true psychical fusion, while the latter are dependent upon the mere matching together of divided figures.

Optical Jour., June 2, 1904, p. 963.

Optical Jour., June 2, 1904, p. 963.

Haplosporidia (hap "lō-spō-rid'i-iɔ,"), n. pl. [NL., pl of Haplosporidium.] An order of Sporozoa. The developmental yele is very simple. The youngest stage of the parasite is a minute rounded corpuscle with single nucleus; as growth proceeds, multiplication of nuclei occurs, and the mass finally separates into a number of spores of uniform structure, which give rise to uninucleated corpuscles, thus completing the cycle. It contains the genera Bertrannia, Haplosporidium, and Calosporidium, parasitic in worms, rotifers, and crustaceans.

Haplosporidium (hap "lō-spō-rid'i-um), n. [NL., ⟨Gr. ἀπλόος, single, + σποσά, seed (spore), + dim. -ιδιον.] The typical genus of the order Haplosporidia. Caullery et Mesnil, 1899.

haptere (hap'tēr), n. [G. hapter, ⟨ NL. hapteron.] Same as *hapteron.

hapteron(hap'te-ron), n.; pl. haptera(-ä). [NL.,

hapteron(hap'te-ron), n.; pl. haptera(-ä). [NL., irreg. ζ Gr. ἀπτειν, fasten.] In phytogeog., a special organ of attachment composed of non-vascular tissue, developed by many aquatic lithophytes, as Podostemaceæ and mavine algæ. E. Warming.

haptic (hap'tik), a. [Gr. ἀπτικός, ζ απτειν, touch: see apse.] Tactile; of or pertaining to haptics: Amer. Jour. Relig.

see apse., I active, not pertaining that the season as, a haptic sensation. Amer. Jour. Relig. Psychol. and Education, May, 1904, p. 33. haptical (hap'ti-kal), a. Same as *haptic.—Haptical image. See *image. haptics (hap'tiks), n. [Pl. of haptic.] In psychol. and physiol., the science of touch: as optics is the science of sight and acoustics the science. the science of sight and acoustics the science of hearing. As generally used, the term includes the physiology and psychology not only of the skin and the adjoining mucous membrane, but also of the kinesthetic organs (muscles, tendons, joints).

As a general term for perceptions of touch in the widest sense, M. Dessoir [1892] suggests Haptics as an analogue of Optics and Acoustics. This he further divides into Contact-sense (including pure contact and pressure) and Pselaphesia... (including active touch and 'muscle sense').

E. C. Sanford, Exper. Psychol., p. 1.

haptine (hap'tin), n. [Gr. $\delta \pi \eta \sigma r \alpha$, paper, rsychol., p. t. haptine (hap'tin), n. [Gr. $\delta \pi \tau c \nu$, tonch, fasten, t-ine².] A cast-off receptor. The haptines are represented by the antitoxins, the agglutinins, the precipitins, and the ambove-ptors of the hemolysins, the hacteriolysins, etc. See *mmunity.

haptogenic (hap-tō-jen'ik), a. [Gr. ἀπτειν, touch, + -yevrg,-produced.] Used in the term haptogenic membrane, a hypothetical albuminous membrane which according to Aschreson surrounds every globule of fat in milk. C.E. Simon, Physiolog Chem., p. 408.

haptophil(hap'tō-fil), a. [Gr ἀπτειν, fasten, +

φελεῖν, love.] Same as *haptophoric. haptophore (hap'tō-fōr), a. [Also haptophore; $\langle \text{Gr. } \hat{a}\pi\tau\iota\nu, \text{ fasten}, +-\phi\rho\rho\varsigma, \langle \phi\epsilon\rho\epsilon\nu, \text{ bear.}]$ Same as haptophoric. Also haptophor.

Etrich's hypothesis to explain such facts is usually spoken of as the side-chain theory of immunity. He considers that the toxins are capable of uniting with the protoplasm of living cells by possessing groups of atoms like those by which nutritive proteids are united to cells during normal assimilation. He terms these haptophor groups, and the groups to which these are attached in the cells he terms receptor groups. The introduction of a toxin stimulates an excessive production of receptors, which are finally thrown out into the circulation, and the free circulating receptors constitute the antitoxin. The comparison of the process to assimilation is justified by the fact that non-toxic substances like milk introduced gradually by successive doses into the blood-stream cause the formation of anti-substances capable of coagulating them.

Rep. Brit. Ass'n Advancement of Sci., 1902, p. 778.

**Identify the proteids in substances and being misleading. Carbonists, however, hold that the pale areas are hardenite containing dissolved eementite, the dark areas made dark so-called marteniste the constituent last named).

Nature*, April 14, 1904, p. 554.

**Harderian fossa. See **fossa1*.

**Harderiate on iron and steel as being misleading.

**Carbonists, however, hold that the pale areas are hardenite containing dissolved eementite, the dark areas mardenite containing dissolved eementite, the dark areas are hardenite containi

haptophoric (hap-tō-fō'rik), a. [As haptophore hardhead, n. 3. The name is also applied to many other fishes having hard heads: as in America to Chriceister2 for register, regi designate that group of cell receptors which unites with the immunizing substance. See

harakeke (hä-rä-kā'kā), n. [Maori.] The common variety of the New Zealand flax,

Phormium tenax.

harbor-deck (här'bor-dek), n. See *deck, 2. harbor-pirate (här'bor-pi''rāt), n. One who robs vessels in port by coming alongside in a small boat and carrying off portable articles, such as brass belaying-pins, running-gear, etc.; a thief whose trade is to steal eargo from docks and vessels in harbor.

harbor-porpoise (har'bor-pôr'pus), n. The small porpoise or puffing-pig, Phocæna phocæna, or P. communis, frequently seen in bays

and estuaries.

Harcourt air-gas pentane standard.

*air-gas.

hard, a., 10. (h) In vocalization, of a tone made with a rigid attitude of the vocal organs, hard-spun (härd'spun), a. Compactly twisted: so as to be wanting in mellowness and pathy.

pathy.

hard, adv.—Hard ashore, said of a vessel when it is firmly fixed on the rocks or on a shoal or beach.—Hard aweather! a command to put the steering-wheel over so that the tiller will be turned toward the weather side and the ships head deflected from the wind: opposed to hard alee!—Hard down! a command to put the wheel over so that the ship may be brought to the wind: opposed to *hard aweather!—Hard over! an order to the helmsman to jam the wheel or tiller over as far as possible.

hardback (härd'bak), n. 1. Any fish of the

hardback (härd'bak), n. 1. Any fish of the genus Callichthys; any catfish of the family Loricaridæ, found in the fresh waters of South America.—2. In the British West Indies and British Guiana, any large beetle, especially one of the larger Scarabæidæ.

hard-earned (härd'ernd), a. Earned with granular masses at Franklin Furnace, in Hardyston township, Sussex county, N. J.

Shar and hard-earned of late years that common common the common state of the larger scarabal and share and share and subspecies of late years that common common to possible.

hardy-hole (har un-no.),
in a blacksmith's anvil for the insertion of the shark of a-cutting-tool or other piece.

hardystonite (här'di-ston-it), n. [Hardyston (see def.) + -ite².] A silicate of zinc and calcium (Ca₂ZnSi₂O₇) which occurs in white granular masses at Franklin Furnace, in Hardyston township, Sussex county, N. J.

harel. n., 1. So many new species and subspecies of late years that common common to the properties.

nuts, holts, etc., and delivering them antomatically while hot to oil or water hardening-tanks. For heating balls for ball-bearings a spiral conveyer is used to convey the balls through the furnace. Other machines employ different forms of link-belt conveyers, the sim in each type of machine being to expose the things to be heated to the direct action of the gas-flames and to protect the conveyer as much as possible from the destructive effects of the heat. This is accomplished by supporting the things to be heated on rods which project through a slot in the bottom of the furnace, the conveyer carrying the rods heling outside the furnace, or by placing refractory bricks on the conveyer.

hardening-off (härd/ming-ôf'), n. In hort., the process of inuring or habituating a plant to nntoward conditions, as to adapt it gradually to cold before removing it from a hotbed or

to cold before removing it from a hotbed or forcing-house.

hardening-tank (härd'ning-tangk), n. A tank or bath containing oil or water in which small metal objects are hardened as they come from

the heating- or hardening-machine. hardenite (har'de-nit), n. A name proposed for the solid solution of iron and carbon containing 0.9 per cent. of carbon: it has the low-est transformation-point. The name has been abandoned by many authorities on iron and steel as being misleading.

harifuku

11. In the Bahamas, a shrub of the spurge family, Phyllanthus Epiphyllanthus. Also called scaside laurel. See laurel, 3.

and hay as fodder, as distinguished from grass. [Prov. Eng.]
hardness, n. 2. Water, as found in nature, containing salts of lime or magnesis or both of these in considerable quantity, is said to be hard; it curdles or precipitates soap by forming insoluble lime or magnesis salts of the fatty acids. Any lime or magnesis present in the condition of carbonate is held in solution by carbonic acid, and if this latter is driven off as carbon-dioxid gas by boiling the water, the earthy carbonates are precipitated, so that the water is to this extent softened. The part of the original hardness which is thus removable by boiling is called temporary hardness. The part due to calcium or magnesium in the condition of chlorid or sulphate is not thus removable, and is called permanent hardness. The sum of the temporary and permanent hardness constitutes the total hardness. Hardness is frequently stated in degrees, each degree representing hardness equivalent to that caused by 1 grain of calcium carbonate in 1 imperial gallon of water; or, now more commonly, 1 part of calcium carbonate in 1,000,000 parts of water.

hard-spun (härd spun), a. Compactly twisted:

said of yarn.
hardtail, n. 2. See *Gila.
hardwood (härd'wùd), a. and n. I. a. Having a hard wood (see hard wood, under wood!, n.), as a tree; bearing trees with hard wood, forest; made of hard wood: as, a hardwood floor. II. n. A hardwood tree.

hardyhead2 (här'di-hed), n. An atherinoid fish, Atherina lacunosa, inhabiting Anstralian waters. E. E. Morris, Austral. English.

hardy-hole (här'di-höl), n. A rectangular hole in a blacksmith's anvil for the insertion of the

of the larger Scarabæidæ.

hard-earned (härd'ernd), a. Earned with difficulty or hard work.

harden², n. 2. A cloth of coarse fiber and texture, made from hards.

hardener, n. 2. In photog., a chemical, such as alum, which is added to the fixing-bath in the making of gelatin negatives. It prevents the dissolving of the film in warm weather.

hardening-machine, n. 2. See *heating-machine. -3. A heating-machine adapted to heating small balls, parts of machines, saw-teeth, nuts, holts, etc., and delivering them antomatically in the proportions of the proportion of th

harebell, n.—Australian harebell. Same as Tamsanian *bluebell.

harelip-needle (har'lip-ne"dl), n. A slender cannula with a spear-pointed trocar which is passed through the two halves of the lip, the freshened edges being in apposition: the tro-car is then withdrawn and a figure-of-8 suture

harem, n. 4. The group of female fur-seals (cows) controlled by a single male fur-seal (bull): the unit of life on the fur-seal rookeries. Jordan, Fur Seals and Fur-seal Islands.

Harengula (ha-reng'gū-lā), n. [NL., dim. of harenga, herring.] A genus of fishes of the family Clupcidæ, or herrings, characterized by the firm, usually adherent scales. The spe-The species are of small size and tropical in their dis-

hare-wallaby (har'wol a-bi), n. Same as hare-

harf (härf), n. [Abyssinian.] An Abyssinian silver coin, the dahab, equal to one twenty-third of a dollar.

Hargeria (här-ge'ri-ä), n. [NL.] A genus of extinct toothed birds from the Cretaceous of Kansas. They are closely related to Hesperornis, but are distinguished by differences in the quadrate and in having a more slender

femur. Lucas, 1902. haricot (har'i-kō), v. t. To prepare as, or convert into, a haricot: as, to haricot a neck of mutton.

harifuku (hä-ri-fö'kö), n. [Jap.] The Japanese name of a fish of the family Diodontidae, Diodon holacanthus.

harigue, n. See *arigue. Häring beds. See *bed1

Hariota (har-i-ō'tä), n. [NL. (Adanson, 1763), named in honor of Thomas Hariot (also spelled Harriot) (1560-1621), who accompanied Grenville to Virginia and wrote an account of its products. Compare *Harriotta.] A genus of plants of the family Cactaceæ. See Rhipsalis. harisembon (hä-ri-sem'bön), n. [Jap.] Same as *harifuku

Harlequin caterpillar, pigeon, quail, ring, table. See *caterpillar, etc.
harmalol(här'ma-löl), n. [harmal(ine) +-ol.]
A brick-red compound, C₁₂H₁₂ON₂.3H₂O, formed by the action of hydrochloric acid on harmaline. It crystallizes in needles.

harmamaxa (här-ma-mak'sä), n. [Gr.άρμάμαξα, ζ άρμος, jointed, + άμαξα, wagon.] In Gr, antiq., a covered wagon much used by women, which is mentioned by Herodotus and Xenophon in descriptions of Persian luxury. It was similar to the apena (which see).

harminic (här-min'ik), a. [harmin + -ie.] Derived from harmin or harmaline.—Harminic acid, a colorless compound, $c_{10}H_{\rm p}0_4N_2$, formed by the oxidation of harmin or harmaline. It erystallizes in silky needles and melts and decomposes at 345° C.

harmol (hār'mōl), n. [harm(in) + -ol.] A compound, C₁₂H₁₀ON₂, formed by the action of fuming hydrochloric acid on harmin.

harmolic (här-mol'ik), a. [harmol + -ie.] Derived from harmol.— Harmolic acid, a colorless compound, $C_{12}\Pi_{10}O_5N_2$, formed by fusing harmol with potassium hydroxid. It crystallizes in small needles melting at 247° C.

compound, C12H1005N2 formed by fusing harmol with potassium hydroxid. It erystallizes in small needles melting at 247°C.

harmonic. I. a.—Harmonic analysis, (c) The resolution or analysis of a series of observed values of any quantity into an equivalent summation of a series of sine and cosine terms each pair of which represents the effect of an imaginary force operating in a specific way. The periods of the successive circles are in arithmetical progression; hence the term harmonic.—Harmonic analyzer. See *analyzer.—Harmonic axial pencil, the four planes projecting harmonic points from an axis not coplanar with their bearer.—Harmonic integrator, an apparatus for mechanically summing up the individual terms of the harmonic series representing any natural phenumenon. The most important of these are instruments devised by William Ferrel for daily use by the United Statea Coast and Geodetic Survey, and by William Thomson (Lord Kelvin) in computing tidal tables, for use in England.—Harmonic law, in linguistics, the law according to which the vowels in one word must belong to one class, so that o, for instance, may stand in conjunction with a and u, but not with e and i.—Harmonic minor mode or scale, in music, that form of the minor mode or scale, in music, that form of the minor mode or scale that has a minor sixth and a major seventh. Also called instrumental minor.—Harmonic optimum. See *optimum.—Harmonic polanes. Same as *harmonic axial pencil.—Harmonic polanes. Same as *harmonic axial pencil.—Harmonic polanes. Same as *harmonic axial pencil.—Harmonic polanes. Same as *harmonic modo of a circle about with a circle through the other pair.—Harmonic motion, as harmonic straight. —Bimple harmonic motion, that type of linear vibratory motion which is defined by the equation x = a cost w. If the path of the vibrating particle will always be such that its position is the normal projection, upon the diameter, of the particle will always be such that its position is the normal projection, upon the diameter is then a mann

II. n.—Electrical harmonics, electrical oscillations of higher frequency accompanying an oscillation of higher frequency accompanying an oscillation of lower frequency, usually of greater amplitude, and related to the latter as the harmonic overtones of a complex sound are related to the fundamental tone.—Ellipsoidal harmonic. Same as Lamé's function (which see, under function).—Higher harmonics, in alternating currents, electromotive forces, waves of higher frequency, or overtones, which overlie the fundamental harmonic, or overtones, which overlie the fundamental harmonic, in acoustics, an overtone the frequency of which is so modified as to throw it out of harmonic relation with the fundamental tone.—Solid zonal harmonic, rm P_m (cos θ).—Surface zonal harmonic, Pm (x) or Pm (cos θ): also known as a Legendre's coefficient.—Tesseral harmonics, cos n φ sin n θ dn Pm (μ) and sin n φ sin θ d Pm (μ): suecial cases of the subscied harmonic. special cases of the spherical harmonic.

harmonica, n. 3. In organ-building, a mixture-

narmonica, n. 3. In organ-building, a mixturestop. [Rare.]
harmonograph (här-mon'ō-graf), n. [Irreg.
⟨Gr. ἀρμονία, harmony, + γράφεν, write.] An
Harrison cnina. See Commonant sand boat and yacht fittings.
Harrison china. See *boat-louse, butterfly, cormorant.
See *bark-louse, etc.

Harrison cnina. See Commonant sand boat and yacht fittings.
Hassall or Hassall's bodies. See *body.
Harrovian (ha-rō'vi-an), a. and n. I. a. Of or hassar (has'ār), n. [S. Amer., perhaps ⟨ Tupi acara in a form *açara.] Same as *hardback. harmonograph (här-mon'ō-graf), n,

right angles to each other, the movement of a stylus or pen attached to one making a record on a plane surface supported by the other.

Moreover, the table carrying the paper can be rotated and a variety of figures thus obtained, including the epicycloids and hypocycloids, and also curves similar to those given by a harmonograph with clockwork table, but without the gradual decrease in amplitude.

Nature, March 6, 1902, p. 421.

March 5. 1902, p. 421.

**Length of the Harrowian who wrote 'Personalia, chiefly on the strength of the Harrow Register of his day, which contains the names of many distinguished men, but of very few who are both literary and legal.

Athenæun, Nov. 21, 1903, p. 686.**

Harrow, n. 2. Aharrow-like military formation;

harmony, n.—Dominant harmony, in music, either the same as dominant chord (which see, under dominant), or, more loosely, all chords for which the dominant serves as the hass or which are associated with it as a general basis of reference.

serves as the bass or which are associated with it as a general basis of reference.

harness, n. 8. Naut., an obsolete term for the furniture of a ship.—Cape harness, a harness with a wide breast-collar connected with the breeching. It has hip- and neck-straps, but no saddle or girth. It is used in Cape Colony, South Africa.—Centered tle-harness, a method of tying up the heddles of a Jacquard loom for producing large effects from small pattern-cards.—Coupé harness, a heavy single harness, generally of a showy character, used with heavy closed pleasure-carriages.—Double equal plain tie-harness, a method of tying up the harness of Jacquard loom in which four comber-boards are used to weave double equal plain fabrics.—Double-scale harness, a loom-harness for weaving wide patterns with a set of small Jacquard cards.—Pressure harness, a combination of a Jacquard and heddles, in a loom, both moving independently though acting on the same threads.

harness-room (här'nes-röm), n. A room in which sets of harness are cleaned, repaired, and stored.

and stored.

harness-shaft (här'nes-shaft), n. A frame for holding the heddles of a loom.

harness-slip (har nes-slip), n. In gauze or doup weaving, that part of a doup-heddle which controls the crossing of the warpthread. T. W. Fox, Mechanism of Weaving, p. 234.

p. 204.
 harp, n.—David's harp, the gold florin of David of Burgandy, Bishop of Utrecht (1455-90), with the ethey of St. David and his harp.—Harp instrument. See *instrument.—Pointed harp, a small triangular form of zither, now obsolete, played in an apright position on a table, having the higher strings on one side of the sound-board and the lower strings on the other. Also called arpanetta and spitzharfe.
 Harpagodes (här-pa-gō'dēz), n. [NL., (Gr. ἀρπάγη, a hook, † εἰδος, form.] A genus of platypodous gastropod mollusks, belonging

of platypodous gastropod mollusks, belonging to the family Strombidæ and closely allied to the recent genus Pterocera, having an expanded body-whorl with reflected canal and the outer margin of the aperture produced into a number of tubular spinous processes. It occurs in the Jurassic and Cretaecous rocks.

Harpedidæ (här-ped'i-dē), n, pl. [NL., Harpes (assumed stem Harped-) + -idæ.] family of trilobites characterized by the broad horseshoe-shaped expansion of the cephalon, simple eyes on the fixed cheeks, numerous thoracic segments, and very small pygidium. Species occur in Silurian and Devonian rocks. Harpes (här'pēz), n. [NL., perhaps < Gr. ἀρπη, a sickle.] The typical genus of the Harpedidæ. harp-file (härp'fīl), n. A wire hook for filing papers, attached to a harp-shaped piece of iron. Stand. Diet.

harpy-bat (här'pi-bat), n. An East Indian fruit-bat of the genus Harpyia, distinguished by tubular, projecting nostrils. There are two or three species of modorate size, the largest being H. major of New Guinea and the adjoin. ing islands.

Harriotta (ha-ri-ot'ā), n. [NL., named after Thomas Hariot or Harriot (1560-1621), an English mathematician connected with Grenville's expedition to Virginia under appointment of



(From Bulletin 47, U. S. Nat. Museum.)

Raleigh. Compare *Hariota.] A genus of chimæras found in the deep waters of the Gulf Stream, characterized by the long snout which is produced in a soft flat blade. H. raleighana

is the known species.

Harris-buck (har'is-buk), n. The large sable antelope, Hippotragus niger, of South Africa, discovered by Sir C. Harris.

II. n. A pupil or student in the college at Harrow, England.

Sir Douglas Straight is credited with being "Sigma," the old *Harrovian* who wrote 'Personalia,' chiefly on the strength of the Ilstrow Register of his day, which contains the names of many distinguished men, but of very few who are both literary and legal.

Athenæun, Nov. 21, 1903, p. 686.

also, that assumed by flying flocks of wild geese.
— Pulverizing harrow, a form of riding-harrow in which
broad clastic teeth resting on edge are suspended from the



Pulverizing Harrow.

frame and are trailed over the ground, acting as small plowshares.—Spring-tooth harrow, a harrow having, in place of the fixed teeth used in the ordinary frame-harrow, curved steel teeth bent into a half-circle and acting as

row, curved steel teeth bent into a half-circle and acting as curved springs.

harry² (har'i), n. [Said to be so named from King Harry or Henry VIII.] A playing-card having a slight blemish on one surface.

Harry³ (har'i), n. [Also Harrie, earlier Herry, Herrie, assimilated forms of Henry, OF. Henri, ata]. A common personal name also need in

etc.] A common personal name, also used in various extraneous applications. See */Arry, and Old Harry, under old.—Black Harry, the black sea-bass, Centropristes striatus: so named along the Atlantic coast of the United States.

Lart, n. and v. A simplified spelling of heart.

hart, n. and v. A simplified spelling of neart.
hartbeest, n.—Bastard hartbeest. Same as sassaby
(which see).—Hunter's hartbeest, B. hunter', from
Somaliland, distinguished by the white A-shaped marks on
the forehead, and long horns.
harth, n. A simplified spelling of hearth.
Hartogia (här-tō'ji-ä), n. [NL. (Linnæus,
1759), named in honor of John Hartog, an
early Dutch traveler in South Africa.] A genus
of plants of the family Rutaeex. They are upof plants of the family Rutaeeæ. They are upright heath-like shrubs, the leaves usually alternate and commonly small and entire, the small white, red, or lilac flowers in terminal umbels or heads, rarely single in the axils of the leaves. There are about 100 species, native in South Africa, several of which are cultivated in greenburges.

Hart's cell. See *cell. Hartshill quartzite. See *quartzite.

hartshiii quartzite. See *quartzite.

hartshorn, n.-Oil of hartshorn, the liquid product, of oily consistence and immiscible with water, obtained in the destructive distillation of the antiers of deer, as formerly practised. It is essentially the same as bone-oil. Thorpe, Dict. Applied Chem., III. 8.

harty, a. and n. A simplified spelling of hearty.

Harveian (här' vē-an), a. Named, established, or delivered in honor of the famous physician

William Harvey (1578-1657), the discoverer of the circulation of the blood: as, the *Harveian*

Society of London; the Harveian lectures. Laneet, June 6, 1903, p. 1608.

harvesting-ant (här'ves-ting-ant), **. An ant of the genus Afhanogaster or of one of its impair of the life of the state of the life of mediate allies, such as Pogonomymez.—They form deep underground nests composed of many chambers, in some of which are stored the seeds of grasses and grains as provision against winter. Cambridge Nat. Hist., VI. 164.

Harveyize (här'vi-iz), v. t. [H. A. Harvey, the inventor of the process, + -ize.] To subject the face of (a steel plate, particularly a steel armor-plate), for the purpose of chilling, to a process of cementation which increases the carbon in that portion of the plate and produces a plate with a comparatively soft and ductile body and a very hard face.

harzburgite (hārts'bēr-git), n. [Harzburg, in Saxony, + -ite².] Same as saxonite.
hash-house (hash'hous), n. A cheap boarding-

hash-house (hash'hous), n. A cheap boarding-house. [Slang, U. S.]
haskinization (has'kin-1-zā'shon), n. [haskinize + -ation.] A process by which heat of over 212° F. is applied to green lumber under pressure of 200 pounds to the square inch. Wood thus treated hecomes indurated and durable. The process is sometimes substituted for creosoting.
haskinize (has'ki-nīz), v. t.; pret. and pp. haskinized, ppr. haskinizing. [Haskin, the inventor of the process, + -ize.] To subject to the process of *haskinization (which see).
hasp-hinge (hasy'hin'), n. In hardware, a com-

hasp-hinge (hasp'hinj), n. In hardware, a combined hinged plate and hasp used on trunks

Hassler's map-projection. See polyconic map- measure of length, Prakrit hattho, & Skt. hasta,

hassocky (has'ok-i), a. [hassock¹ + -y³.] 1. inches.
Full of thick clumps of coarse grass or sedge. hatherlite (hath'er-lit), n. [Hatherley, in the See hassock¹. 1. and hassock-grass.—2. Of the Transvaal. + -ite².] A syenite composed chiefly nature of the soft calcareous sandstone which separates the beds of Kentish ragstone in England.

hastingsite (hās'tingz-īt), n. [Hastings (see def.) + -ite².] A variety of amphibole from the nepholin-syenite of Dungannon, Hastings county, Ontario: its composition is analogous to that of garnet.

hat^I, n. 5. In bot., the pileus or cap of a mush-

n. 5. In 00t., the phons or cap of a mush-room.—Alpine hat, see **alpine.—Bee-gum hat, sik hat, [Local, U. S.] Dialect Notes, H. vii.—Black hat, a fresh immigrant; a new-comer; a 'new chum.' [Slang, Australia.] E. E. Morris, Austral English.—Cabage-tree hat. See **cabbage-tree.—Hat trick, in cricket, the feat of a bowler who gets out three batsmen in three successive balls; so called because formerly it was rewarded by the present of a new hat. was rewarded by the present of a new hat.

as rewarded by the present of a new hat.

It is the custom of many committees to give a sovereign to every professional who scores fifty runs, and money to those who perform the hat trick (i.e., take three wickets with consecutive balls).

Energe, Brit., XXVII. 276.

Mackinaw hat, a very coarse straw hat. [U. S.]—Old hat, in Australian (Victorian) political slang, see the extract.

Mr. Frank Stephen was the author of the well-known epithet 'Old Hats,' which was applied to the rank and file of Sir James M'Culloch's supporters. The phrase had its origin through Mr. Stephen's declaration at an election meeting that the electors ought to vote even for an old hat if it were put forward in support of the M'Culloch boliev.

The Argus, May 1, 1895, quoted in E. E. Morris, [Anstral English.

Tamsui hat [named from Tamsui, a port and river in Formosa], a hat made of strips of the bleached leaves of Pandanus tectorius, a species of screw-pine growing everywhere in Formosa. It rivals the Panama hat in its resistance to weather and hard usage.

hat-camera (hat'kam"e-rij), n. A detective camera that may be conecaled in a hat.

reduction in strength caused by the opening. hatch-boat, n. 2. A vessel of which the hatches extend fore and aft; a cargo-barge in which the deck is composed almost entirely of

hatch-coaming (haeh'ko"ming), n. Same as

hatch-davit (haeh'dav"it), n. A small portable davit overhanging a hatch, used for loading stores, ammunition, etc., below, by means of a whip, the block of which is hooked into an eye in the upper end of the davit.

hatchet-back (haeh'et-bak), n. A large rivermussel, Symphynota complanata, having a wing-like projection on one edge of the shell, found in the Mississippi river. The shell is used for the manufacture of pearl buttons. Also called hackle-back.

hatchetman (hach'et-man), n. Owields a hatchet, in any kind of work.

hatchettite (hach'et-it), n. [Hatchett (see hatchettin) + -ite².] Same as hatchettin. hatch-gate (hach'gāt), n. A gate to regulate the flow of water through a dam or dike or

hatching-house (haeh'ing-hous), n. A house

hatching-pen (hach'ing-pen), n. A pen for drawing the fine lines used in shading me-A pen for ehanical drawings and making hatchings. hatching-station (hach'ing-sta'shon), n.

establishment where fish-eggs are hatched.

hatchling (haeh'ling), n. [hatch2 + -ling1.] A very young fish, usually artificially hatched and not old enough to take care of itself. The young in a fish-hatchery are so called during the period in which they are protected and given prepared food.

hatch-rings (hach'ringz), n. pl. Large iron rings in the corners of hatches used for lifting the hatches en and off.

hatch-tackle (hach'tak"l), n. Al Hat-finishing lathe. See *lathe1. A luff-tackle

hath (hät), n. [Hind. hāth, a hand, also a

a hand.] A Hindu unit of length, equal to 18

Transvaal, + -ite2.] A syenite composed chiefly of soda-microcline (anorthoelase) with a little brown hornblende, green pyroxene, and biotite, found in the Transvaal. Henderson, 1898.

land.

haste^I, n.—To make haste. (b) In cricket, to move quickly after the pitch: said of a ball.

hastifoliate (has-ti-f \bar{o} 'li- \bar{a} t), a. Same as hastifoliate (has-ti-f \bar{o} 'li- \bar{a} t), a. Same as hastifoliate (has-ti-f \bar{o} 'li- \bar{a} t), a. [Hastings (see hastingsite (h \bar{a} s'tingz- \bar{a} t), a. [Hastings (see the cow: usually represented with the head and horns of a cow surmounted with the solar disk

0

111668

Hathoric Capital.

Hathoric (hat-hor'ik), a. In Egypt. antiq., pertaining to the goddess Hathor; decorated with a face or head assumed to be an image of Hathor: as, a Hathorie capital or statue; a Hathoric column.

hat-maker (hat'mā"-ker), n. A maker of hats; a hatter.

hatoba (hä'tō-bä), n, [Jap.] A pier or wharf; a landing-place. hat-palm (hat'päm), n.

Any one of several species of palms the leaves of which are used for making hats, especially Inodes causiarum, I. glauca, Thringis laxa.

and T. latifrons of Porto Rico, and Thrinax argentea of Panama.

hat-pin (hat'pin), n. A long metallie pin, often with a fancy head, used for fastening on haunch-joint (häneh'joint), n. The hip-joint. a woman's hat.

A detective hat-shag (hat'shag), n. A silk-plush fabric

ealled sycamore, Pacilodermis lurida. It yields a white, soft, easily split wood, occasionally used for shingles, and a strong bast

hat-wire (hat'wir), n. A specially tempered wire used for hat-rims.

hau (hou), n. [Hawaiian.] The Hawaiian name of the mahoe, Partit tiliaccum, which oe-eurs in nearly all tropical countries and is abundant in all Pacific islands. It is generally planted near native habitations on account of its dense shade. For its various uses in Polynesia, see $\pm balibago$ and $\pm fau$, 2. In Hawaii a decoction of the flowers is used as an emollient in bronchist and intestinal estarrhs.

a hauchecornite (hōsh'kôr-nīt), n. [Named for M. Hauchccorne.] A sulphobismuthide of nickel, Ni₇(S,Bi)₈, occurring in tabular tetragonal crystals of metallic luster and bronzevellow color.

One who hauhele (hou-hā'lā), n. [Hawaiian.] Anative name of a tall shrub or small tree, Hibiscus Arnottianus, belonging to the mallow family.

The fear of a highlinder outhreak in Chinatown grows as the activity of the dreaded hatchetmen is observed.

San Francisco Chronicle, Nov. 14, 1894.

hatchettite (hach'ct-it), n. [Hatchett (see hatchettin) + -ite².] Same as hatchettin.

hatch-gate (hach'gāt), n. A gate to regulate the flow of water through a dam or dike or from a reservoir.

hatching-house (hach'ing-hous), n. A house hatching-house (hach'ing-house), n. A house hatching-house (hach'fing-house), n. A house hatching-house (bach'fing-house), n. A house hatchettin.

Haul n. 5. The distance and route over which haversi

something is hauled.—Haul of all (naut.), the act of swinging all the yards at once.

haulabout (hâl'a-bout), n. A barge for coaling It earries its own hoisting apparatus, derricks, etc., but has no propelling-engines.

Another type of coaling device which has proved highly successful is what is known as the "haulabout." These haulabouts are plain steel hulls, similar to barges, with hatchways extending nearly across the vessel. Fitted to each haulabout sit two self-contained Temperley traveling tower transporters, the beams of which have a very long over-reach on either side, and are sufficiently high to take coal from a large collier, and deliver it directly to the boat deck of the largest battleships or cruisers, if necessary.

Sci. Amer., July 23, 1904, p. 63.

haulage-way (hâl'āj-wā), n. A passage through which material is hauled or drawn.

Descending by means of an elevator into the depth of the soft-coal mine before mentioned, we find ourselves in front of a whitewsshed haulageway which extends far into the distance.

Sci. Amer., May 23, 1903, p. 392.

haul-back (hâl'bak), n. In lumbering, a small wire rope, traveling between the donkcy-engine and a pulley set near the logs which are to be dragged, used to return the cable. Also called

trip-line, pull-back, and back-line.
hauling (hâ'ling), n. In growing sea-island cotton, the operation of drawing up to the foot of the plant, with the hoe, the loose dirt left by the plow.

This is called "hauling," and by it the new bed is completed, the cotton is kept from "flagging" (falling down), and the grass is kept under.

U. S. Dept. Agr., The Cotton Plant, p. 230.

hauling-ground (hâ'ling-ground), n. The portion of the shores of the fur-seal islands which is occupied by the young male or bachelor seals: contrasted with rookery, the ground occupied by the breeding seals.

As this is a large hauling-ground, . . . on which fifteen or twenty thousand (seals) commonly rest.

Elliott, Fur-Seal Islands of Alaska, p. 43.

hauling-line (hâ'ling-lin), n. Naut., a small line lowered to the deck from a top or yard to be bent on to such articles as are needed for work which is going on aloft, as a maul, a marlinspike, or the like.

haul-up (hâl'up), n. In lumbering, a light chain and hook by which a horse may be

hitched to a cable in order to move it where desired.

haunch-bone (hänch'bon), n. The hip-bone, or os innominatum, which forms one side of the pelvis; also the ilium or the largest of the three bones composing each innominate bone.

The skeleton of the lip, or haunch bone, is called the s innominatum, and there is one such on each side in the dult man.

Mivart, Elem. Anat., p. 177.

haunch-stone (häneh'ston), n. In a stone arch, any stone placed at or near the haunches

camera that may be concealed in a hat.

hatch!, n.—Take care of the lee hatch, an obsolet order to the helmsman which signified that he was not to steer to leeward of the compass course given him.

Hatch Act. See *act.

hatch-beam (hach'bēm), n. An extra strong beam fitted across the deek of a vessel at the ends of a large hatch, to compensate for the ends of a large hatch, to compensate for the eadled system of the compassion in strength caused by the opening.

for hats.

for hats.

for hats,

straigh and Haussmannize (hous'man-īz), v. t.; pret. and without associates or helpers, specifically as practised in gold-mining in Australia; one who has everything 'under his own hat.' See hauseth and without associates or helpers, specifically as practised in gold-mining in Australia; one hatch-leam (hach'bēm), n. An extra strong beam fitted across the deek of a vessel at the ends of a large hatch, to compensate for the called system or helpers, specifically as practised in gold-mining in Australia; one hatch-leam (hach'bēm), n. An extra strong beam fitted across the deek of a vessel at the ends of a large hatch, to compensate for the called system or helpers, specifically as practised in gold-mining in Australia; one hatch-leam (hach'bēm), n. An extra strong beam fitted across the deek of a vessel at the ends of a large hatch, to compensate for the compassion of th afar, as was done in Paris under the control of Baron Haussmann during the Second Empire.

Baron Haussmann curing the Second Empire.

As Louis XIV. set the fashion to palace-builders with Versailles so Haussmann, by the creation of a new Paris, excited to emulation the shapers of cities, and to "Haussmannize" has come to mean the substitution of monotonous avenues and rectilinear spaces for the crooked ways and irregular boundaries dear to the archæologist and the historian.

Encyc. Brit., XXIX. 235.

haustrum (hâs'trum), n.; pl. haustra (-trā). One of the small pockets or sac-like folds in the terminal division of the colon.

hauthoy, n. 3. In organ-building, same as

hautecontre (ōt-kontr'), n. [F., 'alto counter.'] The obsolete alto viol. See viola da braccio.

hautefeuillite (hōt-fè'i-yīt or hât-fū'i-līt), n. [Named for M. P. Hautefeuille, a French mineralogist.] A hydrated phosphate of magnesium which resembles bobierrite but differs in containing several per cent. of calcium: it is from Bamle, Norway. haüynite (hä'win-īt), n.

[haüyne + -ite2.] Same as haüyne.

hav, v. A simplified spelling of have. havers³ (hā'verz), n. Same as haver-grass. The wild oat-grass, or havers, Avena fatua L., is a weed of cornfields.

Fream, Complete Grazier, p. 914.

Haversian fringes, system. See *fringe, *sys-

haversine (hav'er-sin), n. [ha(lf) vers(ed) sine.] In navig., half the versed sine. The word was introduced by James Inman in the 1835 edition of his "Navigation." havier (hav'yer), n. [Also haver, haveer, hev-

ior, also halfer; origin uncertain.] A castrated fallow-deer.

A poll havier has no antiers, nor even the stumps, because he was added to the list in his infancy.

The Field, March 7, 1891, p. 332.

haw², n.—Black haw. (a) See *black-haw, 1 and 2. (b) Crategus tomentosa, the pear-haw, and sometimes C. Donglasii, the Western haw.—Dotted haw, Crategus punctata, a species of the more northern United States east of the Mississippi, with obovate leaves and white-dotted fruit. Sometimes called large-fruited thorn.—May-haw. See *May-haw.—Purple haw, Same as bluewood and logwood, 3.—Red haw, the scarlet haw or

scarlet-fruited thorn, Cratægus coccinea; also other redfruited species, especially C. mollis, C. Crus-galli, C. cordata, and C. wirldis.—Scarlet haw, Cratægus coccinea, a species, as now understood, ranging from Newfoundland to Connecticut and through the St. Lawrence valley to western Quebec.—Summer haw. (a) See haw2, 3. (b) Same as *May.haw.—Tree-haw, Cratægus pus viridis, a species with nearly the distribution of the May-haw, largest (sometimes 35 feet high) in western Louisians and eastern Texas, where it often forms large thickets. The foliage is extremely brilliant in autumn. Also red haw.—Washington haw. Same as Washington thorn (which see, under thorn!).—Western haw, Cratægus Douglawi, of the northwestern United States and British Columbia, a tree 30 or 40 feet high. Most often called thorn-apple; also black thorn, etc.

haw3, n. 2. (b) The inner eyelid or nietitating membrane of dogs: usually concealed, but noticeable in the bloodhound.

569

hawk's-eye, n. 2. The dark-blue variety of croeidolite found in South Africa: when eut in a rounded form and showing the cat's-eye effect, it is known as hawk's-eye stone.

Nawkweed, n.—Mouse-ear hawkweed. Same as golden mouse-ear (which see, adjacent parts of the United States,—Orange or tawny hawkweed. Same as golden mouse-ear (which see, stablished in parts of Canada and the Eastern and Widdle States, and is a bad weed in grass-lands. Called also red daisy, lady's-paintbrush, and devil's-paintbrush, and devil's-paintbrush.

hawok (hä'wok), n. [Southern Maidu (in central California).] Shell money of the Cali-

Hawaiian subregion. See *subregian. hawberk, n. See hauberk. hawk1, n. 3. A double-hooked instrument for drawing or moving about the cloth in the dyeing-liquor of a hawking-machine.-Cooper's



Cooper's Hawk (Accipiter cooperi).

hawk, Accipiter cooperi, a small but strong and active hawk, abundant in North America south of the Canadian boundary: more destructive to chickens and young poultry than any other species. It is bluish gray above, and white, barred with rufous below, and about 18 Inches long and 30 in spread of wings.—Harris's hawk, Parabuteo unicinetus harrisi, a rather large species, found in the southern and western United States. It has dark plumage and the tail is black with a white band at base and one at the tip.—Red-



Red-shouldered Hawk (Buteo lineatus).

shouldered hawk, Butea lineatus, a common species of the eastern United States, of a dark reddish brown above and rather rusty colored below: length about 18 inches: spread of wing about 42 inches. It is one of the most omnivorous of hawks, eating frogs, fish, insects, and small mammals—Swainson's hawk, Butea sectionary, a western species, about 20 inches long and 48 in spread of wing: usually distinguished easily by its rufous breast-band, which contrasts sharply with the white plumage of the nuder side.—Tarantula-hawk. See*tarantula-hawk. hawk¹, v. II. trans. To draw or to pull with a hawk, as cloth through the dye-vat of a hawking-machine.

hawking-machine.

hawk-cuckoo (hâk'kûk"ő), n. Any one of six species of euckoos of the genus *Hicrococ cyx* which resemble small hawks in appearance and flight. They are gray above, more

effect, it is known as hawk's-eye stone.

hawkweed, n.—Mouse-ear hawkweed. Same as mouse-ear, 1. This plant is adventive in Ontario and in adjacent parts of the United States.—Orange or tawny hawkweed. Same as godden mouse-ear (which see, under mouse-ear). The orange hawkweed has become established in parts of Canada and the Eastern and Middle States, and is a bad weed in grass-lands. Called also red daisy, lady's-paintbrush, and devil's-paintbrush, the latter names probably both referring to the peculiar strong coloring of the heads, the last also to the noxions character of the plant. Compare king-devil. See cut under *devil's-paintbrush.

hawok (hä'wok), n. [Southern Maidu (in central California).] Shell money of the Californian Indians, consisting of circular disks of *Pachyderma crassatelloides* from a quarter of

of Pachyderma crassatclloides from a quarter of an inch to an inch in diameter and perforated in the center for stringing.

hawse¹, n.— In the hawse, a short distance in advance of the cutwater.— To have a bold hawse, said of a vessel when its hawse holes are high above the water.

hawse³, n. 2. A ridge or neek (generally at the head of two oppositely-descending streamvalleys) which connects two higher ridges or summits, as on the Scottish border and in the Lake district of the North of England. [Local.]

hawse-boxing (haz'bok"sing), n. An old-fashioned method in ship-building by which a projection equal to the thickness of the inner and outer planking was left upon the hawse-timbers in the wake of the hawse-poles. Against

this projection the planking butted.

hawse-fallen (hâz fâ*ln), p. a. In the phrase to ride hawse-fallen, said of a vessel when it is at anchor and the water which reaches the decks through the hawse-pipes is heavy in volume.

hawse-full (hâz'ful), adv. See to *ride hawsefull.

hawse-jackass (hâz'jak"as), n. A eanvas bag shaped like a cornucopia, stuffed with oakum and thrust into the hawse-pipes when at sea to prevent the waves from flowing inboard as

they break against a vessel's bows. hawse-laid (hâz'lād), a. Naut. Naut., same as hawser-laid.

hawser-bend (hâ'zer-bend), n.

hawser-bend (hâ'zèr-bend), n. A bend for joining two hawsers. It is customary to make a bowline in each hawser, so that the bight of one will pass through the bight of the other, or to make a carrick-bend (which see). Hawthorn heds. See bed!.—Hawthorn decoration, a characteristic style of ornamentation on Chinese porcelain, having a blue, black, green, or red ground. See hauthorn china, under hawthorn. Hawthorn lacebug. See *lacc-bug.—Indian or East Indian hawthorn, a hardy, ornamental, dian or East Indian haw-thorn, a hardy, ornamental, evergreen shrub of the apple family. Raphiolepis Indica. It is a ustive of southern China and is often cultivated in European gardens. hawthorn - gooseherry (hâ'thôrn-gôs'ber-i), n. See *gaoseherri), n.

See *gooseberry.



It gives as its product what is known all over the Aus

haya² (hä'yä), n. [Jap.] A fish, *Pseudoras-bora parra*, of the family *Cyprinidæ*, found in the waters of Japan. Also known as *moroko*. hazel-carpet (hā'zl-kär"pet), n. See *ear-pet. 4. hay-carrier (hā'kar"i-er), n. Same as *hayelevator. haye (ha'ye), n. [Also hae; Jap. haye, splen-

dor.] A Japanese name for small shiners or minnows of the family *Cyprinidæ*, belonging to the genus *Zacco*, found in the waters of Japan. Also known as oikawa and zako.

ance and flight. They are gray above, more or less rufous below, and have a banded tail and large yellow eye. All are Asiatic.

hawking-machine (hâ'king-ma-shên'), n. A cloth-dyeing machine constructed with guiderollers designed to keep the goods covered by the dye-liquor and protected from the air.

Japan. Also known as ouawa and zako.

hay-elevator, n. These machines, commonly called hay-carriers, are assed to lift, transport, and deliver hay, straw, correstalks, or other material in bulk or in bales. The simplest forms are hay-stackers, which employ a mechanical hay-fork or sling for gathering the hay from a wagon and delivering it to a stack or to the cableway, on which it

travels to any part of a large and long stack. Those used in barns employ lifting appliances and earriers traveling upon fixed tracks suspended from the roof of the barn. They are usually automatic, and gather the hay from the wagon, elevate it, transport and deliver it, and return for the next load with only slight attention from the operator. See *hay-fork and stacker2.

Nav-fork N. Hay-forks need with hay-conviews are constant. Those used

tor. See *hay-fork and stacker2.

hay-fork, n. Hay-forks nsed with hay-carriers are made in the form of spears or harpoons, or of hinged grappling-irons resembling a clam-shell dredge. The harpoons are single or double and are provided with harbs which, when the shaft is thrust into the hay, can be thrown out to gather and lift a large bunch of it. The grappling-forks are opened and dropped upon the hay, when a pull upon a cord draws the tines together, gathering and lifting the hay.

hayko (hī'kō), n. A Russian name applied in Alaska to the dog- or ealieo-salmon. Oncorhun-

Alaska to the dog- or ealieo-salmon, Oneorhyn-

chus keta.

chus keta.

hay-loader, n. A hay-loader of the modern type consists essentially of a broad inclined elevator supported on a pair of wheels, and designed to be attached to the rear end of a hay-wagon; some form of raking or gathering device for collecting the hay from the ground or from windrows; and a conweyer for carrying the hay, as fast as gathered, up to the elevator and stacking it on the wagon. The forward movement of the wagon causes the wheels of the loader to communicate motion, hy means of belts, to some form of revolving or reciprocating hay-rake and some form of conveyer that lifts the loose hay gathered by the rakes and deposits it on the wagon. Such machines have largely superseded hand labor in gathering the hay crop.

haymaking (hā'mā'king), n. The mowing.

haymaking (hā'mā"king), n. The mowing, euriug, and housing of the hayerops; haying. hayo (hī'yō), n. [Native name.] In Venezuela, any one of several species of Erythroxylum, the leaves of one of which, E. Coea, are known as coea-leaves and yield the alkaloid eocaine.

hay-rigging (hā'rig'ing), n. A temporary wooden framework placed in a wagon to increase its capacity for light loads, such as hay or scaweed; also, a cheap form of farmwagon having flaring stakes at the sides, used to carry hay.

hay-rope (hā'rop), n. In foundry-work, a rope form of tightly twisted hay or dried prairiegrass, used in making cores.

hay-scales (hā'skālz), n. pl. Public weighingseales maintained by a town for general use, as in weighing loads of hay.

haysel (hā'sel), n. The haying or haymaking time. [Local, Fing.]

hay-spade (hā'spād), n. A hay-knife (which

hay-stacker (hā'stak"er), n. A hay-elevator specially designed for placing hay in stacks out of doors. See *hay-elevator.

hay-sweep (hā'swep), n. A large hand hav-

hay-sweep (na swep), n. A machine for rake. [Loeal.]
hay-tosser (hā'tos"èr), n. A machine for tossing hay in the process of drying it.
hay-worm (hā'wèrm), n. A caterpillar which feeds on hay, as the clover-hay worm (larva costalis), which see, under of Hypsapygia costalis), which see, under

hazard, n. 8. In golf, a bunker, water, path,

hazard, n. 8. In golf, a bunker, water, path, road, railway, fence, or ditch.—Hazard chase or opening, in golf, a small opening in a hazard or bunker to allow passage for the players.

hazel, n.—Aqueous haze, a hazy or misty appearance of the atmosphere due to the presence of particles of water. When the particles are the smallest possible, this haze has a delicate blue tint, but when they are larger a whitish tint. A haze due to dry dust is nasully yellowish or reddish. See water-haze, under hazel. hazell, n. 2. The wood of the sweet-gum, Lianidamhar Sturaeifina: a common use of the

Liquidambar Styraeiflua: a common use of the word among lumbermen and builders of the eastern United States.—3. In Australia, either of two small evergreen trees of the buckthorn family, Pomaderris apetala and P. lanigera, yielding excellent wood. See bastard *dagwood (b), cooper's-wood, and Pomaderris.

—Black-knot of hazel. See *black-knot.—Snapping hazel, the witch-hazel: so called from the elastic hursting of the ripe capsule by which its bony seeds are profected.

It gives as its product what is known at our feeted.

It wrightson, Fallow and Fodder Crops, p. 246.

Lightson, Fallow and Fodder Crops, p. 246.

hazel² (hā'zl), n. [Short for hazel-earth.] A soil consisting of a mixture of gravel or sand,

hazel-dodder (hā'zl-dod"er), n. See *dodderl. hazel-fly (hā'zl-fli), n. A British anglers' name for a searabæid beetle, Phyllopertha horlieola, and for an artificial one made in imitation of it.

hazeline (hā'zl-in), n. [hazel1 + -ine2.] trade-name of a toilet preparation said to be distilled from the fresh leaves and twigs of witell-hazel, Hamamelis Virginiana.

hazelly² (hā'zl-i), a. [hazel $^2 + y^1$.] Consisting of hazel-earth: as, hazelly loam. N. E. D. hazelnut, n.—Chinese hazelnut, the liehl, Litchi



hazel-worm (hā'zl-werm), n. [A translation of German haselwurm.] The bliudworm, or of German haselwurm.] ! slow-worm, Anguis fragilis.

hazzan, chazzan (cha'zan), n. [Heb. hazzan, Aram. hazzana, prob. (Assyr. hazanu, hazannu, overseer. director.) In Jewish use, an overseer; specifically, an official of a Jewish synagogue. Formerly the functions of the hazzan were various: he was not only overseer but also dayan (judge), saphra (scribe), etc. The chief function of the modern hazzan is that of reader or cantor.

Hb. A contraction of hemoglobin.

H-bar (āch'bar), n. A bar with an H section. H. B. Curves. Curves exhibiting the variation magnetic induction (B) with the magnetizing force (H).

tizing force (H).

H. C. An abbreviation (b) of Heralds' College.

H. C. M. An abbreviation of His (or Her)
Catholic Majesty.

he² (hā), n. [Heb. hē.] The fifth letter (¬) of
the Hebrew alphabet, corresponding to the
English h. Its numerical value is 5. He. The chemical symbol of helium.
H. E. An abhrevistion (2)

An abbreviation (a) of His Eminence; (b) of His (or Her) Excellency; (e) of Hydraulie Engineer.

h. e. An abbreviation (a) of the Latin hie est, he is'; (b) of the Latin hoe est, 'this is.'

head. I. n., 6. (m) (2) A rubble-drift capping a cliff, on the coast of Devon and Cornwall.

This 'head' consists of a more or less coarse agglomera of angular débris and large blocks set in an earthy rix.

J. Geikie, The Great Ice Age, p. 389.

matrix. J. Geikie, The Great Ice Age, p. 389.

(u) In a bow for instruments of the viol class, properly the end farthest from the player's hand; the point: opposed to heel or nut. Sometimes, however, the term is loosely applied to the projecting piece at the heel. (v) The flexible shank attached to a molded button; a tuft of cloth protruding from the back of a button, by which it may be attached. (w) A rotating piece on a machine which carries cutting-knives, as on a wood-planing machine. (v) The ram in a quartz-crushing machine. [Mining term, Australia.] (y) In archery, an arrow-head. (z) All the lower part of a golf-club to which the shaft is connected. (aa) The upper, or proximal end of a long bone, which has a rounded articular surface, suggesting the head of a man. the head of a man.

The upper end of the humerns shows a large, rounded ead.

Mivart, Elem. Anat., p. 148.

(bb) The upper, or proximal end of a muscle where it is attached to a bone, and whence its pull is transmitted to another bone.

The biceps is the well-known muscle used in flexing ne arm. It arises by two heads. Mivart, Elem. Anat., p. 293.

(ce) The upright timber of a gate which forms the front

or swinging end.
7. (b) Specifically, the vertical height of the surface of a liquid in a reservoir above the center of figure of an orifice through which efflux takes place. When a liquid flows from a closed vessel under pressure mechanically produced, as by the action of a piston, the pressure at the orifice is always equivalent to that which would be caused by a vertical column of the liquid of requisite height and this height measures the virtual head. (c) A unit for estimating amounts of water used in irrigation - the amount flowing through an opening 331 inches wide and 3 inches high an opening 334 inches wide and 3 inches high under a pressure of 4 inches. U. S. Dept. Agr., Div. of Veg. Pathol., Bulletin 2, 1892, p. 85.—16. In astrol., the commencement of a zodiacal sign, that is, the point where the aun enters it. N. E. D.—17. A quarrymeu's term for that direction in a massive crystalline rock along which fracture is produced with the along which fracture is produced with the greatest difficulty.—18. A local name in southern England for the residual products from the weathering of rocks, more or less sorted by the rains. Geikie, Text-book of Geol., p. 460. -19. In textile-manuf., a section in a machine with completely independent functions, as in a drawing-frame, combing-machine, ribbon lap-machine, etc. Thornley, Cotton Combing Machines, p. 20.—Effective head, the head or pressure actually available for doing work; the net head; the static head minus the head lost in imparting velocity and overcoming friction and other losses before reaching the point where the force is applied to the motor.—Head of a ship, the extreme forward section of a vessel, from the knight-heads forward, including the figure- or scroll-head.—Head on. (b) The situation of a vessel when her head is held dead against the sea and wind. (c) Resulting from the sudden impact of two trains meeting directly on the same track; as, a head on collision.—Heads and posts, a cavalry exercise consisting in thrusting and cutting at leather heads placed on posts. Energe. Brit., XXVI. 156.—Head to tide, the position of a ship when its head is pointing dead against the tide-stream.—Hydrostatic head, the pressuredue to a column of water when at rest.—Knee of the head. See *knee.—Railway head, an attachment to several carding-machines for drawing and evening the card-sliver for the subsequent process.—Rain-water head, a center of a rain-water supply, such as is provided by the large continuous roofs of a public building. with completely independent functions, aa in

A very large field is also opening for cast-lead work, whether associated with architecture, as in theleaden-

of a public building.

covered way over Northumberland Street, in London . . . and the fine rain-water heads of the Birmingham Law Courts.

Encyc. Brit., XXX. 645.

Seamen's head (naval), the crew's water-closets, usually placed in the bows of the ship.—Static head, the pressure due to a column of liquid of a given height when such liquid is at rest.—To pump by heads. See *pump.—Universal head, a device with jaws adapted for holding a variety of work: used on the spindle of a lathe or milling-machine.—Velocity head, in hydraul., the effective head at the orities of efflux of a tube through which a liquid flows; the head which, if there were no friction or other resistance to flow would produce the existing regulations, the head which, it here were no friction other resistance to flow, would produce the existing velocity of the liquid. If the velocity of efflux be v, which corresponds to a head of liquid, hv = $\frac{v^2}{2g}$, then hv is called

the velocity head.

the velocity head.

II. a.— Head tide. See *tide!.

head, v. I. trans.— Heading-up machine, in barrelmaking, a machine for placing the head in a new barrel,
forcing it into the eroze and holding it there while one or
more hoops are put on, and making it ready for the hoopdriver.— To head a trick, to play a better card than any
already played to a trick, but not necessarily the best
card.— To head back, in hort., to shorten or cut off the
shoots of (plants); head in.— To head in, in hort, to
reduce in length or shorten (the shoots and twigs of plants).
— To head off. (c) To direct (a vessel's head) from the

—To head off. (c) To direct (a vessel's head) from the course; to allow (a ship) to diverge suddenly from the compass direction which it has been pursuing.—To head up, to bring (a ship's head) more in line with the wind or with an object. II. intrans. 5. Said of the wind when it

changes so as to get more in line with the direction that a ship desires to head, or when it draws more ahead of a ship.—6. In geol., to slope upward when viewed from below: said of inclined strata; the same as dip, 4, but the beds are seen from the opposite direc-

tion. -To head up, said of a vessel when it 'looks up' closer to the wind.

closer to the wind.

headache, n.—Billous headache. Same as sick-headache.—Organic headache, a headache due to actual disease of the brain or of the meninges.—Reflex headache, a headache due to eye-strain, nasal disorder, indigestion, or some other cause outside of the brain or its membranes. See del. (c).

La grading an ax used

head-ax (hed'aks), n. In whaling, an ax used for decapitating a whale, when cutting in.

head-bander (hed'ban"der), n. A person who fastens on the head-bands of books. N. E. D. head-block, n. 3. In a railroad switch, the timber on which the switch-stand and the ends of the switch-rails rest.—4. The pivoted casting at the top of the mast of a derrick, to which the guy-ropes, tackle-blocks, etc., are fastened.

-5. The log placed under the front end of the skids in a skidway, to raise them to the desired height.

head-bolt (hed'bolt), n. A bolt having a head

by which it can be turned.

head-clip (hed'klip), n. An adjustable clip, usually of metal, for steadying the head: used in photography and in certain psychophysical experiments.

head-cone (hed'kōn), n. A cephalocone. head-course (hed'kōra), n. Same as heading-

head-cowl (hed'koul), n. In certain pteropods, one of the two coverings of the head which inclose and protect the cephalocones.

header, n. 10. A connection at the ends of the tubea in a water-tube boiler. The water usually descends in one header and steam rises in another, thus keeping the current of water and steam flowing in one direction and promoting good circulation.

Instead of having two headers, as is the case with the latter type, the Niclausse has only one header, which is divided so as to allow for both the upward and downward flows.

Sci. Amer. Sup., Jan. 24, 1903, p. 22624.

11. In a floor or roof, the timber used for framing round an opening. It is supported by two trimmers, one at either end, and, in its turn, supports the ends of the two tail-beams. 12. A horse used in helping to haul heavilyladen vehicles up heavy grades.—13. In cigar-making, a workman who shapes or finishes the head or mouth-end of a cigar; also, an appliance used for the same purpose.

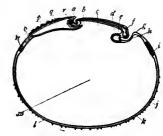
header-binder (hed'er-bin/der), n. of header in which the heads are delivered to a binder.

head-fold (hed'fold), n. In embryol., a fold of the amnion covering the head of the vertebrate embryo; also, a fold in the blastodisc which marks off the head-region of the embryo. See cut in next column.

head-footed (hed'fut"ed), a. Having the feet or locomotor organa attached to the head-regiou, as in cephalopods; cephalopodous.

head-gear, n. 4. The head-rigging of a vessel. head-gland (hed'gland), n. In many nemertines, one of the collections of gland-cells which lie in the head and open at the tip of the latter

in a disk-shaped group of cella bearing long hairs or bristles. It may function as an organ of taste. Also known as frontal gland. Proc. Zool. Soc. London, 1901, II. 95.



g, Head-fold

g, Head-fold.

A median longitudinal, or sagittal, section through a rabbit embryo and blastodermic vesicle at the end of the ainth day. (In part after Van Beneden and Julin.)

a, tail-fold of amnion; b, hind-gut; c, mid-gut; d, fore-gut; c, pericardial cavity; f, mid-brain; g, head-fold of amnion; h, pro-annion; i, sinus terminalis; i, hypoblast; k, epiblast; f, epiblastic villi; m, cavity of yolk-sac, or blastodermic vesicle; n, sinus terminalis; o, mesoblast; y, thickened epiblast by which the blastodermic vesicle is attached to the uterus; q, extra-embryooic part of the celoma or body-cavity; r, allantois. (From Marshall's "Vertebrate Embryology.")

head-hole (hed'hōl), n. One of the eyelet-holes in the head of a sail by which it is secured to a yard or gaff by robands which are passed through the holes and the jack-stay, or by a lacing.

nead-house, n. 2. In railroading, the end of a terminal station; that part of a terminal stahead-house, n. tion building which contains the ticket-offices, waiting-rooms, and concourse, and forms the front or entrance to the train-shed. It is usually much higher than the train-shed, the upper stories being used as offices for the company, and the main floor counceting with the tracks and platforms and serving as the entrance and exit for the outgoing and arriving passengers.

Sci. Amer., Jan. 14, 1899, p.

heading-chipper (hed 'ing-chip "er), n. A pneumatic chipping-hammer used for heading

rivets or boiler-tubea.

head-kidney, n. 2. The primitive kidney of annelid worms.

Parker and Haswell, Zoology,

head-lacing (hed'la'sing), n. The lacing which confines the head of a fore-and-aft sail to the gaff.

head-lifting (hed'lif"ting), n. A method of divination, practised by the Eskimo and by the Chukchee, in which the future is divined by tying a thong around the head of a reclining person. A second person tries to lift the head of the first by this thong, and his questions as to the future are answered in the affirmative if the head can be lifted, in the negative if teannot be lifted. Similar forms of divination by lifting stones and charms are found as far south as the Amur river.

Head-lifting is one of the chief divining methods, not less among the Chuckchee than among the American Eskino.

Amer. Anthropologist, 1902, p. 635.

Headlight oil. See *oil. head-line, n. 3. One of the lines in the title of a newspaper article, printed in large type to attract attention.—4. Same as head-fast.

headline (hed'lin), v. t.; pret. and pp. head-lined, ppr. headlining. To announce, refer to, or mention in the large print of newspaper head-lines; give prominence to in head-lines.

My job is private secretary to the President of this Republic, and my duties are running it. I'm not headined in the bills, but I'm the mustard in the salad dressing.

**McClure's Mag., Feb., 1903, p. 431.

head-mark, n. 2. An unplowed ridge of land

left to serve as a boundary; a balk. head-motion (hed'mo"shon), n. A mechan-ism at the end of a fancy cassimere-loom or dobby-loom embracing the pattern-chains for operating the warp-harnesses and shuttleboxes.

head-note, n. 2. See head-tone and head-voice. Headon beds. See *bed1. Headon Hill sands. See *sand1.

head-pence (hed'pens), n. pl. [See head-penny.] A tax of forty shillings or more formerly collected from the people of the county of Northumberland by the sheriff twice in every seven years. The sheriff was not accountable to the king for this tax. It was abolished in the reign of Henry VI.

head-piece, n. 4. The figurehead, scrollpiece, or fiddle-head under a vessel'a bowsprit.

head-rigging (hed'rig"ing), n. The rigging belonging to the foremast, bowsprit, and jib-

booms.

head-ring, n. 2. In a four-in-hand harness, a ring, fixed at the crown of the bridle of a wheel-horse, through which the lead-rein for

none of the leaders passes.

head-room (hed'rom), n. 1. The vertical distance from a floor to the ceiling or beams above it: so named because this distance determines whether or not a person has room the control of the ceiling or the ceiling of t for his head when standing or walking on the floor. -2. Specifically, the space left above a stair by means of which the head of the person ascending the stair is kept free from striking ascending the stair is kept free from striking or coming too near the superstructure. The term may apply either to the vertical distance from the nosing of the step below to the ceiling or any cross-beam or the like above, or to the distance measured out dlagonally from the nosing of a step.

head-scab (hed'skab), n. Any acariasis of the head, as the sarcoptic seab (black-muzzle bead cach) of shoot. The parasites give rise to a

head-scab) of sheep. The parasites give rise to a violent itching, causing the sheep to rub and scratch their heads: in advanced cases the eyes may be partly closed, and breathing and even eating may become difficult because of the formation of crusts about the mouth and nostrils.

head-shaping (hed'shā'ping), n. The practice of changing the natural conformation of the head by compression: common among many uncivilized tribes and peoples.

Head-shaping has been universal. Smithsonian Rep., 1899, p. 516.

head-sill, n. 2. In a wooden window-frame which forms the top and holds the sides to-heart-borer (härt'bör-ér), n. An American

head-snapping (hed'snap"ing), n. Same as head-hunting. Ratzel (trans.), Hist. of Mankind, I. 447.

head-spanner (hed'span"er), n. In anthrop. an instrument for measuring the dimensious of the head.

In order to confine the cost of the inquiry within reasonable bounds, a special head-spanner was devised.

K. Pearson, in Biometrika, March-July, 1904, p. 134.

head-stock, n., 1. (d) The central frame of a spinning-mule, containing the operative mechanism of the machine. Nasmith, Cotton Spinning, p. 244.—2. The wooden cross-beam to which a bell is bolted and which serves as the nivot on which it swings. the pivot on which it swings. Also called

head-wall (hed'wâl), n. See head. head-water (hed'wâ'ter), n. One of the upper tributaries of a river: usually in the plural. Also used adjectively.

The headwater tributaries of Glia river drain the slopes of several ranges of the Mogollon mountaios.

Dept. Com. and Labor, Bur. of Census, Bulletin 16, [Irrig. in U. S., 1902, p. 70.

Head-water mark, a point or mark to define or limit the maximum permissible height of water above a dam, or in a pond, reservoir, or waterway subject to artificial regulation.

headway, n. 4. In railroading, the time which elapses after one train passes a certain point before the following train passes that point.

head-work, n. 3, pl. The group of artificial
works or constructions at the head of an artificial canal or channel necessary to divert and regulate the flow of water from a river or regulate the flow of water from a river or other body of water into the canal. For an irrigating canal, the head-works would include a diversion weir, if any, with its accessories, a guard-boom to divert floating objects away from the canal-gates, head-gates or studies to regulate the admission of water to the canal, and gaging or measuring appliances for determining the quantity of water entering the canal. For a water-power canal extending from a stream, reservoir, or millipond to a water-power station, the head-works would include a dam to divert or raise the level of the water, a guard-boom to divert large floating objects away from the entrance, a rack or screen to prevent the entrance of amalier floating material, and sluice-gates to regulate the flow of water into the canal.

Headworks can be placed more easily along the banks**

pl. A platform or raft with windlass or capstan which is attached to the front of a log-raft or boom of logs for warping, kedging, or winding it through lakes and still water, by hand or horse-power.

heady, a. 4. Intelligent. health, n.—Diploma in Public Health. See *di-

heapstead (hep'sted), n. The entire plant above ground at the shart of a coal-mine.

See *athletic.—Fatty heart. (a) Fatty degeneration or infiltration of the wall of the heart. (b) An excessive deposit of fat around the heart.—Heart and soul, entirely; wholly; unreservedly; with eager enthusiasm; enthusiastically: as, he threw himself heart and soul into the work.—Iced heart. See *iced.—Irritable heart, a functional disorder of the heart marked by rapid pulsations or palpitation, cardiac paio, shortness of breath, etc., on slight exertion or following mental excitement.—Left heart, the left auricle and ventricle of the heart taken collectively as the center of the systemic circulation.—Military heart, irritable heart in soldlers.—Pulmonary heart. Same as right *heart.—Respiratory heart, the right auricle and ventricle, which receive the blood from the system and send it to the lungs. [Rare.]—Right heart, the right auricle and ventricle of the heart taken collectively as the center of the game of hearts in which the player who takes no hearts wins everything on the table.—Systemic heart, the left auricle and ventricle considered together as furnishing the blood to the body generally. [Rare.]—To lose heart, to become discouraged. Wandering heart, an abnormally mobile heart.

heart-block² (härt'blok), n. Contraction of the auricles of the heart which is not transmitted to the ventricles, the auricular pulsariation and the services of the heart which is not transmitted to the ventricles, the auricular pulsariation.

the auricles of the heart which is not transmitted to the ventricles, the auricular pulsations being sometimes of more than double the frequency of the ventricular.

Stokes noted on the readmission of his patient a new symptom—a remarkable pulsation in the right jugular vein, more than double the rate of the ventricular contractions. This feature has been studied by Chauvean, by Quincke, by His, jun., and others, who are of opinion that the jugular pulsations correspond to independent auricular contractions which are not propagated to the ventricles—a state of "heart-block," as Gaskell terms it.

Lancet, Aug. 22, 1903, p. 523.

noetuid moth, Anarta cordigera, found in Canada, Labrador, and Colorado.

hearth-bottom (härth'bot "um), n. which forms the bottom of the hearth in a blast-furnace.

hearth-broom (härth' bröm), n. A small broom used about a fireplace for sweeping up ashes, cinders, etc.

hearth-brush (härth' brush), n. A small brush used to sweep up ashes, etc., ou a hearth.

hearth-pit (härth'pit), n. A pit under the floor in front of a Laneashire boiler.

hearth-plate, n. 2. One of the floor-plates over the hearth-pit of a Laneashire boiler.

heart hurry (härt'hur"i), n. Extreme rapidity of pulse, appearing suddenly and of short duration: a form of tachycardia.

There are certain peculiarities which distinguish true tachycardia from the evanescent "heart-hurry" so frequently produced by the most trivial causes.

Med. Record, Feb. 7, 1903, p. 204.

hearting, n. 2. (a) The interior portion of a mass of masonry, as the portion between the up-stream and down-stream faces of a masonry dam. Commonly called the backing. (b) The impervious vertical wall of masonry, concrete, or even clay puddle which is placed inside an earth embankment which forms a dam or a reservoir bank, for the purpose of preventing leakage through the embankment. Commonly called corc-wall if of masonry or concrete, and puddle-wall if of clay.

The tower is constructed with a facing of granite, all the stones being dovetailed in the usual manner. The hearting of the base is largely composed of concrete.

Encyc. Brit., XXX. 254.

heart-moth (härt'môth), n. A British collectors' name for a European noctuid moth, Dicycla oo.

heart-rot, n. 2. A fungous disease of beets, due to Phoma Betæ, which causes a decay of

the entrance, a rack or screen to prevent the entrance of smaller floating material, and sluice-gates to regulate the flow of water into the cansl.

Headworks can be placed more easily along the banks of smaller streams, or dams built across their beds, raising and controlling the waters.

Sci. Amer. Sup., Jan. 10, 1903, p. 22597.

4. pl. A platform or reft with the swap of the controlling for the results of the controlling the waters.

Sci. Amer. Sup., Jan. 10, 1903, p. 22597. and dull, the second short and sharp.—Redupil-cation of the heart-sounds, a double in place of a single first or second heart-sound, due to a lack of synchronism in the closure of the valves.

heart-stroke (härt'strok), n. 1. The impulse of the apex of the heart against the chest wall.

-2. Angina pectoris. heart-trace (härt'trās), n. Same as cardio-

heart-trowel (härt'trou"el), n. A moulders

hearst (herst), n. [Also hearse; origin obscure.] In hunting, a hind in the second or third year.

heart, n.—Accessory hearts, certain organs in brachlopods erroneously supposed to function as hearts.—After one's own heart. See *after.—Athletic heart.

heart-trowel (hart'trou"el), n. A moulders' trowel laving a heart-shaped outline.

heart-water (hart'wâ"ter), n. A serious, non-contagious, infectious disease of sheep and goats, rarely of calves, in South Africa. The diagnosis depends chiefly upon the post-mortem appearance of the viscera, the distinctive features of the disease

being only feehly or not at all evident, until the animal is very near death. The specific cause (doubtless a microorganism) is unknown. Transmission is by means of the bout-tick (Amblyomma hebræum), which aucks blood from the diseased animal, then falls to the ground to moult, and after moulting attacks other sheep or goats and infects them with the disease.

The Government entonelogist, Mr. C. P. Lounsbury, records an important discovery in regard to the propagation of the South African sheep and goat disease known as "heartwater." The bont-tick has been found to be the only medium of apreading the disease.

Nature, Nov. 26, 1903, p. 91.

heart-wood, n. 2. The Tasmanian ironwood, Notelæa ligustrina, the hard, close-grained wood of which is used for turning.

heart-work (hart'werk), n. Work that has been prompted by the heart, or executed with all one's heart.

With all the head-work that there is in these volumes, and all the heart-work, too, I have not bitten my nails over a single sentence which they contain.

Southey, Doctor, Iviii.

9. The quantity or weight of metal nucergoing a metallurgical process. See heat. 4.—Bus heat, in fording, the temperature of the heated metal which gives to the film of oxid which forms on a bright surface of a steel bar a color which is blue in daylight. The temperature ranges with the quality of the steel from 30° F. to 50° F.—Dynamical theory of heat, the theory that heat is a node of metion. See def. 2. The term is sometimes applied to the relations of heat and work (thermodynamics), semetimes to the seniors of radiation, and sometimes to the general theory that heat consists of motions of the particles of matter.—Heat consists of motions of the particles of compound it may be a gran-atom or a granu-nedelle.—Heat of compound it may be a granu-atom or a granu-nedelle.—Heat of dilution. See *dilution.—Heat of ovaporation. Surelys. *chem.*, the amount of near the office of the particles of a compound of the compounds and negative for endothermic of a compounds, and is measured in calories, that is, by the number of grams (or kilograms) of water warmed one degree, under specified conditions, by the heat produced in the reaction. Commonly it can be experimentally determined by indirect methods; by direct methods only when the reaction of formation can be made to take place rapidly, and without concurrent formation of coher compounds. The heat of formation of liquid water from its elements is expressed by the number of grams of water warmed one degree entigrade by the union of sixteen grams of oxygen with 2.015 grams of hydrogen, which is found to be 68400.—Heat of firstion. See latent heat of / fusion, under fusion, and fusion in the particles of the particles of the heat surely and the particles of the heat surely and the particles of the heat surely and the particles of the heat of fusion, under fusion.—Heat of fusion, which is processed by the union of sixteen grams of oxygen with surel Joule effect, which is due to the resistance of the circuit hand is independent of the direction of the current.—Stagnation of heat, an expression intended to mean 'accumulation of heat caused by the lack of conductivity in the surrounding material: as, in the case of a boiler when the boiler plate is coated with scale.—Stellar heat, heat from the fixed stars or planets. Observations of the spectra of stars show that many of these bodies are very similar to the sun and that they probably have temperatures comparable with the solar temperature. It is to be expected, therefore, that heat radiated to the earth by the stars bears the same proportion to their light-giving power as the heat from the sun does to the light received from that luminary. Attempts to detect the heat from the stars by placing the most delicate heat-mensuring instruments, as the thermopile or bolometer, in the focus of a telescope directed to a bright star such as Arcturus or Vega have given, however, negative results. Edison, in 1878, made observations on Arcturus by means of the tasimeter, but the indications of heat detected with this instrument in the image of that star have been seriously questioned. In 1888, Boys brought a new instrument, the radiomicrometer, to bear on this subject, and although the sensitiveness of the apparatus was such that 72,050 of the heat received from the moon could have been detected, no effects were obtained in observations upon Jupiter, Saturn, Arcturus, Vega, Capella, and other stars. In 1888–1900 E. F. Nichols, using his form of radiometer and a concave mirror of 61 centimeters aperture, obtained measurable indications of heat in the images of Arcturus, Vega, Jupiter, and Saturn. The sensitiveness of the instrument was such that a candle placed at a distance of 633 meters gave a deflection of 67 millimeters. Since it was possible to read deflections of one tenth of a millimeter it was computed that the heat from a candle at a distance of 4.3 kilometers was capable of detection. The mean intensity of the r

 0.51×10^{-8} meter-candles. Arcturus, Jupiter, 1.14 " 2.3 " 0.37 " Saturn, The total radiation of these stars stands in the ratio:

Vega: Arcturus = 1: 2.2 Vega: Jupiter = 1: 4.7 Vega: Saturn = 1: 0.74

Since the photometric intensities of Vega and that of Arcturus are nearly equal it follows that the infra-red spectrum in Arcturus is proportionately much stronger than that of Vega.—Thermometric heat, the heat of matter, measurable in calories, as distinguished from radiant energy.—Total heat. (a) In thermodynam., the quantity E + pv, where E is the intrinsic energy of a substance, p its pressure, and v its volume.

The total heat as defined by Regnault . . . differs from 2 + pv) only by a quantity which is inappreciable in orinary prectice.

Energe. Brit., XXXIII. 285. dinary practice.

(b) The heat in calories required to convert a gram of liquid at its melting-point into saturated vapor at a given

heat-asphyxia (hēt'as-fik"si-ii), n. Symptoms of collapse caused by excessive heat.

heat-coil (het'koil), n. Same as *heating-

heater, n., (d) In elect., that part of the Nernst lamp which, in starting, is heated by the electric current and by its heat starts the glower. See Nernst ★lamp.—Baltimore heater, a stove designed to be set in a fireplace and, commonly, to heat a room overhead by means of hot air pipes.

heat-filter (hēt'fil"tèr), n. In photog., a cell having parallel glass sides filled with water, alum solution, or the like, interposed in the path of rays with the object of removing heatrays but allowing those of light to pass.

Sun-light and a calcium burner, both of which throw

heat-gage (hēt 'gāj), n. An instrument for ascertaining the temperature of furnaces, decent spiral of an electric lamp with that of the furnace. When both glow alike, the reading of an ammeter, in circuit with a rheostat, is taken. A table gives the corresponding degree of heat.

heath, n. 4. In Tasmania, the popular name

for several species of the genus Epacris, especially E. impressa, a beautiful slender shrub bearing white or red axillary flowers. See pecially E. impressa, a beautiful slender shrub bearing white or red axillary flowers. See Epacris.—Alkali heath, Frankenia grandifolia, a deeprooted perennial able to persist in cultivated ground, the most characteristic plant of the 'goosclands' of California. It is a useful slkali indicator, its presence implying an excess of Glauher's salts in the soil, incompatible with the raising of wheat or stone fruits. Also called gerba reuma from its medicinal properties.—Australian heath, any one of various species of the genus Epacris, which are cultivated in greenhouses, especially E. longitora.—Besomor broom-heath, the cross-leafed heath. See heath, 2.—Cornish heath, Erica vagans, a low gregarious species ranging around the Mediterranean and up the Atlantic coast to Cornwall. Also called moor-heath.—False heath. Same as false *heather(a).—Mountain-heath, Phyllodoce cerulea, an ericaccous shrub, with yew-like evergreen leaves and clusters of pink or purple flowers of the heather type. It is found in the northern Old World, and on the high mountains of New England and far north in North America.

heath-aster (hēth'as "têr), n.—Rose heath-aster, Leucelone ericaides, a low tufted plant of the aster family with terminal heads, the white rays turning rose-red in drying, found on the plains from Nebraska to Texas and west to California and Mexico.—White heath-aster. See *aster1.

Joule effect, which is due to the resistance of the circuit heath-butterfly (heth'but effect, n. A British heat-weight (het'wat), n. In mech., the encollectors' name for several species of agapetid butterflies. See heath, 3.



world heaths. Also called false heath and baoltat to the Old World heaths. Also called false heath and beach-heather. (b) Menziesia pilosa. See Menziesia pilosa. See Menziesia.—Mountain-heather. Same as sand-myrtle which see, under myrtle.—Red heather, in northwest-world the second plandulifora.—White heather, Phylicides evisitate the second plandulifora.—White heather plandulifora.

lodoce empetriformis, of the same region as the red heather. Compare alpine *heather.

heather-honey (heath'er-hun'i), n. Honey gathered from heather.

heath-stone (hēth'stōn), n. A name used by architects in England for certain sandstones which occur in the Bagshot beds of the

heating, n.—Counter-current heating. See parallel *heating, Parallel heating, parallel-current heating, the heating of a fluid flowing through a tube or flue by a substance on the outside of the tube flowing in a direction parallel to the direction of flow of the fluid on the inside: distinguished from counter-current heating, in which the currents flow in opposite directions.

heating-coil (hē'ting-koil), n. A coil of wire heated by the passage of an electric current and used for producing and maintaining a high temperature in various scientific operations or for industrial purposes. Also written heatcoil.

heating-furnace (hē'ting-fèr"nās), n. as reheating-furnace (which see, under furnace). heating-machine (hē'ting-ma-shēn"), n. combined heating-furnace and automatic feeding- and conveying-machine. The leer, the reel, and the rotary oven are heating-machines, but the term is commonly applied to combined gas-turnaces and con-veying-machines used in annealing, brazing, tempering, and coloring small parts of machines, hardware, and metal pipes, rods, and sbeets.

heat-rash (hēt'rash), n. Prickly heat (which see, under heat).

heat-ray (het'rā), n. A ray of heat; specifically, one of the less refrangible, infra-red, long-waved rays of the spectrum, discovered by the elder Herschel, which are invisible and sun-light and a calcium burner, both of which throw parallel rays, being out of the question for me, I have little actinic power, but are detected taken a powerful projection lantern and set it as near to the microscope as the intervening heat-filter will permit.

B'oodbury, Ency. Dict. of Photog., p. 367.

heat-gage (hēt'gāj), n. An instrument for ascertaining the temperature of furnaces, depending upon the comparison of the incandescent spiral of an electric lamp with that of the served by means of their thermal effects. In the normal solar spectrum as studied by Langley, they extend the spectrum are heat-rays, since when absorbed they all heat the absorbing surface.

heat-stroke (hēt'strök), n. Collapse or fever cent spiral of an electric lamp with that of the

caused by exposure to excessive heat of the atmosphere. See sunstroke. Handbook, III. 195. Buck, Med.

heat-tone (hēt'tōn), n. In thermo-chem., the sum of the heat developed in a chemical reaction and of the heat-equivalent of the external work.

Since we have reactions which evolve heat . . . and also reactions in which heat is absorbed, . . . the heat tone may be positive or negative.

H. C. Jones, Physical Chem., p. 286.

heat-unit, n.—Gram-centigrade heat-unit, the quantity of heat required to raise one gram of water from 0° to 1°C; a calory.—Kilogram-centigrade heat-unit, the quantity of heat required to raise one kilogram of water from 0° to 1°C; a greater calory. heat-wave (het'wav), n. 1. A day or series of days of unusually hot weather; a hot wave; a broad area of descending wind, dynamically

warmed by compression, moving eastward over the United States and often occupying several days in its transit. - 2. In phys., an ether-wave capable, by the transformation of the energy vibratory disturbance into heat, raising the temperature of bodies placed in its path. All ether-waves are heat-waves, but the term is usually applied to the longer waves of the spectrum, because these alone possess, in general, sufficient energy to produce a noticeable heating effect. See heat, n., 2.

tropy-factor: an erroneous term used in discussions on the theory of heat-action upon gases or other media for the conversion of heatgases or other media for the conversion of heat-energy into mechanical power. The energy in heat-mits expended by a gas in expanding from a higher absolute temperature T₁ to a lower temperature T₂ is the product of the range or difference in absolute temperatures multiplied by the change in the value of the entropy-factor during the expansion. The temperature-range measures the avsilability of the transformation, and this range must be multiplied by the entropy to give a product denoting the expended energy. In hydraulic-motor practice, the difference in heights of the bead-race and tail-race levels measures the availability of the water-power, and this range of height multiplied by the weight of water falling measures the energy expended. Now, by analogy, the entropy-factor acts to multiply temperature, as the weight acts to multiply height in feet: hence, the notion of calling this entropy-factor the heat-weight in an effort to give to the entropy a physical presentation as a property of heat-media, which is an impossibility.

heautophany (hẽ-â-tof'a-ni), n. [Gr. ἐαντοῦ, of himself, + -φανεια, < -φανής, < φαίνειν, show, manifest.] Self-manifestation.

[Gr. éavheautophonics (hē-â-tō-fon'iks), n. [0 $\tau o \tilde{v}$, of himself, $+ \phi \omega v \eta$, sound, + -ics.] as autophony.

as autophony.
heautotype (hē-â'tō-tīp), n. [Gr. ἐαντοῦ, of itself, + τύποι, type.] Any specimen identified with a species already described and named, and chosen by the author as an illustration of that species. Science, Lune 9, 1905. tration of that species. Science, June 9, 1905. heav, v. and n. A simplified spelling of heave.

heave, v. i.— Heave and awash! a call to the men at the windlass or capstan signifying that one more turn or heave will bring the anchor-ring to the surface of the water.— Heave and aweigh! an order to the men at the windlass or capstan to heave once more, in order to lift the anchor from its bed.— Heave and break! Same as *heave and aweigh — Heave and aweigh to the page at the page of the page and aweigh. windlass or capstan to heave once more, in order to lift the sunchor from its bed.—Heave and break! Same as *heave ond aweigh.—Heave and pawl! an order to the men at the eapstan to heave until the pawl drops into its socket.—Heave and rally! an order to the men at the capstan or windlass to exert themselves; an encouraging cry to the erew.—Heave in! a command to get in some of the cable; haul in the slack.—Heave killick! heave snchor.—Heave round! an order to turn the capstan around by its bars or by steam-power.—Heave short! a command to heave in most of the anchor-chain: the cable is hove short when the ship is riding nearly over her anchor without having slack cable out.—Heave up! an order to lift the anchor from the bottom.—To heave and set, to rise and fall, as a ship, owing to the undulation of the sea; the rise and fall of the waves.—To heave astern, to move a ship backward by heaving in on the rope or cable that leads astern.—To heave away, to commence heaving in: heave round the capstan; work the windlass-brakes.—To heave the ship ahead, to advance the vessel by heaving in on the anchor-chain, or on the line leading ahead.

ing ahead.

heave, n.—Cornwall heave, in wrestling, a throw in which the wrestler seizes his opponent by placing one arm in front of him and the other behind him, and lifts and throws backward, falling with him.—Heave of the sea. When a vessel is sailing more or less in the trough of a heavy sea the effect of it is to drive her to leeward; this drift, or lifting off, is expressed as heave of the sea or send of the sea. A shallow vessel will be lifted off more than a deep vessel, and for that reason no general rule can be given for the navigator.

heaved (hēvd), p. a. In geol., horizontally displaced by a fault: said of rock-masses or strata. Contrasted with thrown, or vertically displaced.

Heaven, n.—Son of Heaven, a translation of Chinese Tien tse, one of the titles given to the Emperor of China, who is supposed to rule by the will of Heaven.

heavs, n. A simplified spelling of heaves,
heavy, a. II. n. 1. The heavy part in a theatrical representation in which the dignity and self-importance of successful middle life are portrayed.—2. The actor who takes this part.—3. A member of the heavy cavalry or artillery: usually in the plural.—Heavy liquor. See *liquor. heavy-back (hev'i-bak), n. A Jamaican name for a kind of helmet-shell, Cassis madagasca-

he-balsam (hē'bâl*sam), n. See *balsam. hebamic (he-bam'ik), a. [G. hebamme, a mid-wife, +-ic.] Of or pertaining to a midwife or midwifery; maieutic.

But the soul is far wiser and truer than it knows and But the soul is far wiser and truer than it knows and clining to what concealed worth for itself through dark ages and persecutions in a way our philosophy is too small to explain and which should forever make us treat even superstition and the blindest and narrowest orthodoxies with sympathy and if possible with the hebamic art which Socrates praised.

Amer. Jour. Relig. Psychol. and Education, May, [1904, p. 46.

hebbakhade (heb-a-kä'de), n. similar to myrrh, but more acrid, imported from Africa. Also called besabol and (incorrectly) East Indian myrrh.

hebephrenic (hē-bē-fren'ik), n. and a. Same as hebcphreniac.

Heberden's nodes. See *node. hebetic (hē-bet'ik), α. [Gr. ήβητικός, < ήβητής, youthful, < ήβη, youth.] Relating to or occurring at the time of puberty.

braizes.

hecastotheism (he-kas-tō-thē'izm). n. [Gr. εκαστος, each, + Θεός, God, +-ism.] The type of primitive belief in which supernatural powers are attributed to both animate and

In classifying Indian myths Major Powell distinguishes four stages in the growth of mythic philosophy. To the first of these he gives the name of hecastotheism, the stage in which supernatural powers are attributed to both animate and inanimate objects, an all pervading animism which answered the questions of how and why to the savage mind. In the second stage or zoötheism this attribution of extra-natural and mysterious potencies is confined to animate forms and animals, usually by reason of some special quality, as strength, swiftness, cumning, etc., become deified. In the third stage, to which he gives the name physitheism, the agenc'es of nature, sun, moon, stars, rain and wind become personified and exalted into omnipotence. The fourth stage, which includes the domain of the spiritual concept, has not yet been reached by any of the Amerindian tribes.

Amer. Jour. Psychol., Jan., 1903, p. 63.

hecatolite (he-kat'ō-līt), n. [Gr. 'Eκάτη, Heeate

hecatolite (he-kat'ō-līt), n. [Gr. Ἐκάτη, Hecate (the moon), + λίθος, stone.] Same as moonstone.

hecdecane (hek'dē-kān), n. Same as *hexadecane.

hechima (hā' chē-mā), n. [Jap.] The sponge-gourd, Luffa Luffa. It is grown everywhere in Japan and large numbers of the common, hederinic (hcd-e-rin'ik), a. [heder-ic+-in+-ic.] spongy, fibrous variety are exported, while a same as hederic. slender, tender variety is cultivated exclu-hedge-bantling (hej'bant*ling), n. An illegitisively as an article of food.

Heckerism (hek'er-izm), n. [Hecker (see def.) + -ism.] The theological views attributed to Rev. Isaac T. Hecker, in which he was charged with minimizing Roman Catholic doctrine to

who severely questions a candidate for the della. purpose of finding some weak point in his hedgehog, n. 6. In elect., same as *hedgepolitical creed or professions, or of bringing out his actual opinions or position. [Great Hedgehog caterpillar, crystals. See *cater-Britain.]

The man who asks questions and insists on their being answered is a familiar presence at all party meetings [in England]. One of England's many debts to Scotland is the losn of the expressive word used to describe him. He is known as the heckler. The speaker is not allowed to discovered him. disregard him.
Sidney Brooks, in Harper's Mag., Aug., 1900, p. 338.

heckling-machine (hek' ling - ma - shēn*), n.

Same as heckle.

[NL., \langle Idectarthropia (hek-tär-throp'i-de), n. pt. [NL., \langle Idectarthropus + -idæ.] A family of caridean macrurous crustaceans having all of the trunk-legs similar in structure, simple, six-jointed, with the fifth joint not subdivided, mush "röm), n. The edible fundamm Hectarthropidæ (hek-tär-throp'i-dē), n. pl. It includes the genera Proceetes, Icotopus, Eretmocaris, and Hectarthropus, the last being Icotopus, the type.

Hectarthropus (hek-tär'thro-pus), n. $\langle \text{Gr. } \hat{\epsilon} \kappa \tau o \varsigma, \text{ sixth, } + \mathring{a} \rho \theta \rho o \nu, \text{ joint, } + \pi o i \varsigma (\pi o \delta -), \text{ foot.}$ The typical genus of the family Hee-

tarthropidæ. Spence Bate, 1888. hecto-ampere (hek'tô-am-par"), n. In elect.. one hundred amperes or ten c. g. s. units: a practical unit of current strength.

practical unit of current strength.

hectocotyliferous (hek*tō-kot-i-lif'er-us), a.

[NL. hectocotylus + L. ferre, bear, + -ous.]

Bearing or provided with a hectocotylus: as, a hectocotyliferous male among cophalopods.

hectocotylism (hek-tō-kot'i-lizm), n. [hectocotylus + -tsm.] The formation or development of the hectocotylus.

heddle-setting (hed'l-set*ing), n. An ar- Covillea tridentata. Seo Larrea. rangement of the heddles in a loom when a hedland, n. A simplified spelling of headland. change is made from a fine to a coarse reed, hedlong, adv., a., and v. A simplified spelling or vice versa.

or vice versa.

heddling (hed'ling), n. A set of heddle-frames hedonal (hed'ō-nal), n. [Gr. ήδονή, pleasure, *light standard.

+ -al l.] A hypnotic remedy; chemically, hefner-lux (hef'ner-luks), n. Same as *lux3.2.

Hebr. An abbreviation (a) of Hebrew; (b) of Hedenstræmia (hed-en-strê'mi-ä), n. [NL., Hebrews.

Hebraizer (hē'brā-ī-zer), n. One who Hetypieal genus of the family Hedenstræmidæ.

Hedenstræmidæ (hed en-strem i-dē), n. pl. [NL., < Hedenstræmia + -idæ.] A family of aumonoid cephalopods or ammonites in hedrioblast (hed'ri-\(\tilde{0}\)-blast). n. [Gr. \(\tilde{\ell}\) \(\delta\) of the principal septal sutures have lobes dim. of \(\tilde{\ell}\) \(\delta\) \(\delta\) aseat, a base, $+\beta\lambda a\sigma\tau\delta\zeta$, a germ.] and saddles with ceratitic outlines. It occurs

A term proposed by Allman for the fixed meduand saddles with ceratitic outlines. It occurs

hederigerent (hed-e-rij'e-rent), a. [L. hederiger, ivy-bearing (< hedera, ivy, + gercre, bear), +-ent.] Ivy-bearing; wreathed or garlanded with ivy, as the bacchantes in the Dienview fortight. Dionysian festivals.

Ethel, by this time breathless, threw her tambourine on the bed, and sat down. . . The hederigerent Mænads of old were never more filled with excitement.

Mortimer Collins, Marquis and Merchant, xxiii.

mate brat.

"Oh, bathoa!" said Lady Bath. . . "Is this hedge-bantling to be fathered on you, Mr. Frank?"
"It is necessary, by all laws of the drama, Madam," said Frank, . . . "that the speech and the speaker shall fit each other."

C. Kingsley, Westward Ho! ii. 41.

suit American notions. See *Americanism.

heckler, n. 2. One who severely questions hedge-bill, n. 2. In entom., a British collecand cross-questions another; specifically, one tors name for a tineid moth, Cerostoma horri-

hog-transformer.

nillar. *crystal.

hedgehog-converter (hej#hog-kon-vér'tér), n. Same as *hedgehog-transformer.

hedgehog - fish (hej'hog-fish), n. Any of the porcupine-fishes of the family Diodon-tidæ, found in

HydnumErinaceum. See hedgehog, 3.

hedgehog - shell (hej' hog - shal), n. A species of Murex, M. erinaceus, bearing nu-morous spines.

Hedgehog-mushroom (Hydnum E.

hedgehog-trans-

former (hej bog-trans-fôr mer), n. A type of transformer with open magnetic circuit heel-piece, n. 3. In iron ship-building, a short and a straight core of iron wires, the ends length of angle-bar which is used to connect and a straight core of iron wires, the ends of which are separated from one another as widely as possible, like little bristles: hence the name. Also called hedgehog-converter. hedge-hook (hej'hùk), n. A local English term

ment of a hectocotylize (hek-tō-kot'i-līz), v. t.; pret. and pp. hectocotylized, ppr. hectocotylizing. [hectocotylized. ppr. hectocotylized. ppr. hect talis. See Cassia, 1, and negro coffee (under coffee).—2. In New Mexico, the crossote-bush, Covillea tridentata. See Larrea.

the ester of methyl propylcarbinol-carbamic

hedonic, a. 3. Pertaining to sexual excitement.—Hedonic calculus, tone. See *calculus, *tone1.

A term proposed by Alman for the fixed mean-soids or sporosaes of hydromedusans; a gono-phore. Compare planoblast.

hedrumite (hed rum-īt), n. [Hedrum, in Norway, + -ite².] In petrog., a variety of syenite with little or no nephelite which has trachytic or laminated texture due to the tabular form of the feldspar crystals. Brögger, 1890.

Hedyscepe (hō-dis'ō-pō), n. [NL. (Wendland and Drude, 1875), \langle Gr. $\dot{\eta}\delta\dot{\nu}_{\xi}$, sweet, charming, + $\sigma\kappa\dot{\epsilon}\pi\eta$, shelter. The name alludes to the beauty of the type species, H. Canterburyana, which is called umbrella-palm in Lord Ilowe

Island.] A genus of palms. See Kentia. heehaw (hē'hâ), n. The bray of an ass or mule.

mule.

heel¹, n., 2. (h) The extremity of a knife-blade or of any tool (excluding the handle) which is opposite the point. (i) In a bow for instruments of the viol class, the end nearest the player's hand; the nut: opposed to head or point. (j) The base of a tobacco-leat; so called by manufacturers.—Glome of the heel. See *\lambda lone.—Heel of the flat. See *\lambda larkspur heel, in anthrop., the prominent long heel of negroid races.—To go round on her heel, to turn short around: said of a vessel.

heel¹, v. t. 6. In golf, to strike (a ball) on the heel of the club. W. Park, Game of Golf, p. 100.—To heel in, to store (young trees) for planting by

100.—To heel in, to store (young trees) for planting by laying (them) against the side of a trench and covering the roots with earth.

heel², v. t.—To heel the ship, to list the vessel over on her side.

heel², n.—Angle of heel. See ★angle³.

heel-brace (hēl¹brās), n. The iron shape on the lower part of a rudder, which acts as a reinforcement to the lower picture.

inforcement to the lower pintles.

heel-chain (hēl'chān), n. A light chain formerly used to secure the after end of the jibboom to the bowsprit. An iron band is now generally employed for this purpose.

Heeled bet. See *bet2.
heel-fly (hel'fli), n. The
adult of the American
ox-bot or ox-warble, au
cestrid fly, Hypoderma lineata. It flies about the heels of cattle and lays its eggs on the hair, whence they are licked by the animal.

heeling-indicator (lie 'ling-in"di-kā-tor), n. An instrument designed to show the angle of heel or the roll of a vessel: it may be a pendulum, the lower Female, slightly enlarged. end of which is pointed ("Insect Life," U.S.D.A.)



and moves over a gradu-ated arc, or a spirit-level, curved in an arc of a eirele, the bubble of which indicates the angle on a graduated scale.

heel-lashing (hel'lash"ing),n. A lashing passed around the heel of a spar; a number of turns of line around the inner end of a studdingsailboom and its yard; the rope that secures the inner end of the jib-boom to the bowsprit.

the heels of the two sections of a frame which meet at the center-line of the vessel.

heel-string (hēl'string), n. The tendo Achillis. heel-tackle (hēl'tak"1), n. A purchase hooked

hefer, n. A simplified spelling of heifer hefner (hef'ner), n. A unit of intensity of light; the light from a standard amyl-acetate lamp of the form devised by Hefner-Alteneck. See

cation, as of a magazine; a division of a work which is being issued in parts.

hegemon (hej'e-mon), n. [Gr. ήγέμων, a leader:

see hegemony.] A leader; a ruling power.

The hegemon of the Western hemisphere is the United States. Her power is paramount, as all the world recognizes.

The Forum, Jan.-March, 1904, p. 347.

hegemonist (hē-jem' ō-nist), n. Au advocate

of hegemony

Hegetotheriidæ (hē jē-tē-thē ri-i-dē), n. pl. [NL. Hegetotherium, the type genns, + -idæ.] A family of extinct ungulate mammals, of the suborder Typotheria, from the Eocene of Pata-Ameghino, 1894.

H. E. I. C. An abbreviation of Honorable East India Company.

India Company.

H. E. I. C. S. An abbreviation of Honorable East India Company's Service.

Height index. Same as altitudinal *index.— Height of a homogeneous atmosphere. See *atmosphere.—
Height of land. See *land1.— Metacentric height, in naval arch., the distance from the center of gravity of the vessel as a whole to the metacenter (which see). The metacentric height is a measure of the stability of a vessel when inclined to a small angle from the position of equilibrium. Negative metacentric height is that in which the metacenter is below the center of gravity; the vessel is then in unstable equilibrium and will not remain upright.—Motar height, in craniom, the height of the lower jaw at the level of the second molar.—Nasal neight, in craniom, the distance from the nasion to the medial point of the level of the inferior margin of the masal aperture.

height-gage (hīt'-

height-gage (hīt'gāj). n. A fine steel measuringinstrument for ascertaining the height of projections above a plane surface. It measures in thousandths of an inch.

height-measure (hīt'mezh'ūr), n. An instrument for measuring the height of a tree. the

measuring the height of a tree.

The instrument is set up where the operator can readily see both the top and the base of the tree, and the oblique distance from the center of the instrument to the base of the tree is measured. The sliding, weighted rule is then set on the base rule at the graduation corresponding to the measurement just procured. A sight is then taken through the eyepiece and the objective on the base rule to the base of the tree, the hair of the objective being brought into line with the base of the tree. A screw is set to hold the instrument at this angle. A second sight, to bring the bair of the objective on the oblique rule in line with the top of the tree, is then taken. The height of the tree is indicated on the upright rule at the point where the edge of the oblique rule passes it.

heimin (hā-min'), n. [Jap., \(\lambda hei, \) common, + min, people.] In Japan, the common people, as distinguished from the noblity.

heintzite (hint'zit), n. [G. heintzit (1890), marmed after Prof. W. H. Heintze, of Halle, as distinguished from the noblity.

A hydrous borate of the Atlantic and Pacific. H. dactylop
of both the Atlantic and Pacific. H. dactylop-

less and white monoclinic crystals, found at Leopoldshall, Strassfurt, Prussia.

heir, n.—Irregular heir, in the civil law of Lonisiana, one who takes the succession by provision of law when there are neither legal nor testamentary heirs.—Legal heir, in civil law, one of the same blood as the descendant who takes the succession by force of law rather than by will. There are three classes: (a) children and lawful descendants; (b) parents and lawful ascendants; (c) collateral kindred.

hei-tiki (hā-tē'kē), n. [Maori, < hei, a neck hei-tiki (hā-tē'kē), n. [Maori, $\langle hei$, a neck ornament, + tiki, a carved figure on the gable helicopter (hel-i-kop'tér), n. [Gr. $\hat{\epsilon}\lambda i\xi$ ($\hat{\epsilon}\lambda i\kappa$ -), of a house, also the name of a deity, the creator of man.] Among the Maoris, a small jade figwhich revolving screws or revolving helicoidal ure or image worn around the neck.

hel, n. and v. A simplified spelling of hell. helbeh (hel'be), n. [Ar. hilba.] The fenugreek, Trigoncila Fænum-græcum, and especially its seeds, which when made into flour and mixed with dhurra form a food largely used by the

with dutria form a food largely used by the working classes of Egypt. See fenugreek. helcodermatous (hel-kō-der'ma-tus), a. [Gr. ελκεν, draw, + δέρμα(τ-), skin, +-ous.] Boring or tearing; given to boring or tearing.—Helcodermatous spine. See *spine.

Helderberg group. See *group1.

hefner-meter (hef'ner-mē'ter), n. A unit of illumination, the illumination from a source of light equal in intensity to one hefner at a meter's distance; a lux.

heft's, n. 2. A part or number of a serial publisheft's, n. 2. A part or number of a serial publisheft's, n. 2. A part or number of a serial publisheft's, n. 2. A part or number of a serial publisheft's necessarily and the water-limes of the late Silurian and overlain by the Oriskany sandstone. It takes its leave the late of the late the water-limes of the late Silurian and over-lain by the Oriskany saudstone. It takes its name from its typical development in the Helderberg Mountains of New York, where its members, from the base upward, are Cocymans limestone. New Scotland beds, and Becraft limestone. In the earlier nomenclature of the New York rocks it was termed first the Helderberg group and subsequently the Lower Helderberg. See ***group.

helenene (hel'ë-nën), n. [helen(in) + -ene.] yellow, oily hydrocarbon which is formed when helenin is distilled with phosphorns pentoxid. heleoplankton (hē-lē-ō-plangk'ton), n. [Gr. ελος (gen. έλεος), a marsh, + NL. plankton.]
The plankton of a marsh.

In a heliocentrically (he-n-o-sen tri-kai-1), adv. helepole (hel' \tilde{e} -p \tilde{o} l), n. [F. hélépole, \langle LL. In a heliocentric manner; as if from the helepolis, \langle Gr. \tilde{e} l \tilde{e} haliochi, a besieging engine, prop. adj., 'city-taking' (applied to Helen and Iphigenia), \langle \tilde{e} heliochi, take, + $\pi \delta \lambda \iota \varsigma$, city.] A military engine anciently used in sieges; suparated here in the negative of \tilde{e} surface and \tilde{e} heliochically, the product of \tilde{e} surface and \tilde{e} heliochically, the negative of \tilde{e} heliochically (he-n-o-sen tri-kai-1), adv. In a heliocentric manner; as if from the sun's center. posed to have been invented by Demetrius Po-

helianthic (hē-li-an'thik), a. [Helianthus + -ic.] Pertaining to the sunflower.—Helianthic acid, a colorless compound, $C_{14}H_{15}O_{8}$, which occurs in sunflower seeds. It is resolved by dilute mineral acids into a fermentable sugar and an acid-violet coloring-

helichryse (hē'li-krīz), n. f = Helichrusum.Anglicized.] Some golden-flowered plant, perhaps ideal.

While curling through lash grass one spies Tendrils of honied helichryse. Symonds, In the Key of Blue. N. E. D.

helicin (hel'i-sin), n. [Appar. $\langle Gr. \hat{\epsilon} \lambda i \xi (\hat{\epsilon} i \lambda \kappa_r),$ a spiral, $+ -in^2$.] A colorless compound,

C₆H₁₁O₅OC₆H₄CHO, which is formed by the action of nitric acid on salicin. It crystallizes in slender, silky needles, melts at 175° C., and is the glucoside of orthohydroxybenzaldehyde.

Helicina (hel-i-si'nä), n. [NL, appar. ⟨ Gr. ἐλιξ (ἐλικ-), a spiral, + -inu.] The typical genus of the family Helicinidæ. About 500 species are known, most of which inhabit the Antilles, none being found in Africa. Launarck, 1799. [NL., ⟨ Helicinidæ (hel-i-sin'i-dē), n. pl. [NL., ⟨ He

tropods of the order Streptoneura, having the epipodium without tentacles, branchia absent,

sensity in the open spiral, the coils of which do not touch. It occurs in the Cretaceous heliometry (hē-li-om'e-tri), n. [As heliometer rocks. + $-y^3$.] The art of using the heliometer; also

nant red coloration, found in the deep waters of both the Atiantic and Pacific. H. dactylopterus of the Mediterranean (extending to the Gulf Stream and Japan) is the best-known species.

helicopepsin (hel'i-kō-pep'sin), n. [Gr. ελιξ (έλικ-), a spiral shell, + E. pepsin.] A pepsin-like ferment which is found in snails.

helicoproteid (hel'i-kō-prō'tē-id), n. [Gr. ελιξ (έλικ-), a spiral shell, + E. proteid.] A nucleoalbumin which is found in the albuminous gland of snails. It contains a large nous gland of snails. It contains a large

surfaces are depended upon to sustain the

machine in the air.
helicorubine (hel″i-kō-rö′bin), n. [Gr. ελιξ (έλικ-), a spiral shell, + L. rubus, red, + -ine².] An orange-red pigment found in the so-called livers of certain invertebrates.

Helicosporium (hel″i-kō-spō'ri-um), n. [NL. (Nees, 1816), Gr. $\hat{\epsilon}\lambda t\xi$, a spiral, $+\sigma\pi\sigma\rho\dot{a}$, seed (spore).] A genus of hyphomycetous fungi which have a creeping mycelium with short, erect, dark-colored conidiophores bearing erect, dark-colored conidiophores bearing curled or spiral, hyaline or colored septate

carbonate which occurs in caves in limestone. Helietta (hē-li-et'ā), n. [NL. (Tulasne, 1847), named in honor of Th. Hélie, a French physician and pharmacologist.] A genus of shrubs or trees of the family *Rutaceæ*. It is related to the hop-tree, *Ptelea*, but the fruit has three or four carpels, with oblique wings similar to those of a maple. There are two species, one in Colombia, the other (for which see *barreta) in Texas and Mexico.

Heligoland yellow. See *yellow.
Heliocentric parallax. See *parallax.
heliocentrically (hē"li-ō-sen'tri-kal-i), adv.
In a heliocentric manner; as if from the

sin, + χρόμα, celor.] A photograph showing an object in its natural colors; specifically, the product of a process devised by Niepce. See heliochromotype.

heliochromoscope (hē'li-ō-krō'mō-skōp), n. Gr. $\hat{\eta}^{\lambda}$ uoç, the sun, $+\chi\rho\bar{\omega}\mu a$, color, $+\sigma\kappa\sigma\pi\bar{\epsilon}\bar{\nu}$, view.] A device for superposing three species. cially prepared photographs of an object, one with red, one with green, and one with bluevielet light, so as to obtain a picture in the natural colors. See *chromascope, with cut.

heliofugal (he-li-of f-gal), a. [Gr. ήλως, the sun, + L. -fugus, < fugere, flee, +-al.] Moving away from the sun, or tending to produce such motion.

heliogram (hē'li-ō-gram), n. [Gr. ήλως, the sun, + γράμμα, a writing.] A message which is transmitted by heliographic methods. heliograph.

Heliographic chart, paper. See *chart, *paper. heliographically (he li-ō-graf i-kal-i), adv. By heliography; through the heliograph.

alcy on a rian corals of the family Hclioporidae. They grow in massive coralla in which the autopores have psendosepta or spinules and sometimes a columella; the siphonopores being without septia

umena; the st-(From Nicholson and Lydekker's "Palæon-phonopores being without septa and multiplying by fission or intramural gemmation. The genus is characteristic of the Upper Silurian, but also occurs in the Devonian.

heliologue (hē'li-ō-log), n. [Gr. ηλιος, the sun, + λόγος, word.] Same as *heliogram. Pall Mall Gazette, Jan. 8, 1900. [Rare.]

+ -y3.] The art of using the henometer, and (rarely), the art of making measurements upon

heliophobia (hē"li-ō-fō'bi-ä), n. [NL., < Gr. ηλιος, the sun, + -φοβία, <φοβεῖν, fear.] A morbid dread of sunlight.

heliophobous (hē-li-of'ō-bus), a. aeliophobous (hē-li-of'ō-bus), a. [Gr. ήλιος, the sun, + -φοβος, $\langle \phi o \beta \varepsilon i v, \text{ fear.} \rangle$] In phytogeog., shunning full sunlight: said of plants which require shade. F. E. Clements.

heliophotography (hē'li-ō-fō-tog'ra-fi), n. [Gr. ηλιος, the sun, + E. photography.] Photography of the sclar surface. Woodbury, Encyc.Dict. of Photog., p. 304.

[Gr. heliophotometer (hē/li-ō-fō-tom'e-ter), n. [Gr. $\hat{\eta}\lambda \iota o \varsigma$, the sun, + $\phi \tilde{\omega} c$ sun, + $\phi \tilde{\omega} c$ ($\phi \omega \tau$ -), light, + μέτρον, mea-sure.] Iu meteor., a special apparatus for recording the



sunlight: constructed by Professor F. Craveri and in use at the observatory Brá, near Turin, since 1874.

heliophyllite (hē-li-of'i-līt), n. [Gr. ήλιος, the sun, + φύλλον, leaf, + -ite-.] Same as *ecdem-

Heliophyllum (hē-li-ō-fil'um), n. [NL., < Gr. ηλιος, the sun, + φίλλον, leaf.] A genus of tetracorals of the family Cyathophyllidæ, which grow as simple, occasionally composite coralla, the septa bearing fine vertical ridges or

rainæ It occurs in Devonian rocks.

heliopolar (hē*li-ō-pō'lär), a. [Gr. ήλως, the sun, + πόλος, pole: see polar.] Related to the pole of the sun's rotation as determining

one axis of coordinates.

The vector diagram in heliopolar coordinates takes the form of a conical surface around the Sun. Science, Feb. 7, 1902, p. 223.

helioscopy (hē''li-os'kō-pi), n. sun, + -σκοπία, $\langle \sigma κοπείν, view. \rangle$ [Gr. ηλιος, the Observation of the sun; the use of the helioscope.

heliotactic (he'li-ō-tak'tik), a. [Gr. ήλως, the sun, + τάξως, disposition (see tactic).] Sensitive to or responsive to the sun's rays.

It would be extremely interesting to learn something of the mating habits of these highly heliotactic males and wingless females.

Biol. Bulletin, May, 1904, p. 253.

heliotherapy (hē'li-ō-ther'a-pi), n. [Gr. ηλος, the sun, + θεραπεία, medical treatment.]
Treatment of disease by means of sunlight:
a form of phototherapy. Lancet, July 11, 1903, p. 104.

heliothermometer (he "li-o-ther-mom'e-ter,, nenothermometer (ne li-o-ther-mometer.) An in Corsica and Italy.

in Strument for determining the intensity of Helleriidæ (he-l \bar{c} -r \bar{i} 'i-d \bar{e}), n. pl. [NL., \langle Helsolar radiation: usually a black-bulb therefore the leria + -idæ.] A small family of oniscoid crussians of the leria + -idæ.] mometer inclosed in a glass-covered case internally blackened.

heliotrope, n. 6. A direct coal-tar color of the disazo type, derived from dianisidine. It dyes unmordanted cotton reddish violet in an alkaline salt bath.—Alizarin heliotrope, a mordant dyestuff which produces reddish-violet shades with an aluminium mordant. Its constitution has not been published.—Heliotrope 2B, a direct coal-tar color of the disazo type, derived from benzidine.

heliotropin (hē-li-ot'rō-pin), n. [heliotrope +

in²·₁. Same as *piperonal. heliotypography (hē 'li-ō-ti-pog'ra-fi), n. [Gr. ηλιος, the sun, + τύπος, type, + -γραφία, < γράφειν, write.] The art of making heliotypes; γράφειν, write.] The art of making heliotypes; phototypy; collotypy; that process in photoengraving in which a gelatin film toughened by the action of chrome-alum is employed.

helioxanthin (hē*li-ō-zan'thin), n. [Gr. ηλιος, the sun, + ξάνθος, yellow, + -in².] An acid coal-tar color: same as diphenylamine-oranyce.

(which see, under orange1).

heliozincography (he"li-ō-zing-kog'ra-fi), n. [Gr. ηλιος, the sun, + E. zincography.] In photog., a method of reproducing directly on a sensitized zinc plate in contact with a reversed negative. See the extract.

negative. See the extract.

For the rapid reproduction of maps photozineography was, until a few years ago, the method invariably used. Two new methods have now superseded photozineography; one of these, "heliozineography," was worked out by the Ordnance Survey, and subsequently adopted by the Survey of India; the other, the "Vandyke process," was invented by Mr. Vandyke, of the Survey of India, and has now been adopted by the Ordnance Survey. The first method consists in reproduction direct on a sensitised zinc plate in contact with a reversed negative.

Nature, Nov. 19, 1903, p. 60.

helixigenin (hē-lik-sij'e-nin), n. [helixi(n) + - ηen + $-in^2$.] A crystalline compound, C_{26} H₄₀O₄ obtained, together with glucose, by heating the glucoside helixin with dilute mineral acids.

helixin (hë'lik-sin), n. [helix (see def.) + -in.] A white erystalline glucoside. C₃₂U₅₂ -in.] A white erystalline glucoside, $C_{32}II_{52}$ $O_{10} + 2H_2O$, contained in the leaves and seeds

of the English ivy, Hedera Helix. helixoid (he'lik-soid), a. and n. Same as helicoid.

hell¹, n.— Harrying or harrowing of hell. See harrying or hell. See harrowing of hell. See harrowing of hell. See harrowing.—The hound of hell. See *hound.
hellandite (hel'an-dit), n. [Named after Prof. Abmund Helland, Christiania.] Asilicate of calcium, the cerium metals, aluminium, and iron, which occurs in monoclinic crystals in pegmatite veins near Kragerö, Norway: related to guarinite. The crystals are more or less hydrated and have become optically isotropic in consequence of alteration.

hell-box (hel'boks), n. The box provided for the bruised or condemned types of a printing-

house. [Printers' slang.] hell-devil (hel'dev"l), n. The bellgrammitefly or its larva.

helleborate (hel-e-bō'rāt), a. [hellebore + -atel.] Mixed or prepared with hellebore. helleborein (hel-e-bō'rē-in), n. [hellebore + -e-

+ -in².] A colorless glucoside, $\rm C_{26}H_{44}O_{15}$ the most important constituent of black and green hellebore-roots (Helleborus niger, H. viridis, and H. fætidus). It crystallizes in nodules which carbonize at 280° C., has a sweet taste, and is poisonous. Helleborin, $C_{36}H_{42}O_{6}$ (?), occurs with it. It is a powerful intestinal irritant and is used in veterinary medicine.

helleboresin (hel/e-bō-rez'in), n. [hellebo(re) + resin.] A resinous substance, C₃₀H₃₈O₄, formed, together with glucose, by the action of dilute acids on helleborin.

helleboretin (hel/e-bō-rē'tin), n. +Gr. ρητίνη, resin.] A greenish amorphous powder, C₁₉H₃₀O₅, formed, together with glucose and acetic acid, by the hydrolysis of helleborein.

helleboric (hel-e-bō'rik), a. Of or pertaining to hellebore.

helleborism, n. 2. Symptoms due to poisoning by hellebore.

Helleno-Italic (hel"en-ō-i-tal'ik), a. Relating to the ancient Greeks and Italians of Roman affinity.

heller, n. 2. A modern Austrian coin, the one-hundredth part of a crown.

Helleria (he-le ri-ii), n. [NL. (Ebner, 1868), G. Heller, a surname.] The typical and only genus of the family Helleridæ. The single species, *H. brevicornis*, is found in damp moss in Corsica and Italy.

taccans containing the single genus Helleria.

hellhoffite (hel'hof-it), n. [From a surname Hellhoff' + -ite².] An explosive consisting of a mixture of dinitrobenzene and nitric acid: one of the Sprengel safety-mixtures.

hell-matter (hel'mat"er), n. Broken or battered type or printing-material that has been eondemned to or put in the hell-box. See *hell-box. [Printer's slang.]

condemned to or put in the hell-box. See *hell-box. [Printer's slang.]

helm¹, n.—Helm-angle indicator. See *helm-indicator.—Helm circle. See *circle.—Lee helm, the position of the tiller when the forward end or head is over on the lee side. See alee.—Port helm, the position of the tiller when its head is on the port side of the midchip line of the vessel.—Put the helm down! an order to put the tiller to leeward.—Put the helm upl an order to put the tiller to windward.—Starboard helm, the position of the tiller when its head is on the starboard side of the midship line of the vessel.—To carry a hard helm, said of a vessel when the wheel turns hard or when great effort is required to get it to respond to the rudder.

—To carry a lee helm, said of a vessel the tendency of which is to go off from the wind, and which requires a lee tiller to keep its head up. This is a dangerous fault, since it may be the means of sending a vessel off into the trough of the sea.—To carry an easy helm, said of a vessel which steers without effort or requires only a very moderate wheel (number of spokes) to change the direction of its head.—To carry a weather helm. (a) See carry. (b) Said of a vessel the tendency of which is to keep coming up into the wind, and which requires that the tiller he kept more or less to whidward to conteract it.—To meet the helm, to put the tiller over to the ship.—To put the helm alee. See alee.—To put the helm aweather, to shove the tiller over on the weather side of the ship, so that the vessel's head will fall off to leeward.

helmet, n. 6. In entom., the galea of an insect's maxilla .- 7. pl. A breed of small, fancy pigeons which have a white body and the tail and top of head black or red. The name is given in allusion to this cap or helmet.-Helmet creamer. See

helmet-hornbill (hel"met-hôrn'bil), n. See hornbill.

helmet-urchin (hel "met-er'ehin), n. Any sea-urchin of the family Galeritidæ.

Helmholtz pendulum. See *pendulum.

Helmholtzian (helm-hölt'si-an), a. Of or pertaining to the German physicist, physiologist, and psychologist Hermann Ludwig Ferdinand von Helmholtz, or to his work or theories: as, the Helmholtzian fundamental colors, etc.

helm-indicator (helm'in"di-kā-tor), n. Naut., an electrical or mechanical apparatus for indicating in the pilot-house or other steeringstation the position of the helm or rudder. Also called helm-angle indicator and ruddertelltale.

helminthite (hel'min-thīt), n. [Gr. ελμις (ελμινθ-), a worm, + -ite².] A trail of a worm on stone (a fossil), or a worm-like mark in stone.

Helminthochiton (hel-min-thō-kī'ton), n. hemachromatosis, hæmachromatosis (hem'-[NL., ⟨Gr. ἐλμις (ἐλμινθ-), worm, + NL. Chiton, a-krō-ma-tō'sis), n. Bad forms for *hemato-a genus of mollusks.] A genus of chitons or chromatosis.

polyplacophorous mollusks from the Silurian

helmintholite, n. 2. Same as *helminthite.-3. Lumachelle or fire-marble.

helminthophobia (hel-min-thō-fō' bi-ä), n. [NL., ζ Gr. ἐλμις (ἐλμινθ-), worm, + -φοβία, ζ φοβείν, fear.] A morbid dread of intestinal worms, usually associated with an illusion of being infested with them.

helminthous (hel-min'thus), a. [Gr. ελμις (έλμινθ-), worm, +-ous.] 1. Infested with intestinal worms.—2. Relating to worms, espe-

cially intestinal worms.

helmitol (hel'mi-tol), n. A colorless, crystalline citric-acid derivative of hexamethylene-tetramine; hexamethylene-tetramine-anhydromethylene citrate: recommended for cystitis, urethritis, pyelitis, etc.

helm-kick (helm'kik), n. A sudden jerk of the rudder in a seaway. helm-port(helm'port), n. Same as rudder-port.

helm-wind (helm'wind), n. Any wind that has the particular combination of moisture and wind-direction necessary to produce helm-

Helohyidæ (hē-lō-hī'i-dē), n. pl. [NL. Helohyus, type genus, +-idæ.] A family of extinct artiodaetyl mammals which have distant affinities with the logs whose remains occur in the

Bridger Eocene. Marsh, 1877. helotism, n. 3. The maintenance, by animals of one species, of individuals of another species in return for their labor as servants.—4. In bot., a peculiar form of symbiosis in which one organism bears to another the relation of slave to master; noting especially the relation of the algal to the fungal component of a lichen: opposed to mutualistic *symbiosis. Warming.

heloxyle (hē-lok'sil), n. [Gr. έλος, bog, + ξίλος, wood.] Peat-fiber compressed and hardened into various forms for use in building walls, ceilings, floors, etc.: esteemed where dryness, warmth, and freedom from noise are desired. Sei. Amer. Sup., May 21, 1904, p.

helth, helthy. Simplified spellings of health, healthy.

helv, n. and r. A simplified spelling of helve. Helvelius, great circle of. See *circle. helvellaceous(hel-ve-la'shius), a. Resembling

or pertaining to the family Helvellaceæ or the order Helrellales

Helvellales (hel-ve-lā'lēz), n. pl. [NL., < Helvella + -ales.] An order of discomycetous fungi having ascomata of various forms and including the families Geoglossaceæ, Helvel-laceæ, and Rhizinaceæ. Also Helvellineæ.

helvellic (hel-vel'ik), a. [Helvella + -ic.]
Pertaining to or derived from Helvella.—Helvella acid, a highly poisonous organic acid found in certain mushrooms of the helvella family: particularly abundant in old plants.

Helvellineæ (hel-ve-lin'ē-ē), n. pl. Same as *Helvellales.

Helvetian epoch. See *cpoch.—Helvetian stage, a term employed by the French geologists to designate the middle division of the Miocene Tertiary both in Switzerland and in the Paris hasin. These deposits are profuse in remains—mastodon, hippopotamus, monkeys, cats, seacow, dolphin, etc. remains—mastodo cow, dolphin, etc.

Helvidian (hel-vid'i-an), a. and n. [NL. Hel-ridianus, Alelvidius (see def.).] I. a. Pertain-ing to the doctrine of Helvidius, a layman of the fourth century, who denied the perpetual virginity of the mother of Christ.

II.n. One who holds the view of Helvidius. Helygia (hc-lij'i-ā), n. [NL. (Blume, 1826), irreg. (instead of "Helicia) < Gr. έλιξ (έλικ-), a spiral. The name alludes to the twining habit of the species.] A genus of dicotyledonous plants belonging to the family Apocynaecæ.

See Parsonsia, 2.
helypsometer (hel-ip-som'e-ter), n. [Irreg. ζ Gr. ήλως, the sun, + E. hypsometer.] In photog., a photographic instrument for deterphotog., a photographic instrument for determining latitude at sea. It consists of a hollow brass hemisphere, about 10 inches in diameter, swing in gimbals, and has a closely fitting cover, pierced at its center with a smalt round hole. The apparatus is mounted on a foot or hase. The silvered interior surface is sensitized with the vapor of iodine. When the cover of the instrument is adjusted and placed in sunlight, the path of the sun is traced on the sensitive surface. By applying a circular protractor after the exposure, the sun's altitude is found in degrees and minutes.

hemacite, hæmacite (hem'a-sit), n. [Altered, by blunder or intention, from *hematite (which is used in another sense), & Gr. aiµa, blood, + -ite2.] A plastic material, a substitute for horn, made from blood with the addition of sundry vegetable and mineral materials.

hemacyte, hæmacyte (hem-a-sīt), n. forms for *hemocyte, *hematoeyte.

hemacytozoön, hæmacytozoön (hem "a-sī-tō-zō'on), n.; pl. hemacytozoa, hæmacytozoa (-ä). zo on), n.; pl. hemacytozoa, hæmacytozoa (-ä). [Prop. hemo-; ζ Gr. aiμa, blood, + κίτος, a hollow (a cell), + ζφον, animal.] An animal microparasite of the blood-cells. Buck, Med.

Buck, Med.

A blood-parasite; one of the Hæmatoblastic (hem″a - tō-blas'tik), a. [hematoblastic + -ic.] Pertaining to or of the nature of a bematoblast; having reference to the formation of blood-parasite. Handbook, V. 674.

hemad, hæmad (hem'ad), n. [Gr. aiµa, blood, + -ad².] A hematocyte or blood-corpusele. hemadromometer, hæmadromometer (hem"a-drō-mom'e-ter), n. [Prop. hemo-; < Gr. αίμα, blood, + δρόμος, a running, + μέτρον, measure.] A device for measuring the rapidity of the blood-eurrent.

hemagglutinative, hæmagglutinative (hema-glö'ti-nā-tiv), a. Causing agglutination or elumping of red blood-corpuseles.

I have also tested abrin and ricin, which are strongly hamagalutinative, without finding a corresponding protection. Hideyo Noguchi, in Jour. Exper. Med., VII. 201.

hemagglutinin, hæmagglutinin (hem-a-glö'-

ti-nin), n. Same as *hemoagglutinin.

hemal. I. a.—Hemal axis. Same as aorta.—Hemal canal. See **canal!.—Hemal process, the arch below the centrum of a vertebra in fishes. Starks, Synonymy of the Fish Skeleton, p. 624.—Hemal ridge. See *ridge.

II. n. Same as hemal spine.

Candal with long neurals and hæmals.

Encyc. Brit., XXIX. 397.

hemalum, hæmalum (hem'a-lum), n. [hemal, hæmal, + um.] Same as ammonia *hematate.

nematum, næmatum (nem a-tum), n. [nemat, hæmal. + -um.] Same as ammonia *hematate. Lancet, July 4, 1903, p. 13.
hemamœba, n. See *Hæmamæba, 2.
hemangioma, hæmangioma (hem-an-ji-ō'-mā), n.; pl. hemangiomata, hæmangiomata (-ma-tā). [NL. hæmangioma, < Gr. alµa, blood, + NL. angioma] A tumor composed of blood-+ NL. angioma.] A tumor composed of bloodvessels: an angioma.

hemapophysis, n. 2. A lateral process in fishes to which the rib is usually attached. The term hemapophysis is used by Vogt and Yung for the bone so named by Owen and for the bone called parapophysis by Owen. Starks, Synonymy of the Fish Skeleton, p. 525.

hemarthrosis, hæmarthrosis (hem-är-thro'sis), n. [Gr. aiμa, blood, + aρθρον, joint, + -osis.] Effusion of blood into a joint. hemase, hæmase (hem'ās), n. [Gr. aiμa, blood, + -ase.] A catalase found in the blood.

hematachometry, hæmatachometry (hem/ata-kom'e-tri), n. [Prop. hemo-; \langle Gr. a μ a, blood, + $\tau a\chi v_{\varsigma}$, swift, + $\mu \epsilon \tau \rho o v$, measure.] Measurement of the rapidity of the circulation of the blood.

hemataërometer, hæmataërometer (hem/a-ta-e-rom'e-fer), n. [Gr. $a\mu a(\tau-)$, blood, + $a\eta\rho$, air, + $a\epsilon\tau\rho\sigma$, measure.] A device for

aup, any interpretation in the hold. Buck, Med. Handbook, VI. 950. hematate, hæmatate (hem'a-tāt), n. [Gr. $ai\mu a(\tau)$, blood, + $-ate^{1}$.] A compound of hematein. — Ammonia hematate, an unstable violet-black compound, $C_{16}H_{12}O_{62}NH_{3}$, of aumonia and hematein. It is used as a stain for microscopical preparations.

hematherapy, hæmatherapy (hem-a-ther'a-pi), n. Bad forms for *hematotherapy, hematicum, hæmaticum (hē-mat'i-kum), n. [NL. hæmaticum, < Gr. αἰματικός, of blood: see hematic.] A red-brown, clear, aqueous-alcoholie solution of nentral iron compounds. It is used m medicine.

hematid, hæmatid (hem 'a-tid), n. [Gr. $al\mu a(\tau-)$, blood, $+-id^2$.] A red blood-corpusele. hematimeter, hæmatimeter (hem-a-tim'eter), n. [Properly *hematometer, < Gr. alμa (αίματ-), blood, + μέτρον, measure.] A form of

hematimetry, hæmatimetry (hem-a-tim'etri), n. [Properly *hematometry: see *hema- hematoglobinuria,hæmatoglobinuria (hem*-timeter.] The process of counting the number $a-t\bar{0}-gl\bar{0}-bi-n\bar{u}'ri-\bar{a}$, n. [Gr. $a\mu a(\tau-)$, blood, +

timeter.] The process of counting the number of corpuscles in a given quantity of blood.

E. globin + Gr. o'pov, urine.] A more correct form of hemoglobinuria.

Hematinic, n. II. a. Relating to hematin.—
Hematinic acids, two acids, C₈H₉O₄N and C₈H₈O₅,
discovered by Küster, formed upon oxidation of hematin.

Hematoid cancer. Same as fungus hematodes.
hematokrit, n. See *hematohematokrit, hæmatokrit, n. See *hematon. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form
n. [Gr. a'μα(τ-), blood, + σκοπείν, view.] A form hæmatinone (Watts); ζ L. hæmatinon (se. vitrum, hematolin, hæmatolin (hem-a-tō'lin), n. A glass), ζ Gr. alμάτινον, neut. of alμάτα ος, bloody:
see hæmatinum and hematin.] Same as hæmatonomies of similar rod class rode kamatinum and hematin. See tinum; also, a similar red glass made by mod-ern processes. H. Watts, Diet. of Chem., III. 3. hematologist, hæmatologist (hem-a-tol'ō-hematite, n. 2. An intaglio cut in hematite. jist), n. [hematolog-y + -ist.] One who makes

There is in the British Museum a certain lenticular hematite.

A. B. Cook, in Jour. Hellenic Studies, XIV. 133.

Brown hematite. Under this name, or that of brown iron ore, are included both the mineralogical species limonite and goethite. Thorpe, Dict. Applied Chem.,

Bad hematobium, hæmatobium (hem-a-to'bi-um), n.; pl. hematobia, hæmatobia (-a). [NL. hæmatobium, \langle Gr. al μ a(τ -), blood, + β ios, life.] A blood-parasite; one of the Hæmatozoa.

reference to the formation of blood-corpuscles. hematocathartic, hæmatocathartic (hem-atō-ka-thär'tik), a. [Gr. aiμa(τ-), blood, + καθαρτικός, cathartic.] Tending to pnrify the

hematocele, n.—Pelvichematocele, effusion of blood into the cellular tissue beneath the peritoneal covering of the uterus and adnexa, or into the cavity of the peritoneum between the uterus and the rectum.—Pudendal hematocele. See pudendal.—Scrotal hematocele, a tumor caused by effusion of blood into the tunica vaginalis testis or into the tissues of the scrotum.

hematochezia, hæmatochezia (hem″a-tō-kē′-zi-ā), n. [NL. hēmatochezia, \langle Gr. $\ddot{a}i\mu a(\tau$ -), blood, $+\chi \ell \zeta e \nu$, evacuate the bowels.] Passage of blood from the bowels.

hematochlorin, hematochlorin (hem″a-tō-klō′-rin), n. [Gr. $ai\mu a(\tau)$ -, blood, $+\chi\lambda a\rho\delta c$, green, $+in^2$.] A green pigment which has been obtained from the marginal zone of the placenta

hematochromatosis, hæmatochromatosis (hem'a-tō-krō-ma-tō'sis), n. [Gr. $ai\mu a(\tau)$, blood, $+\chi\rho\bar{\omega}ua$, color, + osis.] The general staining of the tissues with blood-pigment.

hematochrome, hæmatochrome (hem'a-tōkrōm), n. [Gr. $ai\mu a(\tau)$, blood, $+\chi \rho \dot{\omega} \mu a$, cölor.]

1. The red coloring-matter of the eye-spot or stigma of the Flagellata and other Protozoa.— 2. The red coloring-matter of *Sphærella* and a few other algæ. It is contained in an oily solution instead of a chromatophore.

hematocrit, hæmatocrit (he-mat o-krit), n. [Gr. αἰμα(τ-), blood, + κριτής, judge, < κρίνευ, separate, decide.] A centrifuge with accugiven quantity of blood. Also hematokrit, hæmatokrit.

hematocyanin, hæmatocyanin (hem "a-tō-sī'a-nin), n. A more correct form of hemocyanin. hematocyst, hematocyst (hem'a-tō-sist), n. [Gr. $a\psi a(\tau)$, blood, $+\kappa \nu \sigma \tau \nu$, bladder (eyst).]

1. A cyst with bloody contents.—2. Hemorrhage into the bladder.

hematocyte, hæmatocyte (hem'a-tō-sīt), n. [Gr. $al\mu a(\tau$ -), blood, $+\kappa b\tau \sigma \varsigma$, a hollow (a cell).]

A blood-corpuscle.

A blood-corpusele.
hematocytometer, hæmatocytometer (hem-a tō-sī-tom'o-ter), n. [Gr. aiμa(τ-), blood, +
κύτος, a hollow (a cell), + μέτρον, measure.] A
device for counting the blood-cells.
hematodynamics, hæmatodynamics (hem'a-to-dī-nam'iks), n. [Gr. aiμa(τ-), blood, +
E. dynamics.] A more correct form of hemadynamics (which see).
hematodynamometer hæmatodynamomhematodynamometer, hæmatodynamom-

correct form of hemadynamometer (which see). hematodyscrasia, hæmatodyscrasia (hem*-a-tō-dis-krā'si-i), n. [NL. hæmatodyscrasia, 'Gr. alμα(τ-), blood, + δυσκρασία, bad temperament: see dyscrasia.] A disease of the blood. hematogen, hæmatogen (hem'a-tō-jen), n. [Gr. $ai\mu a(\tau)$ -, blood, + - $\gamma evig$, -producing, + - in^2 .] An iron-containing nuclein which may

be obtained from the yolk of heus' eggs. supposed to be concerned in the production of

hemochromometer, hemoglobinometer, or hem-atinometer.

hematogenous, a. 2. Relating to the forma-tion of blood; derived from blood.—Hemato-mematimetry, hæmatimetry (hem-a-tim'e-genous jaundice. See *jaundice.

a-tō-glō-bi-nū'ri-ä), n. [Gr. $a\mu a(\tau)$, blood, + E. globin + Gr. $ov\rho ov$, urine.] A more correct

a special study of the blood and of the changes which occur in it in bealth and in disease. Lancel, June 25, 1904, p. 1790.

hematolysis, hæmatolysis (hem-a-tol'i-sis), n. [Gr. $ai\mu a(\tau)$, blood, $+\lambda b\sigma c$, dissolution.] The breaking down or dissolution of the red blood-corpuseles with decreased coagulability of the blood; hemolysis.

hematolytic, hæmatolytic (hem/a-tō-lit'ik), a. Of or pertaining to hematolysis; hemolytic. hematomania (hem "a-tō-mā'ni-ä), n. [Gr. $al\mu a(\tau-)$, blood, $+ \mu avia$, madness.] A craze for shedding blood.

The mania for murder which seized the Parisjan popu-The mania for murder which seized the ranshan populace in 1793 was a true pathological ontoburst. No sense of patriotism thrilled the crowds who ran by the tumbrils and surrounded the guillotines. It was kematomania, the blood-madness, that was upon them.

Brinton, Basia of Social Relations, p.c11°.

hematomphalocele, hæmatomphalocele (hem-a-tom'fa-lō-sel), n. [Gr. $a\mu a$, blood, + $o\mu\phi a\lambda \delta c$, navel, + $\kappa\dot{\eta}\lambda\eta$, tumor.] A blood-filled sac projecting at the umbilical opening.

hematomyelia, hæmatomyelia (hem a-tō-mi-ō'li-ā), n. [Gr.aiμα(τ-), blood, + μνελός, mar-row.] Effusion of blood into the substance of the spinal cord.

hematomyelopore, hæmatomyelopore (hem#a-tō-mī'e-lō-pōr), n. [Gr. αἰμα, blood, + μνελός, marrow, + πόρος, passage.] A cavity in the substance of the spinal cord remaining after the absorption of a blood-elot.

hematonephrosis, hæmatonephrosis (hem/a-tō-ne-frō'sis), n. [Gr. $ai\mu a(\tau)$, blood, + $\nu \epsilon \phi \rho \phi c$, kidney, + -osis.] Hemorrhage into the pelvis of the kidney.

hematonic, hæmatonic (hem-a-ton'ik), a. and n. [Prop. hemo-; < Gr. aiμa, blood, + τόνος, tone, + -ic.] I. a. Tending to improve the quality of the blood.

II. n. A blood-tonic.

Iron and arsenic are invaluable hæmatonics.

Med. Rec., July 11, 1903, p. 56. hematopathology, hæmatopathology, hem "a-tō-pa-thol'ō-ji), n. [Gr. $ai\mu a(\tau)$, blood, + E. pathology.] The science of the diseases affect-

ing the constitution of the blood. rately graduated tubes, used for determining hematophagous, hæmatophagous (hem-a-the volume of the corpuscular elements in a tor a-gus), a. [Gr. $ai\mu a(\tau)$, blood, + $\phi a\gamma e\bar{i}\nu$, eaf.] Feeding on blood-corpuscles: said of the plasmodium of malaria and kindred diseases. -2. Feeding upon blood, as do some insects and the bats of the genus Desmodus.

hematophilic, hæmatophilic (hem a-tō-fil'-ik), a. [Gr. aiμa(τ-), blood, + φίλος, loving, + -ic.] Same as hemophilic.

hematophyte, hæmatophyte (hem'a-tō-fit), n. [Gr. $ai\mu a(r-)$, blood, $+\phi vr \phi v$, plant.] A bacterial parasite in the blood.

hematoplania, hæmatoplania (hem "a-tō-plā'ni-ā), n. [Gr. a'μa(τ-), blood, + πλάνη, wandering.] Discharge of blood from some unusual locality, as in vicarious menstruation.

hematoplast, hæmatoplast (hem'a-tō-plast), n. [Gr. $ai\mu a(\tau-)$, blood, $+\pi\lambda a\sigma \tau \delta c$, formed.] Same as hematoblast.

hematoplastic, hæmatoplastic (hem 'a-tō-plas'tik), a. [hematoplast + -ic.] Same as plas'tik), a. [*hematoblastic.

eter (hem"a-tō-dī-na-mom'e-ter), n. [Gr. hematoporphyrin, hæmatoporphyrin (hem"- $a \mu a(\tau-)$, blood, + E. dynamometer.] A more a-tō-pôr'fi-rin), n. [Gr. $a \mu a(\tau-)$, blood, + $\pi o \rho \phi i$ a-tō-pōr fi-rin), n. [Gr. $ai\mu a(\tau_{-})$, blood, $+\pi o\rho\phi i$. ρa , purple dye, $+-in^{2}$.] A purplish pigment obtained by treating hematin with concentrated sulphuricaeid saturated with hydrobromicaeid. the iron of the hematin being split off as the result. Hematoporphyrin is thus hematin minus iron. The substance is apparently related closely to a corresponding pigment which is derived from the chlorophyl of plants and which is termed phylloporphyrin. Both are possibly different oxidation-products of one and the same mother-substance—a chemical evidence of the close genetic relationship between animal and plant life.

hematoporphyrinuria, hematoporphyrinuria (hem/o.to.rawfinini/viiš) us themytoporphyrinuria (hem/o.to.rawfinini/viiš) us themytopor

nematoporphyrinuria, næmatoporphyrinuria (hem"a-tō-pôr'fi-ri-nū'ri-ā), n. [hematoporphyrin + Ġr. oʻpov, urine.] The presence of hematoporphyrin in the urine when voided. Lancel, April 18, 1903, p. 1097. hematoporphyroidin, hæmatoporphyroidin (hem"a-tō-pôr-fi-rō'i-din), n. A decomposition-product of hematoporphyrin, described by

of spectroscope used in examining the spectrum of the blood.

hematoscopy, hæmatoscopy (hem-a-tos'kō-pi), n. [Gr. εἰμα(τ-), blood, + -σκοπία, ζ σκοπεῖν, view.] Examination of the blood by means of the hematospectroscope. Also hemoscopy.

hematospectroscope, hæmatospectroscope (hem'a-tō-spek'trō-skōp), n. [Gr. aiμα(τ-), blood, + E. spectroscope.] A spectroscope used to determine the presence and amount of hemoglobin in the blood.

hematotherapy, hæmatotherapy (hem/a-tō-ther'a-pi), n. [Gr. aiμa(τ-), blood, + θεραπεία, medical treatment.] Treatment of disease by

blood or some preparation from it. hematotoxic, hæmatotoxic (hem/a-tō-tok'sik), a. [Gr. $ai\mu a(\tau-)$, blood, $+\tau a\xi\iota\kappa(\delta\nu)$, poison.] 1. Relating to toxemia; causing blood-poisoning.—2. Same as *hematolytic.

hematotympanum, hæmatotympanum hematotympanum, hematotympanum, hematotympanum, hematotympanum, n. [Gr. αιμα(τ-), blood, + τύμπανον, drum: see tympanum.] An effusion of blood into the drum of the ear. Phil. Med. Jour., Jan. 31, 1903, p. 200.

hematoxic, hæmatoxic (hem-a-tok'sik), a. Same as *hematotoxic.

hematozoön, hæmatozoön (hem "a-tō-zō'on), n.; pl. hematozoa, hæmatozoa (-ä). [Gr. αἰμα(τ-), blood, + ζῷον, animal.] A blood-parasite, as the organism of malaria; a hematozoan.

hematuresis, hæmaturesis (hem a-tū-rē'sis) n. [Gr. aiμa(τ-), blood, + αὐρησις, urination.]

Same as hematuria.

Same as hematuria.
hemautogram, hæmautogram (hem-â'tō-gram), n. [Gr. aiμa, blood, + aυτός, self, + γράμμα, writing.] Same as *hemautograph.
hemautograph, hæmautograph (hem-â'tō-grāt), n. [Gr. aiμa, blood, + aὐτός, self, + γράφειν, write.] A tracing made by blood spurting from a punctured artery, used to register the blood-pressure.
hemautographic, hæmautographic (hem'â-tō-grat'ik), a. Of or pertaining to hemautography or the hemautograph; traced by the

hemantograph: as, a hemantographic pulse

curve

hemautography, hæmautography (hem-â-tog'ra-fi), n. [As hemautograph + -y³.] A method of recording variations in blood-pressure, by which an incision is made into an artery and the escaping jet of blood is directed

hemeralope (hem'e-ra-lop), n. [A back-formation from hemeralopia.] One who is suffermation from hemeralopia. Buck, Med. Handbook, IV. 627.

Hemianthias (hem-i-an'thi-as), n. [NL., < Gr.

hemeralopic, a. II. n. A hemeralope.

After the capture of Sebastopol the number of hemeralopics was so great in the French army that certain regiments could not furnish the necessary number of men to mount guard.

Buck, Med. Handbook, II. 620.

hemeranthous (hem-e-ran'thus), a. [Gr. hutpa, day, + avotiv, bloom, +-ons. [In bot.:

(a) Opening only in sunlight: said of flowers.

(b) Bearing hemeranthous flowers: said of plants. Pound and Clements.

hemeranthy (hem-e-ran'thi), n. [Gr. ἡμέρα, day, + ἀνθείν, bloom, + -y³.] In bot., the character of being hemeranthous. hemeristiid (hem-e-ris'ti-id), n. and a. I. n. One of the Hemeristiidæ.

n. One of the Hemerisians.
II. a. Having the characters of, or pertain-

ing to, the Hemeristiidæ.

hemerobaptism (hem'e-rō-bap'tizm), n. [NL. hemerobaptista, < Gr. ήμέρα, day, + βαπτιστής, baptist.] Daily baptism practised by certain Daptist.] Daily baptism practised by certain Jewish and Christian sects. The Essenes (which see) practised daily baptism. The plous among the modern Hasidim still practise dally immersion before morning prayers, so as to pronounce the name of Jehovah in a state of purity. Some of the earlier Christians, including the Ebionites, adopted the same practice.

hemerobiid (hem*e-rō-bī'rid), n. and a. I. n.

A member of the neuropterous family Hemero-bidæ.

II. a. Of or belonging to the family Heme-

robiidæ.

hemerology (hem-e-rol'ō-ji), n. [Gr. as if "ήμερολογία (ήμερολογίαν, a calendar), ζήμερολογία (-aspid-) + -oid.] Similar λογείν, eount by days, ζήμέρα, day, + λόγας, a count.] The knowledge of calendars; the art of making calendars; a treatise on calendars.

No hottor idea can be formed of the number and variety

**The country idea can be formed of the number and variety days of the family specific country idea can be formed of the number and variety.

No better idea can be formed of the number and variety of the Babylonian feasts than by reading a hemerology of the Babylonian feasts than by reading a hemerology of the Intercalary month of Elni, where we find that every day is dedicated to one or other of the gods, and certain rites and ceremonies prescribed for each.

S.—37

A. H. Sayce, Anc. Babylonians, p. 69.

Si-ä), n. [NL., ⟨ Gr. ήμι-, half, + ἀταξία, dis-

of domesticated animals.

hemerythrin, hæmerythrin (hem-e-rith'rin), n. [Gr. $ai\mu a$, blood, + $\epsilon\rho\nu\theta\rho\delta\varsigma$, red, + $-in^2$.] A red coloring-matter found in the corpuscles of the fluid in the body-cavity of gephyreans, probably having a respiratory function like the hemoglobin of other animals. Also hemæry-

hemiachromatopsia (hem "i-a-krō-ma-top" si-ši, n. [Gr. $\dot{\eta}\mu c$, half, $+ \chi \rho \ddot{\rho} \mu a(\tau)$, color, $+ \dot{\nu} \psi c$, view.] Partial or complete color-blindness involving one half of the field of vision. Encyc. Brit., XXXI. 569.

hemialbumin (hem'i-al-bū'min), n. [hemi-+albumin.] A hypothetical albuminous substance containing only the hemicomplex Kühne, namely, that complex which is readily digested by trypsin and is ultimately converted into leucin and tyrosin and related acids.

hemiamaurosis (hem'i-am-a-rō'sis), n. [NL., ⟨ Gr. ἡμι-, half, + ἀμαίρωσις, dimness (see amaurosis).] Hemianopsia.

hemiamblyopia (hem'i-am-bli-ō'pi-a), n. [NL., \langle Gr. $\dot{\eta}\mu$ -, half, + $\dot{\alpha}\mu\dot{\beta}\lambda\dot{\gamma}$, dim, + $\dot{\omega}\psi(\dot{\omega}\pi$ -), eye. Defective sight in one half of the visual field; incomplete hemianopsia.

Thus if the left occipital region be injured in a man, a hemianopia of the left sides of both retime follows, and the patient sees nothing in the right half of his visual field. If the same operation be performed in a dog, it causes not a complete hemianopia but a hemiamblyopia. The dog is not blind for the right half of its visual field, but has only a reduced power of vision.

J. Loeb, Comp. Physiol. of the Brain, p. 271.

tography or the hemautograph; traced by the hemianatropous (hem-i-a-nat'rō-pus), a. Half-

memanatopous (nem-i-a-nat ro-pus), α. Han-anatropous. See amphitropous. Gray. **Hemiancistrus** (hem*i-an-sis'trus), n. [Nl., ⟨Gr. ἡμι-, half, + ἀγκιστρον, a hook.] A genus of South American fresh-water fishes of the

family Loricariidæ.

hemiangiocarpic (hem/i-an/ji-ō-kär/pik), α.

[Gr. ημ-, half, + αγγεῖον, a vessel, + καρπός, fruit.] Having the hymenium covered with

hemianoptic.

Hemianthias (hem-i-an'thi-as), n. [NL., $\langle Gr.$] $\eta \mu -$, half, + $\dot{\alpha} v \theta c c$, flower.] A genus of tropical fishes, of the family Serranidæ, related to the sea-bass.

Hemiascales (hem"i-as-kā'lēz), n. pl. [NL., \langle Gr. $\dot{\eta}\mu$ -, half, + $a\sigma\kappa\dot{o}c$, a bag (see ascus, 1), + -ales.] An order containing what are regarded -ales. An order containing what are regarded as the lowest forms of ascomycetous fungi. They produce a many-celled mycelium and bear sporangia (asci) which contain a large and indefinite number of spores. Also called Hemiascineæ and Hemiasci.

Hemiasci (hem-i-as'sī), n. pl. [NL., $\langle Gr. \eta \mu \iota$, half, $+ a \sigma \kappa \delta \varsigma$, a bag (see ascus, 1).] Same as *Hemiascales.

Hemiascineæ (hem "i-a-sin'ē-ē),n. pl.[NL.] Same as *Hemiascales.

hemiaspidid (hem-i-as'pi-did), n. One of the Hemiaspididæ.

Hemiaspididæ (hem"i-aspid'i-dē), n. pl. [NL., < Hemiaspis(-aspid-)+-idæ.] A family of fossil merosto-matous erustaceans of primitive character, typi-fied by *Hemiaspis*, which has a short eephalothorax, nine thoracic segments and a long tail-spine. All members of the family are from the Silurian rocks.

hemiaspidoid (hem-i-as'-

hematosepsis, hæmatosepsis (hem a-tō-sep'- hemerozoic (hem-e-rō-zō'ik), a. [Also erronesis), n. [Gr. al $\mu a(\tau-)$, blood, + $\sigma \bar{\eta} \psi \iota c$, putrefaetion.] Same as septicemia. (animal, + -ic.] In geol., noting a division of ously himerosoie; ζ Gr. $\hat{\eta}_{\mu}$ e ρ_{0} , tame, $+\zeta_{\phi}$ ov, the body. animal, +-ic.] In geol., noting a division of hemiataxy (hem'i-a-tak'si), n. Same as *hemithe Human period characterized by evidence

order] Incoördination affecting one side of the body.

Hemibasidiales (hem"i-ba-sid-i-ā'lēz), n. pl. [NL., < hemi- + basidium (which see) + -ales.] Same as *Ustilaginales. Also Hemibasidii and Hemibasidieæ.

hemibenthic (hem-i-ben'thik), a. [hemi-+ benthie.] Incompletely benthie; floating or swimming in the water at one time or at one stage of development and living upon or in the bottom at another time or stage. Most hydroids, which are sessile and give rise to swimming medusæ, and most echinoderms, which swim in their larval condition and creep over the bottom when adult, are hemibenthic. Also hemibenthonic. See *benthic, pelagic, *planktonic.

In the peritic epiplankton of polar waters the larvæ of hemibenthic forms are almost absent; indeed, the development of cold-water benthos, whether shallow or abyssal, appears to be in most cases direct, that is, without a larval metamorphosis.

Encyc. Brit., XXXIII. 936.

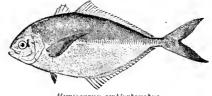
hemibenthonic (hem-i-ben-thon'ik), a. Same

hemialgia (hem-i-al'ji-ä), n. [NL., (Gr. ήμι-, half, + ἀλγος, pain.] Neuralgia involving only one side of the head or body.

Neuralgia involving only hemibody (hem'i-bod-i), n. [hemi- + body.] An albumin which is made up of hemigroups, in the sense of Kühne—for example, easein. in the sense of Kühne-for example, casein. See *hemigroup.

Hemibrycon (hem-i-brī'kon), n. [NL., (Gr. ήμ-, half, + NL. Brycon.] A genus of South American fresh-water fishes of the family Characinidæ.

Hemicaranx (hem-i-kar'anks), n. [NL., < Gr. ήμι-, half, + NL. Caranx.] A genus of pom-



(From Bulletin 47, U. S. Nat. Museum.)

panos, or fishes of the family Carangidæ. H.

artery and the escaping jet of blood is directed against a moving strip of paper.

hemera (hem'e-rā), n.; pl. hemeræ (-rē). [Gr. ημέρα, a day.] In geol., a subdivision of a zone corresponding to the vertical distribution of characteristic species. Dana, Manual of Geol., p. 407.

hemeralope (hem'e-ra-lōp), n. [A back-formation from hemeralopia.] One who is suffering from hemeralopia. Buck, Med. Handbook, IV. 627.

Lor., μμέρα, a vessei, τ καρπος, a membrane or ne part of the time: said of the conidiophore of a fungus.

hemianopia (hem'i-a-nō'pi-ā), n. [NL., ⟨ Gr. ημε, half, + ἀν- priv. + ἀψ (ἀπ-), eye.] Same as hemianopsia. J. Loeb, Comp Physiol. of the Brain, p. 271.

hemianopic (hem'i-a-nō'pik), α. Same as hemianoptic.

hemianopic.

Lor., μμέρα, α vessei, τ καρπος, a membrane or ne nence ot the tamily Carangaæ. H. amblyrhynchus is the best-known species.

hemicellulose (hem-i-sel'ū-lōs), n. [hemi-+ cellulose,] A form of cellulose which is easily hydrolyzed by dilute acids and readily attacked by certain enzyms.

hemianopic (hem'i-a-nō'pik), α. Same as hemicephalous (hem-i-sef'a-lus), α. [Gr. ημε-, half, τκφαλή, head, τ-ous.] Lacking one side of the head: as, a hemicephalous fetus. Buck, Med. Handbook, 1.129.

Hemianthias (hem-i-an'thi-as), n. [NL., ⟨ Gr. Hemichorda (hem-i-kor'dā), n. pl. [NL. ⟨ Gr. Hemichorda (hemichorda (hemicho

lated to the Chordata, owing to their possession of gill-slits, a partly dorsal nervous system, and a rudimentary notochord. It includes the genera Balanoglossus, Cephalodiscus, and Rhabdopleura. The name was introduced in 1884, by Bateson, as a physician produced in 1884, by Bateson, as a physician containing only the genus Balanoglossus.

Hemicidaridæ (hem'i-si-dar'i-dē), n. pl. [NL., < Hemicidaris (-arid-) + -idæ.] A family of fossil sea-urchins, or Echinoidea, having very large spine-tubercles decreasing in size toward the poles, ambulacra increasing in width actinally, and few interambulacral plates. Its species occur in the Permian, Jurassic, and retaceous rocks.

Cretaceous rocks.

Hemicidaris (hem-i-sid'a-ris), n. [NL., ⟨Gr. ημ-, half, + NL. Cidaris, a genus of sea-ur-ehins.] The typical genus of the Hemicidaridæ.

hemiclastic (hem-i-klas'tik), a. [Gr. ημ-, half, + κλαστός, broken.] Half elastic: in petrog., applied by Senft to volcanic tuffs and conglomerates.

hemiclistogamous (hem"i-klīs-tog'a-mus), a. [hemi-+ clislogamous.] Opening only partially, hence not easily cross-fertilized: said of flowers. Hemiclistogamous flowers are either chasmantherous or elistantherous. Pound and Clements, Plant Life of Nebraska.

hemicollin (hem-i-kol'in), n. [Gr. ημι-, half, + κόλλα, glue, +-in².] A vitreous compound, C₄₇II₇₀O₁₉N₁₄, formed, together with semiglutin, by boiling glue for thirty hours with

water. hemicomplex (hem-i-kom'pleks), n. Same as *hemigroup (in the sense of Kühne).

hemicrescentic (hem/i-kre-sen'tik), a. Having the shape of half a crescent: applied to the form of the bill in some birds.

hemicyclone (hem-i-si'klon), n. [hemi-+eyclone.] In meteor., the upper or lower half of the ideal theoretical eyelonic system, the dividiug plane being supposed to be horizontal.

hemidiorite (hem-i-di'ō-rit), n. [Gr. \$\psi uu\$-, half, + E. \$\diorite\$.] A name given by Dana (1883) to mica-diorite in order to limit the name diorite to hornblendie varieties of the rock.

hemiepiphyte (hem-i-ep'i-fīt), n. See *cpi-

hemifacial (hem-i-fā/shal), a. [hemi- + L. facies, face, +-ull.] Of or relating to one side of the face.

hemiglossitis (hem"i-glo-sī'tis), n. [NL., Gr. ήμι-, half, + γλώσσα, tengue, + -itis.] Ir mation of one lateral half of the tongue. Inflam-

mation of one lateral half of the tongue.

hemigroup (hem'i-gröp), n. [hemi-youp.]
Literally, a half-group. The terms hemigroup and antigroup, in reference to the constitution of albumins, were originally introduced by Kühne. According to his dectrine, two large complexes exist in most albumins, which are separated during the process of digestion. Of these the hemicomplex is quite resistant. In the former the monoamido acids prevail, in the latter the diamido acids. Protoalbumose may be regarded as representing the hemigroup, and heteroalbumose the antigroup. Collagen apparently contains no hemigroup, while casein is a pure hemibody. Kühne's original view is still upheld, but it is now recognized that the majority of sibumins contain a third large complex, in which the carbohydrate group is represented.

[hemimorphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic. Nature, Sept. 24, 1903, p. 520.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic. Nature, Sept. 24, 1903, p. 520.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic. Nature, Sept. 24, 1903, p. 520.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic. Nature, Sept. 24, 1903, p. 520.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of crystals. See *symmetry.

Hemimorphous (hem-i-môr'fus), a. [Gr. ήμι-morphic classes of represented

hemihedral, a. 3. In the relation of so-ealled hemihedral erystals to erystal symmetry, see

*symmetry.

hemiheterocercal (hem-i-het'e-rō-ser"kal), a. [hemi-+heterocercal.] In fishes, having the upper lobe of the externally symmetrical caudal fin partly or completely covered with scales.

hemiheterocercy (hem-i-het'e-rō-ser"si), n. [hemi- + heterocercy.] A condition denoted by the existence of a hemiheterocercal tail, as in

fishes

rate (hem-i-hī'drāt), n. [hemi- + hy-ln ehem., a compound containing hemihydrate (hem-i-hī'drāt), n. water in the proportion of half a molecule for one molecule of another substance, as a salt. Thus calcium sulphate as thrown down in the crystalline state from the water in steam-boilers has the composition CaSO4,3H₂O—more correctly represented as (CaSO4)₂. H₂O—and is spoken of as a hemihydrate.

hemihyperæsthesia (hem'i-hi"për-es-thë'si-ä), n. [hemi- + hyperæsthesia.] Increased sensitiveness limited to one side of the body.

hemihypertrophy (hem "i-hi-për'trō-fi), n. [hemi- + hypertrophy.] Hypertrophy of one half: as, facial hemihypertrophy.

hemi-idealism (hem"i-i-dē'a-lizm), n. The doctrine that secondary qualities are relative water in the proportion of half a molecule for

doetrine that secondary qualities are relative to cognition, while primary qualities are independent of it.

Hemilepidotinæ (hem"i-lep"i-dō-tī'nē), n. pl. [NL., \(\text{Hemilepidotus} + -inæ. \] A subfamily of sculpins, or \(\text{Cotidæ}, \) typified by the genus Hemilepidotus.

Hemilepidotus (hem-i-lep-i-de'tus), n. [NL. \langle Gr. $\dot{\eta}\mu\iota$, half, + $\lambda\epsilon\pi\iota\delta\omega\tau\delta\varsigma$, sealed, sealy, \langle $\lambda\epsilon\pi\iota\varsigma$, seale.] A genns of seulpins of the North Pacific, characterized by the presence of two



Hemilepidotus hemilepidotus. (From Bulletin 47, U. S. Nat. Museum.)

rows of scales along the side separated by a naked area. The species are known in Bering Sea as Irish lords. II. kemilepidotus and II. jordani are both common. The former is distinguished by its spotted ventral fins.

hemilogous (he-mil'o-gus), a. [hemi-+ (ana)-

nemilogous (ne-init'o-gus), a. [hemi-+ (ana)-logous.] In chem., a term which has been suggested for series of organic compounds the terms of which differ by nCH.

hemilytic (hem-i-lit'ik), a. [hemi-+ (dia)-lytic.] Noting a stage or condition in which evolutionary progress is retarded by inbreeding and close selection which climinates the ing and elose selection which eliminates the normal individual diversity of the natural species, as in earefully selected domesticated varieties. Compare *catalytic, 2, *dialytic, 4, and *prostholytic. O. F. Cook.

hemicrystalline (hem-i-kris'ta-lin), a. [Gr. hemimellitic (hem"i-me-lit'ik), a. [hemi- + hemipic (he-mip'ik), a. [hemi- + (o)p(ium)(?) / α-, half, + κριστάλλανος, crystalline.] Same as mellitic.] Noting an acid, a colorless com- + -ic.] Same as memipinic. pound, $C_6H_3(COOII)_3$, sparingly soluble in water, from which it is deposited in needles, melting at 185° C.

hemimerid (he-mim'e-rid), n. and a. I. n. A member of the family Hemimeridæ.

II. a. Of or belonging to the family Hemimeridæ.

hemimetabolous (hem "i-me-tab' ō-lus), a.

salt and glacial acetic acid. Its formula is C_{34} II₃₃N₄O₄FeCl. The crystals are quite characteristic in appearance, and their formation has for many years represented one of the most important tests for blood-coloring matter. See *Teichmann's *crystals.*—**Hemin test**. See *test1.

hemioctahedral (hem-i-ok-ta-he'dral), a. [hemioctahedr(on) + -all.] Tetrahedral; of or pertaining to a hemioetahedron.

hemioctahedron (hem-i-ok-ta-hē'dron), n. [hemi-+ octahedron.] A tetrahedron; also, a hemipyramid.

hemiologamous (hem"i-ō-log'a-mus), a. [Gr. ημι-, half, + δλ ε, whole, + γάμος, marriage.] Having one fertile and one neuter flower; sesquialteral: said of the spikelets of some grasses, as species of Panicum. Brande.

hemiope (hem'i-ōp), n. [Gr. ἡμίοπος (se. ἀνλός, flute), with half the usual holes, namely, with only three holes, ⟨ἡμι-, half, + ὁπή, hole.] An ancient flute with but few holes.

Hemiptera er Hemipteroidea.

II. n. One of the Hemipteroidea.

Hemipteroidea (hē-mip-te-roi'dē-ā), n. pl. [NL., ⟨ Hemiptera + -oidea.] In Scudder's an order of the Paleozole inserts an order

hemiparabola (hem"i-pa-rab'ō-lä), n. [hemi-+ parabola.] That part of a parabola which lies on one side of the axis.

hemiparæsthesia (hemi-par-es-thē'si-ā), n. [hemi- + paræsthesia.] Perverted sensation on one side of the body, right or left.
hemiparalysis (hem#i-pa-ral'i-sis), n. [hemi- + paralysis.] Same as hemiplegia.

hemiparasite (hem-i-par'a-sit), n. [hemi- +

parasite.] A partially parasitie plant. Like hemisaprophytes, hemiparasites, which obtain only a portion of their necessary carbon in an organic form, more or less resemble autotrophic plants as regards the amount of chlorophyll they contain and as regards the form of their leaves.

the form of their leaves.

A. F. W. Schimper (trans.), Plant-Geog., p. 203. hemiparasitic (hem"i-par-a-sit'ik), a. Pertaining to or having the character of a hemipara-

The degree of connexion between the two and the dependence of the parsite upon the host vary between the completeness of that of holoparasitic Rhizanths, in which little more than the flower of the parasite is visible upon the outside of the stem of the host and the parasitism is absolute, and the limitation of that of the hemiparasitic Rhinantheæ, in which to all appearance there is an independent autotrophic geophyte. Encyc. Brit., XXV. 439,

hemipelic (hem-i-pel'ik), a. [Gr. ημι-, half, + πηλός, elay, + -ic.] Of a medium fine elayey eonsistency. See *pelogenous.
hemipenis (hem-i-pe'nis), n.; pl. hemipenes (-nez). [NL., hemi-+ penis.] One of the two introductions.

intromittent organs of snakes.

Like the Sauria the Serpentes possess two intromittent organs or hemipenes.
Cope, Rept. U. S. Nat. Mns., 1898, p. 700.

hemipeptone (hem-i-pep'ton), n. [hemi- + peptone.] A hypothetical peptone containing those groups of the albuminous molecule which can be readily liberated on tryptic diwhich can be readily liberated on tryptic digestion. According to Kühne's doctrine, gastric digestion leads to the formation of an amphopentone in which the hemipeptone and antipeptone are still united. During tryptic digestion the hemi- and anti-group are at once separated, the former giving rise to leucin and tyrosin, etc. hemiphonon (hem-i-fo'non), n:; pl. hemi-phona (-mā). [NL., < Gr. ἡμίφωνον, a semi-vowel, as r and s (Aristotle), neut. of ἡμίφωνος, 'half pronounced,' < ἡμι-, half, + φωνή, sound.] In phonal. a semivowel.

In phonol., a semivowel.

+ -ic.] Same as *hemipinic. hemipinic (hem-i-pin'ik), a. [hemi-+(o)-p(ium) + -in + -ic.] Noting an acid, a col-

orless compound, $(CH_3^4O)_2C_6H_2(COOH)_2$, formed, together with opianic acid and meconin, by the oxidation of narcetin and narceine. It erystallizes with water of erystallization in quadratic plates, melts at 182° C., and readily

Hemimerus i state, and comprising the single genus Hemimerus. The development is intra-uterine. H. hansen lives on the body of a large rat. A distinct order, Diploglossata, was erected by Saussure for these insects, but has not been accepted.

hemimetabolous (hem "i-me-tab' \(\bar{\rho}\)-lus), a. [hemi-+ metabolous.] Undergoing partial metamorphosis, as one of the Hemimetabola.

Likemi-+ metabolous, See *sym
That part of the plane.

hemiplankton (hem-i-plangk'ton), n. [Gr. \(\frac{\psi_u}{\psi_u}\), half, + NL. plankton.] In phytogeog., that part of a plant plankton which occurs in shallow water and sinks to the bottom at certain periods, and is thus not wholly independent of the soil, as the typical plankton is. Some macrophytes (Hydrocharis, etc.) are included with the microphytes.

hemiplanktonic (hem-i-plangk-ton'ik), a. Of

or pertaining to hemiplankton. hemiplegia, n.—Alternate hemiplegia, paralysis of the face on one side and of the extremities on the other, or of an arm and a leg on opposite sides.—Crossed hemiplegia, Same as alternate *hemiplegia.—Hephestic hemiplegia. Same as hammer.**palsy.—Spinal hemiplegia, hemiparaplegia due to lesion of the spinal cord.

hemiplegiac (hem-i-plē'ji-ak), a. and n. I. a. Same as hemiplegic.

II. n. One who is suffering from hemiplegia. 11. n. One who is suffering from hemiplegia. Hemipristis (hem-i-pris'tis), n. [NL., $\langle Gr. \dot{\eta}\mu_{t-}, \text{half}, + \pi\rho i\sigma\tau\iota c$, a large fish.] A genus of selaehian fishes or sharks of the family Carchariidæ. They have the principal teeth large and serrated, and the lower ones slender, incurved, and smooth on the edge. The genus is common in the Diocene and Oligocene Tertiary, and is represented by one living species.

hemiprotein (hem-i-pro'tē-in), n. [hemi-protein.] Same as *hemialbumin.

protein.] Same as *nemtatoumin.
hemipsammic (hem-ip-sam'ik), a. [Gr. ήμι-, half, + ψαμμός, sand, + -ic.] Of a medium fine sandy texture. See *psammogenous.
hemipteroid (hē-mip'te-roid), a. and n. [Hemiptera + -oid.] I. a. Having the characters of the Hemiptera er Hemipteroidea.

II n. One of the Hemipteroidea

classification of the Paleozoic insects, an order constructed on the same plan as the living Hemiptera, but distinguished in name because

of their more primitive expression. hemipterygoid (hem-ip-ter'i-goid), n. A small bone resting upon and fusing with the pos-teroventral part of the palatine, with which the pterygoid articulates.

Hemipuccinia (hem'i-puk-sin'i-ä), n. [NL., \(hemi-+Puccinia \)] A group of species of the genus Puccinia in which only uredospores and teleutospores are known. Schröter.

Hemiramphidæ (hem-i-ram'fi-dē), n. pl. [NL., ⟨ Hemiramphus + -idæ.] A family of soft-rayed fishes characterized by the great elongation of the lower jaw, the upper jaw being



Hemiramphus brasiliensis. From Bulletin 47. U. S. Nat. Museum.)

very short. The species are known as half-beaks and are found in the tropical seas. The typical genus is Hemiramphus.

hemisaprophyte (hem-i-sap'ro-fit), n. hemisaprophyte (hem-i-sap'ro-itt), n. [nem-+saprophyte.] A partially saprophytic plant. See the quotation under *hemiparasite and compare *holoparasite.
hemisomnambulism (hem'i-som-nam'būlizm), n. In mental pathol., a partial somnambulism; a state in which the subject, while

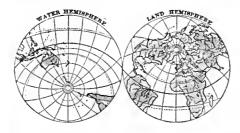
normally conscious and retaining his normal personality, shows certain somnambulistie symptoms (as writing automatically).

As to the persistency of the normal consciousness, while these automatic phenomena are being accomplished, it is the most curious and most discussed characteristic of hemisomnambulism.

P. Janet (trans.), Mental State of Hystericals, p. 428.

hemisphere, n.— Biot's hemispheres, an apparatus used to demonstrate that a charge of static electricity is distributed on the surface. It consists of a polished brass globe on an insulated stand, and of two holow hemispheres of lacquered brass with insulating handles. If the globe is charged and is then incessed hy the hemispheres, the latter on being removed take the charge with them on their outer surfaces.— Hemisphere

of illumination, that half of a planet's or satellite's surface upon which the sun is shiming.—Hemisphere of vision, the hemisphere which an observer sees.—Land hemisphere, in phys. geog., that half of the earth's sur-



face which is chosen so as to include the greatest possible area of land. The pole of the land hemisphere lies in sontheastern England or northwestern France.—Vege-tative hemisphere, that half or portion of the egg which contains the food-yolk, as distinguished from the animal hemisphere, which consists of the more active protoplasm and nuclear elements.—Water hemisphere, that half of the earth's surface which contains the greatest area of water.

Hemispheric anomaly, the departure of a local temperature from the corresponding hemispheric normal for the given latitude: the anomaly of Dove (1846).

hemistater (hem-i-stā'ter), n. [Gr. ημιστάτηρον $\langle \eta \mu \nu$, half, $+ \sigma \tau a r i \rho$, stater.] An ancient Greek coin of the value of half a stater.

hemisternum (hem-i-ster'num), n.; pl. hemisterna (-na). One of the two bars of eartilage from which the sternum is developed.

hemisymmetric (hem'si-si-met'rik), a. [hemisymmetric.] 1. Symmetrical with regard to one axis only, as the parabola in contradistinction to the ellipse and hyperbola.—2. distinction to the empse and \mathbb{Z}_{p}^{-1} . Pertaining to or exhibiting hemisymmetry. See *hemisymmetry, 2. Bateson, Study of Variation, p. 35.—3. In crystal, hemihedral; characterized by hemisymmetry, that is, by a grade of symmetry which requires only half the faces that belong to the corresponding the faces that belong to the corresponding the hemochromometer, hemochromometer themochromometer, hemochromometer, hemochromom

hemisymmetrical, a. Same as hemisymmetric. hemisymmetry, n. 2. In biol., bilateral symmetry; the construction of the body of an metry; the construction of the body of an decision of the decision of the body of an decision of the decision of

reversed copy of the other.

hemisystematic (hem "i-sis-te-mat'ik), a.

Hemisymmetric.

hemitery (hem'i-ter-i), n. [Gr. ήμι-, half, + rέρας, monster, +-y³.] Congenital malformation which is not sufficient in degree to amount to monstrosity.

Hemitamae (hemitamae (hemitamae))

vessels.

[The blood-vessels have swollen and united to form an extensive series of blood-sinuses, to which I have given the name "hemocal."

En. Lankester, Nat. Sci., April, 1897, p. 268.

hemocalic, hæmocalic (hemitamae) (hemitamae)

[hemocale + -ic.] Of or pertaining to a hemocale.

Hemitomes (he-mit'ō-mēz), n. [NL. (Grav. 1857), ζ Gr. ήμιτόμης, a half-eunuch (in allusion to the atrophy of one of the anther cells); or a mistaken form for *Hemitomias, ζ Gr. ήμιτομίας, half a eunuch. Cf. ημίτομος, half cut through, ζήμι-, half, + -τομος, ζ ταμείν, cut.] A genus of dicotyledonous plants belonging to the fam- hemocœloma, hæmocœloma (hem "ō-sē-lō'-

of decrytedonous plants belonging to the lamily Monotropaces. See Newberrya.

Hemitripterinæ (hem"i-trip-te-ri'nē), n. pl.

[NL., < Hemitripterus + -ins.] A subfamily of gadoid fishes characterized by the manyrayed spinous dorsal fin, which is developed into two fine and by the rough surface of the into two fins, and by the rough surface of the

body. The typical genus is Hemitripterus. hemitropism (hē-mit'rē-pizm), n. [hemitrop-ic + -ism.] The crystallization characteristic of ordinary twin crystals, in which one half of the compound crystal has a position relatively to the other half as if it had been revolved through 180°. Also hemitropy.

through 180°. Also hemitropy. **Hemitrypa** (hem-i-tri'pā), n. [NL., ⟨Gr. ημι-, half, + τρῦπα, a hole.] A genus of fossil Bryozoa, of the family Fenestellidæ. It differs from Fenestella in having a reticulate superstructure corresponding in position with the apertures of the mesh on the lower side. This structure rests on pillars which rise at regular intervals from the carinæ of the branches. The genus occurs in Silurian and Devonian rocks. hemivertehra (hem-i-ver'tē-bri), n.: pl. hemi-

hemivertebra (hem-i-ver'tē-brā), n.; pl. hemivertebræ (-brë). [hemi-+ vertebræ.] One of the vertebræ, in fishes, in which ossification develops below the notochord a hippoerepian plate to which the hemal arches in the caudal pract to which the hemai arches in the caddal region are attached. The vertebral centrum is represented by a pair of lateral plates which are usually fused into a second hippocrepian half-ring, the vertebre thus consisting of two half-rings.

Hemizonia (hem-i-zō'ni-ä). n. [NL. (De Candolle, 1836), ζ Gr. ήμι-, hälf, + ζώνη, girdle. Each ray achenium is half inclosed by an involvent heact?] A grapus of statute of the volucral bract.] A genus of plants of the family Asteraceæ. They are erect branching annuals, viscid-glandular and ill-scented, with narrow alternate (hem-o-di-na-mom'e-tèr), n. [Gr. aiµo, blood,

leaves and yellow or white ray-flowers. There are about 12 species, natives of western North America. Like the species of the closely related genns Madia, they are com-There are about nerica. Like the

hemlock, n.—Creeping hemlock. Same as ground-hemlock.—Western hemlock bark-borer. See *bark-borer.—Hemlock bark extract. See *extract. hemming-machine (hem'ing-ma-shēn"), n. In sheet-metal work, a machine for folding over the edges of narrow strips of sheet-metal used in making the handles for eans and other tin-

hemoagglutinin, hæmoagglutinin (hem/o-aglö'ti-nin), n. [Gr.aiµa, blood, + E. agglutinin.] An agglutinin which will cause the agglutination of red blood-corpuseles.

hemochromatosis, hæmochromatosis (hem-ō-krō-ma-tō'sis), n. [Gr. aiμa, blood, + χρῶμα(τ-), color, -- osis.] A condition, asso-ciated with extensive blood-destruction, in [Gr. aiμa, blood, + γένεσις, generation.]

There was a profound hemochromatosis, consisting mainly in the deposition of iron-free pigment granules in the intestinal mncosa, the liver, the blood, the lymph channels, and in the renal epithelium.

Jour. Exper. Med., March 17, 1902, p. 252.

hemochrome, hæmochrome (hem'ō-krōm), n. [Gr. aiμa, blood, + χρωμα, color.] The coloring-matter of the blood.

ing-matter of the blood.

hemochromogen, hæmochromogen (hem-ō-krō'mō-jen), n. [Gr. αίμα, blood, + χρῶμα, color, + -γενίζ, -producing.] The iron-containing pigment-radical of the coloring-matter of the blood, hemoglobin. It readily combines with oxygen to form hematin. The latter hears the same relation to oxyhemoglobin which hemochromogen bears to hemoglobin. In acid solutions hemochromogen loses its iron and is converted into hemstoporphyrin. In alkaline solutions it presents a cherry-red color, and on spectroscopic examination gives rise to two bands of absorption. The substance is crystallizable.

hemochromometer, hæmochromometer

With regard to the development of the vascular system, little can be said here, except that it appears to arise in all cases from the spaces of the mesoblastic reticulum. These scquire special epithelial walls, and torm the main runks and network of smaller vessels found in animals with a canalicular vascular system, or the large sinus-like spaces characteristic of animals with a hæmocælic body-cavity.

mii), n. [NL ; also erroneously hema-, hæma-cæloma, $\langle Gr. al\mu a, blood, + \kappa \delta i \lambda \omega \mu a, a hollow$ (see caloma).] In embryol., the portion of the hemolin (hem'ō-lin), n. [Gr. alµa, blood, + true body-cavity, or ecoloma, which in the mam-ol+-in².] A trade-name for a solution of malian embryo is constricted off to form the eavity of the heart.

hemoconion, hæmoconion (hem-ō-kō'ni-on), n.; pl. hemo. hæmoconia (-ä). [Also hemokonion; NL. hæmoconion, < Gr. alua, blood, + κόνις, dust.] One of certain minute granules which occur free in the blood-plasma and are supposedly derived from leucocytes. Also ealled dust-particles of Müller.

hemoconiosis, hæmoconiosis (hem-ō-kō-ni-ō'sis), n. [hemoconi(on) + -osis.] A condition in which there is an unusual amount of blood-dust in freshly drawn blood.

hemocrystallin, hæmocrystallin (hem-ō-kris'ta-lin), n. Same as hematocrystallin. hemocyte, hæmocyte (hem'ō-sīt), n. Same

as *hematocyte.

hemocytolysis, hæmocytolysis (hem "δ-si-tol'i-sis), n. [hemocyte+ Gr. λεας, dissolution.]

A breaking down or dissolution of the bloodcorpuscles

hemocytometer, hæmocytometer (hem/@-si-tom/e-tér), n. Same as *hematocytometer. Na-ture, Feb. 26, 1903, p. 388.

+ E. dynamometer.] A more correct form of hemadynamometer (which see).

hemoferrum, hæmoferrum (hem-ö-fer'um), n. [Gr. aiµa, blood, + L. ferrum, iron.] A dry organic compound of iron made from ox-blood and consisting principally of oxyhemoglobin. hemofuscin, hemofuscin (hem-ō-fus'in), n.
[Gr. aiµa, blood + L. fuscus, fuscous, +:m².]
A pigment, derived from hemoglobin, which is

free from iron. Its formation is often associated with degenerative changes, as in atrophy of the heart and un-striped muscle-tissue.

hemogallol, hæmogallol (hem-ō-gal'ōl), n. [Gr. aiµa, blood, + gall(ic)2 + -ol.] A reduction-product of hemoglobin which contains iron. It is a reddish-brown powder used as a

hemoglobinometer, n.—Gower's hemoglobinometer, an apparatus for determining the percentage of hemoglobin in blood. A small drop of blood (20 cubic millimeters) is diluted with water to measure 2 cubic centimeters. The color of this solution is then compared with a standard color produced by dissolving picrocarmine in observin.

hemoglobinous, hæmoglobinous (hem-ō-glō'bi-nus), a. [hemoglobin + -ous.] Containing or tinged by hemoglobin, as the nervous system of heteronemertines.

The hæmoglobinous nerve tissne is thus brought close to the surrounding medium.

E. R. Lankester, Treatise on Zoology, IV. 186.

hemoglobinuric, glō-bi-nū'(rik), a. hemoglobinuric (hem-ō-Relating to or affected with hemoglobinuria.—Hemoglobinuric fever. Same as hemoglobinuria

hemogregarian, hæmogregarian (hem "ō-grēgā'ri-an), n. [Hemogregar(ina) + -ian.] A hemogregarine; any member of the family Hæmogregarinidæ. Nature, Aug. 11, 1904, p.

hemogregarine, hæmogregarine (hem-ō-greg'a-rin), n. [Gr. alua, blood, + E. gregarine.] The trophozoite stage of some Hæmosporidia, the organism having a fixed body-form and, though motile, not being amœboid like a hemamœba.

hemoid, hæmoid (hē'moid), a. [Gr. αἰμοειδής, ⟨ αἰμα, blood, + ειδος, form.] Having the appearance of blood.

hemokonia, hæmokonia, n. pl. See*hemoconion. hemol, hæmol (hē'mol), n. [Gr. aiµa, bloed, + ol.] A reduction-product of hemoglobin which contains iron. It is used as a hematowhich contains iron. It is used as a hematogenous tonic.—Copper hemol, a dark-brown powder consisting of a copper compound of hemol. It contains 2 per cent. of copper, and is used in tuherculosis, scrofula, etc. Also called euprohemol.—Hemol mercuric iodide, a hemol compound said to contain 13 per cent. of increury and 28 per cent. of iodine; hydraxyri-iodo-hemol: used in syphilis.—Zinc hemol, a zinc compound of hemol containing 1 per cent. of zinc: antidiarrheic and hematinic.

.] A trade-name for a solution of the coloring-matter of logwood used in dye-ingleather. Flemming, Practical Tanning, p. 120.

hemolutein, hæmolutein (hem-ō-lū'tē-in), n.
[Gr. aiµa, blood, + L. luteus, muddy, + -in².]
A yellow lipochromic pigment which is found in the blood-serum of some animals.
hemolymph, n. 2. The blood and the lymph

hemolymph, n. considered together.

In the second case (advanced cirrhosis) the lymphold since presented the characteristics of hyperplastic emolymph nodes. Med. Record, May 30, 1903, p. 870. tlssue presented the hamolymph nodes.

Hemolymph glands or nodes. See *sgland. hemolymphocytotoxin, hemolymphocytotoxin (hem- \tilde{o} -lim" $f\tilde{o}$ - $s\tilde{i}$ - $t\tilde{o}$ -tok'sin), n. A toxin which acts upon the blood- and lymphcorpuscles.

hemolysin, hæmolysin (he-mol'i-sin), n. [hemolysis + -in².] A cellular product, having the character of an amboceptor, which causes the dissolution of the red corpuscles of the blood in the presence of a suitable complement. Certain hemolysins can be classed as cytotoxins. These result on immunization of one animal with the blood-corpuscless of an animal of an alien species. Also called hemotoxin.

ture, Feb. 26, 1903, p. 388.

hemodynamics, hæmodynamics (hem/o-dinam'iks), n. [Gr. aiµa, blood, + E. dynamics.]
A more correct form of hemadynamics (which

A more correct form of hemadynamics (which

aiµa, blood, + \(\text{\lambda}\)irg, dissolution.] The process of dissolution of the blood-corpuscles (notative and cells) by means of specific lysins bly the red cells) by means of specific lysins (hemolysins). Also hematolysis.

An investigation of the effect of antitoxines (salts, proteids, normal serum, antitetanolysin, etc.) on the power of toxines (ammonia, alkalies, tetanolysin) to produce hæmolysis of blood corpuscles, and an attempt to explain the results on the basis of the mass law.

Jour. Phys. Chem., May, 1904, p. 386.

hemostat, hæmostat (hem'ō-stat), n. [Gr. hendecoic (hen-dē-kō'ik), a. [Gr. èνδεκα, eleven, aiμα, blood, + στατός. ⟨ίστάναι, cause to stand.] + -o- + ic.] Same as *undecylic.

An instrument used to compress a bleeding the decision of the mass law.

An investigation of the effect of antitoxines (salts, protein antitoxines (salts, protein

hemolysis

hemolytically, hæmolytically (hem-ō-lit'i-kal-i), adv. In reference to hemolysis; by kal-i), adv. hemolysis.

hemolyze, hæmolyze (hem'o-līz), v. t.; pret. and pp. hemo-, hæmolyzed, ppr. hemo-, hæmo-lyzing. [Also hemolyse; < hemoly(sis) + -ize.] To bring about hemolysisin.

The blood of animals also is harmolysed by foreign sera the red corpuscles of the rabbit, for example, being dissolved readily by dog's serum.

Jour. Exper. Med., March 17, 1902, p. 280.

pame *assease.
hemorrhagin, hæmorrhagin (hem'ō-raj-in),
n [hemorrhage + -in².] The cytotoxin (enn. [hemorrhage + -in²] The cytotoxin (endotheliotoxin) which causes the destruction of vascular endotholial cells and thus brings Hemphill porcelain. See American *porceabout the occurrence of extravasations of blood.

Hemorrhoidal arteries. See *artery. hemoscope, hæmoscope (hem'ō-skōp), Same as *hematoscope.

hemoscopy, hæmoscopy (hem-os'kṣ-pi), n. Same as *hematoscopy.
hemosiderin, hæmosiderin (hem-ṣ-sid'e-rin), n. [Gr. aiμa, blood, + σίδηρος, iron, + -in².]
A dark pigment containing iron which has been found in extravasated blood and thrombi. It is undoubtedly derived from the blood-pigment.

hemosiderosis, hæmosiderosis (hem-ō-sid-e-hendecane (hen'de-kān), n. [Gr. ενδεκα, eleven, rō'sis), n. [hemosider(in) + -osis.] A form of hemoshromatosis in which hemosiderin is dehendecatoic (hen-dek-a-tō'ik), a. [Gr. ενδεκα, eleven, rositsu) in the tissue or organs. posited in the tissues or organs.

hemosozic, hæmosozic (hem-ō-sō'zik), a. [Irreg. < Gr. aina, blood, + σωζειν, save, + -ic.] Same as *antihemolytic.

Hemorrhage is arrested by picking up the divided blood-vessels with hemostats.

Phil. Med. Jour., Jan. 31, 1903, p. 223.

kal-i), adv. In reference shemolysis. hemolyzability, hæmolyzability (hom/ ϕ -li-stat. hemolyzability, hæmolyzability or liability to hemolysis. hemolyzable, hæmolyzable (hem/ ϕ -li-za-bl), hemolyzable, hæmolyzable (hem/ ϕ -li-za-bl), swift, + - μ e $\tau \rho ia$, measurement.] Measurement of the rapidity of the circulation of the blood. hemotoxic. hæmotoxic (hem- ϕ -tok/sik), a. hemotoxic, hæmotoxic (hem-ō-tok'sik), a. Same as *hematotoxie and hemolytic.

hemotoxin, hæmotoxin (hem otok'sin), n. Same as *hemotysin.

hemotropic, hæmotropic (hem-ō-trop'ik), α. [Gr. αιμα, blood, + -τροπος, ζ τρέπειν, turn, + -ie.] A term sometimes applied to the cytophilie group of the hemolytic amboceptors.

The blood of animals also is heromolous for freely seried.

The real expensive of the rabits, for example, but the size of the stress of the public group of the hemolytic amboseptors.

Homomediastimum, hemomediastimum (hemoforici disactif vum), n. (Gr. aina, blood, + NL. mediastimum).

Hemomediastimum (hemoforici disactif vum), n. (Gr. aina, blood, + NL. mediastimum).

Hemomediastimum (hemoforici disactif vum), n. (Gr. aina, blood, + NL. mediastimum).

Hemomediastimum, hemomediastimum (hemoforici vum), n. (Gr. aina, blood, + Ph. pathodorici vum), n. (Gr.

Hempel's gas-analysis apparatus. See *ap-

Hempstead beds. Same as Hampstead *beds. on¹, n.—**Hen and chickens**, a name for the Pleiads.
- Native hen, *Tribonyx mortieri*, an Australian rail.

hen1 (hen), v. i.; pret. and pp. henned, ppr. henning. To back down in a cowardly way; henning. funk out: as, he henned at the last minute. [Seotch.]

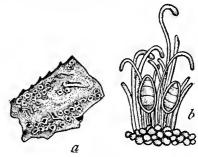
henchwoman (hench'wum"an), n. A female attendant. [Nonce-word.]

Gudrnn and her faithful henchwoman, Dalla, Illustrate in themselves the conservativeness of the feminine mind. Daily Tetegraph, April 20, 1886, p. 2.

a. hendecenoic (hen-dek-a-to-ik), a. [Gr. ἐνδεκα, eleven, + -to- + -ic.] Same as *undecylic.

a. hendecenoic (hen de-se-no'ik), a. [Gr. ἐνδεκα, eleven, + -en + -o- + -ic.] Same as *undecylenic.

hemostat, næmostat (nem o-stat), n. [OII. hemostat, næmostat (nem o-stat), n. [OII. hemostat, næmostat, næmostat (nem o-stat), n. [OII. hemostat, næmostat, næmostat,





wide-spread mallophagan, Menopon pallidum, of the family Liotheidæ. Compare *chicken-louse.

hennotannic (hen-ō-tan'ik), a. [henna + tannie.] Noting an aeid, a brown resinous eompound resembling tannin, contained in commercial henna.

henny, a. II. n. A cock which has the plumage of a hen.

Henny game, a breed of gamefowls in which the cocks have the Menopon pattial
Enlarged.

Henoch's purpura. See *purpura. henogenesis (hen-ō-jen'e-sis), n. [Gr. εἰς (ἐν-), one, + γένεσα, generation.] The development of the individual, or ontogeny, as contrasted with the development of species. [Rare.] henogeny (he-noj'e-ni), n. Same as *henogenesis

hen-pox (hen'poks), n. A disease of ordinary fowls, turkeys, pigeons, and more rarely geese, chiefly affecting the head and appearing as an eruption of round or oblong yellow nodules having somewhat the appearance of warts. See also *bird-pox.

Henrietta cloth. See *cloth. henry (hen'ri), n.; pl. henries (-riz). [From Joseph Henry, 1797-1878.] An electrical unit, the inductance in a circuit when the electro-

varies at the rate of one ampere per second. hense, adv. and v. Another spelling of hence. Hensel, basilar length of. See *basilar.

henselion (hen-se'(i-on), n. [Named for Hen-sel, a German anatomist.] In anthrop., the medial point back of the alveoli of the middle incisers. O. Thomas.

Hensen, canal of, plane of. See *canal1,

Hensen's disk, prop-cells. See *disk, *prop-

hentricontane (hen-trī-kon'tān), n. [Gr. $\dot{\epsilon}v$, hentricontane (hen-tri-kon tan), n. (disease.) one, $+\pi \rho \iota(\dot{a})\kappa o \nu \tau a$, thirty, +-a n e.] A colorless hydrocarbon, $\mathrm{CH_3(CH_2)_{29}CH_3}$, of the methane series, contained in beeswax and in petroleum. It melts at 68.1° C., and boils at petroleum. It millimeters pressure. disease. hepatotoxemia (hep/a-tō-tok-sē/mi-a), n. [Gr. $\eta \pi a \rho$ ($\eta \pi a \tau$ -), liver, $+\tau a \xi (\iota \kappa \dot{a} \nu)$, poison, $+a \iota \mu a$, blood.] Systemic poisoning through circulation in the blood of toxic products normally

hep³ (hep), interj. [Var. of hip⁵.] A quick explosive utterance, leading to a sonorous outburst, urging men or horses to more rapid

action.

hepar, n. 3. In the homeopathic materia medica, ealeium sulphid.—Hepar antimonii, in old chem, liver of antimony, the product obtained by fusing together antimonious aulphid and potassium or sodium sulphid. This product consisted of a sulphantimonite of potassium or sodium in a more or less pure condition and partially soluble in water.

hepatectomy (hep-a-tek'tō-mi), n. [Gr. ἡπαρ (ἡπαν-), liver, + ἐκτομή, excision.] Surgical removal of a part of the liver.

Hepatic apoplexy, cæcum, ligaments, sugar. See *apoplexy, etc.

hepaticopulmonary (he-pat'i-kō-pul'mō-nā-ri), α. [Gr. ηπατικός, of the liver, + L. pulmonarius, of the lungs.] Relating to both the liver and the lungs.

hepatitis, n.—'Acute parenchymatous hepatitis, same as acute yellow atrophy of the liver (which see, under yellow).—Chronic interstitial hepatitis, cirrhosts of the liver.

hepatochemical of the liver (which see, under yellow).—Chronic interstitial hepatitis, cirrhosts of the liver.

hepatochrome (hep'a-tō-krōm), n. [Gr. $\dot{\eta}\pi a\rho$ ($\dot{\eta}\pi a\tau$ -), liver, + $\chi\rho\ddot{\omega}\mu a$, color.] Same as *cholechrome.

hepatocolic (hep a-tō-kel'ik), a. [Gr. ηπαρ (ηπαγ-), liver, + κόλον, colon, + -ic.] Relating to both the liver and the colon.—Hepatocolic ligament. See ★ligament.

hepatoduodenal (hep-a-tō-dū-ō-dē'nal), a. [Gr. $\dot{\eta}\pi a\rho$ ($\dot{\eta}\pi a\tau$ -), liver, + E. duodenum + -al¹.] Relating to both the liver and the duodenum.

hepatodynia (hep a-tō-din'i-ā), n. [NL., < carbon. Gr. ἡπαρ (ἡπατ-), liver, + ἀδύνη, pain.] Pain hepta-compound in the hepatic region.

hepatogenic (hep-a-tō-jen'ik), a. Same as hep-

Hepatogenous jaundice. See *jaundice. element. hepatoid (hep-a-toid), a. [Gr. $\mathring{\eta}\pi a \tau o \epsilon \iota \delta \acute{\eta} \varsigma$, < heptactin (hep-tak'tin), $\mathring{\eta}\pi a \rho (\mathring{\eta}\pi a \tau$ -), liver, + είδος, form.] Resembling n. [Gr. $\mathring{\epsilon}\pi \tau \acute{\alpha}$, seven, + the liver in structure

hepatolith (hep'a-tō-lith), n. [Gr. $\dot{\eta}\pi a\rho$ ($\dot{\eta}\pi ar$ -), liver, + $\lambda i\partial ac$, stone.] A gall-stone.

hepatological (hep'a-tō-loj'i-kal), a. [hepatolog-y+-ic+-all.] Of or relating to hepatology. hepatolysin (hep-a-tol'i-sin), n. [hepatolys(is) + -in².] A cytolysin which results on immunization with liver cells.

hepatolysis (hep-a-tol'i-sis), n. [Gr. $\dot{\eta}\pi a \rho$ ($\dot{\eta}\pi a \tau$ -), liver, $+\lambda \dot{\nu} a \dot{\nu}_{\sigma}$, dissolution.] Destruction of the cells of the liver.

hepatolytic (hep'a-to-lit'ik), a. Causing hep-

hepatomalacia (hep″a-tō-ma-lā'si-ā), n. [Gr. $\eta \pi a \rho$ ($\eta \pi a r$ -), liver. + $\mu a \lambda a \kappa i a$, softness, ζ $\mu a \lambda a - \kappa i c$ ς, soft.] Softening of the liver.

hepatoperitonitis (hep "a-tō-per"i-tō-nī'tis), n. [Gr. $\eta\pi a\rho$ ($\eta\pi a\tau$ -), liver, + NL. peritonitis.] Inflammation of the peritoneal coat of the liver.

hepatopexy (hep'a-tō-pek-si), n. [Gr. $\eta\pi a\rho$ ($\eta\pi a\tau$ -), liver, $+\pi\bar{\eta}\xi\iota\epsilon$, fastening.] Surgical fixation of a floating liver.

hepatophlebitis (hep'a-tō-flē-bī'tis), n. [Gr. $\eta\pi a\rho$ ($\eta\pi a\tau$ -), liver. $+ \varphi\lambda \dot{\psi}$ ($\phi\lambda c\beta$ -), vein, + -itis.] Inflammation of the veins of the liver. hepatoptosis (hep'a-top-to'sis), n. [Gr. ἡπαρ

 $(\dot{\eta}\pi a\tau$ -), liver, $+\pi\tau\bar{\omega}\sigma\iota\varsigma$, falling.] Displacement downward of the liver.

hepatorrhexis (hep "a-tō-rek'sis), u. Rupture of the liver, $+ \dot{\rho}\eta\bar{\xi}u$, rupture.]

hepatosplenitis (hep″a-tō-splē-nī'tis), n. [Gr. $\eta \pi a \rho$ ($\eta \pi a \tau$ -), liver, $+ \sigma \pi \lambda / \nu$, spleen, + -itis.] Inflammation of both liver and spleen; Banti's

destroyed in the liver.

hepatotoxin (hep″a-tō-tok′sin), n. [Gr. ήπαρ $(\eta \pi a \tau$ -), liver, $+ \tau o \xi(\kappa \delta \nu)$, poisen, $+ -in^2$.] Λ cytotoxin resulting on immunization with liver

Hephæstic, Hephestic (he-fes'tik), a. [He-phæstus+-ic.] Of or pertaining to Hephæstus, the Greek Vulcan; hence, allusively, relating to blacksmithing, or wielding of the hammer. -Hephæstic cramp or Hephæstic hemiplegia. ame as hammer. ★palsy.

hepialid, n. and a. See *epialid.

Heppia (hep'i-ä), n. [NL. (Nägeli, 1854), named for Philip Hepp, a German lichenologist.] A genus of lichens having a foliose thallus and large disciform immersed apotheeia.

The second of the difference of the action of the action of the action of the corder of the corder of the action of the action of the corder of the corder of the corder of the action o

part of the eighteenth century. The Hepplewhite style is a delicate well-made adaptation of the current French motives of the period.

heptacarbon (hep-ta-kar'bon), a. [Gr. $\varepsilon\pi\tau a$, seven, + carbon.] Containing seven atoms of

(hep-ta-kom'pound), n. A compound containing seven atoms of some

n. [Gr. ἐπτά, seven, + ἀκτίς (ἀκτιν-), a ray.] Α

sponge-spieule having seven arms. hepatolith (hep'a-to-lith), n. [Gr. ηπαρ (ηπατ-), liver, + λίθος, stone.] A gall-stone.

Heptad axis of symmetry. See *symmetry. hepatolithic (hep'a-tō-lith'ik), a. [hepatolithic + ic.] Relating to or characterized by the presence of gall-stones.

hepatological (hep'a-tō-loj'i-kal), a. [hepatology-t-ic+-all.] Of or relating to hepatology.

hepatolith (hep'a-to-lith), n. [Gr. ηπαρ (ηπατ-), sponge-spiente naving seven arms.

Heptad axis of symmetry. See *symmetry. seven, + δέκα, ten, +-anc.] A colorless crystalline compound, CH₃(CH₂)₁₅CH₃, found in brewn coal parafin. It melts at 22.5° C. and boils at 303°C. Also called normal heptadec-

ane heptahydrate (hep-ta-hī'drāt), n. [Gr. $\dot{\epsilon}\pi\tau\dot{\sigma}$, seven, $+\,\hat{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, $+\,-ate^{1}$.] In chem., a compound containing seven molecules of heptahydrated (hep-ta-hi'drā-ted), a. [As heptahydrate + -ed2.] In chem., containing

consisting of seven feet or measures. Southey, heptanone (hep'ta-non), n. A ketone, C₇H₁₄O, derived from heptane. Three isomeric forms are known: 2-heptanone, which boils at 151-152° C.; 3-heptanone, which boils at 143-148° C.; and 4-heptanone, which boils at 143.5° C. These are also known, respectively, as methylamyl ketone, ethylbutyl ketone, and dipropylketone

Heptapla (hep'ta-plä), n. [Gr. ἐπταπλόος, sevenfold, ζ ἐπτά, seven, + -πλοος, -fold.] One of the editions of the Old Testament, by Origen One of

(third century) containing seven versions of the Scriptures (or of parts of them) in parallel

dewnward of the liver.

Joseph Henry, 1797–1878.] An electrical unit, the inductance in a circuit when the electromotive ferce induced in this circuit is one international volt while the inducing current varies at the rate of one ampere per second. Hensel, basilar length of. See *basilar. Henselion (hen-sē'li-on), n. [Named for Hensel, a German anatomist.] In anthrop., the medial point back of the alveoli of the middle hensel medial point back of the alveoli of the middle hensel hensel hensel hensel in the inducing a wound in the liver.

dewnward of the liver.

hepatorpulmonary (hep'a-tō-pul'mō-nā-ri), n.

[Gr. $\dot{\eta}\pi a\rho$ ($\dot{\eta}\pi a\tau$ -), liver, $\dot{\tau}$ L. ren, kidney, $\dot{\tau}$ - all.] Relating to both the liver and the kidney.—

Hepatornal ligament. See *ligament.

hepatornaphy (hep-a-tor'a-fi), n. [Gr. $\dot{\eta}\pi a\rho$ ($\dot{\eta}\pi a\tau$ -), liver, $\dot{\tau}$ poly, sewing.] The operation of suturing a wound in the liver.

hepatornal unit, hepatopulmonary (hep'a-tō-pul'mō-nā-ri), n.

kepatornal ($\dot{\eta}\pi a\tau$ -), liver, $\dot{\tau}$ and $\dot{\tau}$ columns.

Hepatornal ($\dot{\eta}\pi a\tau$ -), liver, $\dot{\tau}$ and $\dot{\tau}$ columns.

Hepatornal ($\dot{\eta}\pi a\tau$ -), liver, $\dot{\tau}$ and $\dot{\tau}$ columns.

Hepatornal ($\dot{\eta}\pi a\tau$ -), liver, $\dot{\tau}$ and $\dot{\tau}$ and occupied.

Any remains that may exist at the Emporium, the Apostases, the Navalia, the Heptastadium, the buildings on the Pharos island or round the Eunostus Harbour (i. e., the present port), are either under the sea or beneath occupied land. They cannot be explored and are probably not in the least worth exploring.

E. F. Benson, in Jour. Hellenic Studies, XV., Sup., p. 11.

heptatonic (hep-ta-ton'ik), a. [Gr. $k\pi \tau \acute{a}\tau v v o c$, seven-toned, $\langle \acute{e}\pi \tau \acute{a}_{\tau}$ seven, $+\tau \acute{o}v o c$, tone.] In music, consisting of seven tones to the octave: said of scales: often contrasted with pentatonic.

heptavalency (hep-ta-vā'len-si), n. [Gr. ἐπτά, seven, + E. valency.] In chem., valence or valency equivalent to that of seven menad atoms, as of hydrogen.

heptine (hep'tin), n. [Gr. $i\pi\tau\dot{a}$, seven, +- ine^2 .] A colorless liquid, C_7H_{12} , with a characteristic odor, formed by the distillation of colophonium resin. It boils at 103-104°C, readily absorbs oxygen, and is a homologue of acetylene. There are four other isomeric compounds to which the term heptine is strictly applicable and which differ according to the position of the acetylene union.

named for Philip Hepp, a German lichenologist.] A genus of lichens having a foliose thallus and large disciform immersed apothecia. The spores are unicellular and hyaline.

Heppiaceæ (hep-i-ā'ṣṣ̄-ē̄), n. pl. [NL., ⟨ Heppia + -aeeæ.] A family of gymnocarpous lichens named from the genus Heppia.

Hepplewhite (hep'l-hwit), n. A style of furbolis at 1150 C.

boils at 115° C

niture based on the designs of A. Hepplewhite, heptose (hep'tos), n. [Gr. $\epsilon\pi\tau\acute{a}$. seven, + -osc.] in England, in the later Sugar containing seven atoms of carbon. Such sugars closely resemble the corresponding ones of the hexose series.

heptoxid (hep-tok'sid), n. [Gr. $\xi \pi \tau \hat{a}$, seven, oxid.] In chem., a compound containing seven atoms of oxygen, as sulphur heptoxid (S₂O₇), cerresponding to persulphuric acid (H₂S₂O₈).

Heptranchias (hep-trang'ki-as), n. [NL., a blunder for *Heptabranchius, & Gr. έπτά, seven, + βράγχια, gills.] A genus of sharks of the family Hexanchidæ, remarkable for the presence of seven gill-openings instead of five, the

ence of seven gill-openings instead of five, the usual number. They are closely related to extinct forms. H. cinereus is found in the Mediterraneau, H. maculatus on the coast of California.

heptylamine (hep-til-am'in), n. [Gr. ἐπτά, seven, + -yl + amine.] A colorless compound, CH₃(CH₂)₅CH₂Nll₂, prepared by the action of bromine and potassium hydroxid on caprylic arnide. It boils at 153-155° C. Also called 1-aminoheptane. 1-aminoheptane.

heraclin (her'a-klin), n. [Heracl(eum) + -in².] A colorless indifferent compound, C₂₂H₂₂O₁₀, ebtained from the seeds of Heracleum villosum. It forms long, silky, lustrous needles melting at 185° C.

Heræa (hē-rē'ā), n. pl. [Gr. 'Ηραία, neut. pl. of 'Ἡραίας, adj. ζ Ἡρα, Hera.] In Gr. archæol., a festival celebrated in honor of Hera.

Heraldic crab. See ★crab1. water, as common copperas in erystals, or herapathite (her a-path-it), n. [Herapath, ferrous sulphate heptahydrate (FeSO₄.7H₂O). name of its discoverer, + -ite².] A little-used heptahydrated (hep-ta-hi/dra-ted). a. [As name for a erystalline iodoquinine sulphate used in medicine.

seven molecules of water, as heptahydrated sedium sulphate (Na₂SO₄.7H₂O). G. Lunge, Herbalism; botany.

Sulphuric Acid, II. 22.

The very pith and marrow of herbarism.

impia, 'irreverent plant.'] The cotton-rose, Gijola Germanica: so called because each succeeding flower-head rises above the last older one. This plant is related to the cudweeds one. This p

herbivority (her-bi-vor'i-ti), n. [herbivor-ous + -ity.] The quality of being herbivorous; herbivorous nature.

Admitting the herbivority of the fossil [Stereognathus], it is not certain that it was boofed.

Owen, in Encyc. Brit. (8th ed.), XVII. 150



Hepplewhite Chair.

Herbivorous ladybird. See *ladybird. Herculaneum ware. See *ware2. Hercules metal, powder, stone. See *metal,

Hercynian, a. 2. In geol.: (a) Applied to a division of the Precambrian crystalline rocks in Westphalia, termed by Gümbel the Hercynian gneiss, lying above more highly altered rocks, and beneath those which are less altered and consist of mica schists and shales. (b) First applied to the lowest Devonian strata of the Harz Mountains and Westphaiia, but subsequently restricted so as to refer to the calcareous or deeper water facies of these early Devonian rocks and their organic contents.

herderite, n.—It occurs also at Paris and Hebron, Maine. It is shown by Penfield to be monoclinic (pseudo-orthorhomoic) in crystallization, with a composition expressed by the formula Ca [Be (F, OH)] PO₄. Pure fluor-herderite has not yet been observed; the mineral from Paris is a hydrofluor-herderite, and that from Hebron a hydro-horderite.

herd-header (herd'hed er), n. The bull which heads a herd of cattle.

The man who expects success as a breeder cannot look upon the selection of his herd-header as a light matter.

Rep. Kan. State Board Agr., 1901-02, p. 50.

herdwick (herd'wik), n. [herd2 + wiek2. Hence the frequent village name Hardwick.] 1. The tract of land under the charge of a herd or shepherd.—2. Applied to designate a hardy breed of sheep, found in the mountains of Cumberland and Westmoreland, and usually rented with the farm on which they are owned. here! (her), n. [here, adv.] That which is here; the present; this world. [Poetical.]

A half-effaced inscription . . . Full of hope and yet of heart-break, Full of all the tender pathos Of the *Here* and the Hereafter. Longfellow, Hiawatha, Introd., l. 113.

hereanent (hēr'a-uent'), adr. [here + anent.] Relating to or concerning this; having a bear ing on this matter. [Chiefly Scotch.]

Hereditary substance. See substance of *hered-

hereditation (hē-red-i-tā'shon), n. [NL. *hereditatio(n-), < LL. hereditare, inherit: see heredity, inherit.] Generation of like by like, by regnlar course; reproduction. [Rare.] hereditist (hē-red'i-tist), n. [heredit(y) + -ist.] One who believes that children inherit their

character from their pareuts. [Rare.]

hereditivity (hē-red-i-tiv'i-ti), n. [*hereditive
+ -ity.] Ability to reproduce or generate
descendants like the parents. [Rare.]

Natural selection resolves itself into two laws: heredi-tivity and adaptivity, the latter being the accomodation to circumstances, etc. Science, May 2, 1902, p. 711.

heredito-syphilitic (hē-red"i-tō-sif-i-lit'ik), a. and n. I. a. Relating to or suffering from hereditary syphilis.

who suffers from hereditary II. n. One

syphilis.

heredity, n. 2. (e) Metaphorically, that which makes living beings inherit; the explanation or cause of the kinship or resemblance to ancestors which living beings exhibit, or the force or agent or principle that brings about ancestors which living beings exhibit, or the force or agent or principle that brings about this kinship or resemblance. This metaphorical use of the word leads to forgetfulness of the fact that the word is only a general term for formulating the facts of kinship, and to the regarding of heredity and variation as independent and antagonistic principles or agents or factors in the origin of species. Since we can aeparate, in our minds, the kinship of living beings, or their likeness to their kind, from their individuality or difference from their kind, and since we find this intellectual analysis useful, some think that what is intellectual evelopment is due to heredity and variation as antagonistic principles or agencies.—Amphigonic heredity, inheritance in organisms produced by sexual reproduction. Weismann (trans.), Germ-plasm, p. 253.—Ancestral heredity. See *inheritance.—Cross heredity, the resemblance of descendants to ancestors considered reciprocally. See heredity.—Galton's and Pearson's laws of heredity, the development of the organs and tissues in the same chronological order in the offspring as in the same chronological order in the offspring as in the parent, considered as a distinct form of inheritance. Weismann (trans.)—Gorm-plasm, p. 75.—Homotopic heredity, the development of the tissues and organs of the offspring in their parental positions, considered as a distinct form of inheritance. Weismann (trans.).—Social heredity, the acquisitions hy social animals of the habits and customs and traditions of their kind, through their power to profit by experience and to use it to advantage, and quickly to acquire the mode of life that is characteristic of their species by imitation and example and instruction, without the risk that attends trial and error: considered as a determining factor in the origin of species. Since social animals cannot acquire, the customs of their kind without natural apitiude, and since those that fail to find places for themselves in society are at a disadvantage in the strugg

case of natural selection than an independent determining factor in the origin of species.—Substance of heredity, hereditary substance. (a) The material basis of inheritance or the living matter that is transmitted from parent to offspring in reproduction, and in the transmission of which reproduction consists. There is evidence, which is accepted as conclusive by most authorities, that the essential tact in reproduction is the transmission of the chromosomes of the germ-cells, and this is commonly held to be proof that the chromosomes are the material basis of inheritance, although this canclusion does not follow of necessity from the facts, if the term is understood as implying that they are not also the material basis of individuality. While descendants resemble ancestors, they are never identical with them. Each living being is minute: there is no other like it; and while it resembles its kind, it is different from all of its kind and from everything else in nature. Proof that the chromosomes are the substance of heredity is no proof that they are not also the substance of variation. (b) Metaphorically, the substratum or support or bearer or giver or cause of inheritance: that which makes the offspring to be like its parents or ancestors. This meaning (which depends upon an uncritical use of the word substance, and upon the opinion that we account for inheritance by calling it heredity leads to the belief that since resemblance to parents may be considered by itself, it therefore exists in nature separated from the individuality of living beings.

Hereford (her'ē-ford), n. A breed of beef

Hereford (her'ē-ford), n. A breed of beef cattle, maintained chiefly in Herefordshire, England. The body color is a deep red, the face, mane, throat and chest white, and the horns are moderately loug.

heregeld, n. A variant of heregild. herem (her'em), n. [Heb. herem, < haram, to ban, exterminate, forbid: see harem.] Excommunication from the synagogue. This punishment was specially meted out to those holding doctrines contrary to the Jewish religion. The reformed Jews, however, have abandoned the practice, but it is still a formidable weapon in the hands of the rabbis of orthodox Jewish communities in Russia and the Orient. Also cherem.

Heremetabola (her-ē-me-tab'ō-la), n. pl. [NL., said to be formed (if so, properly *Eremometabola) < Gr. ήρεμα, quiet, + μεταβοίη, change.] A group of insects including those forms which have a gradual but incomplete metamorphosis, with a resting-stage, as in the Cicadidæ.

hereticize (he-ret'i-sīz), v. t.; pret. and pp. hereticized, ppr. hereticizing. [heretic+-ize.] Same as hetericate.

Hering's and Wundt's figures. See *figure. herisseal (he-ris e-al), n. [Appar. < F. hérisson, hodgehog, +-e-al.] A lateral bone behind the eyeball of the head of fishes connected with the pterygoid and palatine; the mesop-terygoid. Starks, Synonymy of the Fish Skeleton, p. 514.

heritage, n.—Diligence against the heritage. See *diligence.
hermana (er-mä'nä), n. [Sp.] 1. A sister.
—2. A sister-in-law.

Hermann's demarcation current. Same as *current of injury.
hermano (er-mä'nō), n. [Sp.] 1. A brother.

—2. A brother-in-law.

Hermaphrodite duct. See *duct. duct. Hermellidæ (hérmel'i-dē), n. pl. mel'i-de), n. pl. [NL., \ Hermella + -idæ.] A family of cryptocephalous Polychæta having the peristomium enor- n mously developed and in the form of a bilobed hood capa- k ble of closing over the mouth, the lobes bearing defensive chætæ. It contains the single marine genus Sabellaria or Hermella, which lives tubes $_{
m in}$ inthe sand.

hermeneutical thermē-nū'ti-kal), a. Relating to hermeneutics; hermeneu-

Hermetic books. See Hermetie, 2. Hermetism (her'me-

a, multifd palp (gill filaments); b, mouth: c, notopodial cirrus; d, neuropodium; c, notopodium; f, ventral (tubiparous) gland shield; m. k. j, h, and c, segments following peristome; f, neuropodial cirrus; n. ridges after removal of gill filaments; c, tentacle; p, peristomial chaette; q, hood formed by peristomium. (From "Cambridge Natural History.") tizm), n. [eap or l. e.] The philosophical, theosophical, and alchemical doctrines of Hermes Trismegistus; hermetics.

Sabellaria alveolata L. Ven-tral view of anterior region. Enlarged about six times.

The modern alchemists accept all the traditions of their ancient predecessors, but give them a new significance, and interweave the novel phenomena derived from researches in pure science. They claim that during the fourteenth, fifteenth and sixteenth centuries the official heron, n.—Purple heren. See purple.

schools of instruction taught exclusively the physical part of the sciences, and that the metaphysical part (which is the real life and soul of the study) has been rejected under the opprobrions name of occult science. This living aspect of science has, however, been studied in the sceret societies of the initiated, which have preserved the traditions of the kabala, the mysteries of hermetism, and the practice of transmutation.

II. C. Bolton, in Smithsonian Rep., 1897, p. 213.

Hermetist (her'me-tist), n. [cap. or l. e.] One who accepts the occult doctrines of the Hermetic books; a Hermetic philosopher.

The astral undulations determine the position of the atoms or neutralize them. Herein lies the secret of transmutation, and it becomes the privilege of the hermetist to acquire the power of controlling this agent.

H. C. Bolton, in Smithsonian Rep., 1897, p. 215.

hermetologist (her-me-tol'ō-jist), n. A Her-metist; a believer in the Hermetic philoso-

The services of the new psychology to the Christian religion, 1 believe it is impossible to overestimate. Its teachings of the manifold human degeneracies make the doctrine of sin as vital as with the most ardent of the old hermetologists, and far more tempered and potent.

G. S. Hall, in The Forum, Aug. 1894, p. 719.

herminiid (her-min'i-id), n. and a. I. n. One of the legislant property of the legislant property of the legislant property.

of the lepidopterous family Herminidæ.

II, a. Of or belouging to the Herminidæ.
hermitage, n. 3. In landscape-gardening, a secluded building, arbor, or other feature.

The hermitage being directly on the axis of the villa, one looks out from the latter down the admirable perspective of the tapis vert and up the Scala Santa to the little house at its summit.

Edith Wharton, Italian Villas, p. 66.

Hermite process. See *process. hermit-lobster (her*mit-lob'ster), n. A hermit-crab.

hermophenol (her-mō-fē'nōl), n. [Gr. Ἑρμῆς, Hermes, Mercury, + Ε. phenol.] Mercury-phenol-disulphonate of sodium. It is antiseptic and autisyphilitie

Hermosilla (her-mō-sil'ā), n. [NL., < Hermosilla, the capital of Sonora, Mexico, < Sp. hermoso, beautiful, < L. formosus, beautiful.] A genus of rudder-fishes of the family Kyphosidæ, found on the coast of Sonora in the Gulf of California. H. azurea is the known species. of California. H. azurea is the known species. hernani (er-nä'ni), n. [From the (F.) personal name Hernani.] A grenadine dress fabric woven in small meshes of coarse threads of silk, cotton, or wool, and their intermixtures.

intermixtures.

hernia, n.—Complete hernia, a hernia in which the contents have passed beyond the external ring of the inguinal canal.—Concealed hernia, a form of incomplete hernia of such amall size as to be impossible of detection by ordinary examination.—Congenital hernia, a scrotal hernia present at birth or appearing shortly after.—Diaphragmatic hernia, hernia of a portion of the bowel through a ruptured diaphragm into the chest cavity.—Diverticular hernia, a hernia formed by a diverticulum from the intestine, usually the ileum, and not containing a complete loop of the bowel.—Hernia obturatoria, hernia through the obturator foramen.—Hernia of the cornea. Same as ceratocele.—Hernia testis, a fungus-like appearance of the testicle due to rupture of the fibrous coat.—Hesselbach's hernia, a form of fenoral hernia.—Incomplete hernia, a hernia in which the sac has not passed beyond the external ring.—Littre's hernia. Same as diverticular *hernia.—Mucosal hernia, extrusion of the mucous membrane of the intestine through a defect in the muscular coat.—Peritoneal hernia.—Stipped or sliding hernia, hernia of the cecum or sigmoid flexure, in which only a portion of the bowel is in the sac, the outside part having no peritoneal covering.—Tunicary hernia. Same as *mucosal *hernia.*

hernia-knife (hèr 'ni -ä -nīt), n. Same as *hernia.*

hernia-knife (hėr'ni-ä-nīf), n. Same as

herniarin (her-nī'a-rin), n. [Herniaria + -in2.] A grayish powdery glueoside, $C_{19}H_{30}O_{10}$, found in Herniaria glabra and H. hirsula. It resembles saponin in general properties. herniotome (her'ni-ō-tōm), n. [hernia + Gr. -τομος, ζταμεῖν, cut.] A knife resembling a

bistoury with a short cutting-edge, the rest of the blade being rounded, used for incising the eonstricting tissues in hernia.

herniotomist (her-ni-ot'ō-mist), n. [herni-otom-y + -ist.] One who is skilled in herniotomv.

Herodianic (he-rō-di-an'ik), a. Of or pertaining to Herodianus, a Byzantine grammarian of about 200 A. D.—Herodianic signs, See

Heroic age. See Heroic *age.
heroin, n. A simplified spelling of heroine.
heroin (her'ō-in), n. Diaeetyl-morphia: a
remedy valuable in the treatment of various
forms of respiratory disease. It allays cough

Heronic (hē-ron'ik), a. Of or pertaining to Heron (about 250 B. C.), an Alexandrian mathematician.—Heronic cyclic polygon, cyclic quadrilateral, parallelogram, pyramid. See *polygon,

heronite (her'on-it), n. [Heron Bay, on the north shore of Lake Superior, + -ite².] An aphanitic dark-colored rock occurring in a dike composed of analcite, orthoclase, pla- herring-bone, r. t. 2. In carp., to strengthen gioelase, and ægirite. The analcite forms a matrix for the other minerals, which are in

matrix for the other minerals, which are in radiating groups. Coleman, 1899.

Heros (hē'ros), n. [NL., without evident allusion, ζ L. heros, ζ Gr. ἡρως, hero.] A very large genus of perch-like fishes found in the waters of Central and Sonth America, and characterized by the large property. and spines. The species are very numerous, herring-cale (her/ing-kal), n. In New South

anal spines. The species are very numerous, one of them, H. cyanoguttatus, extending north to the waters of Texas.

Hero's lamp. See *tamp1.
herotheism (hē-roth'ē-izm). n. [Gr. ἡρως, hero. + θεως. god, + -ism.] The worship of deified heroes. N. E. D.

herpet. An abbreviation of herpetology.
herpetiform (her-pet'i-fôrm), a. [Gr. ἐρπετόν, salmon.
reptile, + L. forma, form.] Resembling or having the characters of a reptile.

Herschel's fringes. See */ringe.
Herts. An abbreviation of Hert!

herpetography (hėr-pe-togʻra-fi), n. [Gr. έρπετών, reptile, + -γραφία, ζ γράφειν, write.] The description of reptiles; also, in a gen-

eral sense, same as herpetology.

herpetospondylian (her pe-to-spon-dil'i-an),
a. and n. I. a. Relating to or having the characters of the Herpetospondylia.

II. n. A member of the reptilian subclass

Herpetospondylia.

Herpobdellidæ (her-pob-del'i-dê), n. pl. [NL., < "Herpobdella + -idæ.] A family of leeehes in which the pharynx is without denticulate jaws but has three unarmed chitinous plates. It contains the genus Trocheta.

Herpotrichia (her-pō-trik'i-ä), n. [NL. (Fuckel, 1869), irreg. \langle Gr. $\tilde{\epsilon}\rho\pi\epsilon\nu$, creep. + $\theta\rho i\xi$ ($\tau\rho\iota\chi$ -), hair, thread.] A genus of pyrenomycetous fungi having the perithecia usually seated npon a brown mycelial layer, a subiculum. The spores are more or less clongate, several-celled, and brown. If nigra is parasitle on pines and other conifers in atjain or subadpine regions. The mycelium envelops the twigs and fastens them together in a dark-prove mess.

herring, n. 2. In Australia, Prototroctes markena, the Yarra herring, fresh-water herring, fresh-water herring, CH₂: CH.C₆H₃(OH)OCIl₃, formed by heatrivers of Victoria and Tasmania. Austral ing isoferulic acid. It melts at 57° C.

English.—Big-eyed herring, (a) The alewife, or branch herring, Pomotobus pseudoharengus. (b) The tenpounder, Elops saurus, found in all tropical waters.—Blear-eyed herring, the lake herring, Arbane herring, the lake herring, Arbane herring, Christopharengus.—Blueback herring, the lake herring, Arbane herring, a species of alewife, Pomotobus chrysochtoris, of the family Ctupeidæ, found in all the larger streams of the Mississippi valley.—Fresh-water herring, (b) Ctupea or Harengula richmondia: so called in Sydney, Anstralia; elsewhere in Australia, and in Tasmania, the gray-ling.—Gibbed herring, a whitefish, Argyrosomus lucidus, found in Great Bear Lake.—Herring silver.—CGreat Bear Lake herring, a whitefish, Argyrosomus lucidus, found in Great Bear Lake.—Herring silver.

See ***silver.—King of the herrings. (b) One of the common names applied to the opah, Lampris guitatus, and to various other unrelated fishes.—Mountain her
10 CH₂: CH.C₆H₃(OH)OCIl₃, formed by heat-ing its ferulic acid. It melts at 57° C.

Hesperic (hes-per'ik), a. [Gr. ἐσπέρα, the west, + .ic.] Noting an acid, a eolorless, crystal-line, tasteless compound, C₂₀H₂₈O₇, extracted from orange-peel by means of alcohol.

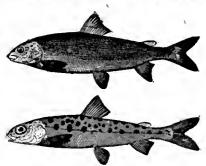
11 Hesperia (hes-per'i-dēn), n. [hesper(ic) + .id + -ne.] Same as citrene and carrene.

12 Hesperial (hes-per-irifin), a. [hesper(ic) + .in + -ic.] Derived from hesperidenc.—Hesperinic des des-per-i-oid e-id), n. [hesperidenc.—Hesperinia, de eolorless, crystal-line, tasteless compound, C₂₀H₂₈O₇, extracted from orange-peel by means of alcohol.

12 Hesperidence (hes-per'i-dēn), n. [hesper(ic) + .id + -ne.] Same as citrene and carrene.

13 Hesperiodea (hes-per-i-oid), n. [hesper(ic) + .in + -ic.] Derived from hesperidenc.—Hesperinides compound, C₂₀H₂₈O₇0₇1¹²O₇0 (formed by the oxidation of d-limonene with nitric acid.

13 Hesperiodea (hes-per-i-oid e-id), n. [hesper(ic) + .in + -i



Mountain Herring (Coregonus williamsons), ser figure, mature fish; lower figure, young fish, (From Bulletin 47, U. S. Nat. Museum.)

ring, the Rocky Mountain whitefish, Coreyonus williamson, a small gamy fish of great excellence as food, found in streams of the Rocky Mountains, the Slerra Nevada, and northward.—Perth herring, Dorsooma erebi, a clupeoid fish found in Australia. Also cailed bony bream.— Picton herring, a name given to several fishes when dried (like 'kipper'), especially to the sea-mullet, and the

moray of New South Wales. E. E. Morris, Austral English.
—Queen of the herrings, Alosa alosa, a clupeoid fish found on the coasts of Europe.—Rainbow herring, a common name for Osmerus dentex, a smelt found on the coast of Alaska, and south on the eastern Pacific coast of northern China.—River herring, the alewife, Pomolobus pseudoharengus.—Summer herring. Same as yluther-ring.—Summer herring. Same as fall herring (which see, under herring).—Yarra herring. Same as *yray-ling, 4.

(a floor) by herring-bone bridging, that is, with short pieces of studding set diagonally from the lower edge of one beam to near the upper edge of the next.—3. In masonry, to build, as a wall, of stone, tiles, or bricks laid at an angle with the horizon so as to show on the face in a series of diagonals, generally in alternate

Wales, the fish Olistherops brunneus, of the family Labrida, or wrasses. E. E. Morris, Austral English.

herringer, n. 2. A boat engaged in the herring-fisheries.

heroes. N. E. D.

Herpes circinatus, ringworm.—Herpes iris, a form of herpes in which the vesieles are grouped in an annular form.—Herpes præputialis, herpes affecting herring-salmon (her'ing-sam "un), n. A the prepuce.

An abbreviation of herpetology.

herring-ponu (her ing ponu), Ocean. [Joeose.]

herring-salmon (her'ing-sam "un), n. A whiteish, Argyrosomus arteal, found in the Great Lakes. It is neither a herring nor a

Herts. An abbreviation of Hertfordshire.

Hertwigia (hert-wig'i-ā), n. [Named from Hertwig.] The typical genus of the family Hertwigidæ. O. Schmidt, 1880.

Hertwigidæ (hert-wig'i-dē), n. pl. [NL., < Hertwigidæ + -idæ.] A family of lyssaeine, hexactinellid sponges, having the skeletal framework composed of hexactines and diactines with the second states of the second states. tines united by synapticulæ. It contains the genera Hertwigia and Trachycaulus.

to Herzegovina. II. n. A native of Herzegovina.

hesperetin (hes-pe-re'tin), n. [Appar. < Gr. έσπέρα, the west, + βητίνη, resin. If this is correct, the form hesperitin is an alteration.]

Same as *hesperitin. hesperetol (hes-per'e-tōl), n. [hesperet(in) +-ol.] A colorless crystalline compound,

 $HOC_6H_3(OCH_3)C_2H_2$. $OCOC_6H_3(OH)_2$, which is obtained by boiling hesperidin with dilute aqueous-alcoholic sulphuric acid. It crystallizes in plates and melts and decomposes at 226° C.

Hesperornithes (hes-pe-rôr'ni-thēz), n. pl. [NL., pl. of Hesperornis.] An order of toothed birds representing the superorder Odontoleæ and represented by the genus Hesperornis (which see

hesperornithid (hes-pe-rôr'ni-thid), n.

ing the characters of or related to the Hespe-

II. n. A bird resembling Hesperornis. hessenbergite (hes'en-berg-it), n. [G. Hessen-berg + -ite2.] A silicate of undetermined composition occurring in colorless tabular crystals in the hematite of Mount Fibbia, St. Gott-hard, Switzerland. It may be the same mineral as the more recently described bertran-heterocarpic (het/e-rō-kär'pik), a. Same as

Violet, yellow. See **bettones, etc.

Hessian ? n.—Hessian of a curve (of the nth order), a curve of the 3(n.—2)th order, which not only passes through the double points of the original, but has itself double points which coincide with them.—Hessian of a net of plane curves, the locus of the double points of the curves of the net. It is the locus of points whose polars with regard to these curves are copunctal.—Hessian of a surface (of the nth order), a surface of the 4(n.—2)th order, which passes through the double and the parabolic points of the original.

Hescale along See **Legue**

Hessle clay. See *clay.
hetæric (he-ter'ik), a. [Gr. ἐταιρικός, 〈 ἔταιρος or ἐταίρα, companion: see hetæra.] Of or pertaining to the hetæræ. Also hetairie.

Heteractidæ (het-e-rak'ti-dē), n. pl. [NL., & Heteractis + -idæ.] A family of actiniarian Zoantharia which have clavate knobbed tentaeles. It contains the genera Heteractis, Stauractis, Rhopalactis, Ragactis, and Eloactis.

heteractinid (het-e-rak'ti-nid), a. [Gr. ἐτερος, other, + ἀκτίς (ἀκτίν-), ray, + -id.] Having more than the usual (five) rays, as an eelinoderm, especially one of the genus Asterius.

Heteractis (het-e-rak'tis), n. [NL., ζ Gr. έτερος, other, + ἀκτίς (ἀκτιν-), ray.] The typical genus of the family Heteractidæ. Milne-Ed*cards*, 1857

wards, 1857.

Heterandria (het-er-an'dri-\(\bar{u}\)), n. [NL., \(\lambda\) Gr. \(\text{irrpoc}\), other, different, \(+\\delta\) in \(\text{irpoc}\), other, different, \(+\\delta\) in \(\text{irpoc}\), man (male).] A genus of very small killifishes which belong to the family \(\text{Pweiliidx}\). The males are very much smaller than the females, and the anal fin of the male is much modified, serving as an intromittent organ. \(H.\) formosa is common in Florida. It attains a length of a little more than half an inch, and is perhaps the smallest known vertebrate.

heterandrous (het-gr-an'drus), a. [Gr. ἐτερος, other, different, + ἀνήρ (ανδρ-), man, stamen, + -ous.] In bot, having stamens of two kinds as regards length or other characters.

genera Hertwigia and Trachycaulus.

Hertzian (hert'si-an), a. Of or pertaining to Heinrich Hertz, (1857-1894) the discoverer of electro-magnetic waves, or (specifically) to such waves.—Hertzian exciter. See *exciter.—Hertzian wave. See *wave1.

Herzegovinian (hert'se-gō-vin'1-an), a. and n.

[Herzegovina + -ian.] I. a. Of or pertaining to Herzegovina.

[NL < Gr *trenge different + sin true +

[NL., $\langle \text{Gr. } \hat{\epsilon} \tau \varepsilon \rho \rho c, \text{ different, } + \varepsilon \hat{\nu}$, true, + NL. Puccinia.] A group of species of fungi of the genns Puccinia, in which the nredospores and teleutospores are developed on one host and the spermogonia and æcidia on another.

and the spermogonia and Berlina on another.

heterism (het'e-rizm), n. [Gr. ἐτερος, other,
different, + -ism.] A general term for intraspecific differences of organisms not caused by
the environment. Diversified sexes and castes
are specializations of heterism. Cook and Swinale.

heterization (het/e-rī-zā/shon), n. [heterize + The act or process of heterizing or -ation. making other or different.

The estrangement, alienation or heterization of the individual from the whole and the ultimate reconciliation is well illustrated in sex love, which from the standpoint of intelligence seems the most personal thing in the world, but is really, when we penetrate the illusions, seen to be in every item dominated by the interest of the species.

Saunders and Hall, in Amer. Jour. Psychol., XI. 574.

heterize (het'e-rīz), v. t.; pret. and pp. heterized, ppr. heterizing. [Gr. êrepos, other, + -ize.] To make other or different; change.

heteroagglutinin (het/e-rō-a-glö'ti-nin), An agglutinin which will cause the coalescence of cells from an animal of an alien species: in contradistinction to *isoagglutinin.

heteroalbumose (het e-rō-al bū-mōs), n. A primary albumose which is very closely related to the original albumin from which it is derived. On standing it becomes insoluble in part and is then called dysalbumose. Heteroalbumose is an antibody, in the sense of Kühne, and is thus related to antipeptone. See *albumose and peptone.

heterobiophorid (het/e-rō-bī-of/ō-rid), n. See *biophorid.

One heteroblastically (het/e-ro-blas'ti-kal-i), adv.

of the Hesperornithidæ or Hesperornithes. In a heteroblastic manner. hesperornith (hesperornith), a. and n. [Hesperornis (-ornith-) + -oid.] I. a. Havother, $+\beta\lambda\alpha\sigma\tau\delta c$, germ, $+-y^3$] In embryol., other, $+\beta\lambda a\sigma\tau \delta c$, germ, $+-y^3$.] In embryol., the origin, in allied animals, of organs, similar in function and position, from different embryonic or germ layers.

Heterocardia (het/e-rō-kar'di-a), n. pl. [NL., Gr. $\hat{\epsilon}$ r $\epsilon \rho o c$, other, + $\kappa a \rho \delta (a$, heart.] A division of the gastroped *Mollusea* now regarded as equivalent to the suborder *Doeoglossa*; the

heterocarpous. Amer. Nat., Jan., 1904, p. 82.

heterocarpism (het-e-rō kär'pizm), n. [heterocarp(ous) + -izm]. The character of being heterocarpous.

heterocarpy (het'ë-ro-kar"pi), n. Same as \star heterocarpism.

heterocaseose (het "e-rō-kā' sē-ōs), n. The heteroalbumose derived from easein.

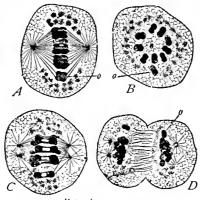
heterocerid (het-e-ros'e-ril). n. and a. A member of the coleopterous family Heter-

heterochlamydeous (het e-rō-kla-mid ō-us), a. [Gr. irepoc. different, $+ \chi \lambda a \mu i \zeta (\chi \lambda a \mu v \delta_{-})$, a cloak, + -cous.] In bot., dichlamydeous, with the inner whorl of a different color from the outer. It applies to the most normal type of floral envelop, in which the cally is green and the corolla of some other color. In plant development the heterochlamydeous stage succeeds the homochlamydeous.

heterochromatic (het #e-rō-krō-mat'ik), a.

To the terror of the terror o lights or color-sensations: as, heterochrome

brightness; heterochrome photometry. heterochromosome (het ''c-rō-krō'mō-sōm), n. [Gr. ε̂τερος, other, + E. chromosome.] In cytol.,



o. Heterochromosome. Maturation-divisions in an insect, Anasa.

A. primary spermatocyte in metaphase; B, equatorial plate, showing ten large tetrads and one small one, the heterochromosome, at o; C, separation of the dyads; D, telophase, which is also a prophase of the second division. (From Wilson's "The Cell.")

a modified chromosome differing in form, size, and presumably also in function from all the other chromosomes in the same nucleus. T. H. Montgomery, 1904.

heterochrosis (het e-rō-krō'sis), n. [NL., Gr. ετερος, ether. + χρόσις, eoloring.] Organic coloring which is different from that which prevails in the species; specifically, in ornith., an abnormal coloration of the plumage which may take the form of albinism, melanism, the intensification of the normal colors or, more rarely, the introduction of other colors.

heterochthon (het-e-rok thon), n. [NL., \langle Gr. êrepoc, other, $+\chi\theta\omega\nu$, earth.] That element of the fauna of a given region which is evidently derived by immigration from another region: contrasted with *autochthon, 3.

The parasitic worms of the holaretic region are not found with the indigenous (autochthon) mammals or birds, but only with the strangers (heterochthon) that immigrated at a late period.

Amer. Nat., May, 1903, p. 350.

heterocladic (het/e-rộ-klad/ik), α . [Gr. $\epsilon \tau \epsilon \rho o c$, other, + κλάδος, branch.] Noting an anastomosis between terminal twigs derived from different arteries: opposed to *homocladic.
heteroclinous (het e-rō-kli'nus), a. Same as

Heterocæla (het e-rō-sē'lā), n. pl. [NL., ζGr. ετερος, ether, + κοίλος, hollow.] A suborder of calcareous sponges in which the coldefined flagellated chambers. It contains the families Leucasidæ, Sycettidæ, Grantiidæ, Heteropidæ, and Amphoriscidæ. Compare *Homo-

heterocælous (het "e-rō-sē'lus), a. [Gr. ετερος,

other, + κοίλος, hollow.] 1. having the gastral layer discontinuous and restricted to chambers, as the *Heterocala*: opposed to *homocalous.—2. Having the ends of the vertebral centra concave in one plane and convex in the other, as the cervicals of birds; saddle-shaped; ephippie.

Both ends of each vertebra are saddle-shaped, . . . a condition which may be called *heterocarbons*.

Coucs, Key to North Amer. Birds, p. 138.

II. a. Of or belonging to the family Heter-heterocomplement (het e-rō-kem plē-ment), veridæ.

n. A complement furnished by an animal of a

Heterocotylea (het e-rō-cot-i-lē'ä), neterocotylea (het e-rō-cot-i-lō'ā), n. pl. [NL., ζ Gr. ἐτερος, other, + κοτί?η, enp.] An order of trematoids having one or several suckers at the posterior of suckers at the posterior end. 1t includes several families, among them the Polystomidæ, Gyrodactylidæ, and Microcotylidæ.

heterocyclic (het e-rō-sik'lik), a. [Gr. ετερος other, + κίκλος, circle.] In chem., of a substance the molecule is believed to consist of a ring or continuous chain of atoms, containing in such a ring atoms of more than a single element. Thus the molecule of pyridine consists of a ring of six atoms consecutively united with each other, five of these atoms being of carbon and one of nitrogen (each carbon atom having also a hydrogen atom attached to it)—thus:

Heterocyemida (het e-rō-sī-em'i-dā), n. pl. [NL., (*Heterocyema + -ida.] An order of [NL., \(\frac{*Heterocyema}{khombozoa} + ida. \)] An order of Rhombozoa in which the ectoderm of the adult is not ciliated and there is no polar cap, but at the anterior end the cetoderm cells contain refringent bodies and may give rise to four terminal wart-like papille. It contains the genera Conocycma and Microcycma, both parasitie in the renal sacs of cephalopods.

Heterocysteæ (het/e-rō-sis'tē-ē), n. pl. [NL., ⟨ Gr. ἐτερος, other, + κόστις, a bag, + -ex.] In bot., a suborder of the blue-green algæ characterized by the presence of heterocysts

in the gray matter of the brain or spinal cord. or connect a nerve-center with an end-organ. heterodiphycercal (het"e-rō-dif" i-ser' kal), a. [Gr. $\varepsilon \tau \epsilon \rho \sigma c$, other, $+ \delta \iota \phi \nu \eta c$, of double nature, $+ \kappa \epsilon \rho \kappa \sigma c$, tail, + -al.] In ichth., noting a form of the caudal fin in which the vertebral celumn is elengated in an upward curve and fringed above and below with fin-rays, but the

fringed above and below with nn-rays, but the rays of the upper lobe are much less developed than those of the lower.

heterodistyly (het*e-rō-dis'ti-li), n. [Gr. $\tilde{\epsilon}\tau\epsilon\rho\sigma_0$, ether, $+\delta\epsilon$, two, $+\sigma\tau\tilde{\nu}\lambda\sigma_0$, pillar (style), $+-u^3$.] In bot, that form of heterostyly in which same of the flowers have long filaments heteroicism, n. Same as heleræcism. heteroicism, n. Same as heleræcism. which some of the flowers have long filaments and short styles, and others short filaments and long styles.

sis between terminal twigs derived from different arteries: opposed to *homocladic. heteroclinous (het/e-r\(\tilde{\rho}\)-kli'nus), a. Same as heterocline.

Heterocœla (het/e-r\(\tilde{\rho}\)-s\(\tilde{\rho}\)-kizepoc, other, + κοίλος, hollow.] A suborder of calcareous sponges in which the collared cells are restricted to more or less well-defined flagellated chambers. It contains the families Leucasidæ, Sycettidæ, Grantiidæ, Heterocylidæ, and Amphoriscidæ. Compare *Homoa given character in ancestral inheritance. with the external world. (See *inheritance.) When the cross-bred offspring of two parental races or varieties produce descendants of clsc. See autokinesy. Cudworth.

which some are like one parental race, and others like the other, the parental races are said to be heterodynamous.

Correns proposes the terms "heterodynamous" and "homodynamous" to express that an organism is dominant or not dominant in respect of a given character.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902.

Heterodynamous determinant. See *determinant. heteroform (het'e-rō-fôrm), a. Relating to the heteroproteoses in contradistinction to the protoproteoses. C. E. Simon, Physiological Chem., p. 175.—Heteroform ferment. See *ferment.

heterogamic (het/e-rō-gam'ik), a. Same as heterogamous. Science, Oct. 7, 1904, p. 472. heterogamous, a. 2. Illustrative of or characterized by heterogenesis, or alternation of generations.—3. Of or pertaining to heterogamy, or the marriage or pairing of unlike individuals. dividuals.— Heterogamous mating. See *mating. heterogamy, n. 2. In biol., heterogenesis, or alternation of generations, considered as an alternation between sexual and asexual reproduction or between parthenogenesis and bi-sexual reproduction.—3. Marriage or mating or pairing between unlike individuals, as contrasted with homogamy, or the mating of like

heterogeneity, n. 2. A dissimilarity of strucheterogeneity, n. 2. A dissimilarity of structure in different parts of an organism.—Ithological heterogeneity, in geol., the commingling in glacial drift of materials derived from rock formations of different characters.—Physical heterogeneity, in geol., the mingling of unassorted constituents of unlike physical character: especially characteristic of glacial till where coarse and fine materials of all grades are deposited together in a mass. R. D. Satisbury, in Geol. Surv. of New Jersey, 1891, p. 48.

heterogenic (het erf.-jen'ik), a. Of other or different origin; characterized by heterogenesis.

with like.

geness.

heterogenicity (het e-rō-jē-nis'i-ti), n. [heterogenic + -ity.] The character of being heterogenic. Jour. Exper. Med., Nov. 29, 1901, p. 82.

heterogenite (het-e-roj'e-nīt), n. [heterogen-ic + -it-e^2.] A hydrated oxid of cebalt which occurs in black amorthous masses. It is derived from the alteration of smaltite.

heterogeny, n. 2. In biol., mixed parthenogenesis, the alternation of sexual and parthenogenetic generations. See normal *parthenogenesis.

heteroglobulose (het e-rō-glob ū-lōs), n. A heteroalbumese derived from a globulin.

heterognath (het'e-rō-gnath), a. and n. I. a. Of or pertaining to the suborder Heterognathi,

acterized by the presence (which see).

heterocytotoxin (het/e-rō-sī-tō-tek/sin), n. [Gr. ἐτερος, ether, + E. cytotorin.] A cytotoxin which will cause the destruction of cells from an animal of an alien species. Science, May 2, 1902, p. 697.

heterodermatous (het/e-rō-der/ma-tus), a. [Gr. ἐτερος, other, + ὀέρμα(τ-), skin, + -ous.] Having the skin of a different character in different parts of the bedy.

heterodesmotic (het/e-rō-des-mot'ik), a. [Gr. heterodesmotic (het/e-rō-des-mot'ik)]

A more important point, however, is the occurrence of heterogomph bristles at the inferior border of the upper series of bristles in the foot.

Annals and Mag. Nat. Hist., Sept., 1902, p. 256.

heterogone, a. II. n. A heterogoneus plant. heterogoneus, a. 2. In biol., characterized by indirect development, with metamorphosis or alternation of generations.

heterogony, n.-Law of the heterogony of ends.

heterography, n. 2. The writing of another word instead of the one intended by the writer:

heteroimmune (het e-rō-i-mūn'), a. Immune to cells or cell-products of an animal of a differ-

heterodontism (het e-rō-don'tizm), n. [heterodontism (het e-rō-don'tizm), n. [heterodontism (het e-rō-don'tizm), n. [heterodontism (het e-rō-don'tizm), n. [heterodontism (het e-rō-ki-nē'sis), n. [NL., don't e-rokinesis (het e-rokinesis (het e-rokinesis) (het e-rokinesis (het e-rokinesis))] ent species from the one which furnishes the are different from one another in their hereditary tendencies and in the history for which each is predestined. Bellef in heterokinesis is an essential part of Welsmann's view of the nature of inheritance, although some authorities believe there is experimental evidence that all cell-division is into parts that are essentially alike, and that the differences in their history are due to the presence or absence of food within them and to their interactions among one another and with the external world.

heterolalia (het/e-rō-lā'li-ā), n. [Gr. ἔτερος, other, + -λαλλα, ζ -λαλος, ζ λαλεῖν, talk.] A form of aphasia in which the words uttered

are not those in the mind of the speaker.

heterolateral (het e-rô-lat e-ral). a. [Gr. ετερος, other, + L. latus (later-), side, +-all.] Referring to opposite sides. Buck, Med. Handbook, II. 240.

heterolecithal (het e-rō-les i-thal), α. [Gr. ετερος, other, + λέκιθος, the yelk of an egg.] In embryol., having the food-yolk distributed unequally, as in telelecithal and perilecithal

eggs: opposed to *homolecithal. Baldwin, Diet. of Philos. and Psychol., I. 476. heterolith (het'e-rō-lith), n. [Gr. ἔτερος, other, + λίθος, stone.] A concretion in the intestinal tract of animals, not formed from mineral matter. Heteroliths are principally found in the stomachs of ruminants and are due to the accumulation of masses of hair and dry vegetable matter. See *hair-ball. heterologous, a. 3. In researches in immu-

heterologous, a. nity, originating, as cells or serum, from an animal of a species different from the one undergoing immunization: thus, in immunizing a rabbit with the red blood-corpuscles of a oat, the latter are of heterologous origin.

Heterologous determinant, id, tumor. See *de-

heterolysin (het-e-rol'i-sin), n. [heterolys-is + in the teroing sin (het e-rō 1-sin), π. [neteroings-1s τ 1505, p. 570. -in².] A lysin which will cause the destruction of cells of animals of an alien species: is, π. [ML., ζ Gr. ἔτερος, other, used in contradistinction to *isolysin or *homolysin.

NL. Nereis.] The sexual stage of some worms of the

heterolysis (het-e-rel'i-sis), n. [NL., ζ Gr. ετερος, other, + λίσις, dissolution.] The destruction of cells by heterolysins. See *autolysis. Vaughan and Novy, Cellular Toxins, p. 129.

heterolytic (het e-rō-lit'ik), a. [heterolysis (-lyt-) + -ic.] Of or pertaining to heterolysis or the heterolysins.

heteromaton (het-e-rom'a-ton), n. [Gr. ἔτερος, ether, + *ματός, moving, moved: see automaton.] A thing that is moved by something

heteromecic (het erō-mē'sik), a. [Gr. ἔτερος, other, different, $+\mu\eta\bar{\kappa}\kappa\sigma_{c}$, length.] Having different lengths (or values).—Heteromecic num-See *number.

heterometabolic (het/e-rō-met-a-bol'ik), a. Same as heterometabolous.

Heteromi (het-e-rō'mi), n. pl. [NL., ζ Gr. ετερος, other, different, + ωμος, shoulder, upper arm.] An order or suborder of fishes which comprises the Notacanthidæ and related families; eel-like fishes having a short girdle. inserted behind the head and spines in the dorsal fin.

Heteromonadidæ (het "e-rō-mō-nad'i-dē), n. pl. [NL., < *Heteromonas (-monad-), a genus (?), +-idæ.] A family of flagellate Protozoa which consists of small colorless monads having one or two accessory flagella in addition to the ehief flagellum. They are eften colonial upon a stalk. Reproduction is by longitudinal fission. Among the genera included are Monas, Dendromonas, and Anthophysa. Heteromonadina (het e-rō-mon-a-dī'nā), n. pl. [NL.] Same as *Heteromonadide.

heteromorph, n. 2. A decorative design representing a certain object, but modified in character by representing another object at the same time as for instance.

a minima neteronomy in so far as their modifications are under consideration. Heteronomy is the secondary, or adaptive, consideration of homonomy.

Heteronymous diplopta.

—Heteronymous images. See *timage. the same time, as, for instance, flower designs the branches of which represent animals.

I propose to adopt the term heteromorph for a confusion with one another of two or more different skeuemorphs, or with the amalgamation of any two or more blomorphs, or with the combination of any skenemorph with any blomorph.

Haddon, Evolution in Art, p. 192.

heteromorphic, a. 3. Of or pertaining to heteromorphism, in any sense of that word. T. H. Morgan, Regeneration, p. 24.

heteromorphism, n. (d) In biol.; the property of replacing lost parts by new parts which are different from those that have been lost. See *heteromorphosis. heteromorphosis. (het" e-rō-mōr 'fō-sis), n. [NL., \langle Gr. $\dot{\epsilon}\tau\epsilon\rho\sigma_{c}$, other, + $\mu\delta\rho\phi\omega\sigma_{c}$, formation.] In biol.: (a) The replacement of a lost near by a new part that \dot{e} different from the part by a new part that is different from the part that has been removed; neemorphosis.

The processes of heteromorphosis—that is, the transformation or substitution of one organ for a morphologically different one by means of certain external influences—force us to the same view.

J. Loeb, Compar. Physiol. of the Brain, p. 203.

part that has its axes reversed as compared with the old part of which it is a mirror image.

T. H. Morgan, Regeneration p. 25 T. H. Morgan, Regeneration, p. 25.

[Gr. ἔτερος, heteromorphous, a. 2. Same as *heteromor-

Heteromyidæ (het e-rō-mī'i-dē), n. pl. Heteromys, the type genus, +.idæ.] A family of rodents which comprises the kangaroo-rats. poeket-mice, and their allies. The name replaces Dipodidæ, which is not available. J. A. Allen, 1893.

Heteronemertini (het/e-rō-nē-mer-tī'nī), n. pl. [NL., ζ Gr. έτερος, other, + NL. Nemertini.] An order of nemerteans in which the lateral nerves are in the dermal muscles outside the circular muscles, and the body-wall consists of ectoderm, dermis, an outer longitudinal layer of muscles, a circular and an inner longitudinal muscular layer. It includes the families Eupoliidæ and Lincidæ. Compare *Protonemertini, *Mesonemertini, and *Metanemertini.

heteronephrolysin (het e-rō-nef-rol'i-sin), n. [Gr. ετερος, other, + E. nephrolysin.] A nephrolysin which is directed against the renal eells of animals of a different species.

heteronereid (het "e-rē-nē'rē-id), n. and a. I. n. A heteronereis.

II. α. Of or pertaining to a heteronereis: as, a heteronereid condition. Science, April 14, 1905, p. 570.

genus Nereis: so named on the erroneous supposition that they are of a distinct genus. Compare *heterosyllis.

Compare *heterosyllis.

In many species of Nerels, for instance, those segments containing the generative products undergo more or less extensive changes (at maturity) while the anterior ones remain unaltered. The body of the ripe Nereis is then distinguishable into an anterior non-sexual region and a posterior sexual region; and so great are these changes in certain species that the mature worms were for a loag time believed to belong to a different genus, and received the name Heteronereis.

Camb. Nat. Hist., II. 276.

heteronomous, a. 3. Subject to or governed by different principles or laws .- 4. ln zoöl., made up of dissimilar segments or metameres: said

of annelids or arthropods in which the various metameres differ in structure through the suppression of certain organs and the unusual development of others. Opposed to *homonomous.

heteronomously (het-e-ron'e-mus-li), adv. In a heteronomous manner.

a heteronomous manner.

heteronomy, n. 3. In biol., the state of divergent modification in parts that exhibit general homology or homonomy. When the serially homologous, or homonomous, segments of an aunelld are modified in different ways they may be said to exhibit heteronomy in so far as their modifications are under consideration. Heteronomy is the secondary, or adaptive,

 Heteronymous images, see πimage.
 heteroparthenogenesis (het erō-par then-ō-jen e-sis), n. [Gir. ἐτερος, ether, + NL. parthenogenesis.]
 1. That type of parthenogenesis in which the unfertilized eggs produce males and females: contrasted with *homopar-the production of only one see thenogenesis, or the production of only one sex from unfertilized eggs. Parthenogenetic female animals which produce both males and females are called sexupara. See normal *par-thenogenesis and *sexupara.—2. Mixed parthenogenesis, or the alternation of sexual and parthenogenetic generations. See normal parthenogenesis.

Heterophlebia (het/e-rō-flē/bi-ä), n. Heterophlebia (het e-rō-fle bi-ä), n. [NL., \langle Gr. $\epsilon r \epsilon \rho o c$, other, $+ \phi \lambda \epsilon \psi$ ($\phi \lambda \epsilon \beta$ -), vein.] A genus of fessil dragon-flies from the Jurassic lithographic slates of Bavaria.

heterophony (het-e-rof'o-ni), n. Same as heterophonia.

us to the same view.

J. Loeb, Compar. Physicl. of the Brain, p. 203.

When the new part is different from the part removed the process has been called by Loeb heteromorphosis.

T. H. Morgan, Regeneration, p. 24.

(b) The replacement of a lost part by want of similarity, as in color or in the directive heterostachyous (het/e-ro-sta/ki-us), a.

heterophyletic (het/er-o-fi-let'ik), a.

έτερος, other, + φυλον, tribe, family.] 1. Of or belonging to different groups.—2. In biol., different in aucestry, but alike in appearance; convergent; isomorphic.

A few fundamental characters are better indications of the affinities of a given group of birds than a great number of agreements if these can be shown to be cases of isomorphism or heterophyletic, convergent analogy.

Encyc. Brit., XXVI. 255.

Heteropia (het-e-rē'pi-ii), n. [NL., $\langle Gr. \hat{\epsilon}\tau\epsilon-\rho o\varsigma$, other, $+ \dot{\omega}\psi$ ($\dot{\omega}\pi$ -), eye, face.] The typical genus of the family Heteropidæ. Carter,

Heteropidæ (het-e-rop'i-dē), n.pl. [NL., < Heteropia + -idæ.] A family of heterocœlus Calcarea which have a poriferous dermal cortex and subdermal sagittal triradiate spicules: an articulate chamber skeleten may or may not be present. It contains the genera Heteropia, Grantessa, and Vosmæropsis.

heteroplasm (het'c-rō-plasm), n. [Gr. ετερος, other, + πλάσμα, anything formed.] Any heterologous tissue. See heteroplasia. heteroplastid (het"e-rō-plas'tid), n. [Gr. ετερος, other, + Ε. plästid.] An organism consisting of numerous cells differing from one another in structure. another in structure: opposed to *homoplastid. heteroplasty (het'e-rō-plas"ti), n. [Gr. $\varepsilon \tau \epsilon \rho \rho \rho c$, other, $+\pi \lambda a \sigma \tau \delta c$, $(\pi \lambda a \sigma \sigma \epsilon c c)$, form.] 1. A surgical operation, for the restoration of a lost part, in which the new skin or other tissue is taken from another individual. - 2. Abnormal formation of tissue; heteroplasia.

heteropodal (het-e-rop'ō-dal), a. In neurol., of or pertaining to nerve-cells which have branches or processes of different kinds: opposed to *homoiopodal. Bo Philos. and Psychol., II. 155. Baldwin, Diet. of

Heteropolar dynamo, a generator or motor the armature windings of which in revolving pass successively poles of opposite magnetization.

Heteropora (het-e-rop' \bar{o} -rä), n. [NL., \langle Gr. $\bar{e}\tau\bar{e}\rho\sigma_{c}$, other, $+\pi\dot{o}\rho\sigma_{c}$, a pore.] A genus of cyclostomatous Bryozoa of the family Cerioporidx which have ramese or massive zoaria, zoœcia with rounded apertures, and abundant interstitial tubes. It abounds in the Jurassic and Cretaceous rocks and has existed to the present time.

heteroproteose (het e-rō-prō'tē-ōs), n. [Gr. ετερος, other, + E. proteose.] A heteroalbumose derived from any albumin in the narrower sense of the term. See *proteose and \star albumin.

It appears that the hetero-proteose molecule is about five or six times the size of the molecule of proto-proteose.

Encyc. Brit., XXXI. 720.

heterorhabdic (het e-rō-rab'dik), α. [Gr. ετε- $\rho o c$, other + $\dot{\rho} \dot{a} \beta \delta o c$, a rod.] Having the gill-filaments unlike in size, as in certain mollusks. Compare *homorhabdic. Lankester.

Compare *homorhabdic. Lankester.

The filaments of the same gill-lamella may be arranged in a flat, uniform series, or the lamella may be thrown into vertical folds or plice. . . The filament that occuples the bottom of the depression between two successive plice of a plicate lamella is in most species of greater size than the others. It will be spoken of as the principal filament, the others as ordinary filaments. Homorhabdic gills are those with all the filaments slike; heterorhabdic gills are those which exhibit the above-mentioned differentiation into principal and ordinary filaments.

Philos. Trans. Roy. Soc. (London), 1903, ser. B, p. 154.

heteroscope (het'e-rō-skop), n. [Gr. ἐτερος, other, + σκοπείν, view.] An instrument for determining the degree of heteroscopy. Optical Jour., March, 1904, p. 351.

heteroscopy (het-e-ros'kō-pi), n. [Gr. ετερος, other, + -σκοπία ζ σκοπεῖν, view.] Inequality of vision in the two eyes.

heterosexual (het e-rō-sek sū-al), a. [Gr. ἐτε-ρος, other, + L. sexus, sex, + - all.] Relating to the opposite sex. Buck, Med. Handbook, V. 134.

Heterosporium (het erō-spō'ri-nm), n. [NL. (Klotzseh, 1832), Gr. ετερος, other, + σπορά, seed (spore).] A genus of hyphomycetous fungi. They have short simple or branched conidiophores, usually forming a layer on the surface of the matrix, and the spores are dark-colored, 3- or more celled, and roughened with warts or spines. Some species are regarded as the cause of plant-diseases. H. echinulatum, a widely distributed species, is said to cause the fairy-ring spot of carnations.

heterospory (het-e-res'pō-ri), n. [heterosporous + -y3.] The condition of being heterosperous.

έτερος, other, + στάχυς, an ear or spike of eorn, + -ous.] In bot., having the flowers bisexnal and the sexes in different spikes: said of species of Carex.



Male Heteronereis of Nereis pelagica. A, non-sexual region; B, sexual, modified region. Natural size. (From "Cambridge Natural History.")

Where a species with normally gynacandrous spikes appears as inseparable from others which are truly heterostachyous.

Amer. Jour. Sci., Dec., 1903, p. 452.

Heterosteus (het-e-ros'tē-us), n. (NL., \langle Gr. $\varepsilon\tau_{\tau,\rho\rho\epsilon}$, other, + $\delta\sigma\tau_{\varepsilon}\rho\nu_{\epsilon}$, bone.] A genus of arthrodirous fishes of very large size, similar to Homosteus, but with enormous anterior processes on the dorsolateral body-plates. It occurs in the Upper Devonian.

Heterostichus (het-e-ros'ti-kus), n. Gr. ετερος, other, + στίχος, line.] A genus of blennies found on the coast of California. They are characterized by the scaly body and forked tall. heterostracan (het-e-ros'tra-knn), a. and n. I. a. Of or pertaining to the Heterostraci.

II. n. One of the Heterostraci.

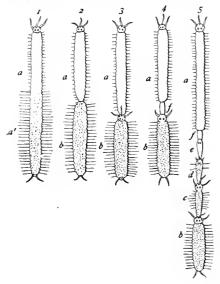
Heterostraci (het-e-ros'tra-sī), n.~pl.~ [NL., \langle Gr. $\hat{\epsilon}\tau\epsilon\rho\rho\sigma$, other, $+\hat{\sigma}\sigma\tau\rho\alpha\kappa\sigma$, shell.] An order of ostracodermons fishes. They have an exoskeleton of shagreen, plates or scales without bone-cells, each plate consisting of three layers, and bodies without paired spendares. They are all of Paleozoic age.

Heterostraci (het-e-rot'ō-nus), a.~ [Gr. $\hat{\epsilon}\tau\epsilon\rho\sigma\varsigma$, of scales or other, $+\tau\sigma\nu\sigma$, tone.] In music, of scales or ehords, having tones that are unlike. heterotristyly (het/e-ro-tris'ti-li), n.~ [Gr. $\hat{\epsilon}\tau\epsilon\rho\sigma\varsigma$, other, $+\tau\rho\iota$, three, $+\tau\tau\nu\lambda\sigma\varsigma$, pillar(style),

heterostracous (het-e-ros'tra-kus), a. Having the structure of or pertaining to the Hetero-

heterostylous (het-e-ro-stī'lus), a. Same as heterostyled.

heterostyly (het-e-ro-stī'li), n. Same as het-



Heterosyllis.

Heterosyllis.

Diagram illustrating the various stages in the asexual formation of a chain of zoōids. (Modified from Malaquin.)

1, heteronereid or heterosyllid stage; a, non-sexual, a', sexual region of the body, with modified parapodia. 2, Syllis, the hinder sexual region; b is similarly modified, and will separate from the parent zoōid, a, and become an independent zoōid, a, hololytus; the hinder zoōid, b, develops a head by budding before separation. A Autolytus, etc.; a zone of budding, f, makes its appearance in front of the head of b, and by its growth will give rise to a series of new segments in the middle of the body. 5, Myrianida, Autolytus, etc. From the zone of budding, f, a very large number of segments have been formed, which have, further, become grouped so as to form three individuals, c, d, e, b is the hindmost zooid, which is either formed from the hinder segments of the parent zooid or is produced by budding, like c, d, e, (From Cambridge Natural History.)

In some genera [of the family Syllidæ], there occur changes quite similar to those characterising "Heterone-reis"—that is, the posterior segments in which the genital organs exist become altered, so that the worm consists of two distinct regions, and is termed a "Heterosyllis." Camb. Nat. Hist., 11. 278.

heterotelic (het/e-rō-tel'ik), a. [Gr. ἔτερος, other, + τέλος, end.] Directed upon or subserving an external or foreign end: opposed to *autotelie. Psychol., I. 96. Baldwin, Diet. of Philos. and

heterothallic (het'e-rō-thal'ik), a. [Gr. ἐτερος, other, + θαλλός, sprout, shoot, + -ic.] Having the zygospores formed only as the result of the conjugation of hyphæ from two different

strains: said of zygospore-forming plants. **heterotherm** (het'e-rō-therm), n. [Gr. $\hat{\epsilon}\tau\epsilon\rho\sigma_{c}$, other, $+\theta\epsilon\rho\mu\eta$, heat.] A cold-blooded animal, or one whose bodily temperature differs little from that of the surrounding medium and charges with it. changes with it.

heterothermal (het/e-rō-ther/mal), a.

ture of the environment; pæeilothermal: said of cold-blooded animals such as reptiles. Opposed to *hom@othermal.

heterothermic (het e-rō-ther'mik), a. [As heterotherm + -ic.] 1. Noting a condition of water, air, or other liquid in which warm and dry air are very much mixed without having had time to come to an equilibrium.—2. Of or pertaining to heterotherms or cold-blooded animals; cold-blooded.

Another class of organisms, representatives of which are never found among birds or mannials, are called heterothermic—cold-blooded—animals; creatures of variable temperature, since, in their normal physiological state, their individual temperature follows closely the changes in the atmosphere about them.

Smithsonian Rep., 1890, p. 407.

other, $+\tau \acute{o} roc$, tone.] In music, of scales or ehords, having tones that are unlike. heterotristyly (het $^{\prime\prime}$ e-r\hat{0}-tris'ti-li), n. [Gr. $^{\prime\prime}$ e $\tau e \rho o c$, other, $+\tau \rho \iota$ -, three, $+\sigma \tau \ddot{\nu} \lambda o c$, pillar (style), $+ \cdot y^3$.] That form of heterostyly in which there are three kinds of flowers, namely, those having a long style with medium and short stamens, those having a medium style with long and short stamens, and those having a short style with long and medium stamens.

erostylism. **Heterosyllis** (het erō-sil'is), n. [NL., Gr. heterotrophic (het r-rō-trof'ik), a. [Gr. ετερος, other, + Syllis.] See the extract.

Not self-sustaining; dependent upon others for food. Since all animals depend, either immediately or ultimately, upon plants for food, they are sometimes termed heterotrophic, in contrast with the autotrophic or self-sustaining plants. See *autotrophic.

The root-difference between plants and animals is one of nutrition. Plants are autotrophic, animals hetero-

trophic.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 820.

heterotropia (het/e-rō-trō/pi-ā), n. [NL., ζ Gr. έτερος, other, + τρόπος, a turning, ζ τρέπειν, turn.] In ophthalmol., strabismus or squint.

turn.] In ophthalmol., strabismus or squint. Optical Jour., March, 1904, p. 348.

heterotropy (het-e-rot'rō-pi), n. [Gr. ἐτερος, other, + -τροπια, ζ τρέπειν, turn.] In embryol., same as *anisotropy, 2 (which see).

heterotype (het'e-rō-tip), a. [Gr. ἐτερος, other, + τίπος, typc.] Ot a different type or of different types.—Heterotype division or mitosis, that form of mitotic r karyokinetic cell-division in which the chromosomes undergo a precocious longitudinal splitting and form more or less regular rings. Flemming, 1887.



Heterotype Division in Spermatocytes of Salamander. \mathcal{A} , first division in metaphase, showing heterotype rings; \mathcal{B}_* anaphase, longitudinal splitting of the daughter-loops. (From Wilson's "The Cell.")

heterotypic (het/e-rō-tip'ik), a. [Gr. ετερος, other, different, + τυπικός, typical.] Relating to the first nuclear division occurring after mitapsis: so called because it is strikingly different from the ordinary mitoses (nuclear divisions). Cook and Swingle.

heterotypical (het e-rō-tip'i-kal), a. as *heterotypic.

as *heterotypic.
heteroxanthin (het/e-rok-san'thin), n. [Gr. ετερος, other, + E. xanthin.] A xanthin derivative, C₆H₆N₄O₂, which contains one methyl group. It has been found in the urine.
heterozetesis (het-e-rō-zō-tō'sis), n. [NL., ζ Gr. ετερος, other, + ζητησις, seeking, inquiry, investigation.] The confusion of what one has really record with a different proposition.

has really proved with a different proposition; the opinion that one has proved what one has not proved: a fault of logic substantially the

not proved: a fault of logic substantially the same as an ignoratio elenchi. G. S. Hall, Adolescence, II. 533.

heterozonal (het/e-τō-zō'nal), a. [Gr. ἔτερος, other, + ζώνη, belt (zone), +-al.] Belonging to different zones: said of the faces of a crystal. Compare tautozonal.
heterozygosis (het/e-τō-zō-zō-gō-śɔ-ɔ)

heterozygosis (het/e-rō-zi-gō/sis), n. [NL., \(\lambda \) heterozyg(ote) + -osis.] Development from a heterozygote.

Special attention has been given to the illustrations of reversion following heterozygosis.

W. Bateson, Exper. Studies, II. 4.

animal or plant which combines the characters of two dissimilar parents; a mule-form.

Consequently if Aa's breed together, the new A gametes may meet each other in fertilization, forming a zygote AA, namely, the pure A variety again. Similarly two a gametes may meet and form aa, or the pure a variety again. But if an A gamete meets an a, it will once more form Aa, with its special character. This Aa is the hybrid or "nmle" form, or, as I have elsewhere called it, the heterozygote, as distinguished from AA or aa the homozygotes. homozygotes, W. Bateson, Mendel's Prin. of Heredity, p. 23.

Of or pertaining to a fertilized egg, or to origin from a fertilized egg, which is formed by the union of two opposite allelomorphic germ-cells: as, heterozygote characters. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, I. 127.

heterozygous (het/e-rō-zī'gus), a. [Gr. ἐτερος, other, + ζυγόν, yoke.] 1. Of or pertaining to other, $+\zeta v_j \delta v_j$ yoke.] 1. Of or pertaining to germ-cells with opposite allelomorphic characters. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, I. 147.—2. Of or pertaining to characters which will not become fixed or

constant under continual selection.—Heterozygous forms, certain forms which, as has long been known to breeders, cannot be fixed by selection. heth (ċhāt, ċhāth), n. [Heb. hēth, hēt. From the corresponding Phen. name was derived the name of the Greek ½7a, used for long E.] The eighth letter (\$\pi\$) of the Hebrew alphabet, cervesponding in sound to the Scotth oh in lock responding in sound to the Scotch ch in loch.

Its numerical value is 8.

hether, n. A simplified spelling of heather. hetocresol (het-ō-krē'sōl), n. [Gr. ἔτερος, other, + E. cresol.] A non-poisonous crystalline compound, the cinnamic acid ester of metacresol: used in treatment of tuberculosis.

hetol (hē'tōl), n. [Appar. $\langle hc(c)t(ic) + -ol.$] Cinnamate of sodium, a remedy which has been used in the treatment of tuberculosis.

Hettangian (he-tan'ji-an), a. Of Hettange in Luxemburg: applied, in gcol., to a stage of the Lias in France and Switzerland which lies at the base of the series. The rocks are marls, sandstones, and limestones which abound in invertebrate fessils and remains of ferns and eyeads.

heubachite (hoi'bach-īt), n. [Named from (G.)
Heubachthal in Baden.] A hydrated oxid of cobalt and nickel occurring as a black incrustation on barite.

heumite (hā'öm-īt), n. [Heum, in Norway, + -ite².] In petrog., a name given by Brögger (1898) to a dark-colored aphanitic rock without phenocrysts, composed of abundant sodaorthoclase or soda-microcline and barkevikite, with considerable biotite and a small amount of nephelite, sodalite, and diopside, and acces-

sory minerals. heuristic, a. II. n. Same as heuretic.

Many analogies of this change are, and more may be, drawn from the metamorphosism of insects, and here bloiogy supplies the best heuristic.

G. S. Hall, Adolescence, 11. 331.

Heuskara (hūs-kä'rä), n. Another form of Euskara (the Basque language).

Heuskarian (hūs-kä'ri-an), a. and n. Another

form of Euskarian.

heveene (hē'vē-ēn), n. [Hevea + -ene.] An amber-yellow oil, C₁₅H₂₄, belonging to the sesquiterpenes; the least volatile product of the destructive distillation of caoutchouc and

gutta-percha. It boils at 255-265° C. heven, n. A simplified spelling of heaven, hevy, a. and n. A simplified spelling of heavy. Hewers of wood and drawers of water, persons who perform the humblest kind of work; drudges; slaves.

And the princes said unto them, Let them live; but let them be hevers of wood and drawers of water unto all the congregation.

Joshua lx. 21. congregation.

hex-, hexa-. [Gr. $\xi\xi$, in comp. $\xi\xi a$ -, six.] In chem., in compound words, signifying the presence of six atoms of an element or six molecules of a compound.

hexabasic (hek-sa-bā'sik), a. [Gr. $\tilde{\epsilon}\tilde{\xi}$, six, + $\beta \tilde{a}ag$, base, + -ic.] Having a basicity of six; capable of combining with a proportion of base or metal equivalent to six atoms of hydrogen. hexacanth (hek'sa-kanth), a. [Gr. εξ, six, + aκανθα, thorn.] Having six hooks: as, the hexacanth embryo of some tapeworms.

hexacanthous (hek-sa-kan'thus), a. Same as

With the others the (heterotherms) there is a temperature which is correspondingly low.

Smithsonian Rep., 1900, p. 412.

heterothermal (het/e-rō-ther/mal), a. [Gr. ἐξερος, other, + Ε. zygote.] I. n. 1. A zygote terpoς, other, + θέρμη, lieat, +-al.] Having blood which varies in temperature with the tempera
Special attention has been given to the inustrations of reversion following heterozygosis.

W. Bateson, Exper. Studies, II. 4.

Hexacarbon (hek-sa-kär'bon), a. [Gr. ἐξ, six, + Ε. earbon.] Containing six carbon atoms.

Hexacarbon (hek-sa-kär'bon), n. pl. [NL., έτερος, other, + Ε. zygote.] I. n. 1. A zygote (Gr. ἐξ, six, + κέρας (κερατ-), horn, + -ina².]

έτερος, other, + θέρμη, lieat, +-al.] Having blood formed by the union of two unlike gametes.

Hexacarbon (hek-sa-kär'bon), a. [Gr. ἐξ, six, + Ε. earbon.] Containing six carbon atoms.

(Gr. ἐξ, six, + κέρας (κερατ-), horn, + -ina².]

An order of ceratose sponges proposed by Lendenfeld to contain the families Aphyvillidæ

+ E. chlorid.] In chem., a compound containing six atoms of chlorin united to a more electropositive element or radical: as, tungsten hexachlorid (WCl6). Jour. Soc. Chem. In dustry, XI. 599.

hexachordal (hek-sa-kôr'dal), n. [hexachord + -al¹.] Pertaining to or consisting of hexa-

chords

hexacid (heks-as'id), a. [Gr. \(\xi\)5, six, + E. acid.]
Used, in contrast with \(\pi\)hexabasic, to denote that a substance is capable of combining with hexahydrate (hek-sa-hī'drāt), n. [Gr. $\xi\xi$, six, six equivalents of an acid.

hexacompound (hek-sa-kom'pound), n. compound containing six similar atoms or

groups.

hexacontahedron (hek "sa-kon-ta-hē'dron), n. [Gr. εξήκοντα, sixty, + εδρα, seat, base.] A selid of sixty sides.— Deltoidal hexacontahedron, a 60-faced solid, formed by a deltoidal bossing of the icosahedron and reciprocal to the small rhombicosidodecahe-

Hexacrinus (hek-sak'ri-nus), n. [NL., \langle Gr. $\hat{\epsilon}\xi$, six, $+\kappa\rho i vov$, a lily (see crinoid).] A genus Hexacrinus (hek-sak'ri-nus), n. of camerate Crinoidea belonging to the family Hexacrinidæ. It is characterized by three basal plates and five very large and elongate radials with a similar analplate. It is found in the Devonian of Europe and North plate. It America.

hexact, a. II. n. Same as *hexactine.

hexactine (hek-sak'tin), n. [Gr. έξ, six, + άκτίς (άκτιν-), ray.] In the nomenclature of the spicular elements of sponges, a six-rayed or triaxial form typically expressed as six arms at right angles to one another. The hexactine is the fundamental form in the silicious skeletons of the Hexactinellida and is susceptible of modification into a vast variety of shapes, anchors, umhels, pine-trees, fisb-hooks, ro-settes, etc. The fusion of the arms of adjacent hexactinea produces a latticed supporting skeleton in some orders of Hexactinellida.

hexactine (hek-sak'tin), a. [For *hexactinine, < Gr. $\xi\xi$, six, + $\delta\kappa\tau ic$ ($\delta\kappa\tau i\nu$ -), ray, + -ine1.] 1. Having six rays: same as hexactinal.—2. Having the characters of or pertaining to a hex-

actine.-3. Hexactinellidan.

hexactinellidan (hek-sak-ti-nel'i-dan), a. and n. I. a. Pertaining to or characteristic of the Hexactinellida.

II. n. Any sponge of the order Hexactinel-

hexactinian (hek-sak-tin'i-an), a. and n. I. a. Pertaining to or having the characters of the Hexactinia; having six mesenteries or tenta-eles, or a multiple of that number, as some anthozoans.

II. n. Any anthozoan of the group Hexac-

hexad. I. n. 3. A hexagon.

Given two opposite points of a regular hexad (namely, the corners a₁, a₄, of a regular hexagon).

Harrness and Morley, Analytic Functions, p. 25.

II. a. Having a combining power equivalent to six times that of hydrogen. Same as hexavalent and sexivalent.

hexadecane (hek-sa-dek'ān), n. [Gr. έξ, six δέκα, ten, +- ane.] A colorless compound, CH3 (CH₂)₁₄CH₃, contained in petroleum. It forms pearly lustreus leaflets, which melt at 19-20° C. and boil at 287.5° C. Sometimes called

heradecoic (hek sa-de-kõ'ik), a. [Gr. εξ, six, + δέκα, ten, + -o-+-ic.] Containing sixteen carbon

atoms. — Hexadecoic acid. Same as palmitic acid. hexadecyl (hek-sa-dő'sil), n. [Gr. $i\xi$, six, + $\delta \ell \kappa a$, ten, + - yl.] The radical $C_{16}H_{33}$. It is derived from hexadecane, and is also called

hexadecylic (hek sa-dē-sil'ik), a. [hexadecyl + -ic.] Pertaining to hexadecyl or hexadecane. hexadrachm (hek' sa-dram), n. [Gr. $\dot{\epsilon}\xi\dot{a}\delta\rho a\chi\mu\sigma_{\varsigma}$, of the value of six drachmas, $\langle \dot{\epsilon}\xi, \sin, + \delta\rho a\chi\mu\dot{\eta},$

drachma.] An ancient Greek geld coin of the value of 6 drachmas.

hexaedral (hek-sa-ē'dral), a. See hexahedral. hexagon, B.—Brianchon hexagon, a hexagon circum-scribed about a conic. See hexagram, 2.—Lemoine hex-agon, the hexagon whose vertices are the 6 intersections with the sides of a triangle of the parallels to the sides drawn through the symmedian point (the Lemoine point K).—Pascal hexagon, a hexagon inscribed in a conic. See hexagram.

Hexagonal number. See *number. hexagonite (hek-sag'ō-nīt), n. [hexagon + -ite².] A pink variety of tremolite from St. Lawrence ceunty, New York, supposed at first table and the second species. It contains a to be a new hexagonal species. It contains a small amount of manganese.

and Halisarcidæ. It includes sponges with large and saccular ciliated chambers with simple canals, the skeleton composed of soft horry fibers, sometimes accompanied by horny spicules. The skeleton may be absent. hexachlorid (hek-sa-klō'rid), u. [Gr. \$\varepsilon \varepsilon \vareps

Hexagramminæ (hek "sa - gra - mī' nē), n. pl.

[NL., \(Hexagramminæ \) (hek "sa - gra - mī' nē), n. pl.

[NL., \(Hexagramminæ \) Hexagrammos \(+ \frac{1}{2} \) in m.

[NL., \(Hexagramminæ \) Hexagrammos \(+ \frac{1}{2} \) in m.

[NL., \(Hexagramminæ \) Hexagrammos \(+ \frac{1}{2} \) in m.

[NL., \(Hexagramminæ \) Hexagrammos \(+ \frac{1}{2} \) hexagrammos \(+ \frac{1}{2

+ -ite².] A meteoric iron having a cubic or hexahedral structure and cleavage. Iron meteorites of this class are much less common than the octahedrites. See *metcorite.

the hydrogen + atel.] In chem., a compound hexastigm (hek'sa-stim), n. [Also hexastim; containing six molecules of water, as crystalized calcium chlorid or calcium chlorid hexastigm of 6 dots, that is, a system of 6 coplanar containing six molecules of water, as crystal-lized calcium chlorid or calcium chlorid hexahydrate (CaCl₂,6H₂O). hexahydrated (hek-sa-hī'drā-ted), a. In

chem., containing six molecules of water, as the mineral carnallite, which is hexabydrated petassium-magnesium chlorid (KCl.MgCl₂, 6H₂O). G. Lunge, Sulphuric Acid, II. 44.

hexahydrocarvacrol (hek'sa-hī-drō-kär'va- hexastylic (hek-sa-stil'ik), a. [hexastyle + -ie.] krol), n. [Gr. $\dot{\epsilon}$ 5, six, + E. $h\ddot{y}dro(yen)$ + earva- Same as hexastylar.

crol.] A colorless oily compound, CH₃C₆H₉ (C₃H₇)OH, formed by the action of hydro-

gen on carvacrol. It beils at 220° C. hexahydrothymol (hek sa hī-drō-tī'mol), n. [Gr. $\dot{\epsilon}\dot{\xi}$, six, + E. hydro(gen) + thymol.] compound, CH₃, C₆H₉(C₃⁴H₇)OH, formed by the action of hydrogen on thymol. It closely resembles hexahydrocarvacrel in properties.

hexaicosane (hek-sa-ī'kō-sān), n. [Also hexeikosane, and erroneously called hexaeosane, hexakosane; Gr. έξ, six, + είκοσι, twenty, + -are.]
A soft, waxy compound, C₂₆H₅₄, closely resembling paraffin. It melts at 44° C.
hexakisoctahedral (hek "sa-kis-ok-ta-hē'-dral)

dral), a. See *hexoctahedral.

hexakistetrahedral (hck/sa-kis-tet-ra-hē'dral), a. Of or pertaining to a hexakistetrahedron: same as *hexatetrahedral.

hexakistetrahedron (hek "sa-kis-tet-ra-hē'dron), n. [Gr. $\dot{\epsilon}\dot{\epsilon}\dot{a}\kappa r$, six times, $+\tau\dot{\epsilon}\tau\rho a$. four, $+\ddot{\epsilon}\dot{\delta}\rho a$, base.] In crystal., the hemihedral form of the hexakisoetahedron; same as hexatetrahedron.

hexakosane, n. See *hexaicosanc.

hexaldehyde (hek-sal'dê-hid), n. [Gr. êξ. six, + E. uldehyde.] A colorless liquid, CH₃(CII₂)₄ CHO, prepared by the distillation of a mixture of calcium formate and calcium caproate. It boils at 128° C. Also called hexyl aldehyde,

caproie aldehyde, and hexanal.

hexamere (hek'sa-mēr), n. [Gr. έξ, six, + μέρος, part.] In the nomenclature of the skeletal parts of reticulate sponges, or Dictyonal description and the skeletal parts of reticulate sponges, or Dictyonal description and the skeletal parts of reticulate sponges, or Dictyonal description and the skeletal parts of reticulate sponges, or Dictyonal description and the skeletal parts of the skeletal parts of reticulate sponges, or Dictyonal description and the skeletal parts of the skeletal parts of the skeletal parts of the skeletal parts of reticulate sponges, or Dictyonal description and the skeletal parts of the skeletal spongidæ, a reticulum mesh of the sixth order.

hexamerism (hek-sam'e-rizm), n. [hexamer-ons the organs arranged according to the number six or to a multiple of that number, as in some anthozoans, especially corals. Science, July 17, 1903, p. 80.

Hexameroceras (hek sam-e-ros e-ras), n. [Gr. εξαμερής, of six chambers, + κέρας, horn.] A Silurian genns of nautiloid Cephalopoda, belonging to the family Trimeroceratidae, and characterized by having six lateral sinuses in the aperture.

hexamethylated (hek-sa-meth'i-lāt-ed), p. a. [Gr. £5, six, + E. methyl + -ate¹ + -ed².] Containing six methyl groups or radicals. Buck, Med. Handbook, Vl. 785.

hexamethylene (hek-sa-meth'i-len), a. [Gr. $\dot{\epsilon}\xi$, six, + E. methylene.] Containing six methylene (CH₂) groups.

hexanephric (hek-sa-nef'rik), a. [Gr. εξ, six, + νεφρός, kidney.] Having six Malpighian vessels, as nine of the orders of insects.

sels, as nine of the orders of insects.

hexaped (hek 'sa-ped), n. [Gr. εξ, six, + L. pes (ped-), foot.] See hexapod.

hexaphase (hek 'sa-fāz), a. [Gr. εξ, six, + φάσες, phase.] Having six phases: said of certain types of alternating currents.

hexapodal (hek-sap'ō-dal), a. [hexapod +-all.]

Same as hexapodous.

hexaprotodont (hek-sa-prō'tō-dent), a. [Gr. $\tilde{\epsilon}\xi$, six, $+\pi\rho\tilde{\omega}\tau c_{\xi}$, first, $+\tilde{\omega}\delta\phi\epsilon$ (odo $v\tau$ -), tooth.] Having six lower incisors; resembling or having the characters of Hexaprotodon, a genus of extinct hippopetamuses distinguished by the presence of six lower incisors.

The lily has the same regular typical form as the hexa-

 $\alpha\rho\chi\dot{\eta}$, beginning (used for a vascular strand). . a. Having six strands: as, a hexarch stele. II. n. In bot., a stele which has six plerome strands.

hexahemeron (hek-sa-hem'e-ron), n. Same hexasepalous (hek-sa-sep'a-lus), a. [Gr. $\tilde{\epsilon}\xi$, as hexaëmeron. Same hexaemeron, sepal, t-ous.] In bot.,

having six sepals.

points, with all the ranges they determine (connectors).

In a hexastim there are 15 connectors and 45 codots. In hexagram there are 15 fans and 45 diagonals. Merriman and Woodward, Higher Mathematics, p. 77.

hexasulphid, hexasulphide (hek-sa-sul'fid, or -fid), n. [Gr. $\dot{\epsilon}\dot{\xi}$, six. + E. sulphid.] In ehem., a compound containing six atoms of sulphur, as triphosphorus hexasulphid (P₃S₆).

hexatetrahedral (hek "sa-tet-ra-hê'dral), a. Of or pertaining to a hexatetrahedron or the class of crystals of which it is the characteristic form. See *symmetry, 6.

hexavalency (hek-sav'a-len-si), n. [Gr. έξ. six, + E. valency.] In chem., valence or valency equivalent to that of six monad atoms, as of hydrogen. W. Ramsay, in N. Y. Sun, Dec. 30, 1900.

hexazane (hek-saz'ān), n. [Gr. $\hat{\epsilon}\xi$, six, + E. az(ote) + -ane.] Samo as piperidine.

hexazene (hek-saz'ēn), n. [Gr. $i\xi$, six, + E. az(ote) + -ene.] A colorless liquid, NH<CH₂.CH₂>CII₂, which decomposes when

boiled. Also called tetrahydropyridine and piperideine.

hexeikosane, n. See *hexaicosane.

hexene (hek'sēn), n. [Gr. $\dot{\epsilon}\dot{\xi}$, six, +-cnc.] A colorless, liquid, elefinic compound, $\mathrm{CH_3}(\mathrm{CH_2})_3$ CH: CH₂, which boils at 68-70° C. It is prepared from hexyl chlerid and is homologous with ethylene. Also called hexylene and normal butulethulene.

hexine (hek'sin), n. [Gr. $\dot{\epsilon}\dot{\xi}$, six, +-inc².] A colorless unstable liquid, CH₃,C: C(CH₂)₂CH₃, which boils at 83-84° C. It is prepared from hexylene bromide and is homologous with acetylene. Also called methyl normal propylacetylene.

hexiodide (hek-sī'ō-did), n. [Gr. $\xi\xi$, six, + E. nongidæ, a reticulum mesh of the sixth order. iodide.] In chem., a compound containing six samerism (hek-sam'e-rizm), n. [hexamer-ons atoms of iodine: as, sulphur hexiodide (SI₆).

-ism.] The condition or state of having hexite (hek'sīt), n. [Gr. $\tilde{\epsilon}\xi$, six, +-ite².] An alcohol, such as mannitel, containing six hydroxyl groups. The compounds are some-times termed hexahydric alcohols and hexacid alcohols.

hexobiose (hek-sō-bi'ōs), n. [Gr. εξ, six, + E. biose.] A disaccharide which yields two hexose melecules on decomposition, as cane sugar, which yields one melecule of dextrose and one of levulose.

hexoctahedral (hek-sok-ta-hē'dral), a. [hexoctahedr-on + -all.] Of or pertaining to a hex-octahedron or to the class of crystals of which it is the characteristic form. See *symmetry, 6. hexode (hek'sōd), a. [Gr., $\langle \xi \xi, \sin, + \delta \delta \delta \xi,$ way.] In elect., six-way; sixfold; such that six messages can be sent at the same time over the same wire, as in a multiplex telegraph.

hexoic (hek-sō'ik), a. [Gr. $\hat{\epsilon}\xi$, six, + -o- + -ic.] Pertaining to hexane.—**Hexoic acid.** Same as normal caproic acid.

hexone (hek'son), n. [=G. hexon: $\langle Gr. \dot{\epsilon} \xi, six,$ + -onc.] 1. A term applied by Kossel to any one of several bases, such as arginin, lysin, etc., which contain six atoms of carbon in the molecule.

This gave a solution which should contain the hexon bases, viz., arginine, lysiue, histidine, and lysatine.

Amer. Chem. Jour., April, 1903, p. 378.

2. A liquid mixture of hydrocarbons, C6H8, obtained by compressing illuminating gas which has been prepared by heating fats and resins. It boils at 70-85° C.

hexonic (hek-son'ik), a. [ncxone+-ie.] Or or pertaining to the hexone bases arginin, lysin, and histidin. See *hexone, 2.

hexosazon (hek-sos-az'on), n. [Gr. ê\(\xi \), six, +
E. osazon.] The osazon of a hexose sugar; that is, a sugar containing six carbon atoms.

hexose (hek'sos), n. [Gr. ê\(\xi \), six, +-ose.] A

simple sugar (monosaccharide) containing six atoms of carbon.

hexoside (hek'sō-sid), n. [hexose + -ide¹.] A glucoside derived from a hexose.

hexotriose (hek-sō-trì'ōs), n. [Irreg. \langle Gr. $\tilde{\epsilon}\tilde{\xi}$, six, +-o- + Gr. $\tau \rho \tau$ -, three, +-ose.] The class name of sugars which contain eighteen atoms of carbon in the molecule and are capable of resolution into three molecules of a sugar which contains six atoms of carbon in the molecule. Thus raffinose is a hexotriose and may be decomposed into equal molecules of

fructose (levulose), glueose, and galactose.

hexoylene (hek-so'i-len), n. [Gr. \(\ielde{\epsilon}\), six, +

-o- +-yl +-ene.] A colorless liquid, CH₃
(CH₂)₃C: CH(\(^{\epsilon}\)), prepared from hexylene bromide. It boils at 80-85° C. Also called 5-hexine and normal-butylacetylene.

hextetrahedral (heks-tet-ra-hē'dral), a. Same as *hexatetrahedral.

hextetrahedron (heks"tet-ra-hē'dron), n. Same as hexatetrahedron.

hexylamine (hek-sil-am'in), n. [Gr. £§, six, + -yl + amine.] A poisonous ptomaine (C₆H₁₅ N) found in cod-liver oil and also obtained from veast.

hexylene (hek'si-lēn), n. [Gr. $\xi\xi$, six, + -yl + -ene.] A colorless liquid, CH₃(CH₂)₃CH: CH2, prepared from hexyl chlorid and formed during the distillation of boghead coal or from superheated parafin. It boils at 68-70° C. Also ealled 5-hexene. hexylic (hek-sil'ik), a. [hexyl + -ic.] Per-

nexylic (hek-sil'ik), a. [hexyl + -ic.] Pertaining to hexane or hexylic acid. Same as hexyl. - Hexylic acid. Same as caproic acid.

Heyduck, n. Same as Haiduk (which see).

hf. A contraction of half.
hf. bd. A contraction of half-bound.
hf. cf. A contraction of half ealf.
hg². A contraction of hectogram.
H. G. An abbreviation (a) of His Grace; (b)

of Horse Guards.

H. G. D. H. An abbreviation of His (or Her) Grand Ducal Highness.

H. I. An abbreviation of Hawaiian Islands.

hiagua, n. See *haigua.

hialoa (hē-ä-lō'ä), n. [Hawaiian.] A common weed, Waltheria Americana, of the family hickory-moth (hik'o-ri-moth), n. Any of the famil Sterculiaecæ, occurring in many of the Polynesian islands and most tropical countries.

hiant (bi'ant), a. [L. hians (hiant-), ppr. of hiare, gape: see hiatus.] Gaping: said of the jaws of certain insects.

Hatus aorticus, the aortic orifice in the diaphragm. See aortic orifice.— Hiatus ventriculi, a term proposed by A. Hill as synonymous with chronidal fasture, or the lateral portion of the rima transversa cerebri. Philos. Trans. Roy. Soc. (London), 1893, ser. B, p. 425.

Trans. Roy. Soc. (London), 1893, ser. B, p. 425.

hiba (hē'bā), n. [Jap.] A species of cypress,
Thuyopsis dolobrata, easily distinguished from
other species by the yellow-green of the upper
side of the leaves and the blue-green and
peculiar marking of the under side. Its wood is
yellow, and is remarkably durable in water, so that it is
much used for stakes as well as in ship- and bridgebuilding. It is also used for lacquer-ware. See Thuyopsis.
hibachi (hēhē'-

hibachi (hē-bä'chē), n. [Jap. hibachi, \langle hi, fire, + hachi, a bowl, basin, pot.] In Japan, a pan or box in which charcoal is kept burning for the purpose the warming hands or heating an apartment; a brazier.

hibernant (hī'ber-nant), a. and n. I. a. Hibernating or lying dormant during winter. [Rare.]



Hibachi, with Tongs

II. n. An animal that hibernates; a resident of a given locality during the winter season only. [Rare.] hibernate, v. i.—Hibernating gland. See *gland. hibernator (hi'ber-nā-tor), n. An animal that

Hiberno-Celt (hī-ber'nō-selt"), n. A native Irishman of Celtie stock.

hibschite (hib'shit), u. [Named after J. E. Hibsch.] A mineral occurring with green melanite crystals in the phonolite of the Marienberg near Aussig, Bohemia. It is isotropic, has an oetahedral form, and, in composition, is near lawsonite, having perhaps the same [Author Marienberg near Aussonite] awsonite, having perhaps the same [awsonite] [Author Marienberg] [Author M

hickory, n. 3. In Australia, a name applied to several trees the wood of which is used for the same purposes as that of the American histories correigns the histories correigns to the same purposes. hickories, especially the hickory-acacia, Acaeia hickories, especially the lickory-acacia, Acacia leprosa, the blackwood of Australia, Acacia Melanoxylon, and the hickory-eucalyptus, Eucalyptus punctata.—4. In Tasmania, a shrub or small tree of the rue family, Phebalium squameum, conspicuous for its strong smell, silvery under-surface of the leaves, and small silvery under-surface of the leaves, and small pink-and-white flowers.—Big-bnd hickory, Hicoria alba. See white-heart *hickory and mockernut. [Florida]—Bitter hickory. Same as biternut.—Black hickory.—Broom-hickory, the pignut, Hicoria glabra: so called from the use of its finely split wood in making brooms.—Brown hickory. See pignut, 2.—Hickory gall-louse, horned-devil caterpillar. See *gall-louse, **acterpillar.—Nutmeg-hickory. See *nutmeg-hickory.—White hickory (a) Same as white-heart *hickory. (b) Same as pignut, 2. (c) Same as white-heart *hickory. (d) The shellbark, Hicoria ovata.—White-heart hickory, the mockernut, Hicoria alba, a timber-tree distributed from southern Ontario and southern New England over the eastern United States, abundant only southward. The leaves have a conspicuous resinous fragrance. The wood is heavy, hard, tough, and flexible, and, like that of the shellbarks, is of great value in the manufacture of agricultural implements, carriages and wagons, ax-helves, etc., and for fuel. The heart-wood is of a rich brown, the thick sap-wood nearly white. Also called bullnut.

hickory-aphis (hik'o-ri-ā'fis),

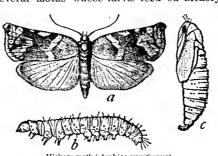
hickory-aphis (hik'o-ri-ā"fis), n. A plant-louse, Lachnus caryæ, which infests the twigs and small branches of the hickory.

hickory-borer (hik'o-ri-bor"er), n. Any one of more than forty species of cerambycid, ptinid, or seelytid beetles whose larva bore into the trunk and limbs of hickory-trees. A common hickory-borer is

Any one of several moths whose larvæ feed on hickory

Hickory-borer

(Dicerca lurida).



Hickory-moth (Archips semiferana).

a, moth; b, larva; c, chrysalis. About twice natural size.

Among them are the hickory tussoekmoth, Halisidola caryæ, of the family Arctiidæ; Ennomos subsignarius, of the family Geomet-ridæ; Acrobasis rubrifasciella, of the family Phycitidæ; and Archips (Cacacia) semiferana,

Phycitidæ; and Archips (Cacacia) semiferana, of the family Tortricidæ.

hickory-pole (hik'o-ri-pōl), n. A pole of hickory, often used as a flagstaff. From 1828 to 1860 a pole of this kind with a brush at the top was the emblem of the Democratic party in the United States: in allusion to Andrew Jackson's popular name of 'Old llickory.' Jour. Amer. Folk-lore, Oct.-Dec., 1902, p. 245.

Hicks's bottles. See *bottle2.

Hicks's bottles. See *bottle2.

Hicoria (hi-kō'ri-ä), n. [NL. (Rafinesque, 1808), <hickory, the American name.] A genus of dicotyledonous trees belonging to the famof dicotyledonous trees belonging to the latinglandaceæ. Until recently it has been known as Carya, a name given it by Nuttall, but now Rafinesque's name Hicoria, from the aboriginal Indian name, has been restored, and all the species have been renamed under this latter generic name. The species of Hicoria are all native to eastern North America, and are about fifteen in number. The shellbark hickory, pecan, pignut, mockernut, and bitternut all belong in this genus. See Carya.

hexonic (hek-son'ik), a. [hexone + -ic.] Of or hibernates or lies dormant during the winter; hidalga (ē-dāl'gā), n. [Sp.] A Spanish noble-negraining to the hexone bases arginin, lysin, contrasted with *estivator. woman. See hidalgo.

The Faurde is really one of the hibernators like our sunday Mag., 1883, p. 674. hidalgoism (hi-dal'gō-izm), n. Same as hidal-gism (which see).

gism (which see). hidated (hī'dā-ted), p. a. Measured by or reckoned in hides. See hide³, n.

An elaborate hidated survey, which possesses a peculiar value from its references to the Domesday survey.

Athenæum, Sept. 28, 1889, p. 421.

hideondo (ē-dā-on'dō), n. [Amer. Sp.] The creosote-bush, Covillea tridentata.

hidradenitis (hi-drad-e-ni'tis), n. [NL., \langle Gr. $i\delta\rho(\dot{\omega}\varsigma)$, sweat, + $\dot{\alpha}\delta\eta\nu$, gland, + -itis.] Inflammation of the sweat-glands.

hidroadenitis (hid "ro-ad-e-nī'tis), n. Same as *hidradenitis.

hidropoiesis (hid "rō-poi-ē'sis), n. [NL., \langle Gr. $i\delta\rho\dot{\omega}_{c}$, sweat, $+\pi oi\eta\sigma\iota_{c}$, making.] Secretion of the sweat.

hidropoietic (hid/rō-poi-et'ik), a. Pertaining to or characterized by hidropoiesis; sudoriparous.

hielaman (hē'la-man), n. [Australian elimang (Hunter), e-lee-mong (Collins), hīlaman (Ridley).] A narrow, elongated shield used by the Australian aborigines. E. E. Morris, Austral English.

hielaman-tree (he'la-man-tre"), n. The bat'swing coral-tree, Erythrina Vespertilio, so called from the use of its wood by the Australian na-tives for making their hielamans or shields. See bat's-wing *coral-tree.

Hieracian (hī-e-rā'shan), n. Same as Hieracite. hieratian (hi-e-ra'saan), n. Same as Hieratice.
hieratica (hi-e-ra'fi-kä), n. [L. fem. of hieraticus, hieratic.] A grade of papyrus, used for religious writings in Egypt.
hieratite (hi'e-ra-tīt), n. [Named from Hiera, an ancient name of Vulcano.] A mineral containing silicon, fluorin, and potassium, obtaining silicon, fluorin, and potassium, obtaining silicon.

tained in isometric crystals from the aqueous solution of stalactitic concretions found at the

solution of statactitic concretions found at the crater of Vulcano, one of the Lipari Islands. hierocratic (hī'e-rō-krat'ik), a. [hierocracy (-crat-) + -ic.] Pertaining to or of the nature of a hierocracy; hierarchal: as, hierocratic rule. hierodulic (hī'e-rō-dū'lik), a. [hierodule + -ic.] Of or pertaining to the hierodule or temple slave.

hierogamy (hī-e-rog'a-mi), n. [Gr. ιερός, sa-ered, + γόμος, marriage.] A sacred marriage. Stand. Dict.

We must now recall the fact that the hierogamy of Zeus and Europs was simulally celebrated at Gortyna in Crete. Lenormant (trans.), Beginnings of Hist., App. i, p. 550.

hieroglyphic. I. a. 4. Of or pertaining to certain vermiform structures which occur in the flysch, in Carpathian sandstone, and in the ma-rine facies of the Cretaceous and Jurassic formations of the Alps. See II, 2.
II, n. 2. One of certain vermiform structures,

abundant in the Cretaceous and Jurassic rocks of some countries, probably in part the trails of mollusks or worms.

hieroglyphism (hi-e-rog'li-fizm), n. [hiero-glyph + -ism.] The use of hieroglyphs in expressing ideas.

It is far beyond the scope of the present article to de-scribe fully the development of hieroglyphism in Egypt. Encyc. Brit., I. 605.

hieroglyphology (hi"e-rō-gli-fol'ō-ji), n. [hieroglyph + Gr. $-\lambda o \gamma ia$, $\langle \lambda \ell \gamma \epsilon iv$, speak.] The scientific study of hieroglyphs. hieroglyphy (hī-e-rog'li-fi), n. [hieroglyph + -y1.] The art of writing in hieroglyphs; the

-y¹.] The art of vuse of hieroglyphs. hieroglyptic (hī"e-rō-glip'tik), a. [Gr. lερός, sacred, + γλυπτικός, carved: see glyptic.] Same

as hieroglyphic. Two other characteristics of hieroglyptic script are also to be noted.

A. J. Evans, in Jour. Hellenic Studies, XIV. 300. hickory-shad, n. 2. A fish, Pomolobus medio-eris, of the Atlantic coast of the United States. hieromania (hī''e-rō-mā'ni-ä), n. [NL., < Gr. ispo;, sacred, religious, + μανία, madness.] Hicks's bottles. See *bottle².

hieropæi (hī e-rō-pē 'ī), n. pl. [NL., < Gr. iεροποιοί, pl. of iεροποιοίς, < iερό, sacred rites, + ποιεῖν, do.] In Gr. antiq., secondary officers of temples, usually grouped in colleges, charged with assisting the priests, and with various duties about the temples.

They are the accounts of the *Hieropæi* of the Delian temple of Apollo, and they give, amongst other things, the salaries of various officials.

F. B. Jevons, in Jour. Hellenic Studles, XV. 246.

high. I. a. 15. Noting the strength of a suit, as in whist or bridge: as, queen high in spades, and teu high in diamonds.—High roof, tide, vacuum. See *roof!, etc.—No higher (naut.), an order to the helmsman not to bring the ship any closer to the wind.—The sun is high. See *sun!.

—To point high. See *point!.

II. n. 3. One of the points in the game of all-fours.—4. The area of high barometric pressure shown on the daily weather map, usually moving eastward and toward the equator, its front being marked by suddenly falling temperature, drier air, strong polar winds, and spits of rain or snow, followed by clear weather and by a temperature that may be either high or low depending on the balance between radiation, isolation, connection, and thermodynamic action.

The hot wave had its inception in the wake of a high area, which dropped down from northern New York over Virginia and the neighboring States. Here it seemed to join forces with the permanent high over the ocean and remained nearly stationary for a number of days.

Yearbook, U. S. Dept. Agr., 1900, p. 332.

Tropical high, the area of high pressure under the tropics of Capricorn or Cancer, which prevails over the continents in winter, but over the oceans in summer.

high-ball (hī'bâl), n. 1. A method of settling who shall pay for something, in which the numbered balls that are used in the game of pinpool are thrown out from a receptacle, the highest ball winning and the lowest paying.— 2. A 'long drink,' consisting of a modicum of whisky difuted with club soda or mineral water, and served with cracked ice in a tall [Slang.]

high-blower (hī'blo "er), n. 'blows' vigorously in galloping: a healthy habit, entirely different from 'roaring.' U.S. Dept. Agr., Rep. on Diseases of the Horse, 1903, p. 118.

high-duty (hī'dū"ti), a. Performing a high percentage of service; high-economy: used of pumping-engines. A high-duty pump is one that de-livers a proportionately large number of foot-pounds of work, in the form of water pumped, per million heat-units furnished by the boiler. The American basis for mea-suring duty is now the million heat-units furnished by the boiler, instead of (as formerly) a given quantity of coal burned.

high-five (hī'fīv), n. See *cinch, 4. high-flier, n. 3. A phaëton with low front wheels, arched reaches, and boxes over both axles. The body was hung high npon four S-springs. It was popularized by the Prince of Wales (afterward George IV) and other young sporting men of his day.

high-grade (hī'grād), a. Of a superior grade or quality; specifically, having more than three quarters pure blood: applied by stock-breeders to animals.

high-handedness (hī'han'ded-nes), n. Highhanded, arbitrary, and unreasonable conduct or treatment.

The "free-choice" system in club practice was generally recommended as supplying the relatively best protection against the high-handedness of the clubs.

Lancet, April 4, 1903, p. 997.

hill-engraver (hil'en-grā"ver), n.

high-heeled (hī'hēld), a. Made with or hav-

iug high heels: as, high-heeled shoes.
high-kilted (hī'kil"ted), a. Having the skirt or petticoat kilted or tucked up.
Highland Scotch. See *Scotch1.
highlander, n. 2. A playing-card having

slight blemishes on both surfaces. Household slight blemishes on both surfaces. Household Words, VI. 332.—Arctic highlanders, the Eskimo tribe of Smith Sound, Greenland, so called by their discoverer, Sir John Ross.

high-low-jack, n. 2. A form of billiard-pool with fifteen object-balls, based in part on the with fifteen object-balls, based in part on the said game of all-fours; once popular, but now name for the larva of a European noctuid

card game of all-fours: once popular, but now

jerk; pull; raise; lift.—4. To snatch away; run off with.—5. To dismiss peremptorily.

II. intrans. To move suddenly or hastily; go away; walk off; decamp. [Prov. or colloq. Eng. and U. S., iu all uses.]

hiker (hī'kėr), n. [hike, v. + -erl.] An overdrawn bridle chekt.

drawn bridle-check. [Local, southern U. S.] hikuli (hē-kö'lē), n. [Tarahumar, a Piman dialect spoken in Chihuahua, Mexico.] In the state of Chihuahua, Mexico, the name of the narcotic cactus Lophophora Williamsii, a plant held in high esteem by the Indians. See *mescal-button.

At one of the feasts which I witnessed I wished to taste hikuli, as it was new to me. . . . The man who carried the gourd first danced in front of the shaman, then around the fire, and finally brought it to me. The liquid tasted somewhat bitter, but not exactly disagreeable; and while I drank, the man looked at me with astonishment, as if he had expected that hikuli would refuse to be taken by me. astonishment, as it he may refuse to be taken by me.

C. Lumholtz, Unknown Mexico, I. 374.

hil. n. and v. A simplified spelling of hill. hilaria (hi-lā'ri-ā), n. pl. [L., neut. pl. of hilaris, joyful: see hilarious.] Iu Rom. antiq., a joyous festival in honor of Cybele, celebrated at the vernal equinox.

A horse that hilasmic (hi-laz'mik), a. [Gr. ιλασμός, proping: a healthy tiation, ζιλάσκεσθαι, appease, propitiate.] Proping: U. S. pitiatory. [Rare.]

Hildebrandic (hil-de-bran'dik), a. Same as Hildebrandine.

hill', n., 3. (b) The cluster of plants in a hill. Formerly, the practice of 'hilling' was general, when only hand tools were used; but latterly the universal tendency is to practise level culture. While the hill itself has disappeared, the group of plants has taken the name. A 'hill,' therefore, is a more or less separated or detached group of two or more plants, in contradistinction to the single plants that follow each other regularly in a drill.—Lenticular hill, a drumlin, or drumloidal hill.

They exhibit many variations in size and shape, however, some being nearly circular, mammillary hills, and others lenticular hills, in which the longer axis is two or three times as great as the shorter axis.

I. C. Russell, Glaciera of North America, p. 24.

Mammillary hill, a hill of rounded form. I. C. Russell, Glaciers of North America, p. 24.—Remnant hill, a residual hill remaining when the neighboring surface is worn down to a peneplain; a small monadnock. W. M. Davis, Elem. Phys. Geog.

hill1, v. i. 2. To assemble on rising ground. [Rare.]

In the spring the Ruffs hill, as it is termed; that is they assemble upon a rising spot of ground contiguous to where the Reeves propose to deposit their eggs.

G. Montagu, Ornith. Dict., p. 444.

A man skilled in representing topography by means of hachures or contours on an engraved plate.

This course, in addition to helng, I believe, the best method of representation, would have the additional advantage of continuing for a time the employment of hill-engravers, who are, as already stated, so much required for the completion of the hill-engraving of the 1-inch map.

Geog. Jour. (R. G. S.), XV. 589.

hill-grub (hil'grub), n. A British gardeners' name for the larva of a European noctuid hinge-plate (hinj'plat), n. In the Brachiopoda, moth, Charwas graminis. It injures pastures

photis eruentaits, of the family serraniae, found in the West Indies. Those found in deep waters are red, and are known as red hinds; those found near the shore are dark brown, and are known as brown hinds.—Rock hind, a species of grouper of the family Serranide, Epinephelus adsensionis, found in the West Indies.—Speckled hind, a species of grouper, Epinephelus drammond-hapi, characterized by dark-brown color marked with bright white spots, found in the Gulf of Mexico.

hind-castle (hind'kas"l), n. The high poop, or after-eastle, on old-fashioned vessels, as distinguished from the forecastle; formerly the elevated structure on the after part of a ship, the top of which was used as a fighting-

platform.

hinder2 (hin'der), n. In hand-ball, a ball struck by a player which afterward strikes his opponent; or one with which the server hits his opponent while standing in the aceline; or one which strikes the opponent, who thus hinders it from reaching the front wall.

Hindia (hin'di-ä), n. [NL., named after G. J. Hinde.] A Silurian genus of lithistid sponges, belonging to the suborder Eutaxieladina, characterized by the spherical body and the composition of the skeletal elements which consist of three single rays and a reduced button-like fourth ray.

hind's-foot (hinds'fut), n.; pl. hind's-feet (fēt). A crossbow bent by a lever composed of two articulated pieces. See goat's foot lever, under lerer1.

Hind's nebula. See *ncbula.

Hindu numerals. See *numeral.

hindwing (hind'wing), n. A moth of the familly Noctuidæ.—American copper hindwing, Purophila pyramidoides, a noctuid moth of wide range in the United States, where its larvæ feed on the foliage of the grape and the Virginia creeper.

hinge, n. 6. In bot., the flexible lamella of the guard-cells of a stoma which renders them guard-cells of a stoma which renders them mobile.—Frontonasal hinge, in ornith., a transverse groove which more or less completely separates the nasals and frontals, permitting considerable freedom of movement, in a vertical plane, to the beak. It is most marked in parrots, where the separation is nearly or quite complete, but is found to a lesser degree in many other birds, such as cormorants. This arrangement permits the beak to serve to some extent as an organ of prehension, and facilitates the capture and manipulation of food. Also nasal hinge.—Nasal hinge. Same as frontonasal *hinge a hinge.—Parliament hinge, a simple form of hinge or butts in which the joint projects from the door and frame, keeping the door when open away from the molding or edge of the door frame.

hinge-area (hinj'ā"rē-ā), n. The space between the beaks of the dorsal and ventral valves of a bivalve mollusk.

hinge-ligament (hinj'lig"a-ment), n. In bivalve mollusks, a tough, uncalcified, elastic membrane which connects the two valves. It consists of two parts, the external, or ligament proper, and the internal, or cartilage. The former is inelastic, while the latter is very elastic and is composed of parallel

The operation of [the hinge-ligament] . . . is in opposition to that of the adductor muscles. When the latter close the valves, they compress the ligament, an action which its elasticity resists: thus its operation tends in part towards keeping the valves open. But when ligament and cartilage are both fully developed, they work in opposition to one another, the ligament, by its resistance to compression, preventing any straining of the adductor muscles when the valves are open, and the cartilage, for nuscles when the valves are open, and the cartilage, for the same reason, preventing the ventral margins of the shell from closing too rapidly upon one another when the valves are being shut. Cambridge Nat. Hist., III. 272.

a plate which bounds the elevated sockets of the dorsal valve; in the *Pelecypoda*, the hori-zontal lamina of the cardinal margin on which

obsolete.

high-pressure, a. 2. Noting an exhausts at atmospheric pressure as distinguished from a condensing-engine; hence, non-condensing. This use of the term is confusing and inadvisable.

high-roller (hi'rō''ler), n. A recklessly extravagant, high-living 'sport.' [Slang.] high-warp (hi'warp), a. A translation of French haute-lisse (which see).

All three of the tapestry looms at Merton are constructed on the high-very system.

A. l'adiance, William Morris, p. 92.

Higo pottery. See *pottery.

higuera. (6-gā'rā), n. [One of the extended high-very system.

A. l'adiance, William Morris, p. 92.

Higo pottery. See *pottery.

higuera. (6-gā'rā), n. [One of the extended high-very system.

A. l'adiance, William Morris, p. 92.

Higo pottery. See *pottery.

higuera. (6-gā'rā), n. [One of the extended high-very system.

A. l'adiance, William Morris, p. 92.

The map is clearly drawn, and printed in four colourage, high liaks, having foliage of a golden color. See Retinospora.

This tree is particularly scered in Shinto worship, and on the relative surface of the mammalian brain in the relative manner.

Selviii. Philos. Trans. Roy. Soc.

high-proller (hi'rō''ler), n. A recklessly extravagant, high-living 'sport.' [Slang.]

**mound-planting.

**mound-planting.

**mound-planting.

hill-planting (hil'plan'ting), n. Same as family Pectinides, characterized and more or less distorted shell. It extenus from the Trias to the present time.

The map is clearly drawn, and printed in four colourage, high line is fine to the calameter of the cornea.

Geog. Jour. (R. G. S.), XV. 505.

hill-shading, hill-shading, n. A conventional graphic device for representing the slopes of the extenus framily Pectinides, characterized and more or less distorted shell. It extenus framily Pectinides, characterized and more or less distorted shell. It extenus framily Pectinides, characterized and more or less distorted shell.

high-pressure (hi'rō'sland, n. [Jap. hin-o-ki, 'fire-tree': high line high line high line high line high line high line high

hinterland back of and is tributary to a coast region or port.

The province of Shantung is the hinterland of the very large harbor the Germans have seized.

Bulletin Amer. Geog. Soc., XXX. 57.

hintzeite (hint'se-īt). n. [G. hintzit, named (by L. Milch, 1890) after C. H. Hintze, a German mineralogist.] Same as *heintzeite.

Hiodon (hī'ō-don), n. [NL. (Le Suear, 1818), erroneously for Hyodon, ζ Gr. ὑ(οειδής), Y-shaped (see hyoid), + ὑδοῖς (ὑδοντ-), tooth.] A genus of mooneyes, herring-like fishes of a brilliant silvery color, remarkable for a row of brilliant silvery color, remarkable for a row of strong teeth on the tongue: found in the Mississippi basin and neighboring waters. H. tergisus is the common species.

 $\begin{array}{lll} \textbf{Hiodontidæ} \text{ (hi-\bar{p}-don'ti-d\bar{e}$), } n. pl. & [NL., < \\ Hiodon(t-) + -idw.] & A family of herring-like \end{array}$ fishes known as mooneyes, typified by the genus Hiodon. Three species are known, all of which are confined to the Mississippi valley

and neighboring waters.

hi-ogi (hē-ō'gē), n. [Jap. hi-ōgi, ⟨ hi, fire (in hi-noki: see *hinoki), + ōgi, a folding fan.] In Japan, a folding court-fan made of hinoki, a delicate brown wood used in its natural color. Hippocratic fingers or nails, oath. See *finhiortdahlite (hē-ôrt'dä-līt), n. [Named for Prof. Th. Hiortdahl of Christiania.] A rare silicate containing zirconium, calcium, and sodium, with fluorin, which occurs in yellow triclinic crystals: found in southern Norway.

hip-disease (hip'di-zez"), n. Same as hip-joint disease (which see, under disease). hipe (hip), v. i. In wrestling, to effect a fall by pressing the knee against the inside of one of the opponent's legs after lifting him from the ground. Also smalled home.

of the opponent a log arrows. Also spelled hype.
hip-pain (hip'pān), n. Sciatica. [Colloq.]
hip-pain (hip-a-lek'tri-on), n. [Gr.

hippalectryon (hip-a-lek'tri-on), iππολεκτρυών, ζίππος, horse, + ἀλεκτρυών, cock.] In Gr. antiq., an imaginary ani-mal which combines the head and front of a horse with the tail a norse with the tail and feet of a cock. Its representation in art is not common. The most important example is a fragment of late sixth-cen-tury sculpture found upon the Acropolis at Athens.



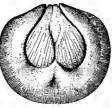
Hippalectryon. From an amphora in the Louvre.

hipparaffin (hi-par'a-fin), n. [hip(purie) + paraffin.] A colorless compound, CH₂(NHC parafin.] A colorless compound, $\mathrm{CH}_2(\mathrm{NHC} \ \mathrm{OC}_6\mathrm{H}_5)_2$, formed by the oxidation of hippuric acid or from benzonitrile and methylal. It crystallizes in long needles and melts at 220.5-221° C. Also called methylenc-dibenzamide.

hipparch (hip'ārk), n. [Gr. $l\pi\pi d\rho\chi\eta_{\eta}$, also $l\pi\pi o\rho\chi_{0}$, $\langle l\pi\pi o_{\xi}$, horse, + $d\rho\chi_{\xi}\nu_{\eta}$, lead.] In Gr. antiq., a leader of cavalry. In the Ætolian and Achean leagues this officer was charged with other functions.

Hipparchia (hi-pär'ki-ä), n. [NL.] Same as aturus, 3.

Hipparionyx (hi-pā-ri-on'iks), n. [NL., ζ Gr. lππάριου, a colt, + δυυξ, a hoof.] A genus of Devonian Brachiopoda which atchiopoda which attained a large size. It is named from the singular resemblance of the cast of the ventral valve to the impression of a colt's foot. It belongs to the family Strophomenidæ, and is abundant in and very characteristic of the Oriskany sandstone of New York and the equivalent horizon in other regions. hipped¹, p. a. 2. Having hips: said of a roof, or of one end of a roof. A roof may be hipped¹ at one cont and gabled at the other.



hipped at one end and gabled at the other. Hippelates fly. See ★fly2.

hippiatrical (hip-i-at'ri-kal), a. Same as hip-

muscular impression. It has existed from the hippiatrics (hip-i-at'riks), n. Same as hippiatrics (hip-iat'riks), n. Same as hippiatrics (hip-iat'riks), n. [Gr. iππικός, ⟨ iππις, horse, see equinc.] Of or pertaining to horses or horse-racing: as, hippic festivals.

Hippidium (hi-pid'i-um), n. [NL., ⟨ Gr. iπρικός a horse] Same as hipportagine (hi-pot'rā-jin), α. Related to, resembling or having the characters of the grown dim of increase horse].

Hippidium (hi-pid'i-um), n. [NL., \langle Gr. $l\pi$ - $\pi i \partial i \sigma v$, dim. of $i\pi \pi \sigma c$, a horse.] Same as Pliohippus.

In broad daylight a hippo charged the steamer that was towing my diahheeah.

Sir S. W. Baker, Wild Beasts and their Ways, p. 247.

Hipportel limestone. See *limestone.

Line hearts (hip. 5-hos/id), n. and a. I. n.

hippoboscid (hip-ō-bos'id), n. and a. I. n. A member of the family Hippoboscidæ.

II. a. Of or belonging to the dipterous

family Hippoboscidæ.

Hippocampal commissure. See ★commissure.— Hippocampal lobule. See ★lobus pyriformis.— Hippocampal tubercle. See ★tubercle.

Hippocampus nudus, a small portion of hippocampus which appears on the median surface of the brain, filling up the concavity of the arc formed by the subsplenial bending of the fascia dentata. the concavity of the arc formed by the subsplenial bending of the fascia dentata.

hippocentaur (hip-φ-sen'târ), n. [Gr. iπποκέν-τανρος, ⟨iππος, horse, + κέντανρος, eentaur.] A fabulous animal, nart man and port have

fabulous animal, part man and part horse; a horse-centaur.

Hippocephalus (hip-ō-sef'a-lus), n. [NL., \langle Gr. $i\pi\pi\sigma\varsigma$, horse, $+\kappa\epsilon\phi a\lambda\dot{\eta}$, head.] A genus of sca-poachers of the family Agonidæ. They are remarkable for the external distortion of the head. H. japonicus is found in the Kurile Islands.

hippocoprosterin (hip " \tilde{o} -k \tilde{o} -pros' te-rin), n. [Gr. $i\pi\pi o c$, horse, $+ \kappa \delta \pi \rho o c$, dung, $+ \sigma \tau \epsilon a \rho$, fat, $+ -in^2$.] A form of cholesterin obtained from the feces of the horse.

nippodamist (hi-pod'a-mist), n. [Gr. $i\pi\pi\delta\delta a_{\mu\rho\rho}$, horse-taming, + "ist.] A horse-breaker. hippodamous (hi-pod'a-mus), a. [Gr. $i\pi\pi\delta\delta a_{\mu\rho\rho}$, horse-taming, < i $i\pi\pi\rho\rho$, horse, + dapa(zew, tame.] Relating to the taming or breaking of horses. hippo-fly (hip' $\bar{\rho}$ -fl \bar{l}), n. An under the constant of the form of the f

of horses.

hippo-fly (hip'ō-flī), n. An undetermined gadifly of the family Tabanidæ, common in the upper Nile valley and in wet places in equatorial Africa.

In provide, a strong, which is the provide a sarl of a dog.

hirschgulden (hirsh'göl'den), n. [G.: see hart¹ and gulden.] A coin of Würtemberg of the seventeenth century, so called from the

Owing to the numerous swamps, flies of various kinds are abundant, and as early as September the large biting fly called the "hippo" fly was a great annoyance. Our stock suffered severely from the thousands of these flies which attacked them every evening.

Geog. Jour. (R. G. S.), XVIII. 75.

hippoform (hip'ō-fôrm), n. [Gr. iππος, horse, + L. forma, shape.] Having the form of a

Hippoglossina (hip "ō-glo-sī'nā), n. [NL., \langle Gr. $i\pi\pi o c$, horse, + γλώσσα, tongue, + -inal.] A genus of flounders of the shores of tropical

hip-pole (hip'pol), n. A beam which supports an angle-rafter.

an angle-rater.
hippological (hip-ō-loj'i-kal), a. Relating to hippology or the scientific study of the horse.
Hippolyte (hi-pol'i-tō), n. [NL. (Leach, 1813),
⟨ Gr. 'Ιππολίτη, a female name.] The typical

\(\mathrm{G} \), '\(\pi \pi \) a female name.] The typical genus of the family \(Hippolytid\epsilon \).

 \(Hippolytid\epsilon \) (hip-\(\tilde{\tild

hippomelanin (hip-ō-mel'a-nin), n. [Gr. iππος, horse, + μέλας (μελαν-), black, + -in².] A black pigment which has been obtained from melanotic tumors of horses.

Hipponychidæ (hip-ō-nik'i-dē), n. pl. [NL., < Hipponyx (-onych-) + -idæ.] A family of tænioglossate pectinibranchiate gastropods. The visceral mass and shell are conteal, and the foot is reduced, secreting a thin calcareous plate on its ventral surface. The family contains the genera Hipponyx and hitrularia.

Hispano-Portuguese (his-pan'ō-pōr-tū-gēs'), a. Belonging or common to both Spain and Portugal.

In a. Gr (his'te-rid), n. and a. I. n. A member of the family Histeridæ.

II. a. Of or belonging to the coleopterous family Histeridæ.

histic (his'tik), a. [Gr. loτός, a web, tissue, + -ic.] Relating to or having the properties of a tissue.

histidin (his'ti-din), n. [Gr. loτίον, web, tissue, histidin (his'ti-din), histidin (his'ti-din), histidin (his'ti-din), histidin (his'ti-din), histidin (his'ti-din), histidin (his'ti-din), his surface. Ti

Mipponyx (hip'ō-niks), n. [Gr. lππος, a horse, + δννξ, hoof.] A genus of capulid Gasteropoda characterized by a thick, obliquely conical shell and an internal hippocrepian muscular impression. It has existed from the

genus Hippotragus: as, the hippotragine section of the Boridæ.

hippo² (hip'ō), n. A colloquial abhreviation hippurin (hip'ū-rin), n. [hippur-ic+-in².] A colloquial abhreviation hippurin (hip-rin), n. [hippur-ic+-in².] A colloquial abhreviation hippurin (hip-ri colorless oxidation-product of hippuric acid,

hipsy (hip'si), n. [Origin obscure.] A sailors' punch composed of wine, water, and brandy.

Drinking of *Hipsy*, a liquor compounded of wine, water, and brandy, which, by the admirers of it, is also call'd meat, drink, and cloth.

W. Betagh, in N. and Q., 10th ser., III. 61.

hip-truss (hip'trus), n. A truss erected to

animal, the same as tragelaphus.

to a certain extent, in that of sheep. corresponding fatty acid is termed hircic acid. hircocorf (ēr-kō-serf'), n. [F, ζ L. hircus, goat, + cervus, deer. The word translates Gr. τραγέλαφος: see tragelaphus, n., 1.] A fabulous

Renan described himself as "a tissue of contradictions, recalling the classic hir/closerf with two natures. One of my halves is constantly occupied in demolishing the other, like the fabulons animal of Ctesias, who ate his paws without knowing it."

C. Lombroso (trans.), Man of Genius, p. 25.

figure of a hart on the reverse.

hirsinghar (her-sing-gär'), n. [Hindi.] A tall Indian shrub of the olive family, Nyctanthes Arbor-tristis. Also called sad-tree, night-flower, and night-jasmine. See Nyetanthes.

hirst-frame, n. See *hurst-frame. hirsuties, n. 2. In pathol., excessive hairi-

found in the lichen Usuea hirta.—Hirta acid, an acid found in the lichen Usuea hirta.

hirudine (hi-rö'din), a. [For *hirudinine, < L. hirudo (hirudin-), a leech, + -ine1.] Relating to or characteristic of the leeches.

Mexico, is the species longest known.

hippoid (hip'oid), a. and n. [Gr. ἐππος, horse, + εἰδος, form.] I. a. Pertaining to or having the characters of the Hippidæ.

H. n. An animal which is related to or resembles the horse.

However, horse, hirudinean (hir-ö-din'ō-au), n. [Hirudinea + -an.] Any leech of the group Hirudinea. hirudiniculture (hir-ö-din'i-kul-tūr), n. [L. hicudo (-din-), leech, + cultura, culture.] The art or occupation of propagating leeches. hislopite (his'lop-it), n. [Named (1859) after the Rev. Stephen Hislop, who brought the mineral from India.] A grass-green cleavable calcite from India which derives its color from

inclosed glauconite. Hispa, n. 2. [l. c.] A beetle of the genus Hispa.—Rosy hispa, an American chrysomelid heetle, Odontota rosea, whose larvæ damage the leaves of apple-

Hispano-Moresque (his-pan/o-mo-resk'), Pertaining to the art of the Moors in Spain or to Spanish art as influenced by that of the

Moors.—Hispano-Moresque pottery, pottery made in Spain which shows Moorish influence. Much of this ware was covered with a metallic glaze or luster.

Hispano-Portuguese (his-pan*ō-pōr-tū-gēs'), a. Belonging or common to both Spain and Bortuses.

histidin (his'ti-din), n. [Gr. $i\sigma\tau i\sigma v$, web, tissue, $+-id+-in^2$.] A colorless compound, C_6H_9 O_2N_3 , formed by the hydrolysis or decomposition. sition of many proteids and albuminoids, such as casein, albumin, and horn. It crystallizes in plates.

Histiobranchus (his"ti-\(\bar{0}\)-brang'kus), n. [NL., ⟨ Gr. iστίοι, web, + βράγχος, gill.] A genus of deep-sea cels of the family Synaphobrauchidx

histioclastic (his"ti-ō-klas'tik), a. [Gr. loriov. a web, tissue, + κλαστός, ζκλαν, break.] Breaking-down tissues: said of certain cells, like the osteoclasts, which destroy cartilage and produce a medium in which the osteoblasts can live and produce bone. *Proc. Zool. Soc. London*, 1902, I. 208. Histiocottus (his "ti-ō-ket'us), n. [NL., Gr. physiology of the cells and tissues as distorior, web, + κόττος, a fish (see cottus).] A tinguished from the physiology of the organs. genus of sculpins of the family Cottidæ found historical, a. 5. In biol., ancestral or inherited, sudden stoppage of a pumping-engine.—8. In

in the North Pacific.

histionic (his-ti-on'ik), a. [Gr. lorior, a web, + -ic.] lu biol., pertaining to or derived from a tissue or unitarily functioning cell-group.

If a single stimulus may . . leave a permanent impression, which can be spontaneously reproduced later ou, we are bound to assume, in explaining the phenomenon, a histonic presentation, dependent on the psychoplasm of the associated tissue-cells.

son, we are bound to assume, in explaining the phenomenon, a histionic presentation, dependent on the psychoplasm of the associated tissue-cells.

Historical painting. Sec *painting, historical and critical investigation by the historical and critical investigation as, "the historical and critical investigation of primitive Christianity," Schaff.

historics (his-tor'iks), n. History conceived as a division of social science coördinate with a father formative cell-centers in the investigation. histoblast (his'tō-blast), n. [Gr. ἰστός, a web, particular tissue.—2. An imaginal disk, one of the formative cell-centers in the insect larva which give rise to the appendages and

histogeography (his"tō-jē-og'ra-fi), n. [For *histo(rio)geography, ⟨Gr. iστορία, history, + γεωγραφία, geography.] Same as *anthropogeography. [Rare.] W. Z. Ripley, Races of Europe, p. 6.

histogram (his'tō-gram), n. [Gr. iστός, a web, + γράμμα, a writing.] A diagram of struc-

tural form-elements.

We should like to protest against any such crude process of determining goodness of fit as that of placing a normal curve down on seven or eight blocks forming a "histogram," and judging the look of the fit.

Nature, Dec. 17, 1903, p. 149.

pertaining to histography.

histology, n.—Pathological histology. Same as Histozoa (his-to-zo'a), n. pl. Same as *Histo-

sportation.

istometabasis (his*tō-me-tab'a-sis), n. [Gr. histrionic paralysis. See *paralysis. See *paralys reproduce the minute and even microscopic texture of the original. C. A. White, Smithsonian Kep. (Nat. Mus.), 1892, p. 264.

histomorphotic (his "tō-môr-fot'ik), a. [histomorphosis (-phot-) + -ic.] Of or pertaining to histomorphosis, or the formation of tissue in plants or animals.

in plants or animals, histon (his'ton), n. [Gr. lστός, a web, tissue.] An albuminous substance which occurs in combination with certain radicals, such as hematin (in hemoglobin), and nucleinic acids hematin (in hemoglobin), and nucleinic acids (nucleoproteids). Bodies of this order have been obtained from the thymus, the lymph-glands and spleen, the red corpuscles of the goose, etc. Globin, the albuminous radical of hemoglobin, is a histon. The histons are closely related to the protamines, and, like these, are markedly basic: they both form precipitates with albumins. The thymus histon is said to have the composition Cg7alI459Nsj8Os4.

Histona (his-tō'nā), n. pl. [NL., < Gr. loróc, tissne, +-ona.] A term proposed by Haeckel to designate the multicellular organisms, or those with tissues, as contrasted with the Protista.

Protista.

histonal (his-tō'nal), a. [Histona +-all.] 1. Of or pertaining to the Histona.—2. Same as *histionic (which see).

We have cellular ideas, histonal ideas, unconscious ideas of the ganglionic cells, . . . sill of them being physiological functions of their psychoplasm.

Pop. Sci. Mo., Sept., 1902, p. 416.

Histonal selection. See ★selection. histopathologic (his tō-path-ō-loj'ik), a. [Gr. iστος, a web, tissue. + E. patholog-y + -ic.] Pertaining or referring to diseased tissues in animals or plants.

The histopathologic states of the finer structures of the abyrinth.

Detroit Med. Jour., Yeb., 1903, p. 705.

histopathological (his-tō-path-ō-loj'i-kal), a. Same as *histopathologic.

histophysiology (his "tō-fiz-i-ol'ō-ji), n. [Gr. $i\sigma\tau \delta c$, a web, tissue, + E. physiology.] The

or due to conditions which existed in the past history of an organism.

So far as the definition given above of historical properties concerns the inherited specific peculiarities of plants, the term is not metaphorical from the point of view of the Theory of Descent, but must be taken in its titeral signification.

Sachs (trans.), Botany, p. 697.

statistics, economics, and politics. [Rare.]

I classify the sciences of sociology as statistics, economics, evices, historics, and ethics, and shall attempt to characterize them for the purpose only of setting forth their nature. J. W. Powell, in An. Rep. Bur. Amer. Ethnol., 1898-99, [p. lx. larva which give rise to the appendages and other organs of the imaginal or adult insect.

histocyte (his'tō-sīt), n. [Gr. iστός, a web, +

ktroc, a hollow (a cell).] A tissue-forming cell, as in sponges.

histodialytic (his'tō-dī-a-lit'ik), a. [histodi-alysis (-lyt-) + -ic.] Of or pertaining to histo-dialysis.

I classify the sciences of sociology as statistics, economics, eticies, historics, and shall attempt to character-ize them for the purpose only of setting forth their nature.

J. W. Povell, in An. Rep. Bur. Amer. Ethnol., 1898-99, [p. 1x.]

historiographership (his-tō-ri-og'ra-fer-ship), n. [Appar. California Indian: see *chi², *chigh.]

n. The office of historiographer.

historionomer (his-tō-ri-on'ō-mer), n. [Gr. Alarge chub, Lavinia crilicanda, family in the vectors of California.

historionomer (his-tō-ri-on'ō-mer), n, [Gr. lστορία, history, + νόμος, law, + -er².] A historian who is versed in both the facts of history and the principles which regulate its hitch-pin (hich'pin), n. In pianocourse. Lowell, Leaves from Journal in Italy.

Histosporidia (his*tō-spō-rid'i-ā), n. pl. [NL., string is fastened at the end opposite to the tuning-peg. + dim. -tdov.] The Myxosporidia and the hitch-pin-block (lich'pin-blok), n. Screenidia hitch-pin-blok (lich'pin-blok), n. Carrenidia hitch-pin-blok (lich'pin-blok), n.

Sarcosporidia taken together. Also Histozoa. Labba

histotherapy (his-tō-ther'a-pi), n. [Gr. $l\sigma\tau\delta\varsigma$, a web, tissue, + $\theta\epsilon\rho\alpha\pi\epsilon ia$, medical treatment.] A method of treating disease by the use of substances derived from the tissues or organs histographer (his-tog'ra-fèr), n. [histograph(y) + -er².] One who is versed in histography; a histologist. histographical (his-tō-graf'i-kal), a. Of or h

occurring in radiating groups of crystals: found in Tasmania.

hit's, v. t.—To hit off. (c) In cricket, to score (a required number of runs) by hitting or forcing the game.—To hit hkl. See *k, 6.

off the neck, in golf, to strike (a ball) on the neck of the hl. An abbreviation of hectoliter. See metric

hit¹, n. 8. In archery: (a) The act of hitting the target. (b) An arrow which hits the target. Usually a hit is scored according to its nearness to the center.—9. In base-ball, a safe hit tribes of South Africa according to which they tribes of South Africa according to which they is (see below); also, though not usually, any kind of stroke wherein the bat hits the ball.—

Base hit, in base-ball, a ball hit fairly by the batsman to such a place that it cannot be caught on the fly or thrown by a fielder to first base before the runner can reach that point.—Frair hit. See *fairl.—Free hit, in field hockey and similar games, a bit allowed, as a penalty or otherwise, with which the opponents cannot interfere.

Half-hit, in cricket, a mistimed or mistirected hit which sends the ball into the air.—Leg-hit, in cricket, a hit to leg, that is, to that part of the fled which is directly behind the batsman as he is batting. R. R. Lytetton, the ball hat is hit within the foul-lines with such force or in such a direction that a fielder cannot catch it before it strikes the ground, or cannot, even with the most accurate play, get it to the first-baseman before the runner reaches that base.—Two-base hit, in base-ball, a ball hit under such conditions as enable a runner to reach second base before the ball can be caught or fielded there.

Similarly, three-base hit, etc.

hit-and-catch (hit'and-kach'), n. A difficult shot in billiards, With the three balls almost in a straight-line 'tie-up,' with no cushion to ald, and too far out for a massé, the striker is required to carom by double contact, so as not wholly to sacrifice position. He must dive the first ball nearly full upon the second or his own will go wide of the mark. Out in the open the force communicated to the second ball will almost equal that imparted to the first, and the striker's ball has to travel about fifteen inches to catch up.

hit and miss (hit'and-mis'), a. That somentimes hits and sometimes misses. Used specifically in describing a type of governor much used on intimes hits and sometimes misses. Used specifically in describing a type of governor much used on in-(see below); also, though not usually, any

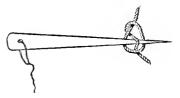
times hits and sometimes misses. Used specifi-cally in describing a type of governor much used on in-ternal-combustion engines. This governor controls the engine by making it miss an impulse as occasion de-

histopathology (his tō-pā-thol'ō-ji), n. [Gr. iστός, a web, tissue, + E. pathology.] The study of morbid changes in minute structures. Med. Record, March 28, 1903, p. 511. histophysics (his-tō-fiz'iks), n. [Gr. iστός, a web, tissue, + φυσικά, physics.] The physics of the animal and plant tissues.

Itemal-combustion engines. This governor controls the engine by making it miss an impulse as occasion dengine by making it miss a

trans. 4. In mining, to dig or pick (pockets) to receive the ends of timbers.

yachting, a tack.—Marlinespike hitch (naut.), a simple way of catching the point of the marlinespike in the seizing-stuff whereby it may be hove taut.—Mid-



Marlinespike Hitch.

found in the waters of California. Also chi.

In pianoforte-making, the bar or brace in which are the hitch-pins.

Midshipman's Hitch,

Hitopadesha (hi-tō-pa-dā'shā), n. [Skt. hitopadesa, good instruction, < hitá, good, lit. 'put, + upadesa, instruction, rule, reference.] The Sanskrit name of a collection of tales and fables. compiled from the larger collection known as the Panchatantra, and forming one of the sources of the Æsopic fables of Europe.

Hittorf rays. See obscure *rays.

Hittorf's transport numbers. See transport

*numbers.

hive, n. 6. In oyster-culture, an artificial bed

hive-syrup (hiv'sir"up), n. A syrup containing squill, senega, and tartar emetic; compound syrup of squill; croup syrup.

must show respect to certain of their relatives

eastward. Its larvæ feed on Meibomia.

hob¹, n., 3. (b) A milling-machine cutter used in forming the teeth of worm-gears. It is of the shape of the worm which is to mesh in the interdental spaces of the gear, and in use cuts out of the blank gear this space, leaving the teeth correctly formed.

7. A master die; a steel punch cut to a certain

design, used for making coining-dies.

hobbing (hob'ing), n. The process of cutting the threads of worm-wheels, dies, or chasers with a hob or master tap in a milling-machine or a lathe. See $*hob^1$, 3 (b). hobbing-machine (heb'ing-ma-shēn"), n. A milling-machine specially designed to cut gears by means of a hob. See *hob1, 3 (b).

gears by means of a hob. See *noo*, s (o).

hobo (hō'bō), n. [Origin ebscure.] A tramp. [Recent slang, U. S.]

hobson-jobson (heb'son-job'son), n. [An Anglo-Indian eerruption of the ery Ya Hasan!

Ya Hosain! of the "Mohammedans as they beat their broads in the waynession of the Mohartheir breasts in the procession of the Moharram." Yule and Burnell 7 July 2019 ram. Yule and Burnell.] In India, a native festal excitement; especially the Moharram eeremonies. Yule and Burnell. wide fire-box at the back. hog-feast (bog-fest), n. The feast that follows the killing of the family pig by a peasant

hock¹, n.—To cap the hocks. Sec ★cap¹.—Vulture hock, in fanciers' language, a tarsns clothed with stiff

hocking (hok'ing), n. The feasting and merriment of the annual hocktide festival formerly observed in England.

Hock-Tuesday money. See *moneu.

Hodgson's disease. See *disease. eaused by the fire being particularly he hodometric (hod-\(\tilde{0}\)-met'rik), \(a\). Pertaining to one part of the grate. eaused by a hodemeter; hodometrical; hogging-moment (hog'ing-m\(\tilde{0}\)-ment), \(n\). edometric.

hoe¹, n.—D-hee, a scriftle, or Dutch hoe, in which the blade is secured to the handle by curved prongs, which have, with the blade, the form of a capital D. See hoe¹, Fig. b.

hoel, v. i. 2. To play or dance a hee-dewn.

[Colleg., southern U. S.] hoe⁵, n. See *hoey. hoe-mother(hō'muth"er), n. [hoe² + mother¹.] The basking-shark, Ceterhinus maximus, found in the arctic seas. It reaches a length of nearly 40 feet.

hoe-plow (ho'plou), v. t. To dig and turn ever (earth) with a hoe as a preparation for hog-meat, n. 2. Perk.
planting. [West Indies.] hog-perch (hog-perch), n. Pereina caprodes,
The land should be ploughed or hoe-ploughed twice in a pereoid fresh-water fish found in the Great

The land should be ploughed or hoe-ploughed twice in the wettest season of the year.

Letter of John Castles from Grenada, read before the [Roy. Soc., May, 1890.

hoernesite (her'ne-sīt), n. [Named for Dr. Hörnes, an Austrian mineralogist.] A hydrated magnesium arseniate, Mg₃As₂O₈ + 8H₂O, occurring in snow-white monoclinic

erystals: found in Hungary. Also hörnesite. hoe-tusk (hō'tusk), n. A shark, Mustelus eanis, of the family Galeidæ: found in the Atlantie en the coasts of the United States and Europe. hoey, hoe⁵ (hō-ā', hō-ê'), n. [Chinese hwui, Amoy hòe, húi, Swatow húi, Fu-ehau hwi, ete.] A society of Chinese, especially a secret society of Chinese resident in a foreign community.

Hoffman kiln. See *kiln.

Hoffmann's anodyne. See *anodyne. hog¹, n. 11. A small locomotive used for hanling ears about mines; a hogback lecomotive. [Slang.]

In anthracite drifts steam locomotives of a small and peculiar type known as "hogs" haul the trains.

Sci. Amer., May 23, 1903, p. 392.

12. A machine for grinding logs. [Western U. S.] Dialect Notes, II. vi.—13. In ship-building, the condition of being hogged: generally used quantitatively with reference to the hog-truss (hog'trus), n. The main truss or amount of deflection from the normal condi-

amount of deflection from the normal condition. See hog1, v. i., 1.
hog1, v. t. 4. To act as greedily and as selfishly as a hog in regard to (something); take mere than ene's share of; apprepriate selfishly. [Slang, U.S.]
hogan² (hō-gan'), n. [Navaho qoghán.] A hut of the Navaho Indians, consisting of a



A Navaho Hogan.

conical framework covered with poles, bark, and earth. The main beams turn north, south, and west, while the entrance is on the east side. Sometimes the shelters of the Pima tribes are also called hogans.

hogback, n. II. a. Resembling a hog's back in ferm: used specifically in describing small locomotive which is very low in build and has no cab.

The motor or "electric mule" is a vehicle closely resembling a "hog-back" mine locomotive, and is 10 feet long by 2 feet wide and 30 inches from the rail.

Amer. Inventor, April 15, 1904, p. 173.

receiving steam from a boiler with a very

lows the killing of the family pig by a peasant lock, in fanciers language, a tarson clothed with stiff feathers.

While the feathering should be abundant, all semblance to vulture hock, or stiff feathering, should be avoided.

U. S. Dept. Agr., Standard Varieties of Chickens, p. 14.

nocking (hok'ing), n. The feasting and merrinocking (hok'ing), n. The feasting (hok'i or rises in the middle, as a beiler-furnace or a ship. The hogging of boiler-furnaces is usually due to the local expansion of the flue, eaused by the fire being particularly het in

> naval arch., the moment, at any given point, of the forces which tend to cause a vessel to hog: epposed to sagging-moment, that which tends to cause a vessel to sag. These moments for each point in the length of a vessel are plotted in a curve of bending-moments.

See *curves of ship calculations.

Any ordinate of the latter curve represents to scale the bending moment (usually expressed in toot-tons) at the corresponding cross-acction of the ship. Ordinates set off above the base-line indicate 'hogging' moments, while 'sagging moments' are indicated by ordinates set off below the base-line.

White, Naval Arch., p. 304.

Lakes and southward.

hog-plague (heg'plag), n. A fatal infectious disease of swine, producing necrotic ulceration of the intestinal mucous membrane, with semetimes a secondary involvement of the lungs; hog-eholera.

hog-pox (heg'poks), n. An acute febrile eruptive disease of swine similar to sheep-pox and

smallpox, characterized by the formation of peeks in various parts of the body.

Hogahead of augar, in the West Indies, often a definite weight of 1,600 pounds.

hog's-pence (hegz'pens), n. Roman eeins feund in Leieestershire: so ealled from being

turned up by swine.

hog-tie (hog'ti), v. t.; pret. and pp. hog-tied,
ppr. hog-tying. To tie as a hog is tied, all four feet together.

Mr. Masterson wore a narrow crimson sash wound twice about his waist, . . . and when [he] donned it, . . . he explained the same as something wherewith he might hogtie steers when in the course of duty he must rope and throw them. Doubtless the sash, being of a soft, reluctant texture and calculated to tie very tight into knots that would not slip, was of the precise beat material with which to hogtie steers.

A. H. Lewis, Sunset Trail, p. 3.

frame of a dredge or boat. See cut under hog-frame.

The upper structure of the boat (which is stayed by means of hog trusses and 22-foot King posts) covers its full width and the rear eighty feet of its length.

Elect. World and Engin., Oct. 1, 1904, p. 559.

hogweed, n. 2. In the West Indies, any one of several plants of the genus *Boerhaavia*, especially *B. ereeta*, which is much relished by hogs

hohlflute (hōl'flöt), n. [G. hohlflöte, < hohl, hellow, + flöte, flute.] In organ-building, a fluestep of metal which gives a dull, hollow tone; it is made in three or four sizes or pitches. Also holflute.

hohl-quint (hēl'kwint), n. [G.] In organ-building, a quint step of the hohlflute kind. hohmannite (hē'mau-īt), n. Same as *amaran-

hoi (hō'i), n. [Polynesian.] In Hawaii and Tahiti, the common yam, Dioseorea sativa. Before the introduction of the potato it was cultivated for the supply of ships.

cultivated for the supply of snips.

Noist, n.—Builders' holat, a bolsting-machine of a portable or semi-portable type, having the boller, engine, and drum on one bed, for use in raising building materials in structures in process of erection.—Holat-conveyer. See *conveyer.—Traveling holst, any form of hoist in which the hoisting-motor or -machine is arranged to travel along an elevated trackway. In the electric traveling hoist, the motor, gearing-blocks, and hoisting-ropes are on a trolley which is supported on wheels that run on the flangea of an 1-beam or other form of beam.

In some hoists the operator travels in a cab auspended from the track, operating the motor to lift the load and also to cause it to travel along the track.—Tripping hoist, a hoist which trips or tips the bucket at a prescribed point, thus emptying the load automatically.

hoistaway (hoist'a-wa), n. An elevator; a hoist; a lift; a device for raising or lowering heavy weights.

hoist-hole (hoist'hol), n. An elevator-shaft; a hele or opening through which materials are heisted.

hoisting-block (hois'ting-blok), n. The lower of the two blocks of a block-and-fall; the block which moves with the load.

hoki (hō'kē), n. [Maori.] A New Zealand fish, Coryphænoides novæ-zelandiæ, belonging to the family Macruridæ, which are deep-sea gadoids. See Tasmanian *whip-tail. Austral English.

hokko, n. Seo hoeco.
hola (hō'lā), n. [Hawaiian.] A name in
Hawaii of the root and stalk of the ahuhu,
Cracca purpurea. See *ahuhu and Tephrosia.
Holacanthinæ (hol'a-kan-thi'nē), n. pl. [NL.,
< Hotacanthus + -inæ.] A subfamily of butterfly-fishes of the family Chætodontidæ, typified
by the genus Holacanthus. by the genus Holaeanthus.

Holacanthus (hol-a-kan'thus), n. [NL., < Gr. δλος, whole, + ἀκανθα, spine.] A genus of



(From Bulletin 47, U. S. Nat. Museum.)

butterfly-fishes of the family Chætodontidæ. They are characterized by the many spines in the dorsal fin, and by the presence of a strong spine on the preparation. Many of the species are brilliantly colored. H. citiaris is the angel-fish of the Florida Keys. H. tricolor is found in the same region.

holagogue (hol'a-gog), n. [Gr. $\delta\lambda oc$, whole, + $a\gamma\omega_1 \delta c$, a leader.] In med., an agent supposed to be eapable of removing all morbid humors. Holanthias (hō-lan'thi-as), n. [NL, < δλος, whole, + ανθίας, a certain fish (⟨άνθος, flower).]
A genus of fishes of the family Serranidæ

found in tropical seas.

Holarctic region or realm. See *region. holarthritis (hol-är-thrī'tis), n. [NL., ⟨ Gr. δλος, whele, + ἀρθρον, joint, + -itis.] Inflammation involving all or most of the joints of the body.

Holconoti (hol-kē-nō'tī), n. pl. [NL., pl. of Holconotus.] A group of the Embiotocidæ, or viviparous surf-fishes: found in the waters of the Pacific from California to Japan.

Holconotus (hol-kō-nō'tus), n. [NL., ζ Gr. δλός, drawing, trailing (ζ ελεειν, draw, trail, tow), + νῶτος, baek.] A genus of surf-fishes, of the family Embiotocidæ, found on the coast of California. H. rodoterus is the common species.

species. Notice v is trans.—Helding-ont eatch. See *catch1.—To hold a good full, a good luff, a good wind. See *full, *tuff2, *vind2.—To hold of. (b) To belong or pertain to; depend on or upon.

A spark disturbs our clod; Nearer we hold of Cod

Nearer we hold of God Who gives, than of His tribes that take, I must believe. Browning, Rabbi Ben Ezra, stanza 5.

To hold out. (c) In poker and other card-games, to hold (certain cards) in the sleeve or elsewhere until there is a valuable stake for which to play.—To hold the land, the luff, the wind. See *land!, *luff. *wrind2.—To hold to. (a) To adhere to: as, he still holds to his former statement. (b) Same as hold!, v. i., 7.—To hold up. (d) To refuse to give up (the commanding card of an adversary's suit), especially in whist and bridge. (e) To hold or back up (a rivet which is being headed over).

II intrans. 6 (h) Spacifically in garchers.

II. intrans. 6. (b) Specifically, in archery, to make a short pause, after drawing a bow, for fixing the aim and preparing to loose the bowstring.—7. Of a female animal, to retain the spermatozoa of the male so that she may become pregnant.—To hold true, to remain true; be applicable or indisputable: as, "the saying of the poet holds true in a large degree." S. Smiles, Character, it.

hold1, n. 8t. In old Eng. hist., the title of an officer in the Danelaw corresponding to the high reeve among the English.—Referee'a hold, in wrestling, a hold given to opponents by the referee.— Shore hold, in *lumbering*, the attachment of the hawser of a raft of logs to an object on the shore.— Tail hold, in *lumbering*, a means of obtaining increased power, in moving a log by tackle, by passing the cable through a block attached to the log and fastening the end to a stationary object, so that hanling on the other end gives twice the power which would be attained by attaching the eable directly to the log.

rectly to the log.

hold, n.—Hold stanchions. See *stanchion.—Lower hold (naut), the second space beneath the spar-deck, or the space under the lower deck, of a vessel having two decks.—To break out the hold, to begin to nnload the cargo of a ship; break bulk.

hold-all (hold'âl), n. A portable bag or case used in traveling, etc., for holding miscellane-

ous articles.

hold-down (höld'doun), n. A device to prevent a machine or piece of apparatus from jumping or shaking: as, the *hold-down* of a saw-table. **holder-up** (hōl'der-up), n. One who holds a

sledge or anvil against a rivet which is being headed; also, a device for holding rivets by

air-pressure while they are being driven.holdfast, n. 3. The root-like organ of attachment developed by many of the algæ. Also haptere and rhizoid.

Kelp hold-fasts, of which none grow in the immediate vicinity, were taken in abundance by the dredge. Science, Jan., 1902, p. 59.

holding, n. 6. In archery, the short pause after drawing a bow to fix the aim and make ready for loosing the bowstring. See *hold1, v. i., 6 (b).

holding-boom (hōl'ding-böm), n. See ★storage-

holding-plate (hōl'diug-plāt), n. Same as an-

chor-plate, 1.

hold-on (hōld'on), n. Any weight, base, or heavy easting which serves to hold a portable neary easting which serves to hold a portable tool or machine in place while it is in use.—Magnetic hold-on, an electromagnet which serves to hold a tool to any iron or steel syrface. See magnetic *chuck. hold-over (höld'ö'ver), n. 1. A place of detention; a lock-up. New York Times, July 15, 1905.—2. An office-helder who remains in office or in progression hered by a very large some

fice, or in possession, beyond his regular term: sometimes used attributively.

hold-stringer (höld'string"er), n. Naut., a combination of angle-bars and plates, fitted on the inside of the frames of a vessel between the upper turn of the bilge and the lowest complete tier of beams.

hole, n.—Tap-sized hole, a hole of such a diameter as to be ready to receive the tapered end of a screw-entting tap and admit the entting of a full thread inside of it. It has the diameter of the tap measured between the bottoms of the threads on opposite ends of a diameter.

hole 1, v. i.—To hole out. (a) In golf, to play the ball into one of the holes of the course: as, to hole out in four strokes. (b) In billiards, to win by pocketing. Some billard games of mixed poekets and curous require the final shot to be a carom; others insist upon a pocket.—To hole up, to retire to a burrow for winter; to den up. hole, a., n., and adv. A simplified (and the earlier) spelling of whole.

holectypoid (ho-lek'ti-poid), a. [Holecty-poid-a.] Having the characters of, or related

poid-a.] Having the to, the Holectypoida.

Holectypoida (ho-lek-ti-poi'dā), n. pl. [NL., < Holectypus + -oida.] An order of sea-urchins

\[
 \lambda Holectypus + -oida. \right] An order of sea-urchins or Eucchinoidea. They have sn actinal, central peristome, the periproct situated beyond the dorsocentral system in the posterior interambulacrum, and a pair of pores, or only one pore, to an ambulacral plate.
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[
 \]
 \[

holesale, n., a., and v. An amended spelling of

wholesale.

holesum, a. An amended spelling of wholesome. holetrous (hō-lē'trus), a. Having the charaeters of the Holetra.

holflute, n. Same as *hohlflute.

noinuce, n. Same as *noniquie.
holiday, n.—The holidays. Specifically—(a) School vacation. (b) The Christmas season. [U. S.]
holidayer (hol'i-dā-èr), n. One who takes or makes a holiday; an excursionist or pienicker on a holiday; a holiday pleasure-seeker.
holkion (hol-kī'on), n.; pl. holkia (-ā). [Gr. δλκείον, also δλκαίον.] In Gr. archæol., a large howl

bowl.

Holland process. See *process.

Hollander, n. 2. [l. c.] In paper-manuf., a beating-engine or heater; a Holland beater.

See beating-engine.

Hollardia (ho-lär'di-ä), n. [NL. (Poey, 1858]
or 1861), named for Henri Hollard, a French professor of zoölogy.] A genus of trigger
Bil. n. A gill having filaments on both of its lower and posterior edges.

Holbranchia, n. pl. 3. A subclass of the professor of zoölogy.] A genus of trigger
Bryozoa, characterized by having the lopho
Bryozoa, characterized by having the lopho
Gr. δλος, entire, + μόρφωσε, formation.] In $S_{2} - 38$

plates, saucers, or the like. Webb, Industrial Democracy, II. 685.

The "holluschickic" are the champion swimmers of all he seal-tribe. Elliott, Fur-Seal Islands of Alaska, p. 45. the scal-tribe.

holly^I, n.—Cape holly, the saffronwood, Elwodendrum croceum.—Ground-holly, the pipsissewa or prince's-pine, Chimaphila unbellata.—Native holly, (a) In Australia, Tricondylus ilicifolius, a small tree of the family Proteacese. (b) In Tasmania, a shrub of the madder family, Coprosma hirtella. See *coffee-berry, 2.—New Zealand holly, a spiny-leaved shrub or small tree of the aster family, Shawia ilicifolia (Olearia ilicifolia of llooker), valued by the Maoris on account of its musky odor.

Hollybush sandstone. See *sandstone. holly-cherry (hol'i-cher"i), n. Same as islay. hollyhock-bug (hol'i-hok-bug), n. An Ameriean eapsid bug, Orthotylus delicatus, bright green in color. It sucks the juices of young hollyhock plants, causing them to wilt, and is also found on ash and other trees and plants.

hollyhock-disease (hol'i-hok-di-zēz"), n. See *discase

Holman's formula. See *formula. holm-berry (hōlm'ber"i), n. See *berry1. holm-gang (hōlm'gang), n. A going t A going to a holm to engage in mortal combat; the duel

then fought. Kingsley.

Holmgren test. See *test1.

Holmia¹ (hol'mi-ä), n. [NL., named after G.

Holm, a Swedish geologist.] A genus of trilobites belonging to the family Olenidæ and characterized by possessing 10 free segments

and a small unsegmented pygramia.

in the Lower Cambrian rocks.

holmia² (hol'mi-ä) n. [NL.: see *Holmia¹.] In chem., one of the rare earths, found with yttria in gadolinite, and supposed to be the oxid of a distinct element, holmium: but it oxid unseparated mixture. What are the supposed to be the companient dystation of the rare earths, found with yttria in gadolinite, and supposed to be the consisting (hol-ō-sis'tis), n. [NL. < Gr. &2005, entire, + &borne, a bladder.] A genus of Cretaecous corals having characters of the Tetracoralla. four of the septa being larger than the may be an as yet unseparated mixture. What was first called holmia has been shown to contain dysprosia, and the name now applies to what remains after this has been separated.

holmic (hol'mik), a. [holm(ium) + -ic.] In tabulæ.

chem., eoutaining holmium: as, holmic oxid; a holoedric (hol-ō-ē'drik), a. [Gr. όλος, whole, holmic salt

holmos (hol'mos), n.; pl. holmoi (-moi). [Gr. 52,1005, a round, smooth stone, a mortar, etc.] In Gr. antiq., a mortar; also, a drinking-vessel. The name is also applied to a bowl-like crater sometimes supported on a trumpet-shaped foot. The holmos frequently had two handles set low and horizontally.

holoacid (hol'ō-as-id), n. [Gr. δλος, whole, + E. acid.] In chem., a hypothetical product of the union of an acid oxid, not merely with the ele-

ments of water, but also of hydrogen dioxid. holoacral (hol-ō-ā'kral), a. [Gr. δλος, whole, + ἀκρον, summit, + -al¹.] In math., having all the summits opposite to similar summits. See

holoaxial (hol-ō-ak'si-al), a. [Gr. δλος, whole, + L. axis, axis, + -all.] Noting a form of crystal having all the axes of symmetry which can coexist, but without planes of symmetry. A. Miers.

holobaptist (hol-ō-bap'tist), n. [Gr. $\delta \lambda o c$, whole, $+ \beta a \pi \tau i \sigma \tau \phi c$, baptist.] One who baptizes the whole body; an immersionist.

Another hindrance to the extension of many deep-sea species is that they are holobenthic, that is, do not pass through a free swimming larval stage.

Encyc. Brit., XXXIII. 935.

holobranch (hol'ō-brangk), a, and a. [Gr. $\delta 2 o c$, whole, $+\beta \rho \dot{a} \gamma \chi u$, gills.] I. a. Having each branchial arch provided with a pair of hemibranchs or half-gills: said of the gills of fishes.

fishes, of the family Triacanthidæ, found on phore unbroken and either eireular or horse-

the coast of Cuba.

hollow-backed (hol'ō-bakt), a. Having the back abnormally curved downward: a common deformity in horses. Less properly, same as *broken-backed, 3.

hollower (hol'ō-èr), n. A machine for hollowing out the inner sides of the staves for a keg. barrel, or eask.

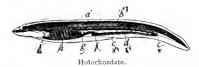
O China. glass, and other continuous of the staves for a keg. barrel, or eask.

O China. glass, and other continuous of the simple vegetative body into a sporangium or a spore. vegetative body into a sporangium or a spore. holocarpous (hol-ō-kār'pus), a. [Gr. δλος, whole, + καρπός, fruit, + -ous.] Same as *hol-

holluschick (hol'us-ehik), n.; pl. hollus-holluschick (e-lik-i). An American corruption, in Alaskan waters, of holostiak, a young male fur-seal. See *holostiak. siphuncular segments reach from the septum of origination to the next septum apicad or beyond this

holochoanitic (hol/o-kō-a-nit'ik), a. Of or resembling the Holochoanites; having the strueture of the siphuncular wall as in the Holochoanites

holochordate (hel- $\bar{\phi}$ -kôr'd \bar{a} t), a. [Gr. δλος, whole, + χορδή, ehord, + -ate¹.] Having the



Young Amphioxus during the adolescent period. (After Kowalevsky.) a, notochord extending entire length of body: b, syninchord; c, anus; d, intestine; c, atrial pore; f, liver; g, gill-slit, with tongue-barin act of formation; h, gill-slit; d, oral tentacles. (Magnified.) (From Marshall's "Vertebrate Embryology.")

ehorda or notochord extending the full length

of the body, as Amphioxus. holochroal (hō-lok'rō-al), a. [Gr. $\delta \lambda o c$, whole, $+ \chi \rho \delta a$, the skin, $+ -a l^{1}$.] In the compound eyes of trilobites and other crustaceans, having a corneous layer extending continuously over the entire visual surface, as in Proëtus, Asaphus, etc. Contrasted with *schizochroal.

rest and the visceral chamber containing

+ ¿¿ópa, seat, base.] In group-theory, designat-ing isomorphism in which two groups are simply isomorphie.

hologonic (hol-ō-gon'ik), a. [Gr. δλος, whole, + γωνία, angle, + -ic.] Same as *holoacral. hologonidium (hol "ō-gō-mid'i-um), n.; pl. hologonidia(-ä). [Gr. δλος, whole, + NL. gonid-ium.] A group of algal cells invested with fungus threads which, under proper conditions, may reproduce the thallus of a liehen. Also soredium.

soredium.

holohedron (hol-ō-hē'dron), n. [Gr. δλος, whole, + εδρα, seat, base.] A holohedral (holosymmetrie) crystal. See *holosymmetrie, 2. holohexagonal (hol/ō-hek-sag'ō-nal), a. [Gr. δλος, whole, + εξάγωνος, six-cornered, + -all.] See *holosymmetrie, 2.

holohyaline (hol-ō-hī'a-lin), a. [Gr. δλος, whole, + νάλανος, of glass.] In petrog., comwhole, + ὑάλωος, of glass.] In petrog., e pletely glassy; without crystals. holo-isometric (hol″ō-ī-sō-met'rik), a. *holosymmetrie, 2.

whole body; an immersionist.

holobenthic (hol-ō-ben'thik), a. [Gr. δλος, entire, + E. benthic.] Completely benthie; living on the bottom under the water and nowhere else. See *benthos, *benthic.

Another hindranee to the extension of many deep-sea species is that they are holobenthic, that is, do not pass through a free supporting larged stage. trate Muscidæ.

holomorphic, a. 2. (b) Noting a function of a complex variable which is continuous, one-valued, and has a derived function when the variable moves in a certain region of the plane: so called to indicate that it is like an integer function for which this property holds through-

Under this heading we may distinguish two cases, in one of which the entire lost part is at once, or later, replaced—holomorphosis; in the other the new part is less than the part removed—meromorphosis.

T. H. Morgan, Regeneration, p. 24.

holoparasite (hol-ō-par'a-sit), n. [Gr. δλος, whole, + παράσιτος, parasite.] A completely parasitic plant. Compare *hemiparasite.

Holoparasites, which live entirely at the cost of the organic substance of their host, like holosaprophytes are devoid of chlorophyll and, if phanerogams, develop scales in the place of foliage-leaves.

A. F. W. Schimper (trans.), Plant-Geog., p. 203.

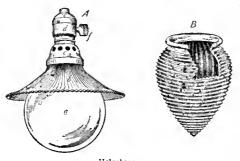
holoparasitic (hol "ō-par-a-sit'ik), a. [holoparasite + -ic.] Pertaining to or of the nature of a holoparasite.

The degree of councxion between the two and the dependence of the parasite upon the host vary between the completeness of that of holoparasitic Rhizanths, in which little more than the flower of the parasite is visible upon the outside of the stem of the host and the parasitism is absolute, and the limitation of that of the hemiparasitic Rhimanthere, in which to all appearance there is an independent autotrophic geophyte.

Encyc. Brit., XXV. 439.

Holopea (hol-ō-pē'ii), n. [NL., \langle Gr. $\delta\lambda_{0}$, entire, + $\omega\psi$ ($\omega\pi$ -), face.] A genus of Gasteropoda belonging to the family Littorinidae. It is characterized by a short conical shell and roundly oval aperture with entire margin, and occurs in the Silurian and Devonian rocks.

holophane (hol'ō-fān), n. [Gr. ὅλος, whole, + -φαινης, < φαίνεσθαι, appear.] A trade-name of



Holophane.

A, meridian lamp with holophane reflector: a, bulb; b, holophane reflector; c, reflector-holder; d, socket-cover; e, socket-cap; f, key. B, holophane globe.

a glass globe or reflector for electric or other lights, of clear glass, pressed, either only on the outer surface or on both surfaces, with prismatic corrugations: in the latter case the prisms of the inner surface are at right angles to those of the outer surface and are arranged so as to scatter the transmitted light in the special manner required.

holophrase (hol'ō-frāz), n. Same as *holo- holostylic (hol-ō-stil'ik), a. phrasm. See holophrasis.

holophrasm (hol'ō-frazm), n. [Irreg. formed from holophrasis.] A holophrastic expression. Amer. Anthropologist, Oct.-Dec., 1900, p. 615.

holophyte (hol'ō-fit), n. [Gr. δλος, whole, + φυτόν, plant.] In bot., a plant which manufactures its own food, being in no sense saprophytic or parasitic.

holophytic, a. 2. In bot., having the character of a complete plant in point of nutrition; autotrophie: said of ordinary green plants as

opposed to parasites and saprophytes.

holoplankton (hol-ō-plangk ton), n. [Gr. ōλoc, entire, + NL. plankton.] The plants and animals that pass their whole life swimming or floating in the water, considered collectively and in contrast with those that float or swim for only a part of their lives, passing the rest upon or in the bottom. See *hemibenthic, *holobenthic, *hemiplankton, *holoplanktonic, *holoplankto *planktonic.

holoplanktonic (hol "ō-plangk-ton'ik), a. [holoplankton + -ic.] Living in the water of the sea throughout life: contrasted with *meroplanktonic (which see). Haeckel (trans.), Planktonic Studies, p. 583.

holopneustic (hol-op-nū'stik), a. [Gr. δλος, entire, + "πνευστός, < πνείν, breathe.] Having many pairs of external openings to the air. Most adult insects are holopneustic, being provided with a tractical system which communicates with the outer air

a tracheal system which communicates with the onier air through many pairs of stigmata or external apertures. holopodous (hō-lop'ō-dus), a. Belonging to or characteristic of the family Holopodidæ.

holoptic (hō-lop'tik), a. [Gr. δλος, whole, + οπτικός, of sceing.] In entom., having the eyes of the two sides meeting in a line on top of the head, as in many male dipterous insects.

holorhiny (hol- $\bar{\phi}$ -rī'ni), n. [Gr. $\bar{\phi}\lambda oc$, whole, $+\dot{\rho}ic$ ($\dot{\rho}u^*$ -), nose, $+-\dot{\rho}^3$.] In ornith., the fact or condition of having holorhinal nostrils, that is, of having the narial openings more or less oval in shape and with their posterior margin in advance of the posterior ends of the premaxillaries.

holosaprophyte (hol-ō-sap'rō-fīt), n. [Gr. δλος, whole, + E. saprophyte.] A completely saprophytic plant. See extract under *holo-

parasite.
holosaprophytic (hol/ō-sap-rō-fit'ik), a. Pertaining or relating to a holosaprophyte.
holospheric (hol-ō-sfer'ik), a. [Gr. δλος, whole, + σφαῖρα, sphere, + -ie.] Of the entire globe. — Holospheric anomaly, the departure of a local temperature from the holospheric normal for that latitude. — Holospheric isabnormal, a line connecting places having the same holospheric anomaly. Sella, 1896. — Holospheric normal, the average temperature of the whole of any two circles of equal latitude in the northern and southern hemispheres. Sella, 1896.
holostiak (ho-los-tväk'), n.: pl. holostioks or

holostiak (ho-los-tyäk'), n.; pl. holostioks or (after Russian) holostiaki (-tyä'ki). [Russ. kholostyákű (pl. -kű), a bachelor.] A young male fur-seal; a bachelor seal. Compare *hotluschiek.

He carefully distinguishes the various classes of seals, . . . the polusikatchi, or young bulls; the holustiaki, or bachclors. L. Stejneger, Russian Fur-seal Islands, p. 60.

Holostomatidæ (hol/ō-stō-mat'i-dē), n. [NL.] An erroneous form for Holostomidæ.

[NL.] An erroneous form for Holostomidæ.

Holostomidæ (hol-ō-stom'i-dē), n. pl. [NL., < Holostomum + -idæ.] A family of trematoids of the order Malacotylea. They have two suckers and a peculiar adhesive apparatus behind the ventral sucker on the anterior region of the body, and the body divided into an anterior flattened and a posterior cylindrical region. The family contains the genera Holostomum, Diplostomum, Henistomum, and Polycotyle, found mostly in the alimentary canal of hirds, reptiles, and mammals, rarely in amphibia and fishes.

Holostomum (hō-los'tō-

Holostomum (hō-los'tō-mum), n. [NL., < Gr. δλος, whole, + στόμα, mouth.] The typical genus of the family Holostomidæ. family Nitzsch, 1816.

[holostyl-y + -ic.] Relating to or having the condition of the visceral arches known as holostyly.

holostyly (hō-los'ti-li), [Gr. $\delta \lambda o \varsigma$, entire, $+ \sigma \tau \tilde{\nu} \lambda o \varsigma$, pillar, $+ -y^3$.] The condition of having the palatoquadrate fused with the cartilaginous cranium and the second visceral arch entire and free from the cranium. It occurs in the chimæras or Hotocephali. W. K. Gregory, 1904.

holosymmetric, a. Specifically—2. Having the highest degree of symmetry possible under the given system, and hence showing the maximum number faces for each form.

The holosymmetric forms under each of the crystalline systems are sometimes designated, respectively, as holosometric (also holotesseral, etc.), holotetragonal, holohexagonal, etc.—Holosymmetric group. See *sym-

holosystematic (hol "ō-sis-te-mat'ik), a. Same as **holosymmetric*, 2.

holotesseral (hol-ō-tes'e-ral), a. [Gr. öλος, whole, + L. tessera, a square, + -all.] See

*holosymmetrie, 2.
holotetragonal (hol*ō-te-trag'ō-nal), a. [6 δλος, whole, + τετράγωνος, four-cornered, -all.] See *holosymmetric, 2.

biol., the perfect replacement or regeneration of a lost part, as contrasted with *meromor-phosis.

Holops (hol'ops), n. [NL., ⟨ Gr. δλος, whole, holotonia (hol-ō-tō'ni-ä), n. [NL., ⟨ Gr. δλος, whole, holotonia (holotonia (hol-ō-tō'ni-ä), n. [NL., ⟨ Gr. δλος, whole, holotonia (holotonia (holoton

holotonic (hol-ō-ton'ik), a. [holotonia + -ic.] Relating to or affected with holotonia. holotrichal (hō-lot'ri-kal), a. Same as holot-

holotype (hol'ō-tip), n. [Gr. δλος, entire, + τύπος, type.] A particular individual selected as the type of a species, or the only specimenknown at the time of publication of the spe-

A holotype, therefore, is always a single individual, but may embrace one or more parts, as the skin, skeleton, or other portions. Science, April 23, 1897, p. 638.

holoxid (hol-ok'sid), n. [Gr. ôlog, whole, + oxid.] In chem., a compound assumed to contain as a constituent molecular instead of atomic oxvgen.

Holstein-Priesian cattle. See *cattle.

Holy City. (b) A nickname for Adelaide, South Australia. E. E. Morris, Austral English.— Holy-Cross toad. Same as Catholic *frog.

holzin (hölt'sin), n. [G. Holz, a German surname (?), +-in².] A solution of formalin in methyl alcohol, used as a deodorizer.

holzinol (hölt'si-nol), n. [holzin + -ol.] mixture of menthol and formalin.

hom³ (hōm), n. Same as *homa. homa (hō'mä), n. [Middle Pers. hōma, Avestan haoma, = Skt. soma: see soma².] Same Same.

as soma².

The Soma or Homa ceremony consisted in the extraction of the juice of the Homa plant by the priests during the recitation of prayers, the formal presentation of the liquid extracted to the sacrificial fire, the consumption of a small portion of it by one of the officiating priests, and the division of the remainder among the worshippers. As the juice was drunk immediately after extraction and before fermentation bad set in, it was not intoxicating. The ceremony seems to have been regarded, in part, as having a mystic force, securing the favor of heaven; in part, as exerting a beneficial influence upon the body of the worshipper through the curative power inherent in the Homa plant.

G. Rawlinson, Seven Great Monarchies, The Third [Monarchy, II. iv.]

The word is used erroneously in the following quotation:

Persia was accustomed to set her own peculiar seal upon her figured webs by mingling in her designs the mystic "homa." . . Borrowed perhaps originally from Hebrew tradition, this symbol of "the tree of life" had in it nothing objectionable to the Christian, the Jew, or the Moslem.

D. Rock, S. K. Handbook, Textile Fabrics, p. 52.

Homacanthus (hom-a-kan'thus), n. [NL., ζ Gr. ὁμός, equal, + ἀκανθα, a spine.] A groupof slender, bilaterally symmetrical fish spines (probably belonging to the cestraciont sharks) found in the Devonian and Carboniferous.

[NL. Homacodon, the type genus, + -idæ.] A family of small, extinet, artiodactyl, ungulate mammals, which contains species about the mammals, which contains species about the size of rabbits. The brain-case is large, the orbit open, and the molars have conspicuous, conical tubercles. Nanomeryz and Bunomeryz are other genera. The species occur in the Eocene of North America and Miocene of Europe. Marsh, 1894.

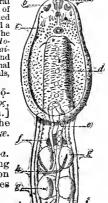
Homalocenchrus (hom/a-lo-sen/krus), n. [NL. (Mieg, 1760), in allusion to the compressed spikelets and the general resemblance of the

spikelets and the general resemblance of the plant to millet-grass, Milium effusum; 〈 Gr. δμαλός, flat, compressed, + κέγχρος, millet.] A genus of grasses. See Leersia.

Homalodontotheriidæ (hom²a-lō-don-tō-thē-rī'i-dē), n. pl. [NL. Homalodontotherium, the type genus, + -idæ.] A family of extinct artiodactyl mammals, of the suborder Aneylopoda, which contains a number of genera of large mammals from the Santa Cruz (Miocene?) of Patagonia. The skull is massive, limbs stout, and vertebral centra slightly flattened. Ameghino, 1889.

homalographic (hom/a-lō-graf'ik), a. [homalograph-y+-ic.] Pertaining to or by means of homalography: noting a method of anatomical demonstration by means of a series of plane sections, usually of a frozen body.

homalography (hom-a-log ra-fi), n. [Gr. όμαλός, level, plane, + γράφειν, write.] In anat., the study of auatomical structures by means of plane sections of the body.



Holostomida (Metastatica) Hemistomum of Birds, Hemistomum clathratum Dies., from the gut of Lutra brasifensis, entral view (from Bronn, after Brandes).

a, oral sucker; b, openings of glands, c; d, ventral adhesive apparatus (the ventral sucker is sust in front of this); c, uterus (the opening of the uterus is rather indistinctly rendered, Just below the lowere); f, ventral adhesive apparatus (the opening of the uterus is rather indistinctly rendered, Just below the lowere); f, ventral desired as minalis; j, yologlands; yologlands; cfrom Sedgwick's "Zoology.")

each of the crystalline

homaloid (hom'a-loid), n. [Gr. ὁμαλός, level, plane, + είδος, form.] A homaloidal space or

Homaloidal surface. See *surface.

Homalonotus (hem²a-lō-nō²tus), n. [Gr. όμα-λός, smooth, + νῶτος, back.] A genus of trilobites belonging to the family Calymmenidæ. They are characterized by a broad, flat body in which the lobation is very indistinct, and are usually of large size; they prevalled in the late Silurian and early Devonian.
 Homocentrically (hō-mō-sen'tri-ka Concentrically) (hō-mō-sen'tri-ka Concentrically) (hō-mō-sen'tri-ka Concentrically) (hō-mō-sen'tri-ka Concentrically)
 Homocentrically (hō-mō-sen'tri-ka Concentrically)
 Homocentrically (hō-mō-sen'tri-ka Concentrically)
 Homocentrically (hō-mō-sen'tri-ka Concentrically)
 Homocentrically (hō-mō-sen'tri-ka Concentrically)
 Homocentrically
 Homocentrically

homalotropous (hom-a-let'rō-pus), a. [Gr. όμαλός, level, +-τροπος, ζ τρέπειν, turn, + -ous.] In bot., growing in a horizontal direction.

homaxial (hō-mak'si-al), a. [Gr. $o\mu o\varsigma$, the same, + L. axis, axis, +-all.] Same as homax-

homelyn (hōm'lin), n. [Also homlin, hommelin; origin obscure.] The rough ray, Raja maculata, found on the coasts of Europe.

homeochronous (hō-mē-ok'rō-nus), a. [Gr. δμοιος, of the same appearance, like, + χρόνος, time.] Same as *homochronous.

homeophony (hō-mẹ-of'ō-ni), n. [Gr. ὅμοιος, of the same nature, + φωνή, voice, sound.] Similarity of sound.

homeopraxis (ho mẹ-ọ-prak'sis), n. [Gr. $\partial \mu o \iota o \varsigma$, of the same nature, $+\pi \rho \bar{a} \xi \iota \varsigma$, doing, action.] A similar action or a like development; a parallel evolution.

allel evolution.

This is a phenomenon of "dynamic convergence," which the author calls "homeopraxis." It is, indeed, very striking that the rightful tenant and the insimuated parasite which replaces it should have similar adaptations, both structural and functional, securing emergence. There is a parallel adaptation of host and parasite to the same conditions.

Jour. Roy. Micros. Soc., Dec., 1904, p. 649.

homer¹, n. 2. In base-ball, a home run. Homerist (hô'me-rist), n. 1. A Homerie scholar; a student or an admirer of Homer or his poems. - 2. An imitator of Homer or his

Homerologist (hō-me-rol'ō-jist), n. One who

is versed in Homerology.

homested, n. and v. A simplified spelling of homestead.

homester (hom'ster), n. [home + ster.] One who belongs to or represents the locality; especially, a member of the local or 'home

team in any sporting contest. [Eng.]

Homesthes (hō-mes'thēz), n. [Nl. (Gilbert), (Gr. όμός, the same, + εσθίειν, eat.] A genns of blennies found on the coast of Panama.

homethrust (hōm'thrust), v. i. To thrust home; deliver a home thrust; hit the mark di-

rectly and with effectiveness.

hominal (hom'i-nal), a. [L. homo (homin-), man, + -all.] Pertaining to or characteristic

of man or mankind; human. [Rare.]
hominian (hō-min'i-an), n. [L. homo (homin-),
man, +-ian.] One of the Hominidæ; a human being.

hominify (hō-min'i-fī), v. t.; pret. and pp. hominified, ppr. hominifying. [L. homo (homin-), man, + ficare, < facere, make.] To render manlike or human; attribute human qualities

to: make man. hominocentric (hom "i-no-sen'trik), a. [L. homo (homin-), man, + centrum, center, + -ic.]
Pertaining to the doctrine or idea that all
things are created or designed to please or

satisfy man. [Rare.] It was the old Idea that all things exist merely to please man: this hominocentric doctrine Darwin disproved.

L. H. Bailey, Ontlook to Nature, p. 272.

homobiophorid (hō'mō-bī-of'ō-rid), n. [Gr. ομός, the same, + Ε. biophorid.] See *biophorid. homobranchiate (hō-mō-brang ki-āt), a. [Gr. ομός, the same, + βράγχια, gills, + -atel.] Having gills of uniform structure, as decapod constants.

crustaceans; pertaining to or having the characters of the Homobranchia. homobront (hō'mō-bront), n. [Gr. $\delta\mu\delta\varsigma$, the same, $+\beta\rho\sigma\nu\tau\dot{\eta}$, thunder.] A line connecting points around an advancing thunder-storm at

which the first thunder is heard simultaneously; an isobrent. Von Bezold. homocamphoric (homo-kam-for'ik), a.

cyancamphor with potassium hydroxid. It melts at 234° C., and was at one time called, incorrectly, hydrocamphocarboxylic acid.

homocentrically (ho-mo-sen'tri-kal-i), adv.

ouoc, the same, + L. cerebrum, brain, + in^2 .] A colorless compound, $C_{70}II_{138}O_{12}N_{2}(?)$, formed by the action of barium hydroxid solution on brain matter. It crystallizes in transparent spheres, melts at 170-176° C., and is also called *phrenosin*.

spheres, meits at 10-110 C., and is also carred purenosco. homochelidonin ($h\tilde{o}'m\tilde{o}$ -ke-lid $'\tilde{o}$ -nin), n. [Gr. $o\mu\delta c$, the same, + Chelidon(ium) + - in^2 .] An alkaloid, $C_{21}H_{21}O_5N$, obtained from the root of Sanguinaria Canadensis. Two compounds

same, τ 11. and τ 22. onial.

Home counties. See *county1.

home-bird (hom'berd), n. A bird raised or cared for in the home; hence, a child nurtured home influences.

**home, and under home influences.

Total and in the humanities

home counties. See *county1.

the former metts at the former metts at the former metts at the raise of the former metts at th same direction; identical in form and direction.

homochirally (hō-mō-kī'ral-i), adr. In a homochiral manner.

homochlamydeous (home-kla-mid'e-us), a. [Gr. $\delta\mu\delta\varsigma$, the same, $+\chi\lambda\alpha\mu\delta\varsigma$ ($\chi\lambda\alpha\mu\nu\delta$ -), cloak, + -e-ous.] In bot., dichlamydeous, but with all the members of the perianth similarly colored. In plant development, the homochlamydeous stage succeeds the homoiochlamydeous, and is followed by the heterochlamydeous.

homochromosome (hō-mō-krō'mō-sōm), [Gr. όμός, the same, + χρώμα, color, + σώμα, body: see *chromosomc.] An ordinary or typ-An ordinary or typical chromosome, as contrasted with an acces-

sory chromosome.

Montgomery's (26) terms homochromosome and heterochromosome to distinguish between the ordinary chromosomes and the accessory. Biol. Bulletin, Dec., 1904, p. 6.

homochromy (hō-mok'rō-mi), n. [Gr. $\delta\mu\delta c$, the same, $+\chi\rho\bar{\nu}\mu\alpha$, color.] The coloring of organisms in resemblance to the prevailing color of [homochromatism (hō''mē-ō-krō'ma-tizm), n. [homochromatism (hō''mē-ō-krō'ma-tizm), n. their normal environment; general cryptic col-

homochronic (ho-momochronic (ho-momochronic (ho-momochronic (ho-momochronic (ho-momochronic (ho-momochronic (ho-momochronic heredity. See *heredity. homochronic (hō-mok'rō-nus), a. [Gr. όμό-χρονος, of the same time, ζόμός, the same, + χρόνος, time.] Appearing in the children at the same age as in the parents. See the extract.

| Appearing in the children at the same age as in the parents. See the extract. | Commongeneous (hō-mō-ō-je'nē-us), a. [Gr. όμοιογενης, of like kind, + -cous.] Of a similar kind. | Commongeneous (hō-mō-ō-je'nē-us), a. [Gr. όμοιογενης, of like kind, + -cous.] Of a similar kind. | Commongeneous (hō-mō-ō-je'nē-us), a. [NL., commongeneous (hō-mō-ō-je'nē-us), a. [Commongeneous (hō-mō-ō-je

mosis formed between terminal twigs of the

same artery: opposed to *heterocladic.

Homocœla (hō-mō-sē'lä), n. pl. [NL., < Gr. ομός, the same, + κοῖλος, hollow.] A suborder of calcareous sponges in which there are no flagellated chambers, the entire internal surface being lined by collared cells. It includes

the family Asconidæ. Compare *Heterocæla.
homocœlous (hō-mō-sē'lus), a. [Gr. ὁμός, the same, + κοίλος, hollow, + -ous.] Having the gastral layer of cells continuous, as in sponges of the family Clathrinidæ; resembling or having the characteristics of the Homocœla: opposed to *heterocælous.

to *heterocætous.
homoconine (hō-mō-kō'nin), n. [Gr. ὁμός, the same, + E. conine.] A colorless liquid, C₅H₉ (NH)CH₂.CH(CH₃)₂, closely allied to conine, which it resembles in edor. It boils at 181-182° C. Also called a-isobutylpiperidine.

homocyclic (hō-mō-sik'lik), a. and n. [Gr. $\dot{\phi}\mu\dot{\phi}_{c}$, the same, $+\kappa\dot{\kappa}\kappa\dot{\lambda}\phi_{c}$, circle.] I. a. Having the same or only one circle or cycle.

Spectra of the third variety. These show absorption bands, and the substances yielding them are generally constituted on the type of benzene, naphthalene, anthracene, phenanthrene, &c.; but the rings may be either homocyclic or heterocyclic without the character of the spectra being altered.

Nature, Sept. 17, 1903, p. 475.

II. n. A closed-chain compound in which the ring consists only of carbon atoms, as benzene.

homocamphoric (hō'mō-kam-for'ik), a. [Gr. Homocysteæ (hō-mō-sis'tē-ē), n. pl. [Gr. ὁμός, the same, + (cyan)camphor + -ic.] Noting an acid, a colorless crystalline compound, HO.COC₈H₁₄.CH₂.COOH, formed by boiling

It homodermatous (hō-mō-der'ma-tus), a. [Gr. ed, $\dot{o}\mu\dot{o}\varsigma$, the same, $+\dot{o}\epsilon\rho\mu a(\tau-)$, skin, + -ous.] Having the skin of uniform structure throughout the body.

homodermy (hō-mō-der'mi), n. [Gr. ôμός, the same, + δέρμα, skin.] In biol.: (a) Similarity in relation to the germ-layers. (b) The doctrine or opinion that homologous parts always stand in the same relation to the embryonic germ-layers, and that embryonic origin is the final and decisive test of homology.

homodesmotic (hō'mō-des-mot'ik), a. [Gr.

ομός, the same, + δεσμός, a bond, + -otie.]
Joining similar parts of the central nervous system: noting nerve fibers which perform this

homodontism (hō-mō-don'tizm), n. [homodont + -ism.] The condition of having a dentition in which all teeth are alike, as toothed whales. [Rare.]

homodoxia (hō-mō-dok'si-ä), n. **nomodoxia** (hō-mō-dok'si-ä), n. [NL., \langle Gr. $\delta\mu\delta c$, the same, $+\delta\delta\delta a$, opinion.] The holding of opinions in common; or, opinions held in common. G. S. Hall, Adolescence, II. 133.

homodrome (hō'mō-drōm), n. [Gr. ὁμός, the same, + ὁρόμος, a running.] In physiol., a positive induction current. Proc. Roy. Soc. (London), July, 1902, p. 190. homodynamic (hō'mō-di-nam'ik), a. Same

as homodynamous in all senses.

homodynamous, a. 2. Noting the absence of a condition of dominance in respect to a given character in ancestral inheritance. When the character in ancestral inheritance. When the cross-bred offspring of two parental races or varieties breeds true or produces offspring like itself, the parents of the cross-bred offspring are held to be homodynamous. Homodynamous determinant. See **determinant.*

homeocephalic (hō"mē-ō-se-fal'ik), a. [Gr. όμός, the same, + κεφαίή, head, + -ic.] Relating to skulls of similar type.

homeochromatic ($\hbar \delta'' m \bar{e} - \bar{o} - k r \bar{o} - mat'ik$), a. [Gr. $b\mu a o c$, like, $+ \chi \rho \bar{b} u a (\tau^{-})$, color.] Exhibiting similar colors (in different adjacent species); of or pertaining to homeochroma-

in the colors of different species of animals or their normal environment; general cryptic cororing.

homochronic (hō-mō-kren'ik), a. [As homochron-ous+-ic.] Appearing in the offspring at the same point of development as in the parent.—Homochronic heredity. See *heredity.

Composition of the colors of different species of animals or plants that occur in the same locality. Athenway, Oct. 24, 1903, p. 552.

homocorystalline (hō-mē-ō-kris'ta-lin), a. [Gr. ōµoooc, like, + E. crystalline.] In pietrog., composed of crystals or grains of equal size: sematimes applied to evenly granular crystal-incomposed of crystals or grains of equal size:

homeokinesis (hō"mē-ō-ki-nē'sis), n. [NL., ⟨ Gr. ὑμοιος, like, + κίνησις, motion.] The form of karyokinetic or mitotic cell-division iu which the two daughter-nuclei receive chromosomes of the same kind: opposed to *heterokinesis.

homœomorphic (hō mē-ō-môr'fik), a. [Gr. ομοιόμιορφος, of the same form, + -ic.] Of similar type or order.

In a remarkable proportion of cases of mental and other nervous disturbances we find a history of antecedent nervous conditions, either homeomorphic, i.e., of the same order, or heteromorphic, of different type.

Buck, Med. Handbook, IV. 660.

homeomorphous, a. 2. Of like shape and structure.

homeoplasia (hō/mē-ō-plā'si-ā), n. [NL.. ⟨Gr. ομοιος, like, + πλάσις, forming.] The assumption by the tissues of one part of the body of the form of those from another region, as when the skin of the arm is grafted on the check to heal a wound.

heat a would.

homeosis (hō-mē-ō'sis), n. [NL., ⟨ Gr. δμοιωσις, a becoming like, likeness, ⟨ δμοιοῦν, make like, ⟨ δμοιος, like.] Inbiol., the presence in an organism of a normal member of a meristic series of parts in an abnormal position, as the presence, in a crustacean, of an autenna as the presence, in a crustacean, of an autenma in the place where the eye is normally situated. When homeosis is exhibited in the part that replaces a part that has been removed, as when the amputated eye of a crustacean is replaced by an antenna, the phenome-non is termed heteromorphosis. See *heteromorphosis and *metamorphy, 2.

For the term 'Metamorphy' 1 therefore propose to substitute the term 'Metamorphy' 1 therefore propose to substitute the term 'Homerosis', which is also more correct; for the essential phenomenon is not that there has merely been a change, but that something has been changed into the likeness of something else.

W. Bateson. Study of Variation, p. 85.

(hō'mē-ō-thèrm), ... [MGr. homæotherm the surrounding medium; a warm-blooded animal. [Rare.]

These phenomena, which are numerous . . . in animals of the higher class (hom exotherms), are much less so in cold-blooded animals. Smithsonian Rep., 1890, p. 411.

homeothermal ($h\bar{o}^*m\bar{e}$ - \bar{o} -ther'mal), a. [As homeotherm + - al^1 .] Having blood which retains a uniform temperature notwithstanding homogomph (hō'mō-gomf), a. the temperature of the environment: said of warm-blooded as opposed to cold-blooded, pecilothermic, or heterothermal animals.

homeothermic (hō "mē-ō-thèr'mik), a. [homæotherm + -ic. Of or pertaining to homeotherms or warm-blooded animals; homeothermal.

homeothermism (hō'mē-ō-ther'mizm), n. homogony, n. 2. In biol., same as homogenesis.
[As homocotherm + -ism.] The maintenance homographic, a. 3. In philol., of or pertainby warm-blooded animals of a bodily temperature which is independent of that of the surrounding medium.

homœotic (hō-mē-ot'ik), a. [homæosis (-ot-) + →c.] Pertaining to or characterized by

Though in some of these examples there may be change in the total number of vertebre shewing that true Meristic change has occurred, they cannot well be treated apart from the more distinctly Homeotic cases.

W. Bateson, Study of Variation, p. 106.

Homœotic variation. See *variation.

homœotopy (hō-mē-ot'ō-pi), n. Such a similarity of words as leads to errors in copying. homeotype (hō'mē-ō-tīp), n. [Gr. ōµonos, like, eropodal. Baldwin, Diet. of Philos. and Psy-traos, type.] A specimen identified by a specialist from comparison with the original homoiothermal (hō'moi-ō-ther'mal), a. Same type, or a subsequently selected cotype: de-

for another purpose.

homeotypical (hō"mē-ō-tip'i-kal), a. [Gr. onawe, like, + τύπος, type, + -ie-all.] In cytol., of or pertaining to a form of mitosis occurring regular arrangement in the daughter-nuclei. Flemming, 1887.

homogamic (hō-mō-gam'ik), a. Same as homogamous.

homogamous, a. 2. Of or pertaining to homogamy or assortative mating. Also homogamic.

[The] whole range of effects from pure random mating to perfectly homogamous unions.

Biometrika, Nov., 1903, p. 481.

Homogamous mating. See *mating.
homogamy, n. 2. Assortative mating; the pairing or mating of animals, or the marriage of human beings, with some common distinction. tive characteristic considered apart from the question whether the mating is due to conscious selection of, or preference for, this characteristic or is unintentional or unconscious; sexual selection in its widest sense.

If the male class of a given character tends to mate with a female class with generally like character, we have a tendency to homogamy. Biometrika, Nov., 1903, p. 481.

homogen, n. 3. A homogenous or homogenetic part or organ.

Homogeneous part. See *part.

homogenetical (hō"mō-jē-net'i-kal), a. Of or pertaining to homogeny.

homogenic (hō-mō-jen'ik), a. Of or pertaining to homogeny; exhibiting homogeny or sameness of nature.

homogenist (hō-moj'e-nist), n. [homogen-y+ One who believes that the races of mankind have had a common origin or ancestral history and that they constitute a single species.

homogenize, v. t.—Homogenized milk, a trade-name for milk which has been heated to 185° F. and forced by heavy pressure through a number of very fine open-ings, the jets impinging upon a porcelain plate. It is asserted that the result is to divide the fat into globules much smaller and more nearly uniform in size than those of the original milk, so that the product may be kept for a long time without the emulsion being broken up by the separation of cream in a distinct layer. Sci. Amer., April 16, 1904, p. 315.

homogentlsic (hō"mō-jen-tis'ik), a. [Gr. δμός, the same, +E. gentisic.] Noting an acid, a color-homology, n. (c) In chem., the relationship which the members of a homologous series bear to one another.—less compound, $HO_2C_6H_3CH_2COOH.H_2O$, Genetic homology, special homology regarded as a re-

found in small quantity in normal urine and in plant-roots. The amount is increased in cases where alkapton is present in the urine, or when the roots are geotropically stimulated. It crystallizes in prisms and melts at 146.5-147°C. Also called dihydroxy-phenylacetic

homogentisiric (hō mō-jen-ti-sin'ik), a. An incorrect term for *homogentisic.

[Gr. $\delta\mu\delta\varsigma$, the same, + γόμφος, a bolt, a nail.] lar spines or 'teeth.' Having simi-

The setigerous region ends in a conical papilla behind that for the spine, and bears a single brown spine and a series of homogomph bristles.

Annals and May. Nat. Hist., Sept., 1902, p. 259.

Man, mammals, and birds are called . . . homæether-ic — that is, warm-blooded — animals. Smithsonian Rep., 1890, p. 407.

Homogonous, a. 2. In biol., characterized by direct development, without metamorphosis or alternation of generations. or alternation of generations.

ing to homographs.-Homographic division. See

homoiochlamydeous (ho moi-o-kla-mid e-us). denote that ytelegates (no more-that-init e-us), a. [Gr. $\delta\mu\omega\omega_c$, like, $+\chi\lambda a\mu i_s$ ($\chi\lambda a\mu v\delta$ -), cloak, + E. -cous.] In bot, having a single but fully developed floral envelop, as the oaks, the nettle family, etc. In plant development the homoioehlamydeous stage succeeds the haplochlamydeous, and is followed by the homochlamydeous.

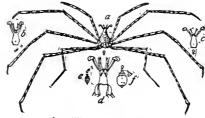
homoiopodal (ho-moi-op'ŏ-dal), a. [Gr. δμοιος, like, + πούς (ποδ-), foot, + -all.] In neurol., noting nerve-cells which have branches or processes of only one kind: opposed to *het-

as *homœothermal.

signed to replace homotype, which is in use Homola (hom'ō-lā), n. [NL. (Leach, 1815).] for another purpose.

The typical genus of the family Homolidæ. [Gr. homolecithal (hō"mō-les'i-thal) a. [Gr. ὁμός, ytol., the same, + λέκιθος, yolk, + -all.] In emring bryol, having the food-yolk uniformly disor pertaining to a form of mitosis occurring orgon, naving the 1000-york minoring distinct the secondary spermatocytes of some animals, such as the salamander, and differing eggs: opposed to *heteroleeithal. Mark, 1892. from the typical form of mitosis only in the shortness of the chromosomes and their irolation of the chromosomes and their irolation. in which the carapace is quadrangular or sub-

triangular, the eye-stalks usually very long



Latreillia valida (de Haan).

a, female; b, head of male; c, head of female; d, same, from below; e, abdomen of male; f, abdomen of female.

and slender, the orbits incomplete, and the first antennæ not retractile into special fossettes. There are 5 genera, Homola, Dicranodromia, Latreillia, Latreillopsis, and Homotogenus, and the various species extend to moderate depths.

homolinolein (hō/mō-li-nō'lē-in), n. [Gr. $\delta\mu\delta_C$, the same, + E. linolein.] In chem., the substance $C_3H_5.(C_{18}H_{31}O_2)_3$, which forms the chief constituent of linseed-oil. The name linolcin is reserved for the corresponding glycerid of an acid with 16 atoms of earbon.

homologen (hō-mol'ō-jen), n. [homolo(gous) + -gen.] The group of atoms by which a member of a homologous series differs from the one immediately preceding or succeeding it. In the methane series of compounds the homologen is CH₂.

homologous, a. (e) in pathol., noting a neoplasm composed of tissues of the same type as those of the part from which it springs: distinguished from *heterologous.

Homologous determinant, id, series, tumor, twins. See *determinant, etc.

sult of descent from a common ancestor.—Meristic homology the similarity between corresponding or repeated parts in the same individual; nearly equivalent to serial homology. The five rays of a starfish are meristically, but not serially, homologous. E. B. Wilson, Biol. Lectures, 1895, p. 101.—Parameter of homology, the coefficient of homology.

homogentisin (hō-mō-jen'ti-sin), n. An incorhomogentisin (hō-moi-jen'ti-sin), n. An incorhomogentisin (hō-moi-jen'ti-sin), n. [Gr. $\delta\mu\delta\varsigma$, the same. $+\lambda \delta\sigma\iota c$. dissolution, $+in^2$.] A lysin same, $+\lambda i\sigma \iota \varsigma$, dissolution, $+-in^2$.] A lysin which will cause the destruction of the cells of an animal of the same species.

homoglot (hō'mō-glot), a. [Gr. $\dot{\phi}\dot{\phi}c$, the same, $\dot{\phi}\dot{\phi}c$, the same language. N. E. D. types, or motives which are essentially the same in form.

Characters substantially the same, or "homomorphs" (to use Colonel Mallory's term) made by one set of people, have a different signification among others.

Haddon, Evolution in Art, p. 215.

homomorphosis (hō"mō-môr'fō-sis), n. [NL., < δμός, the same, + μόρφωσις, formation.] The replacement of a lost part in an organism by a part that is like the one that has been lost: opposed to *heteromorphosis.

When the new part is like that removed, or like a part of that removed, as when a leg or a tail is regenerated in a newt, the process is one of "homomorphosis."

T. H. Morgan, Regeneration, p. 23.

homonataloin (hō/mō-nā-tal/ō-in), n. [Gr. $\dot{\delta}\mu\dot{\delta}_{\mathcal{C}}$, the same, + (?) L. natus, born, + E. aloin.] A colorless compound, $C_{15}H_{16}O_{7}$, obtained from aloin.

homonoia (hō-mō-noi'ā), n. [Gr. ὁμόνοια, agreement, concord, ζ ὁμόνοος, of the same mind, ζ ὁμός, the same, + νόος, mind.] 1. The sharing opoc, the same, τ vooc, minu.] 1. The sharing of thoughts and sentiments; or, thoughts and sentiments mutually shared. G. S. Hall, Adolescence, II. 133.—2. [cap.] A Greek divinity equivalent to the Roman Concordia. She is often represented on coins.

homonomous, a. 2. In zoöl., made up of like segments or metameres: said of annelids or arthropods in which the various metameres are of the same or similar structure. Opposed to *heteronomous.

homonomously (hō-mon'ō-mus-li), adv. In a homonomous manner.

homonym, n. 3. Specifically, in systematic

biology, a name given to a group (usually a genus or species) at a later date than that at which the same name had been given to anwhich the same name had been given to another group. Such a name is said to be preoccupied. In order to avoid confusion with the earlier names, all homonyms are rejected. Thus the use of Torreya by Rafinesque in 1818 as the name of a genus of plants belonging to the family Menthaceæ prevents the recognition of Torreya, published by Arnott in 1838, as a valid name for a genus of the family Taxaceæ, the latter genus consequently taking its next older name Tumion, published in 1840. Similarly Agriotherium was used by Wagner for a genus of carnivores and by Spott for a genus of namivores and by Spott for a genus of name and Brachyurus was applied by Fischer to a genus of rodents and by Spix to a genus of monkeya,

Homonymous images. See *image.
homoparthenogenesis (hō * mō - pār - the - nō - jen'e-sis), n. [NL., < Gr. ὁμός, the same, + NL. parthenogenesis.] That type of parthenogenesis in which the unfertilized eggs produce only one sex, as contrasted with *heteroparthenogenesis on the production of both replay and force of the production of both replay and force on the production of both replay and force of the production of both replay and force of the production of the produc genesis, or the production of both males and fegenesis, or the production of both males and females from unfertilized eggs. When the unfertilized eggs produce only males, as in the bee, the phenomenon has been called arrhenotoky or androgenetic parthenogenesis. When females alone are produced it has been called thelytoky, or gynogenetic parthenogenesis.

homoperiodic (hō "mō-pē-ri-od'ik), a. [Gr. ομός, the same, + περίοδος, period, + -ic.] Having the same periods.

homophene (hō mō-fēn), n. [Irreg. < Gr. δμός, the same, + φαίνειν, show, appear.] A word having the same visible form or spelling as another; a homograph. homophenous (hō-mof'e-nus), a. Having the

nomophenous (no-mor e-nus), a. Having the character of a homophene.

homoplastid (hō-mō-plas'tid), n. [Gr. ὁμός, the same, + Ε. plastid.] An organism consisting of numerous cells of uniform structure: .[Gr. 6µ6ς. opposed to *heteroplastid.

homoplasty (hō'mō-plas-ti), n. [Gr. $\delta\mu\delta\varsigma$, the same, $+\pi\lambda a\sigma\tau\delta\varsigma$, formed, $+-y^3$.] Same as homoplasy.

homologen is CH₂.

homologenic (hō-mol-ō-jen'ik), a. [homologen + -ie.] Noting the molecule or group to which the homologen is successively added.

homologous, a. (e) In pathol., noting a neoplasm composed of tissues of the same type as those of the part from which it springs: distinguished from ★heterologous.

— Homologous determinant. id. series. tumor.

Homologous determinant. id. series. tumor.

homosexual (hō-mō-sek'sū-al), a. [Gr. ὁμός, the same, + L. sexus, sex, + -al¹.] 1. Of or pertaining to the same sex or to individuals of the same sex. -2. Relating to homosexuality.

In one of our cases, homosexual impulses were a feature of degeneracy. Med. Record, June 13, 1903, p. 925. homosexuality (ho"mo-sek-sū-al'i-ti), n. [hom-homosexuality (ho mo-sek-su-al 1-ti), h. [homosexual + ity.] Perverted sexual desire for one of the same sex. C. H. Hughes, in Alien. and Neurol., Feb., 1903, p. 74.
 Homosteus (hō-mos'tē-us), n. [NL., ⟨Gr. ὁμός, the same, + ὁστέον, bone.] A genus of arthrodirous fishes belonging to the family Cocatality.

costcidæ. They are of very large size, with slender and toothless jaws, and orbits completely inclosed in the head-shield. They are found in the Old Red Sandstone. homostyly (hō-mos'ti-li), n. [homostyl(ed) +

In bot., the condition of being homostyled.

homosystemic (hō'mō-sis-tem'ik), a. [Gr. bubc, the same, + E. system + -ic.] Of or pertaining to the same system, as organs derived

from the same germ-layer in the embryo. homotaxia (hō-mō-tak'si-ä), n. [NL.] Same as homotaxis.

homotenous (hō-mot'e-nus), a. Noting insects

which have incomplete metamorphoses, as op-

which have incomplete metamorphoses, as opposed to the polymorphous groups. A. S. Packard, Text-book of Entom., p. 597.

homothallic (hō-mō-thal'ik), a. [Gr. δμός, the same, + θαλλός, sprout, + -ic.] Having the zygospores formed only as the result of the same of hyphæ from a single plant or single plant or selection of hyphæ from a single plant or selection. strain: said of zygospore-forming plants.

homothermic (hō-mō-thèr'mik), a. Same as homothermous.

homothetic, a. II. n. A transformation which changes every plane figure into a homothetic figure.

For example, the group of the projective transforma-tions of the plane and the group of homothetics, that is to say, transformations which change every plane figure into a homothetic figure in figure similar and similarly placed].

Science, Sept. 16, 1904, p. 360.

homotonic (hō-mō-ton'ik), a. Same as ho-

homotopic (hō -mō -top 'ik), a. [Gr. δμός, the same, + τόπος, place, + -ic.] Occurring at the same place in the offspring as in the parent.—

Homotopic heredity. See *heredity. homotopy (hō-mot'ō-pi), n. same, $+ \tau \delta \pi o \varsigma$, place, $+ -y^3$.] . [Gr. δμός, the The development of an embryo into an adult organism by a series of changes which occur in the parts of the body in which they occurred in the develop-ment of its parents. [Rare.] Cope, in Amer. Nat., Jan., 1878.

homotype, n. (c) Same as *homocotype. homotypic, a. 2. In eytol., relating to the second nuclear division after mitapsis: so called because it is very similar to ordinary

mitosis. Cook and Swingle. homotyposis (ho mo-ti-po'sis), n. [NL., Gr. όμος, the same, + τύπωσις, < τύπος, type.] In biol., a forming after a model: a term proposed by Pearson for the correlation between meristically repeated parts.

On Homotyposis in Homologous but Differentiated Organs: Prof. Karl Pearson, F. R. S.

Nature, Feb. 12, 1903, p. 360.

Cross-homotyposis, homotyposis considered reciprocally. Biometrika, April, 1902, p. 344.

homozygosis (hō"mō-zō-gō'sis), n. [Gr. δμός, the same, + ζύγωσις, joining. See zygotc.]

the same, $+\zeta i\gamma \omega \sigma i\varsigma$, joining. Development from a homozygote. See zygotc.]

Insuch cases . . . proof of homozygosis of resolved forms will furnish the only reliable criterion.

W. Bateson, in Rep. Evol. Com. Roy. Soc., 1905, 11. 125.

homozygote (hō-mō-zī'gōt), n. [Gr. ὁμός, the same, + E. zygote.] A zygote formed by the union of two gametes of the same kind or stock: opposed to *heterozygote. See extract under *heterozygote.

homozygons (hō-mō-zī'gus), a. [Gr. $\delta\mu\delta\varsigma$, the same, $+\zeta\nu\gamma\delta\nu$, yoke, +-ous.] Of, pertaining to, or derived from like zygotes or germ-cells.

The hybrids produced by pairing a heterozygous waltz-lng form G_1G_2 with a homozygous albino GG will be of two kinds, GG_1 and GG_2 . Biometrika, Jan., 1904, p. 16.

Hon. An abbreviation (b) of honorary. Honble. A contraction of Honorable. Same as Hon. (a).

Hond. An abbreviation of Honduras.

Honduras rubber. See *rubber. honey, n .- Date honey. See the extract.

Other varieties for dates], such as the Khars, which are full of sugary julce when ripe, are not so easily handled. The Arabs usually hang up the bunches and allow the juice to drain off into jars. This julce, whileh they call date honey, is preserved and used, and the fruit, which has become somewhat dry, is then packed in boxes, or more often in skins.

more often in skins.

Yearbook U. S. Dept. Agr., 1900, p. 482. Extracted honey, honey which has been separated from the comb.—Sham honey, a hard glossy body found in the flowers of Lopezia, Parnassia, and Cleome, resem-

bling drops of nectar, and so placed as to promote cross-fertilization through the agency of the attracted insects, which are deceived by it.—White honey, honey that flows from the cells spontaneously without pressure, being that made by bees that have not swarmed. N. E. D. honey-hoard (hun'i-bord), n. In bee-keeping, a partition of perforated sheet-metal placed

a hive to confine the queen bee to the brood-chamber and yet permit other bees to pass from one division of the hive to another

through the perforations.

honey-box (hun'i-boks), n. In bec-keeping, a folding wooden box in which the bees in a hive form a comb and fill it with honey. At the end of the season the filled box is removed from the hive without disturbing the bees. Also called a honey-weeking.

Honeycomb coral. See *coral.-Honeycomb scall or tetter.

honeycomb-radiator (hun'i-kôm-rā"di-ā-tor),

n. A radiator much used on motor-cars for abstracting the heat from the cooling-water. It is made up of a series of small hexagonal passages surrounded by thin walls, and in appearance somewhat resembles a honeycomb.

honey-crop (hun'i-krop), n. The distended crop of the honey-bearers among the so-called honey-ants.

honey-drop (hun'i-drop), n. A mole or similar spot on the skin.

honey-evaporator (hun'i-ē-vap"ō-rā-tor), n. An apparatus for removing any excess of liquid from the honeycomb for the safe transportation of the latter.

honey-extractor (hun'i-eks-trak"tor), n. honey-strainer.

honey-flower, n. 2. Same as *honcy-plant, 2. See Hoya.—3. In Australia, a tall evergreen shrub of the family Proteaceae, Lambertia formosa: so named from the large quantity of nectar contained in its flowers.

honey-gate (hun'i-gat), n. A gate-valve made particularly for drawing off honey, molasses, or other thick liquids from barrels, extractors, etc.

honey-guide, n. 2. In bot., a marking or a streak of nectar or honey in a flower serving to guide the insect to the nectary.

honey-holder (hun'i-hol'der), n. honey-bearer

honey-mark (hun'i-märk), n. 1. A spot of a

honey-mushroom (hun'i-mush "rom), n.

honey-plant (hun'i-plant), n. 1. The bee-balm, Metissa officinalis.—2. A plant of the genus Hoya. - 3. In Tasmania, a shrub, Cystanthe scoparia (Richea scoparia of Hooker), of the family Epaeridaceæ, growing in the form of a very dense bush, one and a half feet high, and bearing small honey-scented flowers which vary in color from white to pink and orange.

honey-section (hun'i-sek shon), n. Same as \star honey-box.

honey-stopper (hun'i-stop"er), n. An arrangement of chitinous valves fringed with bristles at the entrance of the proventriculus or honey-

stomach of the honey-bee.

honeysuckle, n. 4. The color of the flowers
of the common honeysuckle; "a combination of the common honeysucklo; "a combination of pale pink and even paler yellow." Daily News (London), Nov. 20, 1890. N. E. D.—Cape honeysuckle, Leucadendron melliferum. See Leucadendron.—Honeysuckle ornament, in the fine arts, a peculiar type of decoration, in which there is a resemblance to a sprig or flower of the honeysuckle: found especially on late Greek vases. See anthemion (a), with cut. honey-weasel (hun'i-we'zl), n. The ratel or honey-badger, Mellivora ratel, a large member of the weasel family found in Africa. A near relative, M. indica, occurs in India. The animal is fond of honey, whence the common

mal is fond of honey, whence the common name.

honeywood. (hun'i-wud), n. The Tasmanian dogwood. See dogwood, 3, and Tasmanian. Honiton braid. See *braid1.

honky-tonk (hong'ki-tongk'), n. gery: a slang name among the negroes of the southern United States.

honoki (hō-nō'kē), n. [Jap.] A tall Japanese timber-tree, Magnolia hypoleuca. The light, gray-ish-white wood, which gradually changes to a deeper shade,

is soft, easily bent, and elastic, and has a fine, even grain, making it applicable to many uses. It is used for the groundwork in the manufacture of lacquer ware, for pattern-blocks in printing cloth, and from it is prepared the soft, fine-grained charcoal which is used throughout Japan for rubbing the lacquer, and for polishing the enamel of closenum ware. of cloisonné ware.

honor. n. 11. In golf, the right to play off first from the tee.—Simple honors, in bridge, three ont of the five honors which may be held.—To do the honors, to act as host or hostess on any oceasion, as in presiding at a bauquet or in dispensing hospitality.

honoris causa (hō-nō'ris kâ'zä). [L.] See

honthin (hon'thin), n. A tasteless, odorless compound of tannin, keratin, and albumin claimed to be unaffected by the gastric juice but decomposed into its components by the intestinal secretions: an intestinal astringent.

hood, n. 6. (b) The rise in the quarter-deck which gives more head-room to the cabin. (c)
A covering over a hatchway to protect the opening from the weather.—7. (a) A projecting shelter-like canopy over an outer door, usually carried by corbels or brackets. See hoodmold. (b) A similar projecting member over a hearth, intended to direct the smoke inward a hearth, intended to direct the smore inward toward the flue. In houses the fire might be built on a wholly open hearth without projecting jambs, and the hood six or seven feet above it was conical or pyramidal in form, leading to the flue above. This hood might hang free in the room, but was more commonly attached to the wall, from which it projected, and supported on corbels.

(a) In modern ventilation, a projection above (c) In modern ventilation, a projection above a range or furnace, intended to carry off the smell of cooking or noxious gases. (d) In chemical laboratories, a fixed appliance consisting of an inclosed and covered space within which offensive gases or vapors may be evolved and carried off by a connected flue without escaping into the room. It is usually provided with a sliding or hinged door in front for the introduction and removal of apparatus. (c) A curved cover for a machine or for any part of one. (f) The cover for a blacksmith's forge. (g) In elect., a protecting cover, also sometimes serving as a reflector, placed over an arc-lamp.

- Naval hoods, in ship-building, heavy pieces of timber which encircle the hawse-holes.— Oral hood, the fringed membrane which surrounds the vestibule or month-opening of amphioxus (Branchiostoma).

hood-cover, n. - 2. Naut., a covering of wood

or canvas for a hatch, companionway, or sky-

light.

hood-nozle (hud'noz"l), n. A nozle having a hood or hinged cover which may be swung across its mouth to cut off a part or all of the stream of water.

stream of water.

different color from the rest of the corolla of a flower, supposed by Sprengel to guide insects to the nectary.—2. Same as *honey-drop.
honey-mushroom (hun'i-mush'röm), n. The fungus Armillaria mellea, which produces a form of root-rot in trees.

stream of water.

hoof, n.—Dished hoof, a hoof in which the wall is concave from the coronet to the plantar surface.—Hoof-and-mouth disease. Same as foot-and-mouth disease (which see, under foot).—To beat the hoof. See *heat1.—To pad the hoof. See pad1.

hooflet (höf'let), n. [hoof + -let.] One of the small or false hoofs found in many rumi-north energially in deep on either side of the small or false hoofs found in many rumi-north energially in deep on either side of the

nants, especially in deer, on either side of the pair of principal hoofs; a dew-claw. They may have their supporting hones in a very v-stigial condition, as in the ox and bison, or of considerable size, as is the case with the moose and reindeer. Smithsonian Rep. (Nat. Mus.), 1896, p. 566.

hook, n. 10. In golf: (a) The angle of the face of a club when it lies in to the ball. (b)

hook. n. A ball played with a distinct curve to the left.

-11. In cricket, the *hook-stroke (which see).

-12. A curved or angled line added to a written or printed letter, or forming a part of it, or, as in phonography, used as a distinct symbol.—13. In well-boring, a fishing-tool in the form of a horizontally curved hook which engages the shoulder of rods or tools that may have become unscrewed.— Malgaigne's hooks, sharp hooks used to bind together the two parts of a fractured patella.

hook, v. t. 6. In golf, to play (a ball) so that it curves more or less to the left.

When standing too far, the ball is apt to be 'drawn' or 'hooked'—that is to say, struck with the point or 'boe' of the club, in which case the ball flies in to the left.

*Chambers' Inform., 11. 695. N. E. D.

7. In cricket, to hit (the ball) to the 'on' side with a herizontal bat, after stepping back: said of the batsman .- To hook Jack, to play truant. [Slang.]

The boy "hooked Jack" for a whole day.

Joseph Lincoln, Partners of the Tide, iv.

hook-and-strap (hûk/and-strap'), n. A hinge-strap in which the hook or pintle is an integral part of the strap. It is more customary to form the eye on the strap.

hook-book (huk'buk), n. In angling, a case in the form of a book, with leaves of cloth or other material, in which fish-hooks are kept; a fly-book.

hooker¹, n. 3. [cap.] See *Amish. Hookera (huk'e-rä), n. [NL (Salisbury, 1808), named for William Hooker (1779-1832), a British botanical artist.] A genus of plants of the family Liliacea. There are about 15 species, natives of western North America, chiefly of California. See *Brodiæa. hooker-on (huk'èr-on'), n. In mining, a bot-

tom-man; a man who puts mine-cars on a cage. Barrowman, Glossary

Hooke's law. See *law1.

Hooke's law. See *law!.
hookey2 n.—Blind hookey, a gamhling game, frequently played on trunsatlantie steamers. The banker offers the pack to the players and they divide it into several packets, face down. One of these, chosen at random, is assigned to the banker. Bets are then placed on the remaining piles and all are then turned face up. The bottom cards of each pile that are higher than that of the dealers win; those lower lose. Also called Dutch bank. hook-gage (hūk'gāj), n. An instrument for measuring the head of water on the crest of a water.

weir. See *gage2.

hook-gear (huk'ger), n. A valve-gear for engines, in which the eccentric-rod is hooked on a pin on the valve-stem.

hooklet, n. (c) One of the hook-shaped bodies which form a circle about the head of the echinococcus, and are found doating free in the fluid of a hydatid cyst.

hook-plate (hūk'plāt), n. A easting forming a long and nerrow plate from the face of which projects a line of curved hooks; an expansion-

hook-stroke (huk'strok), n. In cricket, the

hook-tender (huk'ten der), n. The foreman of a yarding-crew; specifically, one who supervises the attaching of the cable to a turn of logs. hook-worm (huk'werm), n. An intestinal paradenale: so called originally from the presence of rays or ribs, interpreted as hooks, in the membranous expansion or casual bases. The first of the nop-yielding lupulin; a lupulinic gland. See lupulin, 3. hop-grub (hop 'grub), n. The larva of an membranous expansion or casual bases. membranous expansion or caudal bursa, at the hinder end of the male worm. It infests man, cattle, dogs, foxes, sheep, seals, and other animals.

hooligan (hö'li-gan), n. Originally, a member South London gang of young street rowdies said to have been led by one named rowdies said to have been led by one named Hooligan, who indulged in boisterous horse-play and breaches of the peace; hence, any street ruffian, especially one who is a member of an organized gang; a 'hoodlum.' hooligan (hö'li-gan), v. i. and t.; pret. and pp. hooliganed, ppr. hooliganing. I. intrans. To play the hooligan.

II. trans. To assault in the manner of the hooligans.

hooliganism (hö'li-gan-izm), n. Indulgence in the boisterous horse-play and ruffianism of the hooligans of South London and other large centers of population.

There is a good deal of moralizing in print over the disorderly scenes and outbreaks of "Hooliganism" at London's patriotic town show. N. Y. Tribune, Oct. 31, 1900.

Hoop punishment, a former punishment of boys on ship-board in which their left wrists were seized to a loose sail-hoop, and each of them was provided with a nettle or lash made of rope-yarns. At the word of command the boatswain gave the boy nearest to him a cut with his cat, and he in turn hit the boy ahead of him, and so on. This form of mutual punishment was also adopted for quarrel-some members of the ship's company.

hoop-machine (höp'ma-shēn"), n. working, a power-machine for cutting barrel-hoops and the long thin strips used in making coiled barrels, and also in cutting thin vencers or strips used in making wooden fruit-baskets.

hoop-stick (höp'stik), n. 1. A thin, pliable stick or sapling used for making barrel-hoops.—2. A light stick used by children for rolling a hoop.

hoop-wood (höp'wud), n. 1. In the United States, the hoop-ash, Fraxinus nigra.—2. In Jamaica, a tree of the mimosa family, Pithecolobium latifolium. See horsewood.—3. Same as *can-hoop.

Hoorebekia (hō-re-bek'i-ā), n. [NL. (Cornelisson, 1817), named for Charles Joseph van Hoorebeke, who in 1818 published in Ghent a memoir on the relation of broom-rapes to the cultivation of clover.] A genus of dicetyle-donous plants belonging to the family Asteracex. See Haplopappus. hoot¹, n. 2. The cry of an owl.

The lover, skulking in some neighbouring copse, . . . Curses the owl, whose loud, ill-omen'd hoot
With ceaseless spite takes from his listening ear
The well-known footsteps of his darling maid.

J. Baillie, A Summer's Day.

hoot2 (höt), n. [Maori utu, money.] Money paid as compensation; payment; recompense; remnueration. [Slang, New Zealand.]

'Hoot' is a very frequent synonym for money or wage. I have heard a shearer . . . enquire of the gilt-edge clerk behind the barrier, 'What's the hoot, mate?' The Maori equivalent for money is utu, pronounced by the Ngapuhi and other northern tribes with the last syllable clipped, and the word is very largely used by the kauri-gum_diggers and station hands in the North Island.

Truth (Sydney), Jan. 12, 1896, quoted in E. E. Morris, Austral English.

hop², n.—Hop plant-louse. Same as *hop-aphis.—
Native hop. (a) In Australia, same as hop-bush. (b) In
Tasmanta, a leguminous shruh, Daviesia latifolia. Also
called bitter-leaf.—Wild hop. (a) See wild hop, under
wild 1. (b) Same as native *hop (b).
hop-aphis (hop'ā"fis), n. A plant-louse of the

family Aphididæ, Phorodon humuli, common to Europe and the United States. It winters in the egg state on plum-trees and develops a winged generation in spring which flies to the hop-plant, a return migrant generation be-ing developed in the ing developed in the autumn. Also called antumn. Also called hop-fly, hop-louse, and hop-plant louse.

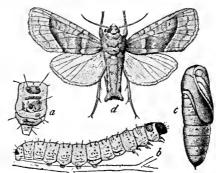


Hop-aphis (Phorodon humuli) of the generation which flies to the hop, enlarged; a, head, still more enlarged.

projects a line of curved hooks; an expansionplate. It is fastened to a wall to support a series of steamheating pipes. When rings are substituted for hooks it is
called a ring-plate.
hook-stroke (huk'strök), n. In cricket, the
stroke in which the batsman steps back and
hits the ball round to the 'on' side with a
horizontal bat.
hook-tender (huk'ten"der), n. The foreman of
a varding-crew; specifically, one who super-

one who cultivates hops.

hop-gland (hop'gland), n. One of the glands on the fruit of the hop-yielding lupulin; a



Hop-grub (Gortyna immanis). a, enlarged segment of larva; b, larva; c, pupa; d, adult. (Three fourths natural size.)

American noctuid moth, Gortyna immanis. See *hop-borer.

Ropkinson effect, the sudden loss of magnetic susceptibility by iron at or just above the critical temperature (75°C): discovered by Hopkinson in 1889.

Hoplites (hop-li'têz), n. [NL., & Gr. ὁπλίτης, an armed man: see hoplite.] A genus of Cretaceous ammonites belonging to the family Hoppinson of the ambondor Puchagement is the second litidæ of the suborder Pachycampyli. It is characterized by high volutions and forked ribs with prominent tubercles.

Hoplitidæ (hop-lit'i-dē), n. pl. [NL., < Hoplites + -idæ.] A family of the ammonoid cephalopods belonging to the suborder Pachycampyli. It is characterized by having the costae bifurcated on the sides and by umbilical shoulders and prominent tubercles at the forks.

hoplomachy (hop-lom'a-ki), n, [Gr. ὁπλομαχία, $\langle \delta \pi \lambda \alpha \mu \alpha_2 \alpha_3 \rangle$, adj., fighting in armor, $\langle \delta \pi \lambda \alpha_3 \rangle$, armor, $\langle \delta \pi \lambda \alpha_3 \rangle$, armor, $\langle \delta \pi \lambda \alpha_3 \rangle$, in $\langle \delta \pi \lambda \alpha_3 \rangle$, abattle, or mimic battle, fought in heavy armor. Fighting in full and heavy armor, hoplomachy, which Plato praised as a noble art, came somewhat later.

G. S. Hall, Adolescence, 11. 259.

Hoplomytilus (hop-lō-mit'i-lns), n. [NL, ζ Gr. δπλου, a weapon, + Mytilus, a genus of mollusks.] A genus of prionodesmaceous Pelecypoda belonging to the family Myalinidæ.

It is characterized by a triangular shell with a thickened plate below the umbo, in front of which there is a tooth in the right valve. It occurs in the Devonian.

Hoplopagrinæ (hop *lō-pa-grī'nē), n. pl. [NL., < Hoplopagrus + -inæ.] A subfamily of snappers of the family Lutianidæ, typified by the genus Hoplopagrus.

the sea-bream.] A genus of snappers of the family Lutianidæ: distinguished by the form of the nostrils and by the presence of molar teeth in the jaws. The single known species, II. güntheri, abounds on the west coast of Mexico.

Hoplopteryx (hop-lop'te-riks), n. [NL., \langle Gr. ὁπλον, a shield, + ππέρνξ, a wing.] A genus of the teleost acanthopterygian fishes belonging to the family *Bcrycidæ*. It is characterized by a short head, a deep dorsal fin, and large ctenoid scales: common in the Upper Cretaceous.

Hoplosaurus (hop-lō-sâ'rus), n. [NL., ζ Gr. ôπλον, a shield, + σαῦρος, a lizard.] A genus of dinosaurian reptiles from the Upper Cretaceous of Austria. It is based on fragmentary remains and is of uncertain systematic posi-

Hoplostethus (hop-los'tē-thus), n. Gr. ὁπλον, a shield, + στήθος, breast, thorax.]
A genus of deep-sea fishes of the family Trachichthydæ. H. mediterraneus is the important species.

hop-louse (hop'lous), n. Same as *hop-ophis. Hoplunnis (hop-lun'is), n. [NL., < Gr. δπλον, a shield, + ὑννης, ὑννη, ὑνις, a plowshare.] A genus of eels of the family Murænesocidæ, found in the Caribbean Sea.

hop-merchant (hop'mer"chant), n. Any one several species of vanessoid butterflies, snpposedly so named by hop-growers because of the silver-and-gold markings of the chrysalis. The comma butterfly, Polygonia comma, and the violettip, Polygonia interrogationis, are two of the most abundant forms in the hop-yards. Comstock, Manual of Indant forms in the hop-yards. Comstances, p. 405. See violet-tip, with cut.

hopo (hō'pō), n. [African.] An African Vshaped trap for game. It consists of two converging hedges between which the game is driven into a pit at the point.

hopper¹, n. and a. I. n. 9. In geol., a hopper-shaped pit or depression in the land.—Steam-hopper, a hopper-bottomed barge propelled by its own steam. It is used to receive the exeavated material from dredging operations and carry it away for dumping in deep water by the opening of the hopper-bottom.

II. a. Having the form of an inverted pyramid: as, a hopper ship, the bottom of which consists of a series of hoppers: a type of vessel used on the Great Lakes for carrying bulk cargoes.—Hopper crystal. See *crystal.—Hopper salt. See *salt1.

hopper-apron (hop'er-ā"prun), n. In cotton-manuf., an endless traveling apron, or lattice, in an automatic hopper for feeding cotton to an opening-machine.

hopperdozer (hop'er-do"zer), n. [hopper], 1 (c), + (bull)dozer.] In agri., a large shallow pan partly filled with tar or kerosene and



Canvas Hopperdozer, to be drawn by a horse. (Riley, U.S. D. A.)

mounted upon runners, or a canvas frame. similarly mounted, and smeared or saturated with tar or oil. See the extract.

Hopperdozers are long, shallow pans of any convenient dimensions, made of galvanized iron or other material, mounted upon runners about an inch thick. The pan is partly filled with water, a small quantity of kerosene is added to form a film, and a screen is placed upright on the back to prevent the locusts from jumping over the pan. As hopperdozers are drawn over the ground by either men or horses, the young locusts jump into the air, fall into the pan, and are wetted and killed by the kerosene.

kerosene.

U. S. Dept. Agr., Div. Entom., 1904, Cir. 53, p. 2. hopper-feeder (hop'er-fe"der), n. In textilemanuf., an automatic feeder and supply-regulator of raw stock to some one of the preparatory machines, as the opener, picker,

scouring-apparatus, carding-engine, etc.

hopperings (hop'er-ingz), n. pl. The residue
which remains in a hopper.

hopper-punt (hop'er-punt), n. A flat-bottomed mud-lighter fitted with a movable bottom for celerity in dumping. See hopper! Hoplopagrus (hop-lop'a-grus), n. [NL., ⟨ Gr. hopping-fish (hop'ing-fish), n. Same as *climb-bπλον, weapon, + πάγρος, var. of φάγρος, a fish, ing-fish, 2.

hopple, v. t. 2. To harness (a horse) so as to change its gait mechanically.

hop-pocketing (hop'pok"et-ing), n. A coarse material of cotton, or jute and linen: used for the packing of hops. N. and Q. 10th ser., II.

hoppo-men (hop'ō-men), n. pl. Chinese eustom house officials.

Horæ (hō'rē), n. pl. [L. Horæ, ⟨Gr. 'Ωραι: see hour.] The Hours.

mythology the Horæ are personifications of the same class as the Mœræ, Charitea, and Musæ. They presided over the meteorological phenomena which regulate vegetation and animal life and were almost lnwariably henignant. They aerved Zeus by opening and closing the doors of Heaven. In Homer and the Homeric



Horary prediction. See *prediction.

horbachite (hor bach-it), n. An iron-nickel sulphid related to pyrrhotite: from Horbach in the Black Forest.

hordeic (hôr-dē'ik), a. [L. horde-um, barley, +-ic.] Noting an acid, a colorless compound, C₁₂H₂₄O₂, prepared by the action of dilute sulphuric acid on barley. It crystallizes in plates, melting at 60° C.

hordeiform (hôr-de'i-fôrm), a. [L. hordeum, barley, + forma, form.] Having the form of barley-grains; resembling barley in form.

horismascope (hō-ris'ma-skōp), n. [Irreg. < Gr. δρισμα, limit, bound, + σκοπεῖν, view.] An apparatus for detecting albumin in urine. See *albumoscope.

*albumoscope.

horizon, n.—Apparent horizon. See horizon, i.—
Axis of the horizon, a perpendicular to the plane of the horizon at the point of observation.—Contracted horizon, a horizon whose limits are less than normal because of mist, rain, anow, or smoke.—Mean horizon, the middle position in any irregularity of the horizon-line.—Oblique horizon, the horizon of a place so situated that the celestial pole is neither in its zenith nor on its horizon. This is the case for all stations except at the equator or the poles of the earth.—Paradoxides horizon. See *Acadian, n., 2.—Real horizon, the astronomical horizon: distinguished from the apparent horizon, which is affected by dip and refraction.—Right horizon, the celestial horizon of a place on the equator, the plane of which is perpendicular to that of the equinoctial circle: opposed to oblique horizon, that of any place hetween the equator and either pole. N. E. D.—Sensible horizon, the plane which touches the earth at the place of the observer and extends to the celestial sphere.

horizon (hō-ri'zon), v. t. To limit or bound by

horizon (hō-ri'zon), r. t. To limit or bound by a horizon. Mary Howitt.
horizontal. I. a.—Horizontal candle-power,

horizontal. I. a.—Horizontal candle-power, moon. See *candle-power, *moon!.

II. n. 2. Anodopetalum biglandulosum, a Tasmanian plant of the family Cunoniaccæ, which semetimes forms a tree 60-70 feet high, with a trunk 4 feet in circumference. It is named from its peculiar habit of growth. The main stem after reaching a certain height assumes a horizontal or drooping position, from which the hranches ascend and repeat the action of the atem. The same is done by the secondary hranches, all of which interlock and form an almost impenetrable thicket known as horizontal scrub.

horizontalism (hor-i-zon'tal-izm), n. The quality or state of being horizontal; horizontal character.

pret. and pp. horizontalized, ppr. horizontaliz-ing. To place in or to assume a horizontal Hornera (hôr'ne-rä), n. [NL., from a surname Horner.] A genus of cyclostomatous Bryhorizontalize (hor-i-zon'tal-iz), v. t. and i.;

hoppity (hop'i-ti), n. [hop¹ + -ity, a termination expressive of quick motion.] Same as [NL. dim. of Gr. ὁρμί, onset, attack (?).] In ★halma. [NL. dim. of Gr. opin, onset, attack (?).] In craniom., the point where the lower border of the vomer touches the base of the skull.

> Hormogoneales (hôr/mō-gō-nē-ā'lēz), n. pl. [Gr. vριος, necklace, + γόνος, offspring, + -ales.] An order of blue-green algowhich always consist of more than one cell. The cells may or may not be branched, and either have or liave not an outer gelatiuous sheath.

tom-house officials.

hop-sack (hop'sak), n. Same as *hop-sack-ing, s. 2. A wool dress-fabric of coarse texture.

hop-toad (hop'tōd), n. A toad. [Colloq.]
hop-vine, n.—Devil's hop-vine. See *devil.—Hop-vine hypena, theela. See *hypena, *Tkeela.

hor. An abbreviation (a) of horizon; (b) of horology.

Horæ (hore), n. pl. [L. Horæ, < Gr. *Ωραι: see La Flèche.

7. In archery: (a) The tip at each end of a how, usually made of horn and provided with a nock for fastening the bowstring. (b) A reinforcement at the butt of an arrow, fitted with inforcement at the butt of an arrow, fitted with a nock to receive the bowstring: usually made of horn. (c) The portion of a composite bow which is made of horn: see bow², 2.—8. In mach., a curved lever, pivoted on the side of a planing-machine, which, on being knocked over by the tappets on the moving table, gives, through a linkage, the reversing movement to the diviring rechamics. through a linkage, the reversing movement to the driving mechanism.—Cutaneous horn, a horn-like excreacence on the akin of the head or other part.—Following horns, in dynamo-electric machinery, those horns of a generator away from which the sumature movement in its rotation.—Hollow horn. Same as *horn-ail.—Horn alligator. See *adligator.—Horn of a dynamo, in elect, that edge of the face of the pole-piece of a generator or motor which runs parallel to the axis of the armature.—Horn of consecration, in Mycensean art, a pictographic type representing a cult-form found in connection with the double ax and pillar. It is a compound of a rectangular base with two horn-like projections at either end. The horns are usually quite conventional, but sometimes resemble the horns of exen. The object was evidently portable and placed upon altars. It is frequently act at the foot of a sacred tree or column.

The columns are clearly indicated as aniconic images by

The columns are clearly indicated as aniconic images by the horns of consecration placed beside them and at their feet. A. J. Evans, in Jour. Hellenic Studies, XXI. 123.

fect. A. J. Evans, in Jour. Hellenie Studies, XXI. 123.

Horn tenure. See *tenure.—Impressed horn, horn molded into various forms after it has been softened in boiling water. It is common in the industrial arts. As a fine art the impressing of horn has been carried to a high state of perfection in Chins and Japan, and in Europe, where it has been much used for shuff-boxes.—Leading horns, in dynamo-electric machinery, those horns of a generator or motor toward which the armature is carried in its revolution.—Miners' horn, a shallow spoon of horn, rub-lier, or metal for collecting particles of gold by washing.—Perioplic horn, a thin varnish-like layer of glistening horn secreted by the perioplic band of the hoof and forming the outer surface of its wall. It prevents evaporation of moisture from the wall of the hoof.—Spouting horn, a sea-cave which penetrates far into an overhanging cliff and pierces the roof, so that an opening is made to the surface. Incoming waves force their way through the cavern and dash spray through the funnel-like epening on top of the cliff.—To take a horn, to take a drink of horn, r. t. 6. To operate upon by means of a horn-press or horning-press. See *horn, n.,

horn-press or horning-press. See *horn, n.,

horn-ail (hôrn'āl), n. An imagined disease of cattle, having no scientific foundation. Also called hollow horn.

horn-beetle (hôrn' bē "tl), n.—Spotted horn-beetle, Dynastes tityus. See Dynastes and Thinocerosbeetle.

hornbill, n.—Helmet-hornbill, Buceros gateatus, a species characterized by having a thick and nearly vertical horny outgrowth from the top of the beak: found in Borneo and Sumatra. Also helmeted hornbill.

Hornblende schist. See hornblende rock and

hornblendite (hôrn'hlen-dīt), n. [hornblende + -ite².] A rock composed entirely or almost entirely of hornblende, a variety of igneous rock closely related to the peridotites.

hornblock (hôrn'blok), n. A steel or iron easting riveted to a locomotive frame to receive the axle-box, which it constrains to move only vertically.

horn-blower, n. 2. In entom., a southern United States tobacco-growers' name for the tobacco sphinx-moth, Phlegethontius earolina, the parent of the horn-worm of tobacco.

horn-cell (hôrn'sel), n. One of the ganglion-eells belonging to the anterior or posterior hornswoggle (hôrn'swog-l), v. t.; pret. and pp. hornswoggled, ppr. hornswoggling. To hum-

eells belonging to the anacornua of the spinal cord.

Most of these fibres run upwards, but some descend to form synapses with dersal horn-ceits on a lower level.

Energe. Brit., XXV. 400.

ozoa belonging to the family Idmoneidæ. It has free or anastomosing zoaria, subcylindrical branches, irregularly distributed zoecial apertures. It ext from the Cretaceous to recont time.

hornerah (hôr'ne-rä), n. [Native Australian: cf. *woomera.] A throwing-stick with a peg at one end which fits into a socket in the spearshaft. By swinging the throwing-stick the spear is propelled by this peg and thrown with greater force than can be given to it by the hand alone. Similar devices are used by the Eskimos, the Mexicans, and some South American Indians. See **atlatl, throwing-stick. [Australia.]

Horneridæ (hôr-ner'i-dē), n. pl. [NL., < Hornera + -idæ.] A family of eyelostomatous, gymnolæmatous Polyzoa, in which the zoœcia open on one side only of a ramose zoarium and are never aduate and repent. It contains the genus Hornera.
hörnesite, n. See *hoernesite.

Hornets'-nest beetle. See *beetle2. — White-faced hornet. Same as white-faced *wasp.

hornet-hawk (hôr'net-hâk), n. Same as hornet-clearwing.

hornfels (hôrn'felz), n. [G. horn, horu, + fels, stone.] In petrog., a dense, aphanitic rock composed of feldspar, quartz, and other minerals, usually a product of the contact-meta-morphism of an intrusive rock upon shale or other sedimentary rock. Sometimes called hornstone.

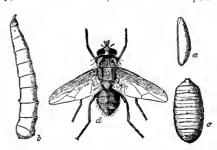
hornfelsed (hôrn'felzd), a. In geol., changed to hornfels in contact-metamorphism.

The Old Red Sandstone is indurated and often horn-felsed to a varying distance from the margin. Rep. Brit. Ass'n Advancement of Sci., 1901, p. 634.

horn-flint (hôrn'flint), n. A flint resembling

horn in appearance and translucency.

horn-fly (hôrn/fli), n. 1. An injurious muscid fly, Hæmatobia serrata, common to Europe and



Horn-fly (Hæmatobia serrata). a, egg; b, larva; c, puparium; d, adult in biting position. All enlarged.

the United States: named from its habit of clustering on the horns of eattle. It annoys cattle greatly by its bite, and lays its eggs in freshly dropped cow-dung in which its larve live.

2. A sphingid moth: same as *horn-blower, 2.

horn-hipped (hôrn'hipt), a. Having the point of the ilium (hauneh-bone) projecting too

high: said of a horse.

horning, n. 4. See *horn, n., 4 (t).

horning-press (hôr'ning-pres), n. See *horn,

horn-nut (hôrn'nut), n. The horned fruit of any species of Trapa, or the plant itself. See Trapa.

horn-ore (hôrn'or), n. Horn-silver or cerargyrite.

born-ray (hôrn'rā), n. A fish, Rhinobatus banksii, one of the thick-tailed rays found in Australia and New Zealaud. Also called shovel-nosed ray.

Horn's azotometer. See *azotometer. horn-shell (hôrn'shel), n. A horn-shaped, many-whorled univalve shell of the genus

Cerithium.

horn-slate (hôrn'slāt), n. Same as hornstone. horn-snake, n. 2. The bull-snake or pine-snake of the central United States, Pityophis melanoleucus, a large species marked with black and white.

horn-socket (hôrn'sok"et), n. In well-boring, a fishing-tool terminating in a hollow cone or bell which is rammed down over the broken ends of rods or tools to bring them to the

pp. hornswoggled, ppr. hornswoggling. bug; bamboozle; bedevil. [Slang.] horn-worm (hôrn'werm), n. Any

larva which bears a horn at its anal extremity; specifically, the tobacco horn-worm, larva of Phlegethontius earolina.

horny, a., 2. (b) In bot.; (2) More or less translucent and of a flinty texture; glassy: said chiefly of the grains of the harder wheats, characterized by a large gluten content. Compare *starchy?, 2, and see *farinatome, (d) In petroy, flint-like; having a compact, homogeneous texture like that of horn or flint.

horoeka (hô'rô-ā*kä), n. [Maori.] In New Zealand, a very variable tree of the ginseng family, Pseudopanax crassifolius, sometimes called grass-tree. See *grass-tree, 4 (a).

horografy, etc. A simplified spelling of horography, etc.

horopito (hō'rō-pē-tō), n. [Maori.] A small evergreen New Zealand tree, Drimys axillaris, belonging to the magnolia family. The flowers are very fragrant, and the whole plant is aromatic and stimulant. It is used by the Maoris for various diseases. Also called pepper-tree.

horoscopal (hō-ros'kō-pal), a. [horoscope + -all.] Of or pertaining to a horoscope.

horoscopography (hor o-skō-pog'ra-fi), n. [Gr. ώροσκοπείου, horoscope, + -γραφία, ζγρά-φειν, write, draw.] The art of drawing horoscopes. [Rare.]

horrescent (ho-res'ent), a. [L. horrescens, ppr. of horrescere, 'horrere, bristle, shake, shudder: see horrent.] Bristling with horror; shuddering. [Rare.] N. E. D.

horripilant (ho-rip'i-lant), a. [L. horripilans horse-course (hôrs'kōrs), n. A race-course; (-ant-), ppr. of horripilare: see horripilation.] also, a horse-race. Swift. Causing goose-flesh.

horripilate, v. t. II. intrans. To have goose-

horse¹, n. 1. The researches of Ewart, Osborn, and others show the probability that the modern horse, like the dog, has been derived from several sources. Prievalsky's horse is considered to be one of these, while two other forms are recognized—the Celtic pony and the Norse horse.

5. (i) One of the inclined timbers in a staircase which ort the steps

support the steps.
6. In mining: (b) A lenticular bed of shale or old channel fillings which cuts out coalseams.—12. In chess, same as knight. [Rare.] Staunton, Laws and Practice of Chess, p. 4.—13. In astron., the constellation of Pegasus (see flying *horse); also, the equine part of Sagittarius (represented as a centaur).—14. A Danish silver coin of the value of 1s. 2d.—Celtic horse, the variety characteristic of western Europe, found in a pure state in Iceland, and called by Ewart E. caballus ecliticus. The Shetland pony is an example of this large-headed, rough-haired variety or species.—Curly horse, a local breed of Indian ponies having a rough, emly cost.—Cutting horse, in stockraising in the western United States, a horse trained to cut cattle out of a herd. See to cut out (g), under cut.—Flying horse, the mythical winged horse of the Muses, Pegasus; hence, in astron., the constellation Pegasus. N. E. D.—Fore-sheet horse (naut.), an iron span set athwartships at the middle of the deck under the after end of the fore-boom on a schooner, for the fore-sheet block to travel on; also, a like span for a forestaysalisheet block to travel on which has been living entirely on pasture. N. E. D.—Horse and horse, equally divided or matched; no one better than the other. [Colled, U.S.]—Irish horse, old pickled beef. [Sailors' slang.]—Iron horse (b), naut., the deck-horse on which the traveler of the fore-sheet or boom-sheet slides horizontally across the deck.—Line horse, in lumbering, the horse that drags the cable from a yarding-engine to the log to which the cable is to be attached.—Little horses, the modern substitute for roulette. See petits chevaux, under *kelveal.—Norse horse, the variety of horse peculiar to northern Enrope and assumed by Ewart to be that on which Linnæus based his species Equus cablus's called by Ewart to be that on which Linnæus based his species Equus cablus's called by Ewart to get all the cover of Central Asia near Zaisun. It is of small size, of a dnu color, without a dorsal stripe, and with an erect mane. (see flying *horse); also, the equine part of Sagittarius (represented as a centaur).—14. olor, without a dorsal stripe, and with an erect man



Prjevalsky's Horse (Equus prjevalskyii).

(b) In bot.: (2) More or less translucent horse1, v. t. 8. To hang (as skins) over a wooden horse or stand. Mod. Amer. Tanning, wooden horse of stand. Mot. Amer. Iduning, p. 169.—To horse logs, in river-driving, to drag stranded logs hack to the stream by the use of peaveys.—To horse out, in carp., to cut, as a plank or beam, with a saw: used chiefly in connection wift: the string-piece of a stair, which is said to be horsed out when the support of the treads is got by cutting material away in the form of a notch, but plowed out when a broad groove or slot is cut to receive the ends of the treads.

horse-ambulance (hôrs'am*bū-lans), n. A vehicle used for the conveyance of sick or wenticle used for the conveyance of sick or wounded horses or other large animals. That used by the New York Society for the Prevention of Cruelty to Animals has a large padded box hung very low and a windlass attached at the front end.

horse-bean, n. 2. In the southwestern United States, either of two species of palo verde, Parkinsonia aculcata and P. microphylla, the

twigs of which are eaten by horses.

horse-bee (hors'be), n. Same as horse-bot. horse-bucket (hors'buk"et), n. A covered bucket for carrying water or spirits. [Sailors' slang.]

horse-bush (hôrs'bush), n. In the Bahamas, a tree of the family Cæsalpiniaccæ, Baryxylum adnatum (Peltophorum adnatum of Grisebach). horse-conch (hôrs'kougk), n. A large univalve shell, Strombus gigas.

also, a horse-race. Swift.

horse-cradle (hôrs'krā"dl), n. A device, consisting of narrow strips of wood connected by leather straps, placed about a horse's neck to prevent him from turning his head sideways. horse-daisy, n. 2. The mayweed. horse-dam (hôrs'dam), n. A temperary dam

made by placing large logs across a stream, in order to raise the water behind it so as to fleat logs on the rear.

Horse-eye jack. See *jack1. horse-fiddle (hôrs'fid"1), n. A device for making a noise, usually consisting of a large, open packing-box across the rosined edges of which a rough plank or rail is drawn like a huge bow. [Colloq.]

horse-fig (hôrs'fig), n. See *fig². horse-flesh, n. 4. In Guiana, the dark-red flesh-colored wood of the bully-tree, Mimusops Balata, or that obtained from panococo, Tounatea tomentosa. See bully-tree and panoeoco, 2.

horse-fly, n.—Black horse-fly, any black dipterous insect of the family Tabanidae; specifically, Tabania atratus, a large species having a wide distribution in the United States.—Mourning horse-fly. Same as black *yadyly.

Horsefoot oil. See *oil.

horse-gentler (hôrs'jen"tler), n. A horsebreaker.

horse-gold (hôrs'gōld), n. Same as *gold-weed. horse-grease (hôrs'gres), n. Fat obtained from the carcasses of horses: used in soap- and candle-making.

Horsehair case, a bag or envelop made of horsehair in which the meal produced by grinding oil-seeds (colzaseed, cotton-seed, etc.) is subjected to pressure in order to extract the oil.—Horsehair snake. Same as *hair-

horsehead, n. 5. In mach., a lever, so named because of its shape, used on a Heilmann cetton-combing machine as part of the detach- Horsetown beds. See *bed1. ing mechanism. Thornley, Cotton Combing Machines, p. 163. horsehoof, n. 2. A horseshee-crab, or king-

erab, Limulus polyphemus. horse-laughter (hôrs' läf"ter), n. Coarse, loud,

vulgar laughter.

horseless (hôrs'les), a. [horse+-less.] Having no horse; propelled without the aid of horses.— Horseless carriage, a carriage not intended to be drawn by horses, but propelled by an electric or other motor.

horse-lily (hôrs'lil"i), n. Same as beaver-*lily. horse-louse (hôrs'lous), n. 1. A pediculid,

25 .

Hæmatopinus asini, commonly known as the sucking horse-louse. - 2. A mallophagan, Trichodeetes pilosus, commonly known as the biting horse-louse. Both of the above species occur also on asses and mules.

Also on assess and mules.

horse-mackerel, n. (h) In Sydney, Australia, Auxis ramsayi, of the family Scombride; in New Zealand, Trachurus trachurus, which is the same fish as the horse-mackerel of England. Austral English.

horseman-crab (hôrs'mankrab), n. Same as chevalier Horse louse (Trichodectes pilosus).

Much enlarged. horse-nicker (hôrs'nik"er),

n. [horse¹, n., 11, + nicker², 3.] A seed of the

nicker-tree. The lead-colored seeds of Guilandina Crista, and especially the yellow seeds of G. major, are used by children in the West Indies for playing marbles. nicker-tree.

horse-platform (hôrs'plat"fôrm), n. In mining, the switches and crossing used with the rails of a horse-read.

ing, the switches and crossing used with the rails of a horse-road.

horse-power, n.—Brake horse-power, the net horse-power developed by an engine, motor, or turbine as shown by a friction-brake or dynamometer; the horse-power actually delivered by the engine or motor. Trans. Amer. Inst. Elect. Engin., 1899, p. 34.—Effective horse-power, in naval arch., the net horse-power required to drive a vessel at any given speed, or the work expressed in horse-power that would be necessary to tow the vessel without screw-propellers or paddle-wheels at a given speed. It is that part of the indicated horse-power of the propelling engines which remains after deducting the losses due to engine-friction, inefficiency of the paddles or propellers in the water, etc.—French horse-power, the work done in raising 75 kilograms one meter in one second, or 4,500 kilograms one meter in one minute; it is about 1½ per cent. less than the horse-power founded on the English foot and the avoirdupois pound. See metric *horse-power of a motor, made up of the net horse-power together with that wasted on its own friction: same as indicated horse-power (which see).—Horse-power hour. See *hour.—Horse-power (which see).—Horse-power hour. See *hour.—Horse-power, the unit of work in countries where the metric units are in use. It equals \$2,549 foot-pounds the metric increase in use. It equals \$2,549 foot-pounds per minute, 4,500 kilogram-meters per minute, or 0.9863 horse-power in the British units.—Net horse-power, the horse-power, the horse-power, the horse-power, the horse-power, the horse-power which an engine or a motor develops above that needed to overcome its own friction.

horseradish-tree, n. 2. In Australia, a tree of the prokewood family. Guesetowen.

horseradish-tree, n. 2. In Australia, a tree of the pokeweed family, Gyrostemon cotinifolius, so called from the taste of its leaves. The bark contains a bitter principle, for which reason it is also known as quinine-tree and medicine-tree.

horseshoe, n. 2. (d) Naut., a composition strap bent in the form of a horseshoe and used for fastening the stem to the keel.— Horseshoe nebula. See *nebula.

horseshoe-fern (hôrs'shö-fern), n. See *fern1. horseshoe-grass (hôrs'shö-gras), n. See *side-

horse-sickness (hôrs'sik"nes), n. An infectious disease of horses, mules, and asses, observed only in South Africa, characterized by extensive serous exudations, and caused by an organism so minute as to pass through the pores of a filter.

An interesting interim report upon Cape horse-sickness has been published by Dr. Watkins Pitchford, the Government bacteriologist of Natal. In some respects this disease resembles human malaria, for it especially attacks horses kept on low-lying marshy ground, and those animals left to graze all night. In affected districts horses may be moved during the day without contracting the disease. Dr. Pitchford now suggests that a mosquito, probably of the genus Anopheles, is responsible for the conveyance of the infection. Nature, June 4, 1903, p. 110.

horsetail, n. 5. In meteor., a form of cirrus

cloud.—Horsetail agaric, an edible mushroom, Coprinus comatus, having a shagey pileus.

horse-tamer (hôrs'tā*mer), n. One whose business is the taming of unruly horses; a

horse-towel (hôrs 'tou "el), n. An endless towel for general use, hung on a roller; a jacktowel.

horse-tub (hôrs'tub), n. A harness-cask, horse-watcher (hôrs'woch"er), n. One who is in the habit of observing the performance of race-horses, in order to come to some conclusion as to their chances of winning.

horst (hôrst), n. [G. horst, a wood, grove, thicket, high nest, aery, retreat, also sandbank, sandy islet.] In geol., a term introduced by E. Suess to denote areas of the earth's surface which have acquired immebility and have served as buttresses against which surrounding areas have been pressed and dislocated in the general rupture and subsidence of the terrestrial crust.

The region has occasionally been much faulted, and locally crushed up against a "horst" of Archæan rock.

Nature, June 4, 1903, p. 105.

hort., hortic. Abbreviations (a) of horticultural; (b) of horticulture.

Hortensia (horten'si-ä), n. The greenhouse

Hortensia (hôr-ten'si-ä), n. The greenhouse hydrangea, Hydrangea opuloides (H. hortensis of Smith, H. Hortensia of Siebold), of which a great number of horticultural forms are known. The species is Chinese and Japanese. It varies into two fairly well marked groups: the hortensia group, with globose flower-trusses and nearly all the flowers sterile and enlarged, and the japonica group, with the trusses nearly or quite flat and bearing both fertile and sterile flowers.

horticulture, n.—Landscape horticulture, that part of horticultural discussion and practice that has to do with planting and lawn-making for artistle effects. It

is one of the crafts on which landscape gardening or landscape architecture depends. L, H. Bailey.

Horton series. See ★series.

hose, n. 9. In eutom., a peculiar organ or gland at the base of the tarsal claws of the Psocidæ.—10. The wide trousers formerly worn by seamen.—Armored hose, rubber hose about which steel wire is wound article to receive it forms in the property of the property in the property is the property in the property in the property is the property in the property in the property is the property in the property in the property is the property in the property in the property is the property in the property in the property is the property in the property in the property in the property is the property in the property in the property in the property is the property in the property in the property in the property is the property in the p worn by seamen.—Armored nose, rubber nose about which steel wire is wound spirally to protect it from injury. hospital, n., 3. The term is now extended to include establishments for the care and cure of sick or injured animals, such as horses, dogs, cats, etc.—Hospital bed, sore throat, tax. See *bed1, *throot, *tax.—State hospital, an institution for the insane conducted by a State government.

hospital (hos'pi-tal), v. t.; pret. and pp. hospitated, hospitalted, ppr. hospitaling, hospitalling. To receive and care for in a hospital.

hospitant (hos'pi-tant), n. [G. hospitant, \ L. hospitans (-aut-), ppr. of hospitari, be a guest: see hospitate.] A special unmatriculated foreign student at a German university who enjoys all the privileges of a regular student forms of the second state of the second state. dent (except that of graduating) and is enrolled as a 'guest.'

These figures, however, include only the lawfully immatriculated students; to them must be added those who are enrolled as hospitants, of which 9,187 are reported in the foregoing table, including 7,874 male and 1,313 female attending as special students,

Science, April 8, 1904, p. 595.

Hosselkus limestone. See *limestone.

host², n.—Definitive host, in the life-cycle of parasites which, during their course of development, inhabit different hosts, that host in which the sexual phases of the

parasite are passed. In which the sexual phases of the hostly (hōst'li), a. [$host^2 + -ly^1$.] Pertaining or proper to a host.

host-plant (host'plant), n. In bot., same as

a. 9. Ardently or earnestly supported, hot1, a. as indicated by the betting: as, a hot favorite. [Racing slang.]—Hot air, wasted breath; talk that will result in nothing: applied often to snything said or threatened which the hearer or the criticized does not like. (Recent political slang, U. S.]
hot-closet (hot'kloz"et), n. 1. A closet, at-

tached to a stove or some other source of heat, in which dishes and food are kept warm .- 2. In candle-making, a heated chamber in which candle-molds are kept warm previous to being used, to prevent the chilling of the stearic acid. hot-drawn (hot'drau), a. That has been drawn through dies while hot: said of pipe or rods.

Hotei (hō'ta), n. [Jap.] One of the seven hour-stroke (our'strok), n. One of the strokes beneficent beings of the Japanese pantheon: or marks which indicate the hours on a dial-represented as a fat, smooth-faced man, with plate. a protruding, naked abdomen, and usually carrying a big hempen bag.

hotfoot (hot'fut), v. t. To chase or pursue in hot haste; follow at a hot pace. [Colleq.]

Zuléma discovers her irate father, who . . . [has] been hotfooted up hill and down dale by the bloodthirsty Anglais.

F. B. Smith, How Paris Amuses Itself, p. 103.

hot-plate, n. 2. In gas-fitting, a small pertable cooking-appliance consisting of an iron table supported on short legs and having one or more Bunsen burners for boiling, etc.

hot-pot, n. 3. A local name in Utah of certain hot calcareous springs which have built up mounds of tufa around their orifices. Within, mounds of tufa around their orifices. Within, the waters bubble with carbonic-acid gas, and, unless artificially tapped below, flow off over the rim, thus constantly adding tufa to the mounds. Sci. Amer. Sup., Sept. 12, 1903, p. 27157.

hot-stoking (hot'störking), n. In glass-manuf.,

the operation of raising the temperature of the furnace until the batch or frit in the meltingpot is completely fused. Same as fining or refining. Compare cold-stoking.

Hottentot apron. Same as *tablier, 2.—Hottentot rice, See *rice1.

Hottentot's-god (hot'n-tots-god), n. A South African mantis, worshiped formerly by the Hottentots.

hot-tube (hot'tūb), n. and a. I. n. A tube which is kept red-het by a flame and is used for igniting the charge in an internal-combustion engine.

II. a. Using a red-hot tube as a torch or

igniter.—Hot-tube igniter. See *igniter.
hot-well, n. 2. A hot spring, especially one at whose orifice there is a pool of relatively quiet water.

New Zealand of two trees belonging to the New Zealand of two trees belonging to the mallow family. Both of them have tough bark, which in former times was used by the natives for making tapa, or bark-cloth. One, Hoheria populnea, known also as the lacebark or thousand-jacket, has bark which readily separates into many thin, lace-like layers. It is distinguished by having fruit composed of 5 separable carpels. The other, Plagianthus betulinus, known commonly as ribbonwood, is a much larger tree than the preceding. It has fruit consisting of a single naked capsule. Also called hout and whauwhi. See ribbonwood and lacebark 3.

bark, 3.

hound, n.—Cat-hound, a breed of hounds used for hunting wildcats and panthers.—Orion's hound, the constellation of the Greater Dog.—Rampur hound, an East Indian breed of dogs, resembling the Great Dane, used for hunting.—Smooth hound, a small blunt-toothed shark, Mustelus mustelus.—The hound of hell, Cerberns, the three-headed watch-dog who, according to Greek mythology, was stationed at the entrance of hell to see that the living did not enter or the dead escape.

to see that the living did not enter or the dead escape.

houndfish, n. 5. A name applied to fishes of the genus Tylosurus, especially to T. raphidoma and T. acus, both of the West Indies. the genus Tylosurus, especially to T. raphidoma and T. acus, both of the West Indies.

hour, n. 6. In astron. and geog., an angular measure of right ascension or longitude, being the twenty-fourth part of a great circle of the the twenty-fourth part of a greateirele of the sphere, or fifteen degrees. N. E. D.—Eighthour movement. See *eight!.—Horse-power hour, a compound unit, used in comparing efficiencies, equivalent to one horse-power maintained for one hour.—Long hours, the hours which are struck with a great number of strokes, as eleven and twelve.—Lunar hour, the twenty-fourth part of a lunar day, that is, of the Interval time between two successive transits of the moon across the meridian.—Metric horse-power hour, an amount of work equivalent to a metric horse-power exerted for one hour.—Planetary hour, in *astrok*, the twelfth part of the time occupied between the sun's rising and setting, or vice versa: supposed to be ruled in rotation by the seven planets.—Shop-hour. (a) A unit of the time required for doing a piece of work, consisting of the total number of hours spent by all the men who have worked upon it divided by that number. (b) One sisting of the total number of hours spent by all the men who have worked upon it divided by that number. (b) One hour in a shop. In many technical schools students are required to spend a certain number of hours in workshops. These are called shop-hours, to distinguish them from the hours spent in the recitation-room.—Short hours, the hours which are struck with few strokes, as one and two.—The hour, the time in question or particularly referred to; the time being; the moment.

Hour-glass screw, spring, stomach.

hour-index (our'in deks), n. An index or pointer which can be turned to any hour marked on the hour-circle around the pole of an artificial globe.

hour-watch (our'woch), n. A watch with a single hand which indicates only the hours.

Hote, the Japanese transcription of the Chinese Putai, represents Putal Hoshang, the "Monk with the Hempen Bag," of Chinese Buddhist Iore.

S. W. Bushell, Oriental Ceramic Art, p. 757. lunes of the earth's surface separated by meridning with the standard meridian of Greenwich. The standard time for all places within any one hour-zone is the same, or should be, except when local circumstances make it convenient to shift the dividing-lines a little. The minutes and seconds on this system are everywhere identical with those of Greenwich time.

The groups of 15 degrees of longitude form naturally the 24 hour-zones into which the circumference of the equator is divided, and which, numbered from 0 to 23, will give the time of all places on the Earth in terns of the initial hour.

Geog. Jour. (R. G. S.), XI. 677.

initial hour. Geog. Jour. (R. G. S.), XI. 677.

house1, n.—Black house, a rude house built of stone, without windows, used in some parts of Scotland for a habitation and for sheltering domestic animals.—Down the house, up the house, two terms used to denote the direction with reference to the iron pots employed in the Pattinson process (which see, under process) for the extraction of silver from lead. The former denotes the direction toward the market-pot, while the latter refers to the contrary direction. The process is now almost obsolete.—House burn. See *hourn!, n., 5 (b).—House of eternity, or of graves, or of life, a Jewish cemetery.—Keeping house, in Eng. laae, the act of a man in business, who indicates by his keeping away from his place of business and remaining at home an intention to evade his creditors: implying an act of bankruptcy. [Slang.]—Tied house, an establishment engaged in retail trade, particularly a public house or saloon, which is under contract to sell the goods of a particular producer (a brewer or distiller) who is usually its backer. [Eng.]

The consumer has (owing to the "tied house" system) in many cases no choice hut to drink the beer offered him, and is therefore practically not a free agent.

Encyc. Brit., XXVI. 363.

To make a house, in parliamentary parlance, to see that a quorum is present.

And in the absence of party government, it was nobody's business to make a house.

Jour. Hellenic Studies, VIII. 108.

house2, n. 3. In some tunicates, as Appendicunouse², n. 3. In some tunicates, as Appendicularia and Oikopleura, a temporary gelatinous the presence or the prevalence of the 'hot wind' of Australia: as, hot-windy weather.

See *wind². [Australia.]

houhere (hō-ö-hā'rā), n. [Maeri, < hou, bind or fasten together, + here, tie.] A name in house-ant (hous'ant), n. Any ant which habit-

ually enters houses, or nests in the walls, such as Monomorium pharaonis, M. minutum, and Tetramorium exspitum.

house-barge (hous'bärj), n. A house-boat. house-bound (hous'bound), a. Confined to the

house, as with sickness; 'shut in.'

housebreaker, n. 2. Same as *house-wrecker. house-builder (hous'bil"der), n. One whose business is the building of houses; specifically,

a carpenter who gives special attention to the construction of wooden dwelling-houses.—House-builder moth. See *moth!.

house-burn (hous'bern), n. See *burn!, 5(b). house-carpenter (hous'kär pen-ter), n. A carpenter who works upon the trim and interior finish of a burne against in the first see the second of rior finish of a house, as distinguished from a

house-mosquito (hous' mus-ke "to), n. common cosmopolitan mosquito, Culcx pipiens,

which usually breeds in and about houses.

house-mover (hous'mö"/ver), n. A man engaged in raising and moving buildings by means of jack-serews and rollers moving upon prepared wooden ways

housesmith (hous'smith), n. A mechanic who works upon the ironwork of buildings.

house-staff (hous'staf), n. The resident phy-

sicians and surgeons in a hospital.

housework (hous'werk), n. Domestic work;
the work of housekeeping.

house-wrecker (hons'rek"er), n. One who takes down old buildings and sorts out and saves the materials for future use. In Eng-

land, called a housebreaker.

housing¹, n. 8. (b) The inboard end of the bowsprit; also, that part of a mast that is below the upper or spar-deck.

housing-bolt (hou'zing-bolt), n. A belt above a gun-port on a war-vessel, used in housing a gun.

See housing-line (hou'zing-lin), n. Naut., a line used in housing an awning.

housing-pivot (hou'zing-piv"ot), n. Naut., the bolt which locks a gun-carriage in the desired position.

housing-topmast (hou'zing-top"mast), n. A topmast rigged so as to be lowered without loss of time.

houtherg (hout'berg), n. [D., ≤ hout, wood, + berg, hill, mountain.] A wooded mountain. [South African Dutch.]

Hovenia (hō-vē'ni-ä), n. [NL. (Thunberg, 1781), named in honor of David Hoven, a Hovenia (hō-vē'ni-ä), n.

senator of Amsterdam and a patron of Thun-berg's botanical expedition to Japan.] A genus of trees of the family Rhamna-ccæ. There is only one species, H. dulone species, H. dul-cis, remarkable for the curious fleshy, edible pedicels of the fruit. It is occasion, the edible pedicels of the fruit. It is occasion-ally cultivated in the United States and is hardy as far north as Washington. It is known as Japanese raisin-tree and corat-tree. See *coral-tree,

hover, n. 3. Same

as hoverer. hover-fly (huv'er-flī), n. Any one of very many Anv flies of the famiwhich hover over

Coral-tree (Hovenia dulcis). lies Syrphidæ and Bombyliidæ and size (upper figure); cluster of fruit, one third natural size (lower figure).

flowers, rapidly vibrating their wings while searching for honey. *Nature*, Dec. 17, 1903, p. 158.

howardite (hou'ärd-īt), n. [Named after Edward Howard, who first showed (1802) the presence of nickel in meteoric iron.] A kind laria and Oikopleura, a temporary gelatinous of meteoric stone or aërolite. See *meteorite envelop, representing the tunic of other forms. howarditic (hou-är-dit'ik), a. [howardite + Relating to or resembling howardite.

from the surface of the ectoderm and is frequently thrown off and renewed.

house-ant (hous'ant), n. Any ant which habitthe Howden system of forced draft, in

which the air supplied to the furnace is heated by the waste heat from the products of combustion.

howell (hou'el), n. [Perhaps for *howl, dial. variant of hole1.] The upper stage of a porcelain kilu. Also called *crown* and *cowl. Wagner*. Chem. Teehnol.

howl, v. i. 4. Of an organ-pipe, same as

cipher, v., 4.

howler, n. 3. A ealling device employed in telephony in place of the magnetic call-bell; huckleberry-lily (huk'l-ber-i-lil'si), n. The a buzzer. [Slang.]

When a subscriber leaves his receiver off the hook, no busy signal is made should a call for that telephone be made. By means of a "howler" current the diaphragm of the hanging receiver is vibrated rapidly to attract the same purpose.

The Greeks used the astragalus for the same purpose, huck-shouldered (huk'shol/dèrd), a. Humps subscriber's attention.

Elect. World and Engin., July 4, 1903, p. 12.

howo (hō'wō'), n. [Jap. hōwō, < Chinese făng-hwang: see *fōng-hwang.] A fabulous bird used as an imperial emblem iu Japan; the phenix. See *féng-hwang, with eut.

1. P. An abbreviation (b) of half pay; (c) of

H. P. An abbreviation (b) of half pay; (c) of High Priest; (d) of high-pressure, when applied to eylinders: when applied to engines it means horse-power, and, to prevent confusion, when a high-pressure engine is meant the words should be written out.

H. P. M. Au abbreviation of halleluiah particular meter.

H. Q. An abbreviation of headquarters, hr. A contraction of hour.

H. R. An abbreviation (b) or Home Race... h. r. In elect., an abbreviation of high resis-

H. R. E. An abbreviation of Holy Roman

H. R. I. P. An abbreviation of the Latin hic

I. R. I. r. An apple visitor of the property o **H-section** (ach'sek"shon), n. of iron or steel the cross-section of which Hughes's induction-balance. See *induction-resembles a capital H, the flanges being wider balance. than the depth of the beam.

H. S. S. An abbreviation of the Latin Historia Societatis Socius, Fellow of the Historical

Society.

ht. A contraction of height. An abbreviation of hoc titulo, 'in (or

under) this title.'

H. T. L. An abbreviation of half-tide level. huac3 (hwä'kä), n. [Quiehua.] 1. Originally the generic name for the spirits thought by 1. Originally the Peruvian Indians to be disseminated through the whole visible and perceptible world; also applied to every object, natural or artificial, supposed to be the abode of such capital House 22 Article Michael Company a spirit. Hence -2. A fetish. The sun, moon, and stars, all meteorologic phenomena, the mountains, rivers, in short, everything striking in nature, and every idol, were huaca.—3. An aboriginal ruin: now the common use of the word. Any ruin of ancient Indian architecture

is a huaca. See *huaco.
huaco (hwä'kō), n. [Also guaco: Quiehua.]
In Peru, Bolivia, and Chile, pre-Columbian pottery or other Indian antiquities.

huantajayite (hwan-ta-ha'yit), n. Argentif-erons sodium ehlorid, found at Huantajaya

mountain in Arequipa.

Huanuco bark. Samo as Cuenca *bark.

huascolite (hwäs'kō-lit), n. [Huasco (see def.) + Gr. λίθος, stone.] A sulphid of lead and zine allied to galena, found near Huaseo, Chile, and elsewhere.

hub, n.—Hub-boring machine. See *boring-machine.

Hübl process. See *process.

Hubrechtia (hū-brek'ti-ä), n. [NL. (Bürger, 1892), from a surname, Hubrecht.] The typical genus of the family Hubrechtidæ.

genus of the family Hubrechtidæ.

Hubrechtidæ (hū-brek'ti-dē), n. pl. [NL., < Hubrecht + ·idæ.] A family of nemerteans, of the order Protonemertini. The lateral organs are spherical structures which He deep within the body-wall and project into the lateral vessels; the hrain and lateral nerve-cords lie beneath the reticular dermis; a dorsal vessel is present, and the excretory organs constitute a richly branched canal-system. The family contains only one genus, Hubrechtia.

huckleberry, n.—Bear-huckleberry. Same as *buckberry, 2.—Blue huckleberry, in general, same as blueberry (a); specifically, Vaccinium vacillans, also called low blueberry, a small stiff shruh of eastern North Amerto be bueeerry, a small still shrun of eastern North America bearing an ahndance of blue-glaucous fruit of medium quality.—Box-huckleberry, Gaylussacia brachycera, a low stiff huckleberry, with somewhat the habit and foliage of box. It is found in dry woods from Pennsylvanis to Virginia.—Dwarf or bush hnckleberry, Gayhumaism of the United States.—He-hnekleberry. Same as farkleberry.

Hulme porcelain. See American *porcelain. humā, a humaism and the function and fulf coasts of the huma (hu 'mā), n. [Pers. IIind. humā, a humaism and function humā (hu 'mā), n. [Pers. IIind. humā, a humaism and function humā (hu 'mā), n. [Pers. IIind. humā, a humaism and hu

huck-shouldered (huk'shōl"derd), a. Hump-

huddling-chamber (hud'ling-ehām"ber), A space in which a fluid gathers; specifically, an annular space under the projecting collar of a pop safety-valve, in which the steam collects as soon as the valve opens at all and, by thrusting on the ring, forces the valve open wider and holds it open until the pressure drops. See safety-valve. [Colloq.] hudge (huj), n. In mining, an iron or steel

hoisting-bucket.

Hudson-Champlain trough. See *trough. Hudsonian zone. See life *zone. Hudson River shale. See *shale2. huemul, n. Same as *guemul.

huf, v., n., and a. A simplified spelling of huff. Hüfner's apparatus. See *apparatus.

thung, v. t.—To hug the land (naut.), to keep in close touch with the shore; sail as close to the land as the depth of water and other features will allow.—To hug the wind (naut.), to sail close to the wind; have the yards braced up and the ship steered as close to the wind as she will lie.

huila (hwē'lä), n. [Mex.] A stimulating liquor distilled from a species of the mescal agave.

Other liquors distilled from various species of the Mescal Agave are known as "tequila," "huila" and "comiteco." Sci. Amer. Sup., Dec. 12, 1903, p. 23365.

huisache (hwē-sā'ehā), n. In Texas, the opopanax, Acacia Farnesiana. This is a small thorny tree with pinnate leaves and small globose heads of flowers, with a rich fragrance of the violet type. It is widely diffused, either as native or introduced, in the warmer parts of the earth, and under the name cassie is extensively cultivated in the south of France for perfumerymaking. Also inisache making. Also iuisache.

huiscoyol (hwēs-kō-yōl'), n. [Nahuatl huitzo, thorny, + coyolli, a nut-bearing palm.] A name applied in Mexico and some parts of Central America to spiny palms of the genera Aerocomia, Astrocaryum, and Bactris; especially to Bactris acuminata, B. horrida, and Aerocomia aculeata. Also huiscoyul and biscoyol. See gru-gru, 2. hula-hula (hö*lä-hö'lä), n. [Hawaiian hula-hula (hö*lä-hö'lä), n.

hula, music, dancing, singing, etc.] A native Hawaiian dance, accompanied by singing and

pottery or other Indian antiquities.

huajillo (hwä-hē'lyō), n. [Mexican.] An evergreen shrub or small tree, Havardia brevifolia, of the mimosa family, growing in southern Texas and northern Mexico.

Hawaiian danee, accompanied by singing and drumming. Deniker, Races of Man, p. 208.

Humeroradial index. Same as radiohumerat the humerus, n.—Perforated humerus, the condition of the humerus in which the olecranon fossa is perforated to several species of Central American rubbertom the humerus in which the olecranon fossa is perforated to form the entepicondylar foramen. producing trees of the genus Castilla, especially C. elastica.—3. A shrubby composite plant, Parthenium argentatum, which has a milky juice containing considerable caoutchouc. The latter is usually obtained by grinding up the plants and extracting with chemicals.

hull¹, v. t. 3. To shell (oysters). [Southern

the horizon: said of a ship.—Hull up, said of a vessel when her entire hull sppears above the horizon line.—To lie a hull (naut.), to be stripped down to bare poles; have no sail set.

hull-cytode (hul'sī"tod), n. A eytode or nonnucleated cell with a cell-membrane.

hull-efficiency (hul'e-fish"en-si), n. In naval arch., the ratio of the net work or horse-power required to drive a ship's hull at a given speed when towed without her propeller, to that required to drive the same vessel at the same speed through the water by means of her propeller.

hull-strained (hul'strand), a. Showing weakness in timbers or planking after being subjeeted to rough handling as at sea in heavy weather: said of a wooden ship. An iron vessel is hall-strained when from any cause her framing or plating shows buckling or separation.

periods). The mammals are all, or nearly all, of still living species. The epithet human is not strictly applicable to this series, for it is quite certain that man coexisted with the fauna of the Pleistocene period. humanism, n. 4. The body of opinions which

humanism, n. characterized those scholars who, in the early sixteenth century, decried the medieval theology and logic and sought inspiration from ancient Greek and Roman sources, and in particular objected to the use in Latin, which was then the common language of philosophy and science, of any words not found in the writings of the early Latin writer Cicero.—5. Since 1903, the doctrine that there is no absolute being or absolute truth not relative to human faculties and needs. The term was proposed by F. C. S. Schiller to designate the general philosophical opinion of himself and Professor William James. These writers deny infinity of every kind; and it is likely that this denial will be considered as implied in the term. It is not leaded to implied in the term. It is not logically implied in the above definition.

I propose to convert to the use of philosophic terminology a word which has long been famed in history and literature, and to denominate *Humanism* the attitude of thought which I know to be habitual in William James and in myself.

F. C. S. Schüler, Humanism, Pref., p. xvl.

Humaria (hū-mā'ri-ä), n. [NL. (Fuekel, 1869), ∠ L. humus, soil.] A genus of discomycetous fungi, of the family Pezizacex, having sessile, variously colored ascomata and hyaline one-celled smooth or roughened spores. The name refers to the usual habitat of the plants, which

is vegetable mold. Humata (hū-mā'tä), n. [NL. (Cavanilles, 1801), named from the village of Humatag (Sp. Humata), now ealled Umata, on the west Humata), now ealled Umata, on the west coast of the island of Guam, where first collected.] A genus of polypodiaceous ferns of the tribe Davalliex, widely distributed among the Malayan, Philippine, and various other Pacific islands. There are about 15 species, mainly epiphytic, with chaffy creeping rhizomes and thick corisceous more or less dimorphous fronds, varying in form from simply lanceolate to pinnatifid and deltoid bipinnatifid. The sori are terminal upon the veins near thamargin, the roundish or reniform thick indusia being attached basally and thus free apically toward the margin. humect, v. II. intrans. In chem., to become moist by attracting vapor of water from the moist by attracting vapor of water from the

humertation, n. 3. Same as edema, I. humeral, I. a.—Humeral gland. See * gland.

II. n. 3. The elaviele; a large bone of the shoulder-girdle of fishes. Not homologous with the bone called humeral by Agassiz, nor with that called humerus by Geoffroy or Owen or Erdl. Starks, Synonymy of the Fish Skelcton, p. 521. of the Fish Skelcton, p. 521. humerofemoral (hū/me-rō-fem'ō-ral), a. Re-

lating to both the humerus and the femur.-Humerofemoral index in anthrop, the length of the humerus expressed in percentages of the femur. Amer. Anthropologist, July-Sept., 1901, p. 572.

Humeroradial index. Same as radiohumeral

humidifier (hū-mid'i-fī-er), that which humidifies or moistens; specifically, a mechanical device for moistening the atmos phere, as in a textile-factory, to keep it at a desired degree of relative humidity.

humidity, n.—Complement of the humidity, the difference between one hundred per cent, and the actual percentage of relative humidity; the percentage by which the actual relative humidity falls short of complete saturation.—Humidity wind-rose. See *wind-rose. humidor (hū'mi-dôr), n. A box, often ornamental, iu which eigars are kept moist or prevented from becoming too dry.

humidostat (hū-mid'ō-stat), n. [L. humidus for umidus, moist, + Gr. στατός, < ἰστάναι, eause to stand.] A small chest or cabinet lined with sheet-metal and fitted with some device for holding a damp sponge or piece of felt: used to keep eigars moist.

humification (hū-mi-fi-kā'shon), n. [L. humus, soil, + -ficatio(n)-, < facere, make.] The process by which humus is formed from vegetable matter in the soil or on top of the ground and then percolates into it by the action of rain-

water humify¹ (hū'mi-fi), v. i.; pret. and pp. humified, ppr. humifying. [L. humus, soil, +-ficare, \(facerc, make. \)] To become humus or soil.

From a chemical standpoint the soils of the two regions are similarly characterized: (1) By an exceptionally large amount of thoroughly humified organic matter. U.S. Dept. Agr., Bur. Plant Industry, 1901, Bulletin 3, p. 19.

humify² (hū'mi-fi), r. t. Same as humefy. humilific (hū-mi-lif'ik), a. [L. humilis, humble, + -ficus, < facere, make.] That humiliates or tends to humiliate; humiliating.

Rural life and city life, honorific employments and humilific employments.

E. A. Ross, in Amer. Jour. of Sociol., IX. 192.

humiriaceous (hū-mir-i-ā'shius), a. In bot., belonging to or resembling the Humiriaceæ. **Humist** (hū'mist), n. A follower or supporter of David Hume or of his philosophical doctrines. See Humian.

humite, n. The relation in chemical composition of the species of the humite group is shown by the following formulæ, established by Penfield and Howe: chondrodite, Mg3[Mg(F10H)]e[SiO4]e; humite,Mg5[Mg(F10H)]e[SiO4]a; clinohumite,Mg7[Mg(F10H)]e[SiO4]a. In these formulas the magnesium atoms present are, respectively, 5, 7, and 9, and these numbers also express the ratio of the vertical crystallographic axes of the three species. The fourth possible compound, Mg[Mg(F10H)]eSiO4, is probably represented by the species prolectite, which, though not yet analyzed, has been shown (Sjøgren) to be crystallographically the first member of this series whose vertical axes are in ratio of 3:5:7:9. See *prolectite.
hummer, n. 4. A calling device employed in telephony in place of the magnetic call-bell; a buzzer. humite, n. The relation in chemical composition of the

humming-bee (hum'ing-be), n. Same as bum-

blebee and humblebee. Kirby and Spence. humming-bird, n.—Hermit humming-bird, any species of the genus Phaethornis, rather dull-plumaged



Hermit Humming-bird (Phaethornis guyi).

birds with wedge-shaped tails.—Humming-birds' trumpet. Same as Catifornia *fuchsia.—King humming-bird, a humming-bird of the genus Topaza, which has the outer tail-feathers long and curved inward.—Saw-beaked humming-bird, any one of a group of humming-birds distinguished by having the edgea of the front part of the upper mandible slightly notched.—Sword-billed humming-bird. Same as sword-bill (which see).—Vervain humming-bird, Mellisuga minima, a species found in Jannaica, almost the smallest of the group.—White-crowned humming-bird, one of the few species of the genus Microhera, which have the top of the head pure white.
humming-stick (hum'ing-stik), n. Same as bull-roarcr.

bull-roarer.

hummock, n. 3. A low hill of sand on the

sea-shore. Compare dune1.

hummocking (hum'ok-ing), n. The production of mounds and ridges of broken ice when two floes crowd upon each other.

two noes crowd upon each other.

humor, w.—Glactal humor, vitreous humor.—Hyaline humor. Same as glacial *humor.—Scarpa's
humor, endolymph.

humor, v. t. 3. To give a slight direction or
turn to (a fly, in fishing, or the like). N. E. D.

hump, n. 2. A sailors' name for a worthless
member of the erew; a green hand.—3. A
long tramp with a load on the back. [Australia.] E. E. Morris, Austral English.

humo E. t.—To hump blues. See thisse.

hump, v. t.—To hump bluey. See *bluey.

Humpbacked sucker. See *sucker.

humphed (humft), a. Altered by contact with igneous rock: said of coal. Barrowman, Glos-[Scotch.]

hump-shouldered (hump'shol'derd), a. Having high and humped shoulders.

humus, n.— Acid humus. See sour *humus.—Mild humus, n.— Acid humus. See sour *humus.—Mild humus, humus in a condition favorable to forest growth.

— Sour humus, humus harmful to forest growth, owing to the presence of humic or similar acids, produced by decomposition under excess of moiature and lack of air.

Hun. An abbreviation of Hungary. hunakai (hö-nä'ki), n. [Hawaiian, < huna,

very small or fine, + kai, the sea. The plant bears white flowers and grows on the sea-beach, almost within reach of the surf.] A native name for a species of morning-glory, Ipomæa acetosæfolia, which creeps in the sand along the sea-beach. It is a native of the

West Indies, Guiana, and Brazil.

Hunchakist (hun'cha-kist), n. and a. [Armenian hunchagyán, hunchág, a bell.] I. n. A member of one of the first Armenian patriotic revolutionary societies which arose against the oppressive misrule of the tyrant Sultan Abd-ul-Hamid II. of Turkey. The society published a paper for its propaganda, called *Hunchág*, which had with the title the picture of a bell, symbolizing its mission to awaken the people.

II. a. Of or pertaining to the Hunchagyán society.

Hungarian blue-grass. See $\star blue$ -grass.—Hungarian mill. See $\star mill$ 1.

Hungaritidæ (hung-ga-rit'i-dē), n. pl. [NL., \(Hungarites + -idæ. \)] A family of the ammonites belonging to the suborder Discoeampyli.

hunger-evil (hung'ger-ē"vil), n. Sudden attacks of extreme hunger in the horse: it occurs also, as a manifestation of epilepsy, in man.

Hungry quartz. See *quartz.

Hungry quartz. See *quartz.
Hunnemannia (hun-e-man'i-ä), n. [NL. (Sweet, 1828), named in honor of John Hunnemann, an English botanist.] A genns of plants of the family Papaveraeeæ. It contains a single Mexican species, II. funnitafolin, now somewhat cultivated under the name tultip-poppy. It is treated as a garden annual, being closely allied to the California poppy (Eschschotzia), from which it differs in having distinct sepals. The flowers are tulip-like, large, and yellow; the foliage is finely cut.

hunt, v. i. 4. In mech., to jump back and forth instead of remaining steady. Thus an engine governor is said to be 'hunting' when it goes too far in cutting off steam or putting it on, making the speed of the engine vary a little each way from the designed speed.—
To hunt at the view, to pursue game by sight, as the greyhound.—To hunt riot, of foxhomnds, to run a scent other than that of the fox.

hunt, n.1 7. In bell-ringing, a bell which is taken out of its order and then hunted by the others in the peal. See hunt, v. i., 3.-8. In elect, the see-sawing, surging of speed, or os-eillating which sometimes occurs in synchro-nous motors or other electrical apparatus. Trans. Amer. Inst. Elect. Engin., 1901, p. 374. hunter, n. 5. A watch having a double case,

that is, two single covers, one covering the works and the other the dial; a hunting-watch. Many antique watches were made with two distinct parts, the one an inner watch with a back of metal and a face of glass, and the other an outer case with only one metal back. In this manner the watch could be need as an open face, or else the dial or glass side of the watch could be reversed and thus protected by its hunting-case.

Hunter's moon. See *moon1, hunting, n. 3. An arrangement in the num-ber of leeth of gears in contact such that the same teeth come into touch with each other only after a number of revolutions. Taggart, Cotton Spinning, II. 5.

hunting-cat (hun'ting-kat), n. The chetah, Cynælurus jubatus, which is used for hunting deer and other game.

Huntingdon Connection. See *connection and Huntingdonian.

hunting-horse (hun'ting-hôrs), n. A horse used for hunting; a hunter.

hunting-lodge (hun'ting-loj), n. Same as hunting-box or shooting-box.
hunting-match (hun'ting-maeh), n. A com-

petition between shooters of game. Usually the several species of game killed are scored by a scale of points, and the match is won by the side scoring the highest number of points.

hunting-piece (hun'ting-pēs), n. A representation of a hunting scene.

Hunts. An abhreviation of Huntingdonshire.

huntsman, n. 3. In Honduras, the foreman of a gang of slaves, whose duty it is to search the woods to find employment for his men.

Lunt. dead to women's discusses and, to some extent, for men's shirts.

huntsman, n. 3. In Honduras, the foreman husk¹, n. 5. Corn-meal bran. [Southern U. S.]

—6. A cup-shaped form composed of short leaves, common in Greek, Roman, and Re-Hunts. An abhreviation of Huntingdonshire.

hurdle, v. II. intrans. To jump over a hurdle, as in a hurdle-race; hence, to jump over anything as if it were a hurdle.

hurdler (her'dler), n. 1. One who hurdles, or runs a hurdle-race.—2. A hurdle-maker. T. Hardy.

hurdle-racer (her'dl-ra"ser), n. A horse that competes in hurdle-races.

It has been remarked that steeplechase horses are usually in the first place schooled over hardles, and many animals remain hurdle-racers till the end. More speed

is required for hurdles than for a steeplechase course, and there is more money to be won over hundles than over "a country."

Encyc. Brit., XXIX. 333.

hurdle-screen (her'dl-skrën), n. In mining, a curtain or brattice hung in a roadway to divert the air-current upward and so free a hole in

the arr-current upward and so free a hole in the roof of gas. Barrowman, Glossary. hurdy-gurdy, n. 1. In a five-stringed instrument the lowest open string is called the bourdon, that next above the mouche, and the highest the trompette, and the melody strings are called chanterelles.—Hurdy-gurdy house, a dance-house in a mining-camp. [Western U. S.]

Hurlet limestone. See *limestone. hurley2 (her'li), n. In mining, a box on wheels;

hurley² (her'il), n. In mining, a box on wheels; a mine-car. Barrowman, Glossary.

Huron shale. See *shale².

Huronia (hū-rō'ni-ā), n. [NL., < Huron, one of the Great Lakes.] A genus of the nantiloid cephalopods of the family Actinoceratidæ: known by its siphuncle, which is very wide and consists of ring-like segments inflated directly behind the septa. It occurs in the Silmian. Silurian.

Hurricane distance. The following table shows the approximate distance that has been calculated for the center of the hurricane, according to the average fall of the barometer per hour. Although admittedly a rough calculation, it has been found to possess a certain value for the navigator.

Average fall of barometer per hour. From 0.02 in. to 0.06 in.
" 0.06 " " 0.08 "
" 0.08 " " 0.12 "
" 0.12 " " 0.15 " From 250 to 150.

Hurricane range. West India hurricanes, as a rule, range between the parallels of 10° and 50° N. and the meridians of 55° and 85° W.—Hurricane track. In the northern hemisphere a hurricane originating between the parallels of 10° and 18° N. advances in a northwesterly direction, and between the parallels of 25° and 30° N. curves to a northeasterly direction. In the southern hemisphere the cyclone has its origin in the equatorial regions and ndvances in a southwesterly direction. Ahout the parallel of 25° S. it curves to a southeasterly direction.—Hurricane wind. See ★wind2.—Paddy's hurricane. When there is no wind, so that the pennant hangs alongside the mast, it is said that a Paddy's hurricane is blowing, or that the wind is up and down the mast.

hurricane-beach (hur'i-kān-bēch), n. See the

At the windward corner of an atoll parallel lines of shingle beaches are usually found. As these beaches appear to be due each to a single storm they are termed hurrican-beaches, and they may be used to supply some approximation to a chronological system for measuring the rate of growth of coral formations.

(Geo. Laur. (R. G. S.) XI 674

Geog. Jour. (R. G. S.), XI. 674.

hurricane-bird (hur'i-kān-berd), n. The frigate-bird: so named from a popular belief that when it flies near the water a hurricane will follow. [Rare.]

hurricane-lamp (hur'i-kān-lamp), n. glass chimney or shade placed over a lighted candle or lamp to protect it from the wind. hurry, n. 4. In phys., a proposed unit of acceleration; an acceleration of one foot per second.

ond per second.

hurry-gum (hur'i-gum), n. In mining, dross or fine coal passed through a hurry. Barrowman,

Glossary. [Scotch.] hurst-frame (herst'fram), n. The frame which carries the bearings for the trunnions attached to the helve of a trip-hammer. Also spelled hirst-frame.

Hurter and Driffield's actinograph. See *actinograph.

rusi (hö'sə), n. [Philippine Sp., also jusi; < Tagalog husi.] In the Philippine Islands, a husi (hö'sé), n. thin fabric woven from the fibers of the Manila plantain, Musa textilis, and pineapple leaves, to which filaments of imported silk are some-times added and sometimes a little cotton. It is woven principally in Iloilo and western Luzon: used for women's dresses and, to some ex-

naissance decoration, from which rinceaux and other motives usually start. There are about 84 of these starting-points. Arch. Pub. Soc. Dict

 $husk^3$, n. 2. The verminous bronchitis of cattle, found particularly in calves, and caused by roundworms belonging to the species Metastrongylus micrurus.

husker, n. 2. Improved power-machines now separate the corn in the husk from the stalks and leaves, strip the husks from the unshelled cobs, clean and cut the stalks, leaves, and husks into convenient form for feed,

or for other purposes, and deliver the corn, by means of a conveyer, to a wagon, bin, or corn-sheller. See $\bigstar corn-sheller$.

huskie, n. See * husky3.

husky², a. 2. Rough and big; rough and energetic; burly: as, a husky fellow. [Slang, U. S.]
II. *a*. A 'husky' fellow; an energetic man;

a hustler. [Canadian Northwest.] husky³, n. 2. An Eskimo.

Before leaving, arrangements were made for Eskimo (or Huskies, as I shall in future call them) to meet me at Churchill in the following spring.

Geog. Jour. (R. G. S.), XVI. 64.

3. The Eskimo language.

hussakite (hö'sak-īt), n. [Named after E. Hussak of the Geological Survey of Brazil.] Xenotime in prismatic crystals, first described from Brazil. It is a common microscopic constituent of crystalline rocks elsewhere.

Austral English.

hutch-cleading (huch'kle"ding), n. In min-ing, the bottom-, side-, and end-boards of a

hutch or mine-car. Barrowman, Glossary. **Hutchinsonian**² (huch-in-sō'ni-an), a. Relating to or discovered by Jonathan Hutchinson (born in 1828), an English surgeon: noting various diseases and symptoms of disease dis-

covered or first described by him.

hutchinsonite (huch'in-son-it), n. [Named after Arthur Hutchinson, a demonstrator of mineralogy, Cambridge.] A rare sulphmineralogy, Cambridge.] A rare sulpharsenite of thallium, lead, silver, and copper, occurring in orthorhombic crystals of prismatic habit and red to grayish-black color: found in the dolomite of the Binneuthal, Switzerland. Hutchinson pupil. See *pupil2. Hutchinson's teeth. See *tooth. hutch-road (hutch'roid), n. In mining, a mine

road. Barrowman, Glossary. hut-circle (hut'ser'kl), n. In archæol., a ring of stones or of earth left after the destruction of a lutor tent and marking its circumference. hutia (hö'ti-ä), n. [NL. hutia, utia, < West Indian (Taino) huti, cuti, otherwise aguti: see agouti.] A name for the large rat-like rodents of the genus Capromys. The seven species are confined to the larger islands of the West Indies and are remarkable as being the only native laud mammals save the curious Solenodon.

hut-keep (hut'kēp), v. i. To take care of an Australian station-hut or cottage. E. E. Morris, Austral English.

Huttonian character, the style of Arabic numerals in which they are all the same height, as 1234567890: first introduced by Dr. Charles Hutton in 1785.

Huttonianism (hutō'ni-an-izm), n. In gcol., the views advocated by James Hutton (1726-1797), a Scotch geologist, and his followers. They emphasized igneous phenomena, are collectively called Plutonism, and are contrasted with *Wernerianism or *Neptunism.

hutu (hō'tō), n. Same as *futu.

Huxleian (huks'lē-an), a. Of or pertaining to Thomas Henry Huxley, an English naturalist and comparative anatomist (1825-95).

Yet it is worth while now and them to the state of the st

Yet it is worth while, now and then, to take stock of advances subsequent to, and largely consequent on, the Huxleian declaration. Science, March 22, 1901, p. 453.

Huxley's layer or membrane. See *membranc. Huygens's construction, zone. struction, half-period *element. See

struction, half-period *element.

Huzvarish, Huzvaresh (huz-vā'rish, -resh),
n. [Middle Persian.] A name applied to the hyaloserositis (hi″a-lō-sō-rō-sī'tis), n. [Gr. hyaloserositis (hi″a-lō-sō-rō-sī'tis), n. [Gr. hyaloserositis (hi″a-lō-sō-rō-sī'tis)]

huzzard (huz'ard), n. [Poss. a dial. form of uzzard for izzard.] A British anglers' name for an undetermined yellow fly used as bait.

ny. In math., a prefix used as an abbrevia-tion of hyperbolie: as, hysin x for sinh x, etc.

hyacinth, n.—California hyacinth. Same as *Brodizea, 2.—Hyacinth bacteriosis. See *bacteriosis of the hyacinth.—Oriental hyacinth, a variety of corundum.—Water-hyacinth. See *Piaropus.—Yellow disease of hyacinth. Same as *bacteriosis of the hyacinth.

Hyacinthia (hī-a-sin'thi-a), n. pl. [Gr. Υα-κινθια, neut. pl. of Υακίνθιος, ζ Υάκινθος, Hyacinthus.] In Gr. antiq., a Spartan festival celebrated at Amyelæ, in Laconia, in honor of the hone Hyacinthus. the hero Hyacinthus and of Apollo. It was probably held in the latter part of July. Its

sapphire.—2. A red or orange-red variety of zircon; also, as used by the jewelers, the orange-red or honey-red variety of hessonite

orange-red or honey-red variagement.

Hyænanche (hī-ē-nang'kē), n. [NL. (Lambert, 1797), ζ νάανο, hyena, + ἀγχειν, to strangle. The name alludes to the use of the strangle hyenas.] A genus of plants - μπλοτείνε Ευπλοτείατε επικος hyalotype (hī'a-lō-tīp), n. [Gr. νάλος, glass, hyalotype (hī'a-lō-tīp), hyalotype (hī'a-lō-tīp), hyalotype (hī'a-lō-tīp), hyalotype (hī'a-lō-tīp), hyalotype (hī'a-lō-tīp), hyalotype (hī'a-lō-tīp), hyalotype (hī'a-lō-t

hyænictine (hī-ē-nik'tin), a. Pertaining to hyænictine group of the Hyænictis: as, the hyænictine group of the Hyænidæ.

Hyænictis (hī-ē-nik'tis)

Hyænictis (hī-ē-nik'tis)

Hyænictis (hī-ē-nik'tis), n. [NL., \langle Gr. \dot{v} auva, a hyena, $+i\kappa\tau ic$, a ferret.] A genus of hyens (Hywnidw) which shows, in the character of its teeth, a transition from the genus Palhy-æna of the Lower Pliocene to the Euhyæna or living species of Hyæna. Its remains have been found in the Pliocene of Europe and

hustle, r. t. 2. To inveigle into dishonest games. [Slang.]
hustler, n. 2. A strong, heavy turning-chisel. hut¹, n. 4. The cottage of an Australian shepherd, sheep-shearer, or miner. E. E. Morris,

Tabernæmontana utilis. See milk-tree, 2, and Tabernæmontana Tabernæmontana.

Hyaline humor. Same as glacial *humor. Hyalodidymæ (lil″a-lō-did'i-mē), n. pl. [NL., ⟨Gr. ναλος, glass, + δίδυμος, twin.] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the *Pyrenomyeetes* and *Fungi Imperfecti*, to include the genera which have hyaline and uniseptate spores.

[Named **hyalogen** (hi'a-lō-jen), n. [Gr. ναλος, glass, + trator of -γενής, -producing.] The name of a class of compounds which possibly belong to the albuminoids. Some members are found in edible bird's-nests, others in the vitreous humor from the eyes of oxen and pigs.

hyalographer (hī-a-log'ra-fer), n. [hyalograph-y + -erl.] An etcher on glass or other

transparent substance.

Hyaloid body, the vitreous humor of the eye. hyalomicte (hī'a-lō-mik"tē), n. [Gr. ὖαλος, glass, + μικτός, mixed.] Same as greisen.

Hyalonematidæ (bl/a-lō-nō-mat/i-dō), n. pl.

[NL., ζ Hyalonema(t-) + -idæ.] Same as Hyalonemidæ.

hyalophagia (hī″a-lō-fā'ji-ā), n. [Gr. ὖαλος, glass, + ὁαγεῖν, eat.] Glass-eating. hyalophane (hī'a-lō-fān), n. [Gr. ὖαλος, glass, [Gr. valos,

hyalophagia (hĩ/a-lō-fā'ji-ā), n. [Gr. vaλος, glass, + φαγείν, eat.] Glass-eating.
hyalophane (hĩ/a-lō-fān), n. [Gr. vaλος, glass, + φανείν, eat.] Glass-eating.
hyalophane (hĩ/a-lō-fān), n. [Gr. vaλος, glass, + φανείς, ⟨ φαινεσθαί, appear, shine.] A monoclimic barium feldspar (K₂BaΛl₄(SiO₃)g) occurring sparingly, in glassy crystals resembling adularia, in the dolomite of the Binnenthal, Switzerland. Related, but less distinctly characterized, barium feldspars occur elsewhere.
Hyalophragmiæ (hĩ/a-lō-frag'mi-ō), n. pl. hydraul. Abbreviations of hydraulics. hyd., hydraul. Abbreviations of hydraulics. hyd., hydros. Abbreviations of hydrostatics. hyd., hydros. Abbreviations of hydrostatics.

Hyalophragmiæ (hī/a-lō-frag'mi-ē), n. [NL., ζ Gr. ναλος, glass, + φράγμα, partition.] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrcnomycetes and Fungi Imperfecti, to include the genera which have hyaline and 2- or more septate spores.

hyalopilitic (hī"a-lō-pi-lit'ik), a. [Gr. ναλος, glass, + πῖλος, felt, + -itc² + -ie.] In petrog., noting the structure of some lavas in which hydantoin (hī-dan'tō-in), n. [hyd(rogen)+(all)-nh. Ch² - nh. C microscopic prisms are crowded in a glass matrix. Rosenbusch, 1887.

hyaloplasma (hī″a-lō-plaz'mā), n. [Gr. ναλος, glass, + πλάσμα, anything formed.] Same as glass, + πλά *cytolymph.

hyalose (hī'a-lōs), n. [hyal(in) + -ose.] A sugar said to be formed by the hydrolysis of It is almost certainly identical with **Hydaspian** (hī-das'pi-an), a. and n.

companied by an exudation of a fibrinous material which undergoes hyaline degeneration, giving rise to the condition called *icing liver*, giving rise to the condition called icing liver, icing heart, etc., according to the membrane involved.

11. n. The Hydaspian stage.

12. n. The Hydaspian stage.

13. n. The Hydaspian stage.

14. n. The Hydaspian stage.

15. n. The Hydaspian stage.

16. n. The Hydaspian stage.

16. n. The Hydaspian stage.

17. n. The Hydaspian stage.

18. n. The Hydaspian stage.

hyalosome (bī'a-lō-sōm), n. [Gr. $\hat{v}a\lambda o\varsigma$, glass, $+\sigma \tilde{\omega}\mu a$, body.] In cytol, one of the nucleolus-like bodies which stain only faintly in nuclear or plasmic stains.

Hyalosporæ (hī-a-lō-spō'rē), n. pl. [NL., ζ Gr. va.oc, glass, + σπορά, seed (spore).] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrenomycetes and Fungi Imperprobably held in the latter part of July. Its duration is not known.

hyacinth-stone (hī'a-sinth-stōn), n.

1. The fecti, to include the genera which have unicellular, ovoid or oblong, and hyaline spores.

Hyalostelia (hī'a-lō-stē'li-a), n. [NL., < Gr.

ὖαλος, glass, + στήλη, a pillar.] A genus of Paleozoic lyssacine hexactinellid sponges pos-

In Guiana, same as zebra-wood, 1.

Aybocrinus (bi-bak)

Hybocrinus (hī-bok ri-nus), n. [Gr. $i\beta\delta\varsigma$, humped, + $\kappa\rho i\nu o\nu$, a lily (see crinoid).] A Silurian genus of the fistulate Crinoidea be-Silurian genus of the instulate Crinoidea belonging to the family Hybocrinidæ. It is characterized by a large inferradial plate, a small superradial, and simple arms devoid of pinnulæ and composed of quadrangular joints. It occurs in the Lower Silurian. **Hybognathus** (hi-bog'na-thus), n. [NL., \langle Gr. $i\gamma\beta\delta c$, humped, $+\gamma r\dot{\alpha}\theta c$, jaw.] A genus of small minnows, abundant in the eastern United

States, characterized by the elongate intestines and the herbivorous habit. H. nuchalis is the commonest of the numerous species.

Hybopsis (hī-bop'sis), n. [NL., ⟨ Gr. νβος, blunt, + δψες, face.] A genus of minnows of the eastern United States, characterized especially by the presence of barbels at the corner of the mouth. H. kentuckiensis is the com-

monest of the numerous species.

hybrid. I. n.—Attenuated hybrids, those hybrids in which the blood has been weakened by being subsequently again crossed. Even when the cross is much attenuated—or three or four or even more times removed from a pure hybrid origin by means of subsequent crossings—it may still produce marked effects in a cross without introducing such contradictory characters as to jeopardize the value of the offspring.—Bigeneric hybrid, a hybrid between species of different genera; bigener. See bigener.—Extracted hybrid, an extracted dominant or an extracted recessive considered as a Mendelian hybrid. See *dominant, 2.—False hybrid, a cross-bred organism which exhibits, and transmits to descendants, the characteristics of only one parent to the exclusion of those of the other.—Mendelian hybrid, a cross-bred organism, the offspring of parents which belong to two pure races or varieties differing from each other in respect to eharacteristics which are autagonistic or incompatible, and which transmits to some of its descendants the characteristics in question of one parent and to others those of the other; a cross-bred organism which conforms to or illustrates Mendel's principles of ancestral inheritance. See *necestral *inheritance (c).

II. a.—Hybrid purple. See *purple. monest of the numerous species.

II. a.—Hybrid purple. See *purple.

hydantoic (hī-dan-tō'ik), a. [hydanto(in) + ic.] Of or pertaining to hydantoin or hydantole acid.—Hydantoic acid, a colorless compound, H₂NCONHCH₂COOH, prepared by boiling hydantoin or a mixture of glycerol and urea with barinm-hydroxid solution. It crystallizes in monoclinic prisms and melts and decomposes at 153-156° C. Also called urea-methyl-carboxylic acid.

antoin.] A colorless compound, CO (NH.CH₂)

formed by the action of alcoholic ammonia on bromacetyl urea, or by the action of concentrated hydriodic acid on allantoin. It crystallizes in needles and melts at 215° C. Also called glycolyl urea.

daspes, a river of India, now Jhelum. [Of Hydaspes, a river of India, now Jhelum.] I. a. In geol., designating the lowest stage of the Dinarian or upper division of the Lower Triassic formation as classified by the Austrian geologists. It lies beneath the Anisian and shows the Jelustian stages. above the Jakutian stages.

hydatogenic (hī'dā-tō-jen'ik), a. In petrog., relating to precipitation from aqueous solutions: a term applied by Renevier (1882) to rocks precipitated from water, as rock-salt, gypsum, etc. In connection with the deposition of ores it is used in contrast with *pneumato-

hydatomorphic (hī dā-tō-môr'fik), a. [Gr. τόωρ (τόστ-), water, + μορφή, form, + -tc.] In geol., metamorphic processes involving solution in and crystallization from water.

hydatopneumatic (hī/dā-top-nā-mat'ik), a. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta a\tau$ -), water, + $\tau \nu \dot{v}\bar{\nu}\mu a(\tau$ -), wind, or borescens. It melts at 228° C. air, +-ic.] In petrog., resulting from the action of gases and water: used in connection valve; a valve fitted with a w with the formation of ore deposits.

hydatopneumatolithic (hī/dā-top-nū/ma-tō lith'ik), a. [Gr. $i\delta\omega\rho$ ($i\delta\alpha\tau$ -), water, $+\pi\nu\epsilon\bar{i}\mu\bar{a}(\tau$ -), wind, or air, $+\lambda\ell\theta\sigma$, stone, +-ic.] Same as

*hydatopneumatic.

*hydatopneumatic.
hydatopyrogenic (hī'dā-tō-pī-rō-jen'ik), a.
[Gr. νόωρ (νόατ-), water, + πνρ, fire, + -γενης,
-producing, + -ic.] Same as *aqueo-igneous.
Hydnaceæ (hid-nā'sē-ē), n. pl. [NL., < Hydnum + -aecæ.] A family of hymenomycetous fungi, named from the genus Hydnum,
having the hymenium covering the surface of spines or teeth which are sometimes flattened or reduced to mere tubercles. See Hydnum and *Irpex.

hydnocarpic (hid-nō-kär'pik), a. [Hydnocarpus + -ic.] Derived from Hydnocarpus Carpus + -ic.] Derived from Hydrocarpus Kurzii.—Hydrocarpic acid, an acid, $C_{16}H_{28}O_2$, found as a glyceride in the oil from the seeds of Hydrocarpus Kurzii, from India. It crystallizes in leaflets which melt at 50-60° C., and is a homologue of chaulmugric acid.

Hydrocarpus (hid - n_0 -kär 'pus), n. [NL. (Gaertner, 1788), \langle Gr. iovov, truffle, + $\kappa a \rho \pi \delta c$, fruit. The name alludes to the superficial approximation.

pearance of the fruit of Hydnocarpus venenata.] A genus of plants of the family Flacourtiaceæ. They are trees with alternate, pinnately veined, short-stalked, toothed or entire leaves, diocious flowers in small staked, toothed or entire leaves, diecrous nowers in small axillary racemes, and berry-like capsules with woody walls. There are about 23 species, native from eastern India to Sunatra and Java. The seeds of *H. anthelmintica* are used in China as a remedy for leprosy and skin-diseases; those of *H. venenata*, the Ceylon fish-poison, for similar purposes and as a source of lamp-oil. See Ceylon *fish-poison.

Hydnoceras (hid-nos'e-ras), n. [Gr. idvor, a

tuber, prob. a truffle, + κέρας, a horn.]
A genus of lyssacine hexactinellid sponges belonging to the family Dictyospongidæ and originally de-Dictyospongidæ and originally described by Conrad as a cephalopod. It is characterized by an obconical shape with eight prism faces and prominent tutted nodes arranged in horizontal and vertical rows. It was very abundant in the Upper Devonlan, frequently growing in extensive plantations.

Hydnora (hid-nō rii), n. [NL. (Thunberg, 1775), named because of the resemblance of the flower to from N. a fungus of the genus Hydnum, the ports, af

a fungus of the genus Hydnum, the original species of Hydnora, H. Afri-latic and having, on the inner surface Clarke.) cana, having, on the inner surface

of the perianth lobes, soft spines similar to those of the hymenium of Hydnum.] A genus of plants, typical of the family Hydnoraceæ. They are leafless parasites which grow on the roots of trees and shrubs. The large tubular flowers are borne singly on root-like, subterranean, branching axes. There are about 8 species, natives of Africa, Madagascar, and the island of Bourbon. H. Africana is known as jackats-toot (which sea). ost (which see).

Hydnoraceæ (hid-nō-rā'sō-ō), n. pl. [NL., (Solms-Laubach, 1874), \(\begin{array}{c} Hydnora + -aceæ. \]
A small anomalous family of dicotyledonous archichlamydeous plants of the order Aristolochiales, allied to the Rafflesiaceæ and formerly included in it, and typified by the genus *Hydnora (which see for principal characters). There is only one other small genus a limite of Argentina, Hydnora being chiefly South African. They are thick, succulent, leafless root-parasites of strange aspect.

hydracetin (bi-dras'ē-tin), n. [hydr(ogen) + cartis.] Sorve as surveilin.

acetin.] Same as pyrodin. hydradenitis (hī'dra-de-nī'tis), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, $+\dot{a}\dot{\sigma}\dot{\eta}v$, a gland, $+\cdot itis$.] 1. Inflammation of a lymph-gland.—2. Same as hydroadenitis.

nydrodenius.

hydradenoma (hi'dra-de-nō'mä), n.; pl. hydradenomata (-ma-tä). [NL., \langle Gr. $\tilde{v}\delta\omega\rho$ ($\tilde{v}\delta\rho$ -), water, + $a\delta\rho\nu$, a gland, + -oma.] A tumor due to hypertrophy of the sweat-glands.

hydradephagan (hī-dra-def'a-gan), n. of the Hydradephaga.

hydramide (hī-dram'id), n. [hydr(ogen) amide.] The name of a class of crystalline compounds, N₂R₃ (where R is any alkyl radical), formed by the action of ammonia on aldehydes, chiefly those of the aromatic series.

hydramine (hi-dram'in), n. [hydr(ogen) + amine.] The name of a class of liquid, strongly alkaline compounds, such as ethylene hydramine (HOCH₂CH₂NH₂), formed by the action of ammonia on alkaline oxids. Also called hydroxylalkyl bases.

hydramnion (hi-dram'ni-on), n. [NL.] Same as hydramnios

hydrangin (hi-dran'jin), n. [hydrang(ea) + -in².] A colorless crystalline glucoside, C₃₄

H₂₅O₁₁(?), found in the root of Hydrangea ar-

valve; a valve fitted with a waste-pipe and used to control the supply of a fire-hydrant. When closed it shuts off the supply and opens a waste-pipe to release the water standing in the hydrant above the valve. When opened it closes the waste-pipe.

hydrant-valve (h'drant-valv), n. A special

long-stemmed valve used to connect a hydrant

with a water-main.

hydrarenite (hi-drar/e-nit), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + L. arena, sand, + $-ite^2$.] Any sedimentary hydroclastic rock of somewhat fine or medium grain; a sandrock; a granular sediment. Grabau.

hydrargillutite (hī-drār-jil'n̄-tīt), n. [Gr. $b\delta\omega\rho$ hydriatric (hī-drī-at'rīk), α. [Gr. $b\delta\omega\rho$ ($b\delta\rho$ -), water, + $a\rho\gamma\iota\lambda\lambda o\varepsilon$, clay, + L. lutum, mud, water, + $ia\tau\rho\iota\kappa\delta\varepsilon$, curative.] Relating to the $(i\delta\rho_-)$, water, + $\dot{a}\rho\gamma\iota\lambda\lambda\phi_0$, clay, + L. lutum, mud, + $-ite^2$.] A hydroclastic sedimentary rock of extremely fine grain, whose chief constituent is clay; an argillaceous shale.

is clay; an argillaceous shale.

hydrargyresis (hi-drär-ji-rö'sis), n. [NL., < hydrargyrum + -osis.] Same as hydrargyriasis.
hydrargyrum ahdia [Rare.]

Hydrargyrum ammoniatum, white precipitate; ammoniated mercury. Hydrargyri chloridum corrosivum, corrosive sublimate; bichlorid of mercury. — Hydrargyri chloridum corrosivum, corrosive sublimate; bichlorid of mercury. — Hydrargyri cytlomic or subchlorid of mercury. — Hydrargyri subsulphas flavus, tmpeth mineral. — Hydrargyri sulphidum nigrum, æthiops mineral. — Hydrargyri sulphidum ruhrum, cinnabar. — Hydrargyri sulphidum ruhrum, cinnabar. — Hydrargyri sulphidum powder.

hydrarthros (hī-drär'thros), n. Same as hydrarthrosis.

hydrastinic (hī-dras-tin'ik), a. [hydrastin(ine) + -ic.] Pertaining to hydrastinine.—Hydrastinic acld, a colorless compound, $\operatorname{CH}_2 \left\langle \stackrel{\leftarrow}{0} \right\rangle \operatorname{C}_6 \operatorname{H}_2 \left\langle \stackrel{\leftarrow}{0} \operatorname{ONH}_2 \operatorname{CH}_3,$

prepared by the exidation of hydrastinine. It forms broad needles which melt at 164°C. hydrastinine (hī-dras'ti-nin), n. [hydrastine + -ine².] A colorless crystalline compound, CH₂ < O > C₆H₂ < CHO CH₂CH₂NHCII₃' formed by the exidation of hydrastine. It melts at 116-117°C. hydrastinum (hi-dras'ti-num)

hydrastinum (hi-dras'ti-num), n. [NL.] Same as hydrastine. hydrastonic (hī-dras-ton'ik), a. [hydrast(ine)

+ -one + -ic.] Noting a colorless acid, $\mathrm{CH}_2 \stackrel{?O}{\longleftrightarrow} \mathrm{C}_6\mathrm{H}_2 \stackrel{?}{\longleftrightarrow} \mathrm{CH}_2) \stackrel{1}{\longleftrightarrow} \mathrm{H}_2\mathrm{COC}_6\mathrm{H}_2 \stackrel{?}{\longleftrightarrow} \mathrm{G}^{3} \stackrel{4}{\longleftrightarrow} \mathrm{H}_3)_2$

COOH, prepared by the action of potassium

hydroxid on hydrastine methiodide. It crystallizes in plates.

hydrate, v.t.—Hydrated soap. Same as filled $\pm soap$. hydration, n.—Water of hydration, water chemically combined, as distinguished from hygroscopic mois-

hydratropic (hī-dra-trop'ik), a. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + atropic.] Noting a colorless acid, CII $_3$ CH(C $_6$ H $_5$).COOH, formed by the reduction of atropic acid. It boils at 264-265° C. Also called a-phenylpropionic acid.

a-phengiproponea acta.

Hydraulic foot-bond. See *foot-bond.—Hydraulic giant, in mining, a large stream of water under a high head, used for washing down a bank containing minerals. See cut under hydraulic mining.—Hydraulic gradient, lift, limestone, mining-cartridge. See *gradient, *lift.*klimestone, *cartridge.—Hydraulic-recoil carriage. See *carriage.

hydraulic (hī-drâ'lik), v. t. In mining, to work by the hydraulic-mining process.

hydrazobenzene (hī'dra-zō-ben'zēn), n. [hydrazobenzene (hī'dra-zō-ben'zēn), n. [hydr(ogen) + azo- + benzene.] A colorless crystalline compound, C₆H₅NH. NHC₆H₅, prepared by the action of zine dust and alcoholic potassium hydroxid on azobenzene or nitrobenzene. It melts at 126° C. and is readily converted into aniline or into benzidine.

hydrazoic (hī-dra-zō'ik), a. [hydr(ogen) + azo-+-ic.] Noting an acid, a colorless, very poisonous liquid, N₃H, prepared from nitrous oxid and sodium amide or from hydrazine sulphate and nitrous acid. It has a penetrating unbearable odor, closely resembles hydrochloric acid in general properties, and its metallic saits resemble the chlorids, with the exception that they dissolve in concentrated mineral acids and all explode with extreme violence when heated. The acid, both in the liquid state and in solution, is one of the most highly explosive substances known. It boils at 37°C. Also called azo-imide and hydronitric acid.

hydrazone (hī'dra-zōn), n. [hydr(ogen) + az(o-) + one.] The name of a class of erganic compounds with the group R'CH:NNHR or R'R'C: N.NHR, formed by the action of a hydrazone hydroxidal statement of the compounds with the group R'CH:NNHR or R'R'C: N.NHR, formed by the action of a hydrazone hydroxidal statement of the compounds with the group R'CH:NNHR or R'R'C: N.NHR, formed by the action of a hydroxidal statement of the compounds of the compounds of the compound of the com drazine on a compound containing a carbonyl group, water being eliminated. The hydrazines

and substituted hydrazines are generally formed with case and crystallize readily, consequently they are widely used for the identification and separation of aldehydes and ke-

hydrazulmine (hī-dra-zul'min), n. [hydr(ogen) + (Sp.) azul, blue, + (a)mine.] A black compound, NC.C(NH₂)NHNHC(NH₂)CN, formed by mixing dry cyanogen with dry ammonia. It crystallizes in plates, with a luster resembling pitch, and decomposes, without melting, when heated.

hydrencephalic (hī-dren-se-fal'ik), a. Relat-

hydresculin (hī-dres kū-lin), n. [hydr(ogen) + esculin.] A compound obtained by the action of sodium amalgam on esculin.

water-cure or hydrotherapeutics.

hydriatrics (hi-dri-at'riks), n. Same as hydrothe raneuties.

hydriatrist (hī-dri-at'rist), n. [hydriatr-ic + -ist.] One who treats disease by means of hydrotherapeutics.

hydriatry (hī'dri-at-ri), n. [Gr. $\hat{v}\delta\omega\rho$ ($\hat{v}\delta\rho$ -), water, + $\hat{i}a\tau\rho\hat{e}ia$, medical treatment.] Same as hydrotherapentics.

hydrics (hī'driks), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + - $\dot{v}cs$.] That branch of physics which deals with the properties of water.

with the properties of water.

hydrid¹, n.— Nitrogen hydrid, an improperly formed name which has been applied to hydrazoic acid or azoimide.—Palladium hydrid, the remarkable product obtained by heating metallic palladium in hydrogen gas or bringing the metal in contact with nascent hydrogen. Palladium absorbs several hundred times its own volume of hydrogen, the gas being expelled again on ignition. In this product the existence of a definite compound, Pd₄Ile₂, has been assumed, but it is more probable that the hydrogen is physically occluded in or dissolved by the metal, which undergoes notable expansion in absorbing it.—hydrin. In chem., this termination indicates -hydrin. In chem., this termination indicates a compound formed by replacing with a halogen atom or the eyanogen group one or more hydroxyl groups in a compound containing several of the latter.

hydrindene (hī-drin'dēn), n. [hydr(ogen) + indene.] A colorless oil, $C_6H_4\langle \overset{\overset{\circ}{CH_2}}{CH_2}\rangle CH_2$,

formed by the reduction of indene. It boils at 176° C

hydriodide (hī'dri-ō-did,-dīd), n. A salt of hydrihydriodide (in' dri-o-did,-did), n. A sail of nydri-odic acid. The term is sometimes applied, also, to substances, other than salts, formed by the addition of hydriodic acid to compounds.—Triethylamine hydriodide, a colorless compound, N(C₂H₅)₃lll, formed by triethylamine and hydriodic acid, or from diethylamine and iodide of ethyl. It resembles ammonium iodide in its general properties. Also called triethylammonium iodide.

hydroacridine (hī-drō-ak'ri-din), n. [hydro-droit] — acridine 1 A colorless compound.

(gen) + aeridinc.] A colorless compound, C_6H_8 C_{CH} C_6H_8 , formed by the action of

hydriodic acid and phosphorus on acridine. It crystallizes in leaves or long plates, melts at 48° C., and boils at 320° C. Also called octohudroacridine.

hydroalcoholic (hī/drō-al-kō-hol'ik), a. [Gr. iδωρ (iδρ-), water, + E. alcohol + -ic.] Consisting of water and alcohol: applied to solutions in this medium.

hydroanisoin (\ln^{7} dro-a-nis'ō-in), n. [hydro-(gcn) + anis(ic) + -o- + -in².] A colorless compound, CH₃OC₆H₄CHOHCII(OH)C₆H₄OCII₃, prepared by the reduction of anisic aldehyde with sodium amalgam. It crystallizes in very thin rhombic plates and melts at 172° C.

hydroanthracene ($h\bar{i}$ -dr \bar{o} -an'thra-s \bar{e} u), n. [hydro(gen) + anthracene.] A colorless compound, C_6H_4 $\langle {^{CH}_2} \rangle C_6H_4$, formed by the reduction of anthracene by hydriodic acid and

phosphorus, or by sodium amalgam. It crystallizes in large monoclinic plates, melts 108.5° C., boils at 313° C., and sublimes in needles. Also called dihydroanthracene.

hydroarion (hi-drō-ā'ri-on), n.; pl. hydroaria (-ii). [Gr. iδωρ ('ιδρ-), water, + φάριον, a little egg, used for NL. ovarium, ovary.] Watery eyst of the ovary.

hydro-aromatic (hī/drō-ar-ō-mat'ik), a. [hydro(gen) + aromatic.] Noting certain organic compounds which contain reduced aromatic nuclei, that is, benzene or condensed benzene nuclei to which hydrogen has been added.

hydrobenzoic (hi/drōben-zō'ik), a. [hydro-(gen) + benzoic.] Derived from hydrogen and benzoic acid: descriptive of a class of compounds formed by the addition of varying amounts of hydrogen to benzoic acid. One of the best-known of these is Δ^2 -tetrahydrobenzoic acid or benzoic acid, $\Omega_1^2 < \Omega_1^2 < \Omega_2^2 > \Omega_2^2 < \Omega_3^2 > \Omega_3^2 < \Omega_3^2$

hydrobenzoin (hī-drō-ben'zō-in), n. [hydro-(gen) + benzoin.] A colorless compound, C_6H_5 CHOH.cHOHC $_6H_5$, prepared by the reduction of benzaldehyde. It crystallizes in see ceramic.] Of the nature of or consideration of the nature of or consideration of the nature of or consideration. lustrous leaves or monoelinic plates, melts at 134° C., and boils above 300° C. hydroberberine (hī-drō-ber'be-rin), n. [hydro(gen) + berberine.] A colorless compound,

$$\begin{array}{c} (\text{CH}_3^{\text{O}}\text{O})_2\text{C}_6\text{H}_2 < \overset{\circ}{\text{C}}\text{H}_2\text{.CH} \longrightarrow \text{C}_6\overset{\circ}{\text{H}}_2^2 \\ & \overset{\circ}{\text{O}}\text{>}\text{CH}_2, \text{ formed by the reduction of} \\ \end{array}$$

berberine, into which it is readily converted by oxidizing agents. It crystallizes in dia-mond lustrous grains, in long, flat monoclinic needles, or in octahedra, and melts at 167° C.

Hydrobia (hi-dro'bi-ā), n. [NL. (Hartmann, 1821), ζ Gr. ἐδωρ (ἐδρ-), water, + βίος, life.]
The typical genus of the family Hydrobiidæ.

Hydrobiidæ (hī-drō-bī'i-dē), n. pl. [Hydrobia +-idæ.] A family of tænioglossate gastropods, having the operculigerous lobe without filaments and the shell small and acuminate. It A family of twnioglossate gastropods, includes the following genera, found in brackish or fresh water: Hydrobia, Bithynia, Lithoglyphus, Pomatiopsis, Bithynella, and Assi-

hydrobilirubin (hī/drō-bil-i-rö'bin), n. [hy dro(gen) + bilirubin.] A reddish-brown powdery compound, $C_{32}H_{40}O_7N_4$, found in the urine of fever-patients and infeces. It is generally supposed to be a reduction-product of bilirubin, formed by the activity of bacteria in the intestinal canal. According to others, and notably Garrod, it is a laboratory product and occurs neither in the urine nor in the feces.

hydroblepharon (hi-drō-blef'a-ron), n. [Gr. νδορ (νόρ-), water, + βλέφαρον, eyelid.] Edematous swelling of the eyelid.

Hydrobromic ether. See *ether1.
hydrobromide (hi-drō-brō'mid), n. [hydro-

brom-ic + -ide¹.] The class name of the salts of organic bases with hydrobromic acid. The term is sometimes applied to compounds, other than salts, which are formed by the direct addition of hydrobronic acid to some substance.

hydrocalcirudite (hī/dro-kal-si-rö'dīt), n. [Gr $i\delta\omega\rho~(i\delta\rho-)$, water, + L. calx~(cale-), lime, + rudes, rubbish, + $-ite^2$.] A coarse hydroelastic rock made up in large part of limestone pebbles: a limestone conglomerate.

hydrocampid (hi-dro-kam'pid), n. and a. A member of the lepidopterous family Hydrocampidæ.

Of or belonging to the family Hydro-

campidæ. Hydrocarbon gas. See *gas.

hydrocarbonate, n. 2. In modern chem. and mineral., an acid earbonate or earbonate of hydrogen and a metal: as, hydrocarbonate of magnesia (magnesium acid carbonate), H₂Mg (CO₃)₂; also, but improperly, applied to a compound of a metal with hydroxyl and the radical of earbonic acid: as, hydrocarbonate of copper (of the mineral malachite) equals cop-

per hydroxycarbonate, Cn_2 .(HO)₂. CO_3 . hydrocarbostyril (hi#drō-kär-bō-sti ril), [hydro(gen) + carbo(n) + styr(ax) + -il.] $\dot{\mathrm{CH}}_{2}.\dot{\mathrm{CH}}_{2}$ eolorless compound, C₆H₄ (NH, CO

pared by melting hydrocarbostyril- β -earboxylic acid. Iterystallizes in large lustrous prisms and melts at 163° C.

hydrocarotin (hī-drō-kar'ō-tin), n. [hydro-(gen) + L. carota, earrot, + -in².] A colorless eompound, C₁₈H₃₀O(?), formed in small quantity in earrots. It closely resembles cholesterol, crystallizes in monoclinic plates, and melts at 137.4° C. Also spelled hydrocarrotin.

hydrocaulus, n. 2. The atheeiferous stem of the hydroid eorals: semetimes applied to the filiform process by which the sieula of the

graptolite is suspended.

Hydrocele agar. See *agar2. Hydrocephalic cry. See ★cry.

[NL., \ hydrocephalis (hi-drō-sef'a-lis), n. [NL., \langle Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + $\kappa\epsilon\phi\alpha\lambda\eta$, head.] In hydreid polyps, the oral and stemachal regions, considered together. Compare *hydrocope.

pounds formed by the addition of varying hydrocephalocele (hī-drō-sef'a-lō-sēl), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + $\kappa\epsilon\phi a\lambda\dot{\eta}$, head, tumor.] Same as hydreucephalocele.

ίδωρ (ίδρ-), water, + κεραμικός, of pottery: sce ceramic.] Of the nature of, or consisting of, clay which remains porous after baking. Unglazed vessels of this material are used to cool liquids by evaporation.

hydrocharidaceous (hī'drō-kar-i-dā'shius), a. Belonging to or having the characters of the plant family Hydrocharidaceæ.

hydrocharidian (hi*drō-ka-rid'i-an), a. [Hydrocharis (-id-) + -an.] In phytogeog., having the ecological character of Hydrocharis, that is, swimming free in water, either submerged or more or less emerging, whether small like Lemna or larger like Stratiotes. See quotation under *limnean.

hydrochlorid (hī-drō-klō'rid), n. [hydrochloric + -idī.] The class name of salts of organic +-id1.] The class name of salts of organic bases with hydrochloric acid. It is occasionally applied to compounds, other than salts, formed by the direct addition of hydrochloric acid to a substance.

as by ocean currents, streams, etc. F. E. Clements.

hydrochorous (hī-drō-kō'rus), a. [hydrochoro +-ous.] Having the character of, or pertain-ing to, hydrochores. F. E. Clements.

hydrocinnamic (hi-drō-sin'a-mik), a. [hydro-(gen) + cinnamic.] Derived from hydrogen and einmamie aeid.—Hydrocinnamic acid, a colorless compound, C₆H₅CH₂CH₂COOH, prepared by the reduction of cinnamic acid and formed during the putrefaction of ox-nrine or fibrin, and hy the pancreatic putrefaction of albumin. It crystallizes in monoclinic prisms or long needles, melts at 48.7° C., and boils at 279.8° C. Also called homotoluic acid, benzyl-acetic acid, and β-phenyl-propionic acid.

hydrocinnamide (hi-drō-sin'a-mid), n. [hydro(gen) + cinnam(on) + ·ide¹.] A colorless compound, N₂(C₆H₅C₃H₃)₃, prepared by the action of ammonia on einnamon-oil. It crystallizes in needles melting at 106° C.
hydrocladium (hī-drō-klā'di-um), n.; pl. hydrocladia (-ä). [NL., ⟨Gr. vδωρ (vδρ-), water, + κλάδος, branch.] One of the hydrothecabearing branches or ramuli of the eœnosarc of hydrocinnamic (hī-drō-sin'a-mik), a.

bearing branches or ramuli of the ecenosarc of Plumularidæ.

hydroclastic (hī-drō-klas'tik), a. and n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + $\kappa\lambda a\sigma\tau\delta\varsigma$, broken, + -ic.]

I. a. In petrog., noting elastic rocks formed by the action of water.

II. n. A fragmental rock produced by the

action of water. **Hydrocleys** (hi-drok'lē-is), n. [NL. (Richard, 1815), irreg. (Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, $+\kappa\lambda\epsilon i\varsigma$, bolt, key. The allusion is apparently to

A genus of plants of the family Butomaceæ. II. nymphoides, the only species, is an aquatic plant of tropical America, often cultivated in tanks and ponds under the name Limnocharis Hum-boldti. It has ovate,



hydroclistogamy (hī "drō - klīs - tog 'a - mi), n nyarochistogamy (n¹ arō-khs-tog a-mi), n. 21, 1505, protos, Nebraska.

hydrocæl, n. See *hydrocæle.

echinoderms gives rise to the radial vessels hydro-extractor (hi'dro-eks-trak'tor). n. 1. and the ring-vessel of the ambulacral system. A centrifugal machine, specifically one used

He [Bury] describes the origin of the ampulla of the stone-canal from the anterior celonic cavity of the left side, and the growth of the left posterior segment of the celon so as to completely encircle the hydrocæte or midment of water-vascular system.

Philos. Trans. Roy. Soc. (London), 1903, ser. B. p. 288.

hydrocollidine (hī-drō-kol'i-din), n. [hydro-(gen) + Gr. κόλλα, glue, + -idl + -inc².] A celorless oily ptomaine, C₈H₁₃N, formed by the distillation of nicotine with selenium and by the putrefaction of flesh. It has a peneby the putrefaction of flesh. It has a penetrating aromatic edor and boils at 205° C.

trating aromatic edor and boils at 205° C. hydrocope (hī'drō-kōp), n. [Gr. ὐδορ (iδρ-), water, + κόπη, handle.] The peduncle of a hydroid polyp, as distinguished from the *hydrocephalis (which see).
hydrocoridine (hī-drō-kor'i-din), n. [hydro-(gen) + Gr. κόρις, a bug, + -id + -inc².] A erystalline ptomaine, C₁₀H₁₇N, obtained from the cultures of certain kinds of bacteria on pentone agar. peptone agar.

peptone agai. n. [Hydrocorisæ + -an.] I. a. Of or belonging to the heteropterous series Hydrocorisæ. II. n. A member of the series Hydrocarisæ.

hydrocotoin (hī-drō-kō'tō-in), n. [hydro-(gen) + Coto + -in².] A pale-yellow compound, HOC₆H₂(OCH₃)₂COC₆H₅, found in Coto bark. It crystallizes in large prisms or long thin needles, and melts at 98° C. Also called benzoylphloroglucinol dimethylether, benzocotoin, or preferably trihydroxydiphenylketone dimethyl ether.

hydrochore (hí'drō-kōr), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), hydrocoumarin (hī-drō-kō'ma-rin), n. [hydrowater, $+ \chi\omega\rho\bar{i}\nu$, spread abroad.] In phytogeog., a plant distributed exclusively by water, pound, $C_6H_4\langle {\rm CH_2} \rangle$ CH₂, formed by the dis-

tillation of orthohydrocoumarie acid. It crystallizes in plates, melts at 25° C., boils at 272° C., and has an odor of coumarin. Also called orthophenotyropytic anhydrid or metitotic anhydrid, hydrocroconic (hī'drō-krō-kon'ik), a. [hydro-krō-kon'ik], a.

(gen) + croconic.] Noting an acid, a yellow-ish-brown compound, OC:CHCH(COOH)₂(?), formed by the reduction of creeonic acid with

hydriodic acid. Most of its salts are red.

hydrocurcumin (hī-drō-kėr'kū-min), n.

[hydro(gen) + curcumin.] A brownish-white
powder, C₁₄H₁₆O₄, obtained by the action of
sodium amalgam on curcumin. It melts at about 100° C.

hydrocyanate (hī-drō-sī'a-nāt), n. [hydrocyan-ic + -atel.] A disallowed synonym of hydrocyanide.

hydrocyanice.

Hydrocyanic acid. This compound has recently been prepared by passing an electric discharge through a mixture of carbon monoxid, nitrogen, and hydrogen. Such gaseous mixtures are manufactured on a large-scale under the name of generator gas. Gaseous hydrocyanic acid is used to an increasing extent as an insecticide. It is specially employed for the funnigation of citrus- and appletrees as a specific against the San José scale (which see).—Hydrocyanic ether. See **ether*!.

hydrocyanuric (hī-drō-sī-a-nū'rīk), a. Noting an acid, C₃H₃N₃O₃, which results from heat-ing biuret, ammonia being liberated at the

hydrocycle (hī'drō-sī-kl), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, $+\kappa i\kappa\lambda oc$, wheel.] A velocipede adapted for propulsion on the surface of the water. N. E. D.

the obstruction of waterways by the plant.] hydrocyst, n. 2. A cyst containing a clear watery fluid.

Hydrodamalidæ (hī/drō-da-mal'i-dē), Hydrodamalidæ (hī"drō-da-mal'i-dē), n. pl. [NL. Hydrodamalis, type genus, + -idæ.] A family of sirenian mammals whose only known member is the northern sea-eow or Rhytina. By the rule of priority this name takes the place

the rule of priority this name takes the place of Rhytinidæ. Palmer, 1895.

Hydrodamalis (hī-drō-dam'a-lis), n. [NL., ⟨ Gr. iδωρ (iδρ-), water, + δάμαλις, a young cow.] The earliest generic name of the arctic sea-cow, Rhytina. Retzius, 1794.

hydrodiffusion (hī'drō-di-fū'zhon), n. [Gr. iδωρ (iδρ-), water, + E. diffusion.] The intermingling of fluids.

hydro-economics (hī'drō-ē-kō-nom'iks). n.

hydro-economics (hī'drō-ē-kō-nom'iks), n. The economics of waters, water-rights, and the uses of waters, particularly in their industrial and sanitary relations. Science, April 21, 1905, p. 618.

hydro-electric, a. 2. Of or pertaining to the generation of electric currents by means of water-power.—Hydro-electric bath. See *bath1.

Electricity generated by means of power or steam. water-

hydrocœle (hī'drō-sēl), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), hydro-electrothermic (hī'drō-ē-lek-trō-ther'water, + $\kappa\sigmai\lambda\rho_{\rm c}$, hollow.] In *embryol*., the mik), a. A name given by Slavianoff to a portion of the left enterocœlie sae which in method of electric welding devised by him.

water from textile material. The wet material is placed in a perforated drum or basket and revolved at a speed of from 500 to 1,000 or more revolutions per minute, thus causing the water to be expelled through the perforations by centrifugal force.

A salt of hydroferricyanic acid; more commonly called a ferricyanide: as, potassium ferricyanide.

Hydrogode (hi'drō-gōd), n. [hydrog(en) + ricyanide.

Hydroferrocyanate (hī-drō-fer-ō-sī'a-nāt), n.

Hydrogeological (m drō-je-v-lō-j-sī, n. hydrogeology.

Hydrogode (hi'drō-gōd), n. [hydrog(en) + Gr. 666c, way.] In elect., a negative terminal of an electrolytic cell.

hydroferrocyanate (hī-drō-fer-ō-sī'a-nāt), n. A salt of hydroferrocyanic acid: more com-hydrografy, etc. A simplified spelling of hymonly called a ferrocyanide: as, potassium ferdrography, etc. rocyanide.

hydrofobia, n. A simplified spelling of hydro-

hydrofranklinite (hi-drō-frangk'lin-it), n. A hydrated oxid of iron, manganese, and zine, occurring at Franklin Furnace, N. J. It was at

occurring at Franklin Furnace, N. J. It was at first supposed to be an independent isometric species, but is in fact identical with chalcophanite, having a rhombohedral, not octahedral form. hydrogallein (hī-drō-gal'ē-in), n. [hydrogalleie + -in².] A colorless crystalline compound, $O(\frac{C_6H_2(OH)_2}{C_6H_2(OH)_2}) > C(\frac{C_6H_4}{O})$ Co, prepared from hydrogalleie acid, of which it is the anhydrid. the anhydrid.

hydrogel (hi'drō-jel), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + L. gel(are), cool (see $\star gel$, n.).] A gel in which the individual gelatinous particles are supposed to be surrounded by water; the gelatinous hydrate formed by a colloid.

The inorganic colloids or so-called hydrogets have been studied by Van Bemmelen. They are chiefly characterized by the peculiar structural relation they hear to water. They can be hydrated and rehydrated indefinitely unless by heating to too high a temperature the colloid structure is destroyed. Science, Feb. 6, 1903, p. 213.

studied by Van Bemmelen. They are chiefly characterized by the peculiar structural relation they hear to water. They can be hydrated and rehydrated indefinitely unless by heating to too high a temperature the colloid structure is destroyed. Science, Feb. 6, 1903, p. 213.

hydrogen for atrongly electropositive elements or radicals, easily exchanging hydrogen for atrongly electropositive elements or radicals, easily exchanging hydrogen for atrongly electropositive elements or radicals to form sails, are the same as acids: as hydrogen chlorid (hydrochloric acid), etc.—Cosmic hydrogen, the peculiar form of hydrogen discovered by Flekering in 7 Prappis. The lines of this series its between those of the long-known ordinary series, and in their arrangement follow a very similar but not identical law.—Hydrogen dioxid, a substance occurring in traces in the atmosphere, and produced to some extent during the oxidation of turpentine and other materials in presence of water, prepared in quantity by the action of dilute aniphuric acid on barium dioxid. It is a somewhat viscid, coloriess liquid (in mass of deeper blue color than water), of density 1.5, with an irritant smell and harsh, acrid taste, corrosive to the skio and capable of bleaching colors of organic origin, less volatile than water (boils at 184 F. under 68 millimeters pressure), and easily decomposed by heat or by contact with sundry substances, such as spongy platinum, silver oxid, etc., hito oxygen gas and water. Its composition is represented by the formula 1200, or, when acting as a radical in combination, ItO. Used in certain processes of bleaching, in chemical analysis, and as an antiseptic. Also known as hadrogen peroxid and by a number of trade-names.—Hydrogen peroxid and by a number of trade-names.—Hydrogen peroxid and hydrochoric acid to a solution of calcium polyshiphids. It decomposes very easily into hyadicaline, and sulphure ted hydrogen, making it difficult to determine its exact composition; that is probably Hy5a, analogous to that of Hy02, or h

by dyers, bleachers, and scourers to extract hydrogenase (hī/drō-je-nās), n. [hydrogen + hydrolutite (hī-drō-lū'tīt), n. [Spelled, with

-ase.] A type of reducing ferment. hydrogenic (hī-drō-jen'ik), a. [hydrogen -ic.] Same as hydrogenous, in any sense.

2. In tanning, a wringer for removing water from skins. Modern Amer. Tanning, p. 36. hydroferricyanate (hī*drō-fer-i-sī'a-nāt), n. hydrogeological (hī*drō-jē-ō-loj'i-kal), a.

hydrohemia (hī-drō-hē'mi-ā), n. Same as hydremia.

hydroherderite (hī-drō-hèr'der-īt), n.

hydroholoxid (hī'drō-hō-lok'sid), n. [hydro-(gen) + Gr. 500c, whole, + E. oxid.] A hypothetical product of the union of a basic oxid not merely with the elements of water but also with those of hydrogen dioxid.

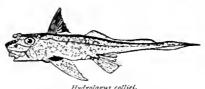
hydrohyalus (hi-drō-hi'a-lus), n. [Gr. ἐδωρ (ἐδρ-), water, + ἐαλος, glass.] A kind of fixative used to preserve the color of marble and poros statues in the National Archæological Museum at Athens. It is a solution of calcined soda in water in the proportion of one to two. Jour. Hellenic Studies, X. 275.

hydroid, n. 2. A hydropolyp, hydroidean (hī-droi'dē-an), a. and n. I. a. f or pertaining to the Hydroidea.

hydroisatin (hī-drō-ī'sā-tin), n. A colorless unstable compound, $C_8H_7NO_2$ (?), formed by the reduction of isatin.

hydrokineter (hī"drō-ki-nō'ter), n. [Gr. εδωρ ($\dot{\nu}$ δρ-), water, + κινητήρ, a mover.] A device for circulating the water in a steam-boiler while the fire in the furnace is deing or when natural circulation or convection is inadequate. It consists of a nozle, located below the water-level, through which a jet of steam is thrown into the water in the boiler, thus warming it and keeping it in circulation. Marine Rev., Nov. 17, 1898, p. 16.

hydrol (hi'drol), n. [hydr(ogen) + -ol.] A hypothetical hydroxylated derivative of phenolphthalein. In general the name might be used phthalein. In general the name mig



Hydrolagus colliel. (From Bulletin 47, U. S. Nat. Museum.)

of the genus Chimæra, typified by the elephant-

hydrolatry (hi-drol'a-tri), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, $+\lambda\alpha\tau\rho\epsilon ia$, worship.] The worship of water. Jour. Amer. Folk-lore, April-June,

water, The algebra, worship of water, The worship of water, Jour. Amer. Folk-lore, April-June, hydronephros (hi-drō-nef'ros), n. [NL., \langle Gr. 1903, p. 132. hydrolutidin (hī-drō-lū'ti-din), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + $v\epsilon\rho\rho\delta$, kidney.] Edematous infiltration of the kidney. ($i\delta\rho$ -), water, + L. lutum, mud, + -id + $-in^2$.] hydroneurosis (hī'drō-nū-rō'sis), n. [NL., \langle A ptomaine, $C_7H_{11}N$.

intended distinction, hydrolutyte; $\langle Gr. iδωρ(iδρ-), water, + L. lutum, mud, + -ite²-] A hydroclastic rock-flour; a water-transported mud. Amer. Gool., April, 1904, p. 247.$

Agriculture Agric

Thydrografy (in dro-god), n. [ngarog(en) + to obok, III. 95.
an electrolytic cell.
hydrografy, etc. A simplified spelling of hydrography, etc.
hydrograph (hi'drō-grāf), n. [Gr. iδωρ (iδρ-), water, + γράφειν, write.] 1. A diagram showing the heights of water in a river day by day during any interval.
The highest and lowest water, mean stage, and monthly range at 134 river stations are given in Table VII. Hydrographs for typical points on seven principal rivera are shown on Chart V.
U. S. Mo. Weather Rev., Jan., 1902, p. 3.
2. An apparatus for automatically recording the height of water in rivers or in wells, analogous to the limnograph for lakes or to a self-recording tide-gage for oceans. It has a vertical scale for the height of water and a horizontal scale for the time.
Hydrographic chart, engineer. See *chart,
**Evalueer*

hydromase (hī'drō-mās), n. A ferment found in the hyphæ of certain fungi which is capable of destroying the lignified walls of vegetable

hydromechanical (hī/drō-mē-kan'i-kal), a. Of or pertaining to the science of liquids in motion, or to mechanical devices in which water is employed.

hydromeconic (hī/drō-mō-kon'ik), a. [hydro-(gen) + meconic.] Noting an acid, a color-less, syrupy compound, $C_7H_{10}O_7$, which is formed by the reduction of meconic acid. It decomposes when heated.

hydromellitic (hī/drō-me-lit'ik), a. (gen) + mellitic.] Noting an acid, a colorless compound, $C_{12}H_{12}O_{12}$, prepared by the reduction of mellitic acid. It crystallizes with con-

siderable difficulty.

Of or pertaining to the Hydroidea.

II. n. A hydroid polyp.

hydro-igneous (hī-drǫ-ig'nǫ-us), a. Same as *aqueo-igneous.

hydroiodic (hī''drǫ-ī-od'ik), a. Same as hydroiodic (hī''drǫ-ī-od'ik), a. Same as hydromeningocele (hī''drǫ-mẹ-ning'gō-sēl), n. [Gr. $\hat{v}\delta\omega\rho$ ($\hat{v}\delta\rho$ -), water, $+ u\bar{\eta}vv\gamma\xi$ ($\mu\eta v\gamma\gamma$ -), membrane, $+ \kappa\bar{\eta}\lambda\eta$, tumor. See meningocele.]

A tumor caused by protrusion of the membranes of the brain or enjust and of the options. branes of the brain or spinal cord. It contains ccrebrospinal fluid, but no nerve substance. hydrometallurgical (hī/drō-met-a-ler'ji-kal)

a. Noting the performing of a metallurgical process by hydraulic power.

hydromineral (hī-drō-min'e-ral), a. [Gr. iδωρ (iδρ-), water, + E. mineral.] Relating to mineral waters; noting the treatment of disease by

means of medicinal springs. hydromuconic (hī/dro-mū-kon'ik), a. Noting two acids (dihydromuconic acids), which may be obtained by the reduction of muconic acid. The Δaβ isomer, 110C0CH₂CH₂CH₂CH₂CHCOOH, crystallizes in plates, melting at 168–169° C. The Δβγ isomer, 110CO.CH₂CH₂CHCHCHCOOH, forms long, columnar crystals, which melt at 195° C.

hydromuscovite (hī-drō-mus'kō-vīt), n. See

of the genus Catmara, typined by the deplicant matter. Since the California coast, usually called hydromyelocele (hī-drō-mī'e-lō-sēl), n. [Gr. δωρ (ἐδρ-), water, + μυελός, marrow, + κήλη, hydrolatry (hī-drol'a-tri), n. [Gr. δωρ (ἐδρ-), tumor.] An excess of finid in the central canal water, + λατρεία, worship.] The worship of of the spinal cord; hydromyelia.

an extreme tendency to hydropsychoses. G. S. Hall. Adolescence, II. 194. hydronitric (hī-drō-nī'trik), a. [Gr. iδωρ (iδρ-), water, + NL. nitricus, nitric.]—Hydronitric acid. Same as *hydrazoic acid.

acid, a colorless compound, HOC₆H₄CH₂CH₂ of the polyp-stocks of the *Hydrozoa*. COOH, found in urine and in the putrefaction—

Modropicoline (h-drō-pik'ō-lin), n. hydropicoline** (h-drō-pik'o-lin), n. hydropicoline** (h-drō-pik'o-lin), n. hydropicoline** (h-drō-pik'o-lin), n. hydropicoline** (h-drō-pik'o-lin), n. hydropico products of tyrosin, and prepared by the reduction of paracoumaric acid. It forms small monoclinic crystals and melts at 128-129° C.

hydropathic, a. II. n. [Short for hydropathic establishment.] A sanatorium in which the treatment is chiefly hydropathic; a water-cure

establishment.

There are also mud-baths and hydropathics. Encyc. Brit., XXX. 125.

hydroperoxid (hī'drō-per-ok'sid), n. Same as hydrogen dioxid: a term not in general use. **hydrophil** (hī'drō-fil), a. [Gr. $\hat{v}\delta\omega\rho$ ($\hat{v}\delta\rho$ -), water, $+\phi\hat{i}\lambda\sigma$, loving.] 1. Capable of readily taking up water; hygroscopie; bibulous.

Two electrodes of 10 sq. cm. surface were applied to the ends of a space 10 cm. by 6 cm. on the shaven skin of a rabbit, contact being made by means of hydrophil cotton impregnated with a 1 per cent. solution of zinc chloride. Elect. World and Engin., Nov. 28, 1903, p. 888.

Elect. World and Engin., Nov. 28, 1903, p. 888.

2. In bot., same as hydrophilous.
hydrophilia (hī-drō-fil'i-ii), n. [NL., ⟨Gr. iδωρ (iδρ-), water, + -φίλία, ⟨ φίλος, loving.] Fondness for being wet, for playing in or with water, for watching and hearing the flow of water, etc. G. S. Hall, Adolescence, II. 195.
hydrophilic (hī-drō-fil'ik), a. Same as *hydrophilous, a. 2. In phytogeog.: (a) Requiring much moisture: said of plants. (b) Less properly, presenting conditions favorable to

properly, presenting conditions favorable to such plants; hydrophytic. (c) Aquatic: applied by Pound and Clements to a class of fungi. Also hydrophil.—3. In entom., having the character of a beetle of the genus Hydrophilus or family Hydrophilidæ.

hydrophily (hi-drof'i-li), n. Same as *hy-

hydrophlorone (hī-drō-flō'rōn), n. [hydro-(gen) + phlorone.] A colorless compound, (CH₃)₂C₆H₂(OH)₂, prepared by the action of sulphur dioxid on phlorone. It crystallizes in pearly, lustrous leaves, melts at 212° C., and sublimes. Also called hydroparaxyloquinone, or 1.4-dimethylphendiolog 5 cm.

phobia + -ac.] One who is affected with hydrophobia. hydrophobiac (hī-drō-fō'bi-ak), n.

hydrophobian (hī-drō-fō'bi-an), n. [hydrophobia + -an.] Same as *hydroph hydrophobist (hi-dro-fo'bist), n. Same as *hydrophobiac.

hydrophobist (hi-dro-fô'bist), n. [hydropho-bia+-ist.] One who has a morbid dread or fear of water. N. E. D. hydrophobous (hi-drof'ō-bus), a. Same as hy-

hydrophone (hī'drō-fōn), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, $+\phi\omega\dot{v}\eta$, a sound.] 1. An instrument for detecting the flow of water in a pipe (thus locating waste) by the sounds produced in a microphone.—2. An instrument used in auscultation whereby sounds are conveyed

through a column of water.

hydrophore, n. 2. A flattened, or saucershaped, pedunculate appendage, in campanularian hydroids, representing a reduced hydro-

theca.

hydrophoria (hī-drō-fō'ri-ä), n. [Gr. ὐδροφορία (fem. sing.), water-carrying, also, like the usual υδροφόρια (neut. pl.), a festival so called. ἐδροφόρος, carrying water: see hydrophore. In Gr. antiq., a water-carrying; a group of women carrying water from a fountain: a subject often represented on the Greek hydria,

nydrophthalic (hi-drof-thal'ik), a. [hydro-(gen) + phthalic.] Noting an acid, a sub-stance formed by the addition of hydrogen to hydrophthalic (hi-drof-thal'ik), a. stance formed by the addition of hydrogen to phthalic acid. Seventeen such compounds are known. They differ (1) by the number of atoms, 2, 4, or 6, of hydrogen added to the phthalic acid; (2) by the different positions of the double unions in the molecule; (3) by the spatial arrangement of the groups, which leads, in some cases, to the exhibition of optical activity. The compounds have proved to be of extreme importance in the study of the constitution of henzene.

hydrophyte, n. 2. In phytogeog., a plant adapted to live under conditions of abundant moisture, or, in late usage, abundant physiological moisture. Compare *mesophyte and

*xerophyte.

phyte: as, a hydrophytic plant; composed of hydrophytes: as, a hydrophytic formation.—2. Presenting conditions favorable to hydro-

hydroparacoumaric (hī'drō-par-a-kō-mar'ik), hydrophytic locality.

hydrogen) + paracoumaric.] Noting an acid, a colorless compound, HoC₆H₄CH₅CH₅ of the polyp-stocks of the Hydrozoa.

[hydro- $\begin{array}{c} (gen) + picoline.] \quad \text{A colorless liquid,} \\ \quad \text{CH}_2 \langle \text{CH}_1(\text{CH}_3)\text{CH}_2 \rangle \text{NH,} \\ \quad \text{CH}_2 \langle \text{CH}_2, \text{CH}_2 \rangle \end{array}$

prepared by the reduction of the corresponding methylpyridine. It boils at $125-126^{\circ}$ C. Also called β -pipecoline, or 3-methylpiperidine. Also cannot ρ-proceedine, or 5-methylpperialne.
hydropiperic (hi/drō-pi-per'ik), a. [hydropiper-ine + -ie.] Pertaining to hydropiperine.

- Hydropiperic acid, a colorless compound, C₁₁II₁₂O₄,
prepared by the reduction of piperic acid. It crystallizes
in long, thin needles and melts at 75-76° C.
hydroplane (hi/drō-plān), n. [Gr. iδωρ (iδρ-),
water, + E. plane!, n.] A name given by its
inventor, to the horizontal side submerging

inventor to the horizontal side-submerging rudder of the Lake type of submarine boat. There are two of these horizontal rudders ou each side of the boat manipulated in unison; when they are inclined forward and downward they cause the boat to be submerged hodily instead of having a diving motion.

hydroplastics (hī-drō-plas'tiks), n. Same as *hydroplasty.

rydroplasty (hī-drō-plas'ti), n. [Gr. $t\delta\omega\rho$ ($t\delta\rho$ -), water, $+\pi\lambda a\sigma\tau\delta\varsigma$, formed, $+-y^3$.] The electric deposition of metal upon molds or formed hydrogenestic or t-properties hydroplasty (hī-drō-plas'ti), n.

forms; hydroplastics; galvanoplasty.
hydroplutonic (hi'drō-plō-ton'ik), a. [Gr. iδωρ (iδρ-), water, + E. Plutonic.] In geol., noting deep-seated igneous processes which involve water as well as heat.

Hydropneumatic brake. See ★brake3.

hydropolyp, n. 2. A hydrula. hydropore (hī'drō-pōr), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, $+\pi\delta\rho_0c$, pore.] In larval echinoderms, a pore opening from the left hydrocele to the

hydropot (hī'drō-pot), n. [Gr. \dot{v} δροπότης, a water-drinker, \dot{v} δωρ (\dot{v} δρ-), water, +πότης, drinker.] A water-drinker; a teetotaler.

hydropotassic (hī/drō-pō-tas'ik), a. [hydro-(gen) + potass-ium + -ic.] In chem., containing both hydrogen and potassium as constitu-

ents: as, hydropotassic sulphate (KHSO₄).
hydropsical (hi-drop'si-kal), a. [hydrops(y) +
-ical.] Same as dropsical. Buck, Med. Handbook, V. 332.

hydropsychosis (hī-drop-si-kō'sis), n.; pl. hydropsychoses (sēz). [NL., ⟨Gr. ὐδωρ (ὐδρ-), water, + NL. psychosis.] In psychol., a specific mental process aroused by and referring to water; especially, in genetic psychol., a manifestation of interest in and fondness for water, supposed to be atavistic.

supposed to be atavistic.
Youth works a sea change and the hydropsychoses strike inward... I can not read these youthful ebullitions without inclining to believe in residual traces that hark back through ages, and that the soul is still marked like our body by vestiges of pelagic life.

G. S. Hall, Adolescence, II. 196.

hydropyridic (hī''drō-pi-rid'ik), a. Of or pertaining to the hydropyridines.

taining to the hydropyridines.

hydropyridine (hī-drō-pir'i-din), n. [hydro-(gen) + pyridine.] A class name applied, in organic chemistry, to compounds derived from pyridine by the addition of two, four, or six hydrosorbic (hī-drō-sôr'bik), a. [hydro(gen) + sorbic.] Derived from hydrogen and sorbic pyridine by the addition of two, four, or six atoms of hydrogen, respectively, giving derivatives of dihydropyridine, C_5H_7N , tetrahydropyridine, $C_5H_{11}N$. Many of the compounds are closely related to alkaloids and to ptomaines.

hydroquinine (hi-drō-kwin'in), n. [hydro(gen) + quinine.] 1. A bitter, alkaline, levorotatory alkaloid. Carlacon. 2HaO. found in cinchona

alkaloid, C₂₀H₂₆O₂N₂.2H₂O, found in einchona bark, together with quinine, which it closely resembles in medicinal and general chemical resonotes in medicinal and general chemical properties. It crystallizes in needles, and, when dehydrated, melts at 172.3° C.—2. A greenish resin, $C_{20}H_{26}O_{3}N_{2}H_{20}O$, formed by the reduction of quinine in acid solution. It softens at 35° C. and melts at 100° C. hydrorhabd (hi'drō-rabd), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, $+ \dot{\rho}\dot{a}\beta\delta\rho_{C}$, rod.] The rhabdosome of the grapholites

hydrorudite (hi-drō-rō'dit), n. [Spelled with intended distinction hydrorudyte, \langle Gr. $i\partial\omega\rho$ ($i\partial\rho$ -), water, + rudus, rubble, + -ite².] A fragmental rock of coarse grain, formed by the action of water, a coarse-ratio hydrorudite (hī-drō-rō'dīt), n. action of water; a conglomerate. Amer. Geol., April, 1904, p. 247.

exaggerated or pathological fondness for water; hydrophytic (hī-drō-fit'ik), a. [hydrophytie + hydrosalt (hī'drō-sâlt), n. [hydro(gen) + an extreme tendency to hydropsychoses. G. -ic.] 1. Having the character of a hydro-salt!.] Same as acid salt (which see, under salt1)

Hydrosauria (hī-drō-så/ri-ä), n. pl. [NL., \langle Gr. $\hat{v}\delta\omega\rho$ ($\hat{v}\delta\rho$ -), water, $+\sigma a\bar{v}\rho o c$, a lizard.] Same as Crocodilia (which see).

hydroscheocele (hi-dros'k \bar{e} - \bar{o} -s \bar{e} l), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + E. oseheocele.] Scrotal hernia containing fluid.

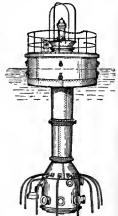
hydroscope, n. 3. An apparatus for observing objects in the sea or on the sea-bottom. It con-

sists of a steel tube carrying twelve lenses acting as an objective and a series of mir-orrs arranged within the tube to reflect light to a sort of camera-obscura house above. The platform of the float can carry four people. The apparatus was invented by Giuseppe Pino. Elect. World and Engin., Jan. 24, 1903. p. 161. 1903, p. 161.

hydroscopic (hī-drō-skop'ik), a. 1. Same as hygroscopic, 2.—2. Of or pertaining to the hydroscope.

hydroscopical (hî-drō-skop'i-kal), a. Same as *hydroscopic.

hydroscopist (hī 'drō-skō-pist), n. [As hy-droscope + -ist.] One who searches for water with the assistance of a divining-rod.



hydrosilicarenite (hī drō-sil-i-kar'ē-nīt), n.

hydrosilicarenite (hī"drō-sil-i-kar'ē-nīt), n. [Spelled with intended distinction -yte; < Gr. νδωρ (νδρ-), water, + NL. silica + L. arena, harena, sand, + -ite².] A medium-grained silicious hydroclastic rock; a sandstone. Amer. Geol., April, 1904, p. 247.
hydrosilicate (hī-drō-sil'i-kāt), n. [Gr. νδωρ, (νδρ-), water, + E. silicate.] A silicate which contains water, particularly one which gives off water readily upon heating. It is impossible to draw the line between true hydrous silicates and those basic (or acid) species containing hydroxyl (or hydrogen) and which give off water on intense ignition.
hydrosilicilutite (hī"drō-sil"i-si-lö'tīt), n. [Spelled with intended distinction -yte; < Gr. νδωρ (νδρ-), water, + L. silex, fiint, + lutum,

aydrosincilutite (nr dro-sir 1-si-10 tit), n. [Spelled with intended distinction -yte; $\langle Gr. i\delta \omega \rho \ (i\delta \rho)$, water, + L. silex, flint, + lutum, mud, + -ite².] A fine-grained silicious hydroelastic rock; a fine silicious mud; a fine silicious shale. Amer. Geol., April, 1904, p. $\frac{1}{2}$

hydrosilicirudite (hi"drō-sil"i-si-rö'dit), n. [Spelled with intended distinction -yte; ζ Gr. νόδορ (νόρ-), water, + L. silex, flint, + rudus, rubble, + -ite².] A coarse silicious hydroclastic rock; a silicious conglomerate. Amer. Geol.. April, 1904, p. 247.

hydrosodic (hi-drō-sō'dik), a. [hydro(gen) + sod-num + -ic.] In chem., containing both hydrogen and sodium as constituents: as, hydrosodic sulphate (sodium-acid sulphate, hydrosodic (hī-drō-sō'dik), a. NaHSO₄).

hydrosol (hí'drō-sol), n. [hydr(ate) + sol-(uble).] In chem., a term proposed by Graham to signify the soluble hydrate of a colloid substance. It has been used to include metals, as gold or silver, in a state of extreme subdivision and permanently suspended or apparently dissolved in water.

acid.—Hydrosorbic acid, a colorless liquid, CH₃CH₂CH:CH:CHCH₂COOH, formed by the reduction of sorbic acid. 1t boils at 208° C. Also called β-γ-hexenic acid.

acta. It holds at 208°C. Also called β-γ-nezente acta. hydrosphygmograph (hī-drō-sfig' mō-grāf), n. [Gr. τόωρ (τόρ-), water, + Ε. sphygmograph.] A device consisting of a cylinder containing water and connected with a registering tube, used to record the amount of blood forced with each pulsation into a limb incased in the apparatus.

With the sphygmograph (or, rather, the hydrosphygmograph) he observed the degree of excitement produced on various individuals by the sight of wine, cigars, food, money, and photographs of nude women.

H. H. Ellis, The Criminal, p. 122.

hydrospiric (hi-drō-spi'rik), a. Of or pertaining to the hydrospires of the Blastoidea. Amer. Geol., Jan., 1904, p. 46.

hydrostatic, a. 2. In phytogeog., taking place under conditions of substantially uniform wetness: said of a succession of vegetations.

F. E. Clements .- Hydrostatic head. See *head. hydrostatist (hī'drō-stā-tist), n. [hydrostat-(ic) + -ist.] Same as hydrostatician. water, $+ \sigma r \delta \mu a$, mouth.] dreid polyp, or hydranth.

hydrosulphid, n. 2. A compound in which one of the atoms of hydrogen in hydrosulphuric acid (sulphureted hydrogen) is replaced by a more strongly electropositive element or radical: as, sodium hydrosulphid (NaHS). Jour. Soc. Chem., IX. 804.

hydrosulphite, hydrosulfite (hī-drō-sul'fīt), n. [hydrosulph(urous) + -ite².] In chem., a salt of hydrosulphurous acid, new called hyposul-

phurous acid (H₂S₂O₄). hydrosulphocyanic (hī-drō-sul"fō-sī-an'ik), a. hydrosulphocyanic (ni-dro-sul-ro-si-an ik), d. [hydro(gen) + sulphoeyanic.] In chem., same as sulphocyanic, more properly thiocyanic: as, hydrosulphocyanic acid (new thiocyanic acid). hydrosulphuric (hī"drō-sul-fū'rik), a. [hydro-(gen) + sulphur + -ie.] In chem., containing hydrogen and sulphur as constituents: as, hydrosulphyric acid. drosulphuric acid

hydrosyringomyelia (hi/drō-si-ring/gō-mī-ē'-li-ā), n. [NL, \langle Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + $\deltai\rho\iota\gamma\xi$ ($\sigma\nu\rho\iota\gamma\gamma$ -), a pipe, + $\mu\nu\epsilon\lambda\delta\varsigma$, marrow.] The formation of cavities in the spinal cord, together with accumulation of fluid in the ceu-

tral canal.

hydrotachymeter (hī "drō-tā-kim'e-ter), n. [hydr(aulic) + tachymeter.] A governor or regulator for indicating and controlling the speed of a hydraulic turbine. Nature, March 5, 1903, p. 431.

hydrotactic (hī-drō-tak'tik), a. [hydrotaxis (-tact-) + -ic.] Of or pertaining to the movement of cells or of organisms in relation to [hydrotaxis

meisture; exhibiting hydrotaxis.

hydrotasimeter (hī/drē-tā-sim'e-ter), n. [Gr. ύδωρ (ύδρ-), water, + E. tasimeter.] An electric device for indicating the level of water in a tank or reservoir.

hydrotaxis (hī-drō-tak'sis), n. [NL., < Gr. νόωρ (νόρ-), water, + τάξις, disposition.] The movement of a cell or of an organism in relation to moisture.

hydrotechnic (hi-drē-tek'nik), a. Of or per-taining to hydrotechny; rolating to hydraulic

engineering. hydrotechnical (hī-drō-tek'ni-kal), a. Same as *hydrotechnic

hydrotechnics (hi-drē-tek'niks), n. Same as hudrotechny.

hydrotechnologist (hī"drē-tek-nol'ē-jist), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + E. technolog- η + -ist.] One versed in the art of storing and distributing water, or in the general problems relating to water-aupply.

As to the physics of running water, hydrotechnologists have recognized the dependence of velocity on the decilvity of the water surface and depth.

Geog. Jour. (R. G. S.), X. 619.

hydrotechnology (hł drō-tek-nol'ō-ji), n. [Gr. \dot{v} dop (\dot{v} dop-), water. + E. technology.] The seientific study of hydrotechny. hydrotechny (hł drō-tek-ni), n. [Gr. \dot{v} dop-), water, + r $\dot{\epsilon}$ χv η , art.] That branch of hydraulic engineering which deals with the storage and distribution of water; the technics of water-aupply.

In Arizona, Mexico, and Peru reservoirs and aqueducts prove that hydrotechny was understood.

Encyc. Brit., XXV. 374.

hydrotherapic (hī'dro-the-rap'ik), a. [hydrotherap-y + -ic.] Same as hydrotherapeutic. Hydrothermal fusion. See *fusion.

hydrothermal fusion. See *fusion.
hydrothionæmia (hī "drē-thī-ē-nē 'mi-ä), n.
[Gr. τόδωρ (τόρ-), water, + θείων, aulphūr, +
atμa, blood.] The presence in the blood of
hydrogen sulphid, as in certain forms of autointoxication. Buck, Med. Handbook, I. 642.
hydrothionic (hī "drē-thī-on'ik), a. [Gr. τόδωρ
(τόρ-), water, + θείων, aulphūr, + -ic.] Noting
an acid discovered by Schützenberger and first
catled by him hydrocylphurous and

called by him hydrosulphurous acid, now generally called hyposulphurous acid, this latter name having formerly been used for a different substance now known as thiosulphuric acid, H₂S₂O₃. The formula for Schützenberger's acid is probably H₂S₂O₄. It is an energetic reducing agent.

reducing agent.

hydrothionuria (hi*drō-thi-ō-uū'ri-ā), n. [NL., Gr. νόωρ (νόρ-), water, + θείον, sulphur, + υὐρον, uriue.] The elimination of hydrogen sulphid in the urine.

hydrotic, a. 2. Noting an acid, a syrupy compound, $C_5H_9O_7N$, found in perspiration. hydrotimetric (hi*drō-ti-met'rik), a. Relating to hydrotimetry.

hydrostome (hī'drē-atēm), n. [Gr. $\hat{v}\delta\omega\rho$ ($\hat{v}\delta\rho$ -), hydrotimetry (hī-drē-tim'e-tri), n. [Gr. $\hat{v}\delta\rho$ - hydroxylated (hī-drok'si-lā-ted), p. a. water, + $\sigma r\delta\mu a$, mouth.] The mouth of a hy- $\tau\eta\varsigma$, meisture, + - $\mu\epsilon\tau\rho'a$, $\langle \mu\epsilon\tau\rho\sigma\nu$, measure.] In taining the hydroxyl group er radical. rης, meisture, + -μετρία, ζμέτρον, measure.] In taining the hydroxyl group or radical. chem., the determination of the degree of hardness of a natural water. See hydrotimeter. aydrotropic, a. 2. In phytogeog., governed by conditions which change from dry to wet. hydroxylcarlamide (hi-drok-sil-kär'ba-mid), with the radical hydroxyl, HO.

609

ness of a natural water. See hydrotimeter.

hydrotropic, a. 2. In phytogeog., governed by conditions which change from dry to wet: said of a succession of vegetations. F. E. Clements.—3. In psychol., interested in water; to dip to hydrogeness. tending to hydropsychoses.

In the normal soul there is now an outcrop of the same psychic strata which once created and gave life and sacredness to lustrations, baptisms, oracles, water deities, philosophemes like those of Thales, who made water the source of all things, or of Heraclitus, who saw in vapor, water, and ice the key to the universe which was constantly fluxing up or down the long way of rarefication and condensation between ether and rock. So, too, the stream is in a hundred ways the type of life. The soul is hydrotropic, and this is the sacred hour of opportunity for bringing these dim and dumb molimena of the soul to their issue, for wedding the individual promptings to the best that literature, art, history, of the races have to offer in a way that makes teaching at its best such a high and sacred calling.

G. S. Hall, Adolescence, II. 197.

See *hydroxy-. hvdrox-.

hydroxanthic (hi-drek-san'thik), a. [hydro-(gen) + xanthie.] Same as xanthic.

hydroxid, n.—Sodium hydroxid, caustic soda (NaHO), extensively manufactured, especially for soap-boilers' use: often but improperly called sodium hydrate.—Strontium hydroxid, a material used in the strontic process for treating beet-root molasses; chiefly prepared by strongly heating the mineral strontianite in a gas-fired kin with a basic lining, and afterward slaking the strontia thus obtained by addition of water, dissolving, and crystallizing. hydroxidated (hi-drok'si-dā-ted), a. [hydroxid]

 $-ate^{1} + -cd^{2}$.] In ehem., converted into a

hydroxid.

hydroxy-(hī-drok'si-). [hydr(ogen)+oxy(gen).] An initial member in many compound terms in chemistry, often written as if a separate word, hydroxy, indicating that the substance werd, hydroxy, indicating that the substance designated contains the hydroxyl radical or group, HO. The term oxy- is often used, less correctly, with the same meaning.—Hydroxy acid, an organic acid which contains, in addition to carboxyl, one or more hydroxyl groups. These give alcoholic properties to the compound in addition to its character as an acid. Such compounds are often, less correctly, called oxyacids.—Hydroxy compound, in chem., a compound of which the radical hydroxyl is a constituent.—Hydroxy group. Same as hydroxyl.

hydroxyacetone (hi-drok-si-as'e-tōn), n. Same as *acetol.

as *acctol.

hydroxyacid (hi-drek'si-as"id), n. See *oxy-

hydroxyammonia (hî-drok"si-a-mē'ni-ä), n. Same as *hydroxylamine.

hydroxyaromatic (hī-drok"si-ar-ō-mat'ik), a. Noting any organic compound, of the aromatic quated term at no time in general use. series, which contains one or more hydroxyl hydurilate (hī-dū'rī-lāt), n. [hyduril-ic + -atc¹.] groups. Nature, Feb. 5, 1903, p. 332.

hydroxyazo-. A prefix in chemistry.

hydroxybenzene (hī-drok-si-ben'zēn), n.

phenel.

hydroxycarbamide (hī-drok-si-kār'ba-mid), n. ee *hydroxylcarbamide.

hydroxycomenic (hī-drek*si-kō-men'ik), a. [hydr(ogen) + oxy(gen) + comenic.] Noting a colorless compound, C₆H₄O₆, formed by the oxidation of meconic acid by hydrogen peroxid. It crystallizes in small modular prisms, or long, fine needles, melting at 275° C. hydroxydimethylpyrone (hī-drok*si-dī-meth-il-pī'rōn), n. [hydr(ogen) + oxy(gen) + di-2 + methyl + pyrone.] A colorless compound, CO < COH: C(CH₃) > O, formed by the oxidation of dimethylpyrone in hydrogen peroxid. It crystallizes in needles, melts at 162.5° C., hydroxydimethylpyrone in hydrogen peroxid. It crystallizes in needles, melts at 162.5° C., hydroxydimethylpyrone in hydrogen peroxid. It crystallizes in needles, melts at 162.5° C., hydroxydimethylpyrone in hydrogen peroxid. It crystallizes in needles, melts at 162.5° C., hydroxydimethylpyrone in hydrogen peroxid. It crystallizes in needles, melts at 162.5° C., hydroxydimethylpyrone in hydrogen peroxid. Hydroxydimethylpyrone in hydrogen peroxid. It is obtained in small tetragonal columnar crystals with 2H₂O₂O, or pulverulent with 1H₂O, and is a strong dibasic acid.

hyenasic (hī-ē-nā'sik), a. [hyen-ic + -ase + -ic.] Same as *hyenic, 2.

hyenic, a. 2. In chem., derived from the hyena. —Hyenic acid, a colorless compound, C₂₄H₄₉COOII, found in combination with glycerol in the anal granular pouches of the striped hyena (Hyena striata) and in the trystallizes in nodules and melts at 77-78° C.

Hyenasic (hī-ē-nā'sik), a. [hyen-ic + -ase + -ic.] Same as *hyenic, 2.

hyenic, a. 2. In chem., derived from the hyena. —Hyenic acid.

hyenasic (hī-ē-nā'sik), a. [hyen-ic + -ase + -ic.] Same as *hyenic, 2.

hyenic, a. 2. In chem., derived from the hyena. —Hyenic acid.

hyenasic (hī-ē-nā'sik), a. [hyen-ic + -ase + -ic.] Same as *hyenic, 2.

hyenic, a. 2. In chem., derived from the hyena. —Hyenic acid. A colorless compound, c. 2. In chem., derived from the hyena. —Hyenic acid. A colorless compound, c. 2. In chem., derived from the hyena. —Hyenic acid. A colorless compound, c. 2. In chem., derived from hydroxycomenic (hī-drok/si-kō-men'ik),

It crystallizes in needles, melts at 162.5° C., and may be sublimed.

hydroxyketone (hi-drek-ai-kē'tōn), n. *oxyketone.

hydroxylamine (hi-drok-ail-am'in), n. droxyl + amine.] A colorless basic compound, NH₂OH, prepared by the reduction of various NH₂OH, prepared by the reduction of various oxygen derivatives of nitrogen. It crystallizes in scales, or hard needles, melts at 33° C., bolls at 55° C. under 22 millimeters pressure, and easily explodes when heated. In its general properties and in those of its salts it closely resembles ammonia, with the exception that it readily reduces certain metallic salts such as those of silver or mercury. It is much used in organic chemistry for the isolation of ketones or aldehydes. Occasionally called hydroxyommonia.—Hydroxylamine nitrate, a colorless crystalline compound, HoNl₂NO₃, the salt of nitrie acid and hydroxylamine. It is readily soluble in absolute alcohol and decomposes into water and nitric oxid when heated. oxid when heated.

hydroxylate (hī-drok'si-lāt), r. t.; pret. and hydroxylate (hī-drok'si-lāt), r. t.; pret. and pp. hydroxylated, ppr. hydroxylating. [hydroxyl-t-ate¹.] In chem., to cause to combine with the radical hydroxyl. Rep. Brit. hygrology, n. 2. The study of the origin and properties of aqueous vapor, including its

colorless compound, $H_2NCONHOH$ prepared by the action of hydroxylamine nitrate on potassinm eyanate. Iterystallizes inneedles and melts at 130° C. Also called hydroxycarbamide, hydroxyurea, and, formerly, hydroxylurea.

hydroxylic (hī-drok-sil'ik), a. [hydroxyl +

-ie.] Pertaining to or containing the hydroxyl group. Encyc. Brit., XXVIII. 364.—Hydroxylic hydrogen. See *hydrogen.

nydrogen. See *hydrogen. hydroxylinolein (hī-drok"si-li-nō'lē-in), n. [hydr(ogen) + oxy(gen) + I. linnm, flax, + oleum, oil, + -in².] In chem., a neutral substance believed to be formed during the dry-ing of linead oil be the hold. ing of linseed-oil by the absorption of oxygen from the air: essentially the same as *linoxyu (which see).

hydroxylurea (hī-drok-si-lū'rē-ä), n. Same as

hydroxylurea (ni-urox-si-u xy zz), ...
*hydroxylearbanide.
hydroxypyrone (hi-drok-si-pi'rōn), n. [hydr(o-gen) + oxy(gen) + Gr. π̄ρ, fire, + -one.] A
colorless compound, CO < COH:CH > O, pre-

pared by the distillation of meconic acid. It crystallizes in large prisms, melts at 117° C., beils at 227-228° C., and sublimes at the

ordinary temperature.

hydroxysulphid (hi-drek-si-sul'fid), n. In ehem., a compound containing both hydroxyl and sulphur, as calcium hydroxid and hydroxyl sulphid eccurring combined (or merely mixed) in the tank waste of alkali works. G. Lunge, Sulphuric Acid, II. 817. hydroxyurea (hī-drek-si-ŭ'rē-ä), n. Same as *hydroxylurea and *hydroxylearbamide.

hydrozone (hī'drō-zōn), n. [hydr(ogen) + ozone.] A trade-name for hydrogen dioxid. hydrula (hī'drū-lā or hid'rū-lā), n.; pl. hydrulæ (-lē). [NL., dim. ef hydra, hydra.] In the development of hydroid polyps, the stage succeeding the planula, the simple polyp having a disk of attachment at its proximal end, and at the distal end a manubrium and a circlet of tentacles. By the budding of the hydrula a branched colony is produced.

hydruresis (hī-drō-rē'sis), n. [Gr. v̄hop (t̄dρ-), water, + ōtρησις, urination.] Same as hydruria.

hydrureted, hydruretted (hi'drö-ret-ed), a. In ehem., combined with hydrogen an antiquated term at no time in general use.

salt of hydurilic acid.

See hydurilic (hi-dū-ril'ik), a. [hyd(rogen) + ur(ic) + -il + -ic.] Neting an acid, a celerless compound, CO \langle \frac{NHCO}{NHCO} \rangle CI:CH \langle \frac{CONH}{CONH} \rangle CO(\frac{?}{?}),

formed by the oxidation of uric acid and by the prolonged boiling of alloxan and allexantin with dilute sulphuric acid. It is obtained in

hyfen, n. and v. t. A simplified spelling of

hygiastic (hī-'ji-as'tik), a. [Gr. ὑγιαστικός, serving to heal, ⟨ὑγιάζειν, heal, ⟨ὑγιάς, healthy: see hygiene.] Same as hygienic.
hygiastics (hī-ji-as'tiks), n. Same as hygiene.
hygric (hī'grik), a. [Gr. ὑγρός, moist, + -ic.]
Relating to moisture or humidity.

Hallneinations of entaneous and thermal sensibility, of pain, of the museular sense, hallneinatory sensations of moisture on the skin (hygric hallneinations).

Lancet, April 18, 1903, p. 1115.

hygrinic (hī-grin'ik), a. [hygrine + -ic.] Derived from hygrine.—Hygrinic acid, a colorless compound, Cli₃NC₃H₇COOH, prepared by the oxidation of the base C₃H₁₅ON (from hygrine). With 1H₂O it crystallizes in needles, softens at 85° C., and melts at 130° C.; when dehydrated the melting-point is 164° C.

S. - 39

hygrology evaporation, condensation, pressure, relative al.] In astrol., belonging to the hyleg. Zadlumidity, density, weight, and all the relations of vapor or moisture to the atmosphere. hylic (hī'lik), a. [Gr. ἐλικός, 〈 ἐλη, matter.]

Hymenogasteres (hī'men-ō-gas'te-rēz), n. pl.
Same as *Hymenogastrales.

Hymenogastrales (hī'men-ō-gas-trā'lēz), n.
hygroma, n.—Fleischman's hygroma, an enlargePertaining to matter; material: among the

hygroma, n.—Fleischman's hygroma, an enlargement of a bursa lying to the outer side of the genioglossus muscle in the floor of the mouth.

hygroma, n.—Fleischman's hygroma, an enlargement of a bursa lying to the outer side of the genioglossus muscle in the floor of the mouth.

hygrometer, n.—Dufour's hygrometer, a porous diaphragm through which the vapor diffuses at a rate which varies with the difference of the elastic vapor pressures on either side of the diaphragm. The air within the diaphragm is kept saturated. Schidlofski modified this by using a metallic vessel containing water and having a porous cap over the opening, and a similar vessel containing air that is dried by a chemical absorbent. The differential rate of diffusion is the basis of the calculation of relative humidity.—Edelmann's hygrometer, a bygrometer which determines the tension or volume of the vapor present in a gaseous form, without taking account of any particles of fog that may be present in the atmosphere.—Hair-hygrometer, an instrument for the measurement of humidity in which the influence of moisture upon the length of a hair is used. A human hair, freed from fat by treatment with slkali, is suspended vertically. The lower end passes around a pulley, to which a pointer is attached, and is held taut by means of a weight. In moist air the hair absorbs water and increases in length. Changes of length, indicative of variations in the humidity of the surrounding atmosphere, cause a rotary movement of the pointer along a circular scale.—Mason's hygrometer, the wet-and-dry bulbor psychrometer as arranged by Mason, now replaced by the whirled, sling, or ventilated psychrometer.—Renoux-Matern hygrometer, a hygrometer which determines the deficit of tension or the quantity of water-vapor needed in order to saturate a given space, whence follows the quantity that was already present.—Trouton's electrical dew-point thygrometer, an apparatus in which the deposit of the slightest film of moisture on a polished metallic surface is announced by the completion of the electric circuit through the dew.—Trouton's gravimetric recording hygrometer, an apparatus in which the weight of a hygr

Hygrometric water. See *water.

hygrometrically (hi-grō-met'ri-kal-i), adv. In a manner pertaining or relating to the moisture of the air; by means of hygrometry or of the hygrometer.

hygrometricity (hi"grō-me-tris'i-ti), n. [hy-grometrie + -ity.] The property of being bygrometrie or of beeoming moist by the absorp-

hygrophilous (h-gref'-lus), a. [Gr. $i\gamma\rho\delta_{\varsigma}$, moist, + $\rho\lambda_{\varsigma}$, loving, + -ous.] Moisture-loving; in phytogeog., having the character of a hygrophyte. First used by Thurmann (1849), who regarded hygrophilous plants as correlated with eugeogenous soils. Also hygrophil. See quotation under *xea hygrophyte.

hygrophily (hi-grof'i-li), n. [hygrophil + -y3.] bloom. See paneratium, 2.

Adaptation for life in damp places. Encyc. hymnocarid (hi"men-\(\tilde{\gamma}\)-kar'id), n. One of the Hymenocaridæ.

hygrophthalmic (hī-grof-thal'mik), a. [Gr. ὑγρός, meist, + ὀφθαλμός, eye.] Relating to moisture in the eyes; lacrymal.

hygrophyte (hī'grō-fit), n. [Gr. ὑγρός, wet, + ψυτόν, plant.] In phytogeog., same as *hydro-phyte: apparently first used by Wiesner (1889), in the form hygrophyta, by him opposed to hydrophyta.

Typical hygrophytes have weakly developed roots, elongated axes, and large thin lcaf-blades.

A. F. W. Schimper (trans.), Plant-Geog., p. 17.

hygroplasm (hī'grē-plazm), n. Samo as hygro-

hygroscopically (hī-grē-skop'i-kal-i), adv. In

the manner of a hygroscopie substance.

hygroscopy (hī-gros'kō-pi), n. [hygroscope-y³.] 1. The art of using the hygroscope-[huaroscope + 2. The art of making hygroscopes.—3. actual observation of the general condition of the atmosphere as to moistness or dryness.-4. The art of making the presence of aqueous vapor apparent by some one of its visible effects, such as cloud, haze, change of color, ehange of form or shape, expansion, etc.

hygrothermal (hī-grō ther mal), a. [Gr. $\dot{v}\gamma\rho\delta\varsigma$, moist, + $\theta\dot{\epsilon}\rho\mu\eta$, heat, + -all.] Relating to a special combination of hygrometric and thermal conditions: as, a hygrothermal area, one whose condition is included within given limits as to temperature and humidity.

Hylæobatrachus (hi"lē-ō-bat'ra-kus), n. [Gr. υλαίος, pertaining to the forest, + βάτραχος, a hymenodictyonine (hī men-ō-dik'ti-o-nin), n. A genus of anurous Amphibia reprefrog. l senting the earliest known urodeles. It occurs in the Lower Cretaeeons of Belgium.

hylegiacal (hī-lē-ji'a-kal), a. [hyleg + -i-ac-

610

Gnosties opposed to psychic and pneumatic. hylogenesis, n. 2. The manufacture or production of substances by a cell: for example, are to be secreted or removed from the eell,

The process of the manufacture of substances by a cell I have . . . proposed to call "hylogenesis," literally meaning the formation of substance.

A. Mathews, Biol. Lectures, 1899, p. 165.

hylonism (hī'lō-uizm), n. [Gr. iλη, matter, +

hylopathian (hī-lō-path'i-an), a.

hylotropic (hī-lot'rē-pik), a. [Gr. ελη, matter, + τρόπος, turn, + -ic.] Capable of change from one phase into another, without variance. tion of the properties of the residue and of the new phase; not separable into two or into fraetions having different composition. The term hydotropic body is the same as chemical individual or substance, but is broader than this.

Bodies of the first description we will call solutions, and of the second, hylotropic bodies. You will be inclined to call the latter substances or chemical individuals, and indeed both concepts are most nearly related. However, the concept of a hylotropic body is somewhat broader than that of a substance.

Nature, May 5, 1904, p. 16.

hylotropy (hī-lot'rō-pi), n. [hylotrop-i-y3.] The condition of being hylotropic. [hylotrop-ic +

Thus the chemical element is defined as a substance which retains its hybotropy under all conditions; and the difference between elements and compounds lies, not so much in the ultimate nature of the two classes of substances, as in the extent to which they possess a certain quality—hybotropy.

tion of water from the atmosphere.

hygrophant (hī'grō-fant), n. [Gr. ὑγρός, wet,

+ -φῶντης, 〈φαίνειν, show.] A special form of
hygrometer graduated to indicate humidity
and temperature directly.

| Hymenocallis (hī'men-ō-kal'is), n. [NL.
(Salisbury, 1812), 〈Gr. ὑνήν, membrane, +
κάιλος, beauty. A membrane connects the stamens.] A genus of plants of the family stamens.] A genus of plants of the family Amaryllidaeeæ. It is closely related to the Old World Pancratium, but is distinguished by having 2 instead of many ovules in each cell of the ovary. There are about of them extend into the southern United States. Several species are in cultivation. They are showy plants with umbels of mostly white fragrant flowers, and are favorites with painstaking gardeners who desire bright winter bloom. See pancratium, 2. hymography (hymography)

the *Hymenocaridæ.*

Hymenocaridæ (hi"men-ö-kar'i-dö), n. pl. [Hymenocaris (-rid-) + -idæ.] A primitive family of malacostracous Crustacea belonging to the suborder Hymenocarina. The carapace is pod-shaped and not divided by a median suture, the body segments are 8 or 9, and the caudal spines are in 3 pairs. The species are of Cambrian age.

Hymenocaris (hī-men-ō-kar'is), n. [NL., ⟨Gr. νμήν, a membrane, + καρίς, a shrimp.] The καρίς, a shrimp.] The typical genus of the Hymenocaridæ.

Hymenocephalus (hī"men-ē-sef'a-lus), n. [NL., ζ Gr. ὑμήν, membrane, + κεφαλή, head.]

Hymenocaris vermicanda, Upper Cambrian (Salter). (From Nicholson and Lydek-ker's "Palæontology.")

A genus of grenadier-fishes of the family Mac-A genus of grenadier-usnes of the family solubility of their salts. Solubility of their salts. Solubility of their salts. Hyohippus (hī-ō-hip'us), n. [NL., \langle Gr. \dot{v}_{ζ} , pig, bones of the skull. Numerous species are $+i\pi\pi\sigma_{\zeta}$, horse.] A genus of Miocene Tertiary

Hymenochæte (hī"men-ō-kō'tē), n. [NL. (Léveillé, 1846), ζ Gr. ὑμίν, a membrane, + χαίτη, mane (NL. bristle).] A large genus of hymenomycetous fungi of the family Thelephoraeeæ, having leathery or corky sporophores of various shapes either resupinate or pileate. The hymenium bears simple cystidia intermingled with the basidia. The species are widely distributed and occur commonly on the trunks and branches of fallen trees. The name refers to the downy appearance of the hymenium of some species, caused by the projecting cystidia.

[Hymenodictyon (see def.) + ine^2 .] A crystalline alkaloid, $C_{23}H_{40}N_2$, contained in the East Indian shrub Hymenodictyon excelsum. Also hymenodyctine.

pl. [NL.] An order of subterranean gastero-mycetous fungi including the single family Hymenogastraceæ. Also Hymenogasteres and Humenogastrineæ.

the production by a cell of substances which Hymenogastrineæ (hī/men-ō-gas-trin'ē-ē), n. Same as *Hymenogastrales.

as contrasted with their secretion or removal. **Hymenomycetineæ** (hī"men-ō-mī-sē-tin'ē-ē), The process of the manufacture of substances by a cell n. pl. [NL.] Same as Hymenomycetcs.

Hymenoptera, n. pl.—Stinging Hymenoptera, the hymenopterous insects of the suborder Aculeata. hymenopterological (hī/me-nop/te-rō-loj'i-

hylonism (hī'lō-nizm), n. [Gr. $i\lambda\eta$, matter, + kal), a. Of or pertaining to hymenopterology.

-n + -ism.] Theoretical materialism. Haeckel
Hymenosoma (hī'men-ō-sō'mā), n. [NL.
(trans.), Wonders of Life, p. 82.
(pemarest, 1823), \langle Gr. $i\mu\eta\nu$, membrane, +
hylopathian (hī-lō-path'i-an), a. [hylopathism + -i-an.] Same as hylopathic. Cudworth,
Hymenosomidæ.

[NL., ζ Gr. ὑμήν, membrane, + στόμα(τ-), mouth.] A suborder of holotrichous Ciliata, in which the mouth is usually situated at the bottom of an clongated, gutter-like, peristomial depression and opens into a short esophageal tube which is never supported by a palisade of rods. In many, perhaps all, forms there is a small undulating membrane at the margin of the mouth. The families included are Chilifera, Microthoracina, Paramæcina, Urocentrina, Pleuronemina, Isotrichina, and Opalinina, found mostly in infusions, though the last two are parasitic. Delage.

Hymenula (hī-men'ū-lä), n. [NL. (Fries, 1825), dim. of Gr. υμήν, membrane.] A genus of hyphomycetous fungi of the family Tuberculariaceæ, having the sporopheres conglutinate in a diseiform layer. The conidia are unicellular and oval or elongate. Over 40 species have been described. They occur mostly on decaying herbaceous. stems.

hymnic, a. II. n. A hymn-like composition.

Lamb. N. E. D.

Hynnis (hin'is), n. [NL., Gr. * vvvic, vvic, vvvic, a plowshare.] A genus of eavallas of the family Carangidæ, typified by the compressed body. They are found in warm seas. H. hopkinsi occurs on the

hyocephalous (hī-ō-sef'a-lus), a. [Gr. iς, swine, pig, hog, + κεφαλή, head.] Pig-headed. [Rare.]

We coined . . . the adjective "hyocephalous," which is a euphemism that comes in very conveniently when talking about Englishmen. Bookman, July, 1905, p. 452.

hyocholalic (hī/o-ko-lal'ik), a. [Gr. vc. swine, + $\chi_0\lambda\eta$, bile, + $-al^4$ + -ic (see cholatic).] Noting an acid, $C_{25}H_{40}O_4$, which results, on decomposition, from hyeglycocholic acid. It resembles cholalic acid, and like this is transformed into dyslysin in the intestinal canal.

the intestinal canal.

hyocholic (hī-ō-kol'ik), a. [Gr. ic, swine, +
χολή, bile, +-ic.] Pertaining to hyocholic acid.

—Alpha-hyocholic acid, a bitter compound, C₂₈H₄₀O₄,
obtained from α-hyochycocholic acid by the action of potassium-hydroxid solution. It forms granules which melt
somewhat above 100° C. and otherwise resembles the βacid.—Beta-hyocholic acid, a compound, C₂₄H₄₀O₄.

H₂O(2), formed by prolonged treatment of β-hyoghycocholic acid with sodium-hydroxid solution. It melts at
about 100° C., exhibits absorption bands, and is dextrorotatory.

hyoglycocholate (hī"ō-glī'kō-kol-āt), n. [hyo-glycochol-ic + -atel.] A salt of hyoglycocholic

acid.

hyoglycocholic (hi*ō-glī-kō-kol'ik), a. [Gr. v̄ς, swine, + γλυκίς, sweet, + χολή, bile, + -ic.]

Noting an acid, a solid, dextrerotatory compound, C₂₆N₄₃O₅N, obtained from swine's bile, in which it is present as a sodium salt. It forms resinous drops and exists in two modifications, termed a- and β-byoglycocholic acid, which differ in the solubility of their salts.

ungulates having affinities with the horse, but generally regarded as belonging to the family

Palæatheriidæ.

Hyotd arch, the chain of hyoid bones in the skull of a fish, which lies just anterior to the branchial arches and terminates anteriorly in the tongue.—Hyotd bar, the cartilaginous rod on either side in the hyoid or first postmandibular arch of sharks or of the embryos of higher vertebrates.

hyolithid (hī-ō-lith'id), n. One of the Hyolith-

Hyolithidæ (hī-ō-lith'i-dē), n. pl. [Hyolithus + idæ.] A family of fossils, of doubtful system atic position, which are currently placed with the *Pteropoda*. It includes symmetrical conical or py-ramidal shells, the aperture of which is completely closed by a free operculum. It extends from the Cambrian to the Permisn. hyolithoid (hī-ō-lith'oid), a. [Hyolith(us) + -oid.] Having the characters of the genus Hyolithus.

Hyolithus (hī-ol'i-thus), n. [NL., $\langle Gr. \dot{v}\zeta, pig, +\lambda \iota \theta o \zeta, stone.$] The typical genus of the Hyo-

occur in the Wasateh and Bridger Eocene. Schlosser, 1887.

hyosternal, a. II. n. Same as epihyal. Starks, Synonymy of the Fish Skeleton, p.

hyostyly (hi-os'ti-li), n. [hyo(id) + Gr. $\sigma\tau\bar{\nu}\lambda\rho\varsigma$, pillar, + y³.] That eondition of the eranium in which the palatoquadrate articulates with the eartilaginous eranium and the hyomandibular serves, to a greater or less extent, as a suspensorium for the jaws: found in sharks suspensorian for the jaws: found in sharks and rays.—Hyoatyly proper, a condition in which the second visceral arch is intact, the hyomandibular and hyoid segments together forming a movable support for the jaws: found in most sharks and, typically, in Squatina. Correlated with **euhyostyly.*

hyosuspensorial (hī*ō-sus-pen-sō'ri-al), a. [hyo(id) + suspensorium + -al¹.] Relating to the hyoid and suspensorium. Proc. Zool. Soc.

II. a. Of or belonging to the family Hypenidæ.

London, 1894, p. 636. hyotaurocholic (hī-ō-tâ-rō-kol'ik), a. generalization, or complication, as in hyperspace, decomposition it yields taurin and hyoeho-

hyothyroid (hī -ō -thī'roid), a. [hyo(id) +

thyroid.] Same as thyrologoid.

hypabyssal (hip-a-bis'al), a. [Gr. ὑπό, under, nypabyssal (hip-a-bis'al), a. [Gr. iπό, under, + E. abyssal.] In petrog., a term applied by Brögger (1894) to igneous rocks intermediate in texture between coarse-grained (abyssal) forms and extrusive lava. They occur as facies of the coarse-grained forms in some instances, and in dikes and sheets. They correspond to Rosenbusch's 'dikenocks' (Gnorgesteine). Geikie, Text-book of Geol. (4th ed.), p. 197.

hypactic (hi-pak'tik), a. [Gr. ὑπακτικός, < ὑπάγευν, earry off below, < ὑπό, under, + ἀγευν, lead, earry.] Purgative; eathartie.
 hypacusia (hi-pa-kū'si-ā), n. [NL.] Same
 hypacusia (hi-pa-kū'si-ā), n. [NL.] Same

hypacusia (hi-pa-kū'si-ā), n. [NL.] Same

as hungensis

hypæthros (hī-pē'thros), n. Same as hypæ-thron.

hypalbuminosis (hip-al-bñ-mi-nō'sis), n. the bloodplasma.

hypallactic (hip-a-lak'tik), a. [Gr. ὑπαλλακτικός, exchangeable, $\langle i\pi a\lambda \lambda d\sigma \sigma e i v$, exchange.] Pertaining to or of the nature of hypallage. hyperbolatoid (hī-per'bō-la-toid), n. [hyperbolatoid (hī-per'bō-la-toid), n. [hyperbolatoid (hī-per'bō-la-toid)] The solid 'ent on the fitzedward Hall.

hypallelomorph (hip-a-lel' $\tilde{0}$ -môrf), n. [hyp(a-)

of completeness.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc.,
[1902, I. 148.

hyparcnale (hī-pār-kū-ā'lō), n.; pl. hyparcualia (-lī-ā). [NL., \(\lambda\) Gr. v\(\pi\)6, under, \(+\) L. arcus, arch.] A bony arch, developed on the superior side of the notochord, which forms the neural arch: the equivalent of the \(\psi\)basidorsale of \(\psi\)basidorsal

The whole neurapophysis consists originally of a hyperbulia (hī-per-bū'li-ā), n. [NL., ζ Gr. hyper-bū'li-ā], (my supradorsal).

Philos. Trans. Roy. Soc. (London), 1896, ser. B, p. 13.

Hypaxial actinophores. See *actinophore.

hype, v. i. See *hipe.

Hypena, n. 2. [l.c.] A moth of this genus.

- Hop-vine hypena, Hypena humuli, whose larve live on the leaves of the hop-plant and sometimes do considerable damage.

Hypenantron/hi-pe-nan'tron), n. [NL.(Corda, 1829), a typographical error for "Hypenantion, (Gr. $\dot{\nu}\pi e \nu a \nu r i o_c$, opposite, $\langle \dot{\nu}\pi \dot{\theta}$, under, $\dot{\nu}\pi \dot{\theta}$, under, $\dot{\nu}\pi \dot{\theta}$, opposite, $\dot{\nu}\pi \dot{\theta}$, under, $\dot{\nu}\pi \dot{\theta}$, under, $\dot{\nu}\pi \dot{\theta}$, opposite, $\dot{\nu}\pi \dot{\theta}$, opposite, $\dot{\nu}\pi \dot{\theta}$, opposite, $\dot{\nu}\pi \dot{\theta}$, over, \dot

or false involucre being split at maturityinto3-many-laneeolate lobes. There

brain of the embryo; the eerebellum.

Buck, Med. Handbook, 11. 271.

hypenchyme (hip'eng-kim), n. [Gr. $\dot{v}\pi\dot{o}$, under, + NL. enchyma.] In cmbryol., primitive con-

neetive tissue developing in the eavity of the archenteron, as distinguished from mesen-

Hypenantron tenella. a, plant, two thirds natural size; b, cross-section of fruiting head, enlarged; c, capsule dehiscing; d,

elater; c, spore. c, d, and c, mag ni-fied. (From Gray's "Manual of Botany.")

hyper-. (d) In mod. math., chiefly denoting extension, generalization, or complication, as in hyperspace, hyper-

Excessively active absorption. Philos. Trans. Roy. Soc. (London), 1902, ser. B, p. 59. hyperacid (hi-per-as'id), a. Extremely or

strongly acid.

hyperacusia (hī/pēr-a-kū/si-ā), n.

n. The taking of food in excess of the ordinary needs of the body.

mally or excessively anabolic.

[The] ash and smoke . . . of the combustion of the products of a hyperanabolic activity.

G. S. Hall, Adolescence, I. 486.

hyperbola, n. - Imaginary semi-axis of a hyperbola, the conjugate semi-axis, b.

between two parallel planes by a straight line

between two parallel planes by a straight line which intersects them and so moves as to return to its initial position.

Hyperbolic area, the lateral areas of the proostracum of the shell of Betemnites, situated on either side

hyperbolo-parabolical (hī-per/bō-lō-par-a bol'i-kal), a. Like the hyperbola or parabola, hypererethism (hi-per-er'e-thizm), n. Excessive irritability.

hypercarbureted, hypercarburetted (hi-per-kär'bu-ret-ed), a. Charged with earbon in kär bū-ret-ed), a. Charged with earbon in Encyc. Brit., XXIX. 572. excess, as illuminating-gas containing such a hyperexcitability (hī per-ek-sī-ta-bil'i-ti), n. large proportion of earbon as to burn with a smoky flame.

hypercementosis (hī-pėr-sē-men-tō'sis), n. [Gr. ὑπέρ, over, + Nl. cæmentum, eementum, t. ceio]. An overgrowth of the cementum of An overgrowth of the eementum of + -osis.]

hypergaseous

proportion of hydrochlorie acid in the gastrie juice.

hyperchlorhydric (hī"per-klōr-hī'drik), a. Relating to hyperchlorhydria. Med. Record, Feb. 7, 1903, p. 229.

hyperchloridation (hi"per-klō-ri-dā'shon), n. [hyper- + chlorid + -ation.] The charging in excess with chlorin or one of its compounds, as the administration to a patient of an excessive amount of common salt, sodium chlorid.

Lancet, June 18, 1904, p. 1758. hypercholia (hi-per-kō'li-ä), n. [NL., \langle Gr. $v\pi'\rho$, over, $+\chi o\lambda'\eta$, bile.] An abnormally profuse secretion of bile.

hyperchromatic (hī'pèr-krō-mat'ik), a. [hyper-+chromatic.] 1. Excessively pigmented.—2. Staining with extreme facility.

hyperchromatopsy (hī-per-krô'ma-top-si), n. [Gr. $i\pi\ell\rho$, over, + $\chi\rho\bar{\omega}\mu a(\tau$ -), eolor, + $\delta\psi\iota\varsigma$, view.] An anomaly of vision in which all objeets appear to be colored.

hyperchromatosis (hi*per-krō-ma-tō'sis), n. [hyperchromat-ic + -osis.] The state or condition of containing more than the normal amount of chromatin: said of certain colls. Opposed to *hypochromatosis.

hypercomposite (hi/per-kom-poz'it), a. Exeessively composite; composed of an excessive number of ingredients.

The receipts collected in . . . books for domestic practice are some of them so hyper-composite that even Tusser's garden could hardly supply all the indigenous ingredients.

Southey, Doctor, xxiv., P. I.

hypercycle, n. 2. Same as *cquidistantial. hypercycloid (hī-per-sī'kloid), n. [hypercycle -oid.] In Bolyaian geom., a surface generated by a hypercycle or equidistantial.—Hypercycloid of revolution, the straight equidistant surface or tube of revolution with rectilinear axis.

hyperdactylia (hi*per-dak-til'i-ä), n. [NL., ζ Gr. ἐπέρ, over, + δάκτυλος, finger.] The presence of more than five fingers or toes on a hand or foot.

hyperdicrotism (hī-per-dik'rō-tizm), n. [hyper

+ dicrotism.] A condition of very pronounced dicrotism or rebounding of the pulse.

hyperdissyllable (hi/per-di-sil'a-bl), n. and a.

I. n. A word of more than two syllables.

II. a. Of more than two syllables: as, a hyperdissyllable participle. N. E. D.

hyperdistension (hī/per-dis-ten'shon), n. Extreme distension.

hyperdiuresis (hī/per-dī-ū-rē'sis), n. [NL., \(\lambda \) hyper- + diuresis.] Same as polyuria. hyperdolichocephalic (hī-per-dol'i-kō-se-fal'ik), a. [hyper- + dolichocephalic.] In anthrop.,

luyper- + dolichopellic. In anat., having a pelvie index more than 116, as found in anthro-

poid apes. Amer. Anthropologist, Oct.-Dec., 1901, p. 713.

hyperdynamia (hī pėr-dī-nam'i-ii), n. [NL., Gr. ἐπέρ, over, + δίναμε, power.] Abnormally great nervous or muscular force.

hypereosinophilia (hī'pėr-ē''ō-sin-ō-fi'i-ä), n. [NL., < hyper- + cosinophilia.] The presence in the blood of a larger number of eosinophilia leneocytes than is normal. hyperequatorial (hī*pėr-ē-kwā-tō'ri-al), a.

More than equatorial in temperature.

If you strip Peter, you will see a fellow Scorched by Hell's hyperequatorial climate Into a kind of a sulphureous yellow. Shelley, Witch of Atlas, To Mary, st. 6.

sive irritability. hyperesthete (hī-per-es'thēt), n. One who is

affected with hyperæsthesia; one who is abnormally sensitive.

hypereutectic (hī/per-ū-tek'tik), a. an excess of eemeutite over the eutectic ratio of 7 to 1; containing (as steel) more carbon in the form of cementite than 0.90 per cent.

The percentage of the excess of ferrite or cementite for hyporand hyper-entectic steels respectively.

Encyc. Brit., XXIX. 572.

An excessive degree of excitability.

hyperextension (hi"per-eks-ten'shon), n. The extension of a joint beyond the straight line or the normal limit of such movement.

hypergas (hī'per-gas), n. See fourth state of matter.

hypergaseous (hi-per-gas'ē-us), a. Of or per-taining to a hypergas or to the fourth state of matter (Crookes). See *matter.

hypergeometrical (hī-per-jē-ō-met'ri-kal), a. ame as hypergeometric

hypergeometry (hī pēr-jē-om'e-tri), n. 1. for females. E. Schmidt. Geometry of point-space of more than three hypermnesis (hī-pērm-nē'sis), n. [NL.] Same dimensions.—2. The geometry of non- as hypermnesia. Euclidean space.

His [Lobatchewsky's] first contribution to the theory of hyper-geometry is believed to have been given in a lecture at Kazañ in 1826. Encyc. Brit., XXX. 306.

hyperglobulia (hĩ/pèr-glō-bū/li-ā), n. [NL., \langle Gr. $\dot{v}\tau\dot{v}\rho$, over, + L. globulus, globule.] A condition in which the red blood-corpuseles are in excessive amount.

hyperglycemia (hi*per-gli-se'mi-ii). n. The presence in the blood of a large quantity of

Also hyperglykemia.

sugar. Also hyperglycemia. Relathyperglycemia (hī-per-nōr'mal), a. In excess ing to or affected with hyperglycemia. Med. hypernormal (hī-per-nōr'mal), a. In excess of the normal; above the normal.

hypergon (hi'per-gon), n. [Gr. υπέρ, over, + γωτα, angle.] In photog., a wide-angled lens, devised by Goerz, embracing an angle of It is a double anastigmat, the symmetrical doublet consisting of two very thin semi- hypernutrition (hī"per-nū-trish'on), n. Nu-

hyperheredity (hī'per-hē-red'i-ti), n.

hyperhexapodous (hī"per-hek-sap'ō-dus), a.

ame as hyperhexapod.

hyperiastian (hī pėr-ī-as'ti-an), a. [Gr. $\dot{v}\pi\epsilon\rho$ - $ia\sigma\tau\iota\sigma\varsigma$, $\langle\dot{v}\pi\dot{\epsilon}\rho$, over, + 'I $\dot{a}\sigma\tau\iota\sigma\varsigma$, Ionian, $\langle\dot{v}\dot{a}\dot{\epsilon}\rho$, Ionian.] See $mode^1$, 7 (a) (1).

hypericaceous (hī-per-i-kā'shius), a. Belonging to or having the characters of the plant

family Hypericaeeæ.

Hypericales (hī * per-i-kā ' lēz), n. pl. [NL. (Small, 1903), < Hypericum + -ales.] A large order of dicotyledonous, chiefly choripetalous plants, characterized by regular flowers (except in the Violacew), usually numerous stamens, a compound ovary, and parietal placentse (whence often called Parietales). It includes 31 families. They are mostly herbs, but some are shrubs, and there are a few tropical trees. The principal families are the Hypericaceæ, Theaceæ, Clusiaceæ, Cistaceæ, Violaceæ, Flacourtiaceæ, Turneraceæ, and Begoniaceæ.

hyperinvolution (lū"pėr-in-vō-lū'shon), n. In physiol., involution which is excessive in either

extent or rapidity. See involution, 7.

hyperisotonic (hi'per-i-sō-ton'ik), a. [hyper+ isotonic.] Exerting greater osmotic pressure than an isotonic solution. Simon, Physi-

ological Chem., p. 327. hyperkeratosis (hī"per-ker-a-tō'sis), n. [NL., $\langle Gr. \dot{\nu}\pi\epsilon\rho$, over, $+\kappa\epsilon\rho ac$ ($\kappa\epsilon\rho a\tau$ -), horn, +-osis.] 1. Hypertrophy of the horny layer of the epidermis.—2. Same as conical *cornea.

tion of milk in excessive amount or for an abnormally prolonged period. *Buck*, Med. Handbook, II. 224.

hyperlethal (hī-per-le'thal), a. More than sufficient to cause death: noting an amount of a poisonous drug. Philos. Trans. Roy. Soc. (London), 1898, ser. B, p. 269.

Same as leueocytosis.

hypermastia (hī-per-mas'ti-ä), n. over, + $\mu a \sigma \tau \delta \gamma$, breast.] Excessive development of the breasts.

hypermature (hī"per-mā-tūr'), a. Overripe, as a cataraet in the eyo. Buek, Med. Handbook, II. 720.

hypermegacranious (hî/per-meg-a-krā/ni-us), a. In craniom., having a skull of very large volume, over 2,280 cubic centimeters in males, over 1,960 cubic centimeters in females.

hypermegaprosopous (hī/per-meg-a-pros'ō-pus), a. In anthrop., having a facial skeleton whose volume exceeds 790 cubic centimeters for males, and 630 cubic centimeters for females. E. Schmidt.

hypermesaticephalic (hī/per-mes/a-ti-se-fal'ik), a. In anthrop., having a mesaticophalic form of head, but approaching brachycephalism.

hypermetropia, n.—Total hypermetropia, the snm of the latent and manifest hypermetropia.

pus), a. In anthrop., having a facial skeleton whose volume is less than 460 cubic centimeters for males, and 400 cnbic centimeters E. Schmidt.

hypernephroma (hū-per-nef-rō'mā), n.; pl. hippernephromata (-ma-tā). [NL., \langle Gr. $\dot{v}\pi\dot{\epsilon}\rho$, over, + $r\epsilon\phi\rho\dot{\rho}\dot{\epsilon}$, kidney, + -oma.] A tumor of the adrenal gland.

hypernidation (hī/pėr-ni-dā'shon), n. [hyper-+ nidation.] Formation in abnormal amount, during menstruation, of a membrane analo-gous to the decidua. G. S. Hall, Adolescence, 483.

hypernitrogenous (hī/pēr-nī-troj'e-nus), Containing nitrogen in excess of the normal amount, as soil or other substances.

The temperature is reduced from 1-1°,5°C., but this is recovered from in 2-2½ hours, and become[s] thereafter slightly hypernormal.

Philos. Trans. Roy. Soc. (London), 1902, ser. B, p. 101.

spherical single lenses.

hyperheredity (hī"pēr-hē-red'i-ti), n. The hypothetical accumulation or culmination of inheritance in the offspring of delayed mating.

Conversely, . . . hyperheredity due to long delay of propagation may be a factor for accounting for . . some of the monsters of the geologic pasts.

G. S. Hall, Adolescence, II. 607.

hyperhexanodous (hī"pēr hē-red'i-ti), n. The trition beyond the normal needs of the body.

Med. Record, Feb. 7, 1903, p. 227.

Hyperartii (lū"pēr-ŋō-ār'ti-ī), n. pl. [NL., < Gr. ὑπερῷου, upper room (palate), + ἀρτιος, complete (entire).] The order or subclass of the Marsipobrauchii, typified by the lampreys. In this group the nasal duet is a fluid-sac, not penetrating the palate.

Hyperhexanodous (hī"pēr hē-red'i-ti), n. The trition beyond the normal needs of the body.

Med. Record, Feb. 7, 1903, p. 227.

Hyperartii (lū"pēr-ŋō-ār'ti-ī), n. pl. [NL., < Gr. ὑπερῷου, upper room (palate), + ἀρτιος, complete (entire).] The order or subclass of the Marsipobrauchii, typified by the lampreys. In the palate.

Hyperhexanodous (hī"pēr hē-red'i-ti), n. pl. [NL., < Gr. ὑπερῶνου, upper room (palate), + ἀρτιος, complete (entire).] The order or subclass of the Marsipobrauchii, typified by the lampreys. In the palate.

don (hi″per-ödap'ē-don), n. [NL., \langle Gr. $\psi\pi\epsilon\rho$, above, +δάπεδον, pavement.] A genus of rhynchocephalian reptiles from the Upper Trias of Europe



Hyperodapedon Gordoni.

Left lateral view of the skull, as restored by Professor Huxley, from the Trias of Elgin, Or, orbit; t, infratemporal fossa, (Reduced.) (From Nicholson and Lydek-ker's "Palæontology,")

and India, which attained a length of from 10 to 14 feet. The skull is triangular in form, flat on top, and bears a long curved premaxillary beak, and its upper dentition is spread over a compound triangular bone, termed the palato-maxilla, in several rows of pyramidal teeth with grooves between for the reception of the edges of the mandible.

mandible.

hyperope (hī'per-ōp), n. [Gr. $i\pi\ell\rho$, over, + $i\omega\psi$ ($i\omega\pi$ -), eye.] Same as hypermetrope.

hyperorthognathous (hī per-ôr-thog'nā-thus), a. [Gr. $i\pi\ell\rho$, over, + $i\rho\theta\delta\varsigma$, right, + $i\pi\ell\theta\circ\varsigma$, jaw.] In anthrop., having a facial angle exceeding 90°.

hyperosmic (hi-per-es'mik), a. [Gr. iπέρ, over, + iσμή, smell.] 1. Relating to or affected with hyperosmia, or abnormal acuteness of smell.-Noting an acid, osmium tetroxid.

osis.] hyperosmotic (hī/per-os-mot'ik), a. Produced 1. Hypertrophy of the horny layer of the epidermis.—2. Same as eonical *cornea. by or inducing increased rapidity of osmosis. Med. Record, Jan. 24, 1903, p. 121. hyperlactation (hi*/per-lak-tā'shon), n. Secrebyperosteogenic (hi*/per-os*tē-ō-jen'ik), a.

ertaining to or affected with hyperesteogeny. G. S. Hall, Adolescence, I. 81.

hyperosteogeny (hī-pėr-os-tē-oj'e-ni), n. [Gr. νπέρ, over, + όστέον, bone, + -γενεια, < -γενης, -producing.] Hypertrophy of bone. hyperostotic (hī-pėr-os-tot'ik), α. [hyperostosis (-ot-) + -ic.] Relating to hyperostosis or hyperophy of bone.

hypertrophy of bone.

Hypertrophy of bone.

Hyperotreti (hī per-ō-trē'tī), n. pl. [NL., irreg. < Gr. ἐπερῶου, upper reom (palate), + τρητός, perforated.] The order or subclass of the Marsipobranchii, typified by the hagfishes. In this group the masal duct is a tube with cartilaginous rings penetrating the palate.

hyperoxid(hī-per-ok'sid), n. [hyper-+ oxid.] In the many records a subclass of the many records a subclass of the many records and the many records are the many records and the many records are the many records and the many records are the

chem., an oxid containing a larger proportion of oxygen than some other analogous compound referred to: as, hyperoxid of lead, lead dioxid, PbO₂, in which the proportion of oxygen is larger than in litharge, PbO, or red lead, Pb₃ O4: same as peroxid.

hyperoxygenate (hī-per-ok'si-jen-āt), v. t.; pret. and pp. hyperoxygenated, ppr. hyperoxygenating. In chem., to charge with oxygen in excess.

hyperoxygenize (hi-per-ek'si-jen-iz), v.t.; pret. and pp. hyperoxygenized, ppr. hyperoxygenizing. Same as *hyperoxygenate.

hyperpepsia (hī-per-pep'si-ä), n. [NL., \langle Gr. $v\pi\epsilon\rho$, over, $+\pi\epsilon\psi\iota c$, digestion.] Indigestion resulting from an abnormal proportion of chlorids in the gastric juice.

Hypergeometric equation. Same as Gauss's hypermicroprosopous (hi/per-mi-kro-pros'o-hyperpeptic (hi-per-pep'tik), a. Relating to

or affected with hyperpepsia.

hyperper (hi-per'per), n. [ML. hyperperum (also perperum, perperus), hyperpyrum, < MGr. υπέρπυρου, a coin so called as made from gold considered as highly refined by fire, $\langle \hat{v}\pi \hat{\epsilon} \rho$, over, $+ \pi \bar{v} \rho$, fire.] In numis., a Byzantine gold coin somewhat heavier than a half-sovereign; the gold solidus. See solidus, 1.

In return he was to receive 1,000 silver marks, and as much land in the west, that is, in Epeiros, as will yield an annual revenue of 10,000 gold hyperpers.

J. B. Bury, in Jonr. Hellenic Studies, VII. 312.

hyperperfection (hi per-per-fek'shon), n. [hyper- + perfection.] Perfection to excess; perfection, in the parts or functions of animals or of man, which is considered to be heyond the limits of usefulness.

hyperperistalsis (hī per-per-i-stal'sis), n. [Nl., < hyper- + peristalsis.] Abnormally rapid peristalsis.

hyperphalangeal (hī "per-fā-lan' jē-al), a. [Gr. $i\pi\epsilon\rho$, over, $+\phi\delta\lambda\alpha$; ξ , phalanx, $+\epsilon -all$.] Having more than the normal number of phalanges in a digit.

Embryos are hyperphalangeal, the fourth toe developing six phalanges.

II. Gadow, Amphibia and Reptiles, p. 441.

hyperphalangism (hi" per-fā-lan' jizm), n. [Gr. $i\pi\ell\rho$, over, $+\phi\acute{a}/a\gamma\xi$ ($\phi a \gamma a\gamma\gamma$ -), phalanx, +-ism.] The occurrence of more than three phalanges in a digit. There are as many as four-teen phalanges in the fingers of some cetaceans.

The number of the phalanges of the second and third digits (in whales) always exceeds the normal number in nammals, sometimes very considerably (hyperphalangism).

Flower and Lydekker, Mammals, p. 226.

With regard to hyperphalangism he agrees . . . that it is a result of retarded ossification and the formation of double epiphyses.

Jour. Roy. Micros. Soc., Feb., 1904, p. 55.

hyperphalangy (hī*per-fā-lan'ji), n. Same as *hyperphalangism.

hyperphoria (hī-pēr-fō'ri-ä), n. [NL., < Gr. ὑπέρ, over, + -φορία, < -φορος, < φέρειν, carry.]
A condition in which one visual axis tends to be inclined upward more than the other. See \star hypertropia.

hyperphoric (hī-per-for'ik), a. [Gr. iπέρ, over, + -φορικός, ζ φέρειν, carry.] In petrog., noting changes in a rock or mineral produced by addition or subtraction of material.

hyperphosphorescence (hi"per-fos-fō-res'ens), n. [hyper- + phosphorescence.] The emission of obscure rays, capable of affecting the photographic plate, by certain bodies that have been

previously exposed to light. hyperphrenia (hī-per-frē'ni-ā), n. [NL., \langle Gr. $v\pi\xi\rho$, over, $+\phi\rho\eta\nu$, mind.] Extreme mental excitément.

hyperpiesis (hī"per-pī-ē'sis), n. [NL., 'Gr. $i\pi\ell\rho$, over, $+\pi i\epsilon\sigma\iota\varsigma$, pressure.] Increase of blood-pressure beyond the normal degree.

hyperpigmentation (hi'per-pig-men-tā'shon), n. An excess of pigmentation.
hyperpigmented (hi-per-pig'men-ted), a. Excessively pigmented. Buck, Med. Handbook,

V. 485.

hyperplane (hī'per-plan), n. [hyper-+plane1.] An (n-1)-dimensional plane, defined in n-dimensional space by a homogeneous linear equation between its homogeneous coordinates.

hyperplasia, n. 2. In bot., an abnormal increase in the volume of cells, due to their unusual multiplication. Compare *hypoplasia.
hyperplasm (hī'pėr-plazm), n. 1. Same as hyperplasia.—2. Same as hyperinosis.
hyperplatyrrhine (hī-pėr-plat'i-rin), a. [hyper-+ platyrrhine.] In anthrop., having a nasal index of the skull over 58.

hyperporosis ($hi^*per - po - ro^*sis$), n. [NL., \langle Gr. $i\pi i\rho$, over, $+\pi \omega \rho \omega \sigma c$, formation of eallns: see porosis.] Excessive callus-formation in the healing of a broken bone.

hyperpraxia (hī-pėr-prak'si-ā), n. [NL., \langle Gr. $\dot{v}\pi\dot{\epsilon}\rho$, over, $+\pi\rho\bar{a}\dot{\epsilon}\iota\varsigma$, action.] Excessive activity. Baldwin, Diet. of Philos. and Psychol.,

hyperpresbyopia (hī "per-pres-bi-ō'pi-ā), n. [hyper-+ presbyopia.] Same as hypermetropia. hyperprochoresis (hī "per-prō-kō-rō'sis), n. [NL., ⟨ Gr. ὑπέρ, over, + προχώρησις, geing forward.] Abnormally rapid propulsion of food from the stomach into the intestine.

Hyperprosopon (hī-pēr-pros'ō-pon), n. [NL., ζ Gr. ὑπέρ, above, + πρόσωπον, face.] A genus of surf-fishes of the family Embiotocidæ, known as walleyes on the coast of California. H. argenteus is the common species.

hyperpyretic (hī"pėr-pī-ret'ik), a. [Gr. $\dot{v}πέρ$, over, + πνρετός, fever, + -ie.] Same as hyperpyrexial.

hyperpyrexic (hī/per-pī-rek'sik), a. Same as hyperpyrexial.

hypersolid (hī-per-sol'id), n. [hyper- + solid.] A solid of four or more dimensions, hyperspace, n. 2. Non-Euclidean space.

II. a. Pertaining to either genus of hyperspace, n-dimensional or non-Euclidean.

This strictly logical tendency has been much more influ-In strictly logical tendency is seen as the contain in building up the hyperspace geometry and the modern theory of numbers than the layman recognizes.

Jour. of Philos., Psychol. and Sci. Methods, Feb. 4, 1904, [p. 60.

hypersphere (hī'per-sfēr), n. [Gr. $\dot{v}\pi\dot{e}\rho$, over, + $\sigma\dot{\phi}a\dot{\rho}a$, sphere.] 1. Equidistantial surface.— + $\sigma_0 \alpha \mu_0$, sphere.] 1. Equidistantial surface.—
2. In four-dimensional space, the three-dimensional quadric spaces through the intersection of X_5 =0 and S_3 , where S_3 is a three-dimensional space which is met by any line

of S₄ in two points.

hyperstatic (hī-per-stat'ik), a. [hyper-+
statie.] In elect., noting that the potential of
the static current is very high.

When near enough (one or two centimeters), a spark jumped from the electrode and impinged on the skin. The electric current then traversed the body, seeking the most convenient path to earth. To this spark I later gave the name "hyperstatic," to imply that the potential of the static current had heen raised, and to the instrument the term "hyperstatic transformer" has been applied.

Med. Record, March 7, 1903, p. 363.

hyperstrophic (hī-per-strof'ik), a. [Gr. ὑπέρ, over, + στροφος, ζστρέφειν, turn.] In snail-shells, reversed sinistrally or dextrally, or abnormally sinistral or dextral, as in Lanistes and Limacina; ultra-dextral or ultra-sinistral. Eneye. Brit., XXX. 795.

hypersurface (hī'per-ser'fās), n. [hupersurface.] In space of n-dimensions, S_n , the aggregate of points whose coordinates satisfy a rational homogeneous equation with inte-

gral coefficients.

hypertely (hī'per-tel-i), n. [NL. *hypertelia, Gr. ὑπερτέλειος, beyond completeness or perfeetion, $\langle i\pi\ell\rho_{\rm c}, {\rm over}, +\tau\ell\lambda\epsilon_{\rm io}\rangle_{\rm c}$ complete, perfect, $\langle \tau\ell\lambda\rho_{\rm c}, {\rm end.} \rangle$ In biol., a development of protective resemblance which transcends usefulness: a term proposed by Brunner von Wattenwyl and generally adopted. For example, where the wing of a locustid resembles in color and shape the leaf of a tree on which the insect feeds, the further resemblance of certain clear spots on the wing to fungous spots on the leaf, or to spots nibbled by an insect, is hypertely.

hypertension (hī-pēr-ten'shon), n. [hyper-+tension.] Extreme tension.

hyperthermal (hi-pèr-thér'mal), a. Same as *hyperthermic.

hyperthermia (hī-pėr-thėr'mi-ä), n. [NL., \langle Gr. $\nu\pi\ell\rho$, over, $+\theta\ell\rho\mu\eta$, heat.] Same as hyper-

Pyrecute.
hyperthermic (hī-pėr-thėr'mik), a. [Gr. ὑπέρ, over, + θέρμη, heat, + -ic.] Relating to a high temperature, or to a condition of great excess of heat; having a tendency to raise the temperature. temperature.

hyperthymia (hī-pēr-thī'mi-ā), n. [NL., ζ Gr. *ἐπερθυμία, ζ ἰπερθυμος, high-spirited, very angry, ζ ὑπέρ, over, + θυμός, spirit, mind.] Insanity marked by violence and an impulse to acts of cruelty.

hyperthyroidation (hi-per-thi-roi-dā'shon), n. [hyperthyroid + -ation.] Same as *hyperthy-

roidism.

hyperthyroidism (hī-per-thī'roi-dizm), n. [hyper- + thyroid + -ism.] A condition of over-activity of the thyroid gland. Also called hyperthyroidation and hyperthyroidization. Buck, Med. Handbook, IV. 396. hyperthyroidation

hyperthyroidization (hī "per-thī " roi-di-zā'-shon), n. Same as *hyperthyroidism.
hyperthyrum (hī-per'thi-rum), n.; pl. hyperthyra (-rā). [L. hyperthyrum, the lintel or cornice over a door; ⟨ Gr. ὑπέρθυρον, also ὑπερθύρον, the lintel over a door, ⟨ ὑπέρ, over, + θύρα, door.] The lintel or the cornice over a door. door.

hypertonia (hī-per-tō'ni-ā), n, [NL., \langle Gr. "υπερτονία, \langle ὑπέρτονος, overstrained, \langle ὑπέρ, over, + τόνος, tension, strain: see tone¹.] Extreme reflex irritability. Also ealled hypertonicity and hypertonus.

hypertonic (hī-per-ton'ik), σ . [Gr. $i\pi \hat{\epsilon}\rho$, over, $+\tau \hat{\epsilon}\nu o_{\epsilon} c$, strain, tension, +- $i\epsilon$.] In phys. chem., having a greater osmotic pressure than some solution regarded as a standard. See *isoIn which the pressure is first increased, sometime before the cleavage, which takes place after the return from the hypertonic solution to the sea water.

Biol. Bulletin, April, 1904, p. 233.

hypertonicity (hī "per-tō-nis 'i-ti), n. [As hypertonic + -ity.] Same as *hypertonia. hypertrophy, n.—Compensatory hypertrophy, increase in the muscular tissue of the heart by which it is enabled to maintain the circulation in spite of a defect in the adverse regular also to analogous conditions in is enabled to maintain the circulation in spite of a defect in the valves: applied also to analogous conditions in other organs or parts.—**Eccentric hypertrophy**, increase in size of a hollow organ, due to greater thickness of the walls as well as to dilatation of its cavity.—**False hypertrophy**, hyperplasia of the connective-tissue stroma, but not of the functional elements of the structure.—**Functional hypertrophy**, increase in size of a part following upon increased use.—**Numertcal hypertrophy**. Same as hyperplasia.—**Physiological hypertrophy**, hypertrophy from increased use.—**Numertcal hypertrophy**, hypertrophy, Same as hyperplasia. **hypertropia** (hi-per-tro'pi-ii), n. [Gr. iπέρ, over, + πρόπος, turn, direction.] A condition in which one visual axis is inclined above the

in which one visual axis is inclined above the other. See *hyperphoria. Med. Record, April 18, 1903, p. 610.

hypertype (hî'per-tîp), n. [Gr. $\dot{v}\pi\epsilon\rho$, over, + $\tau\dot{v}\pi\sigma\varsigma$, type.] An individual possessing the characteristics of a type in an excessive

degree.

Exaggerated specimens, hypertypes, as they are called, do howere occur, but only in one or two respects; such are the Fijian Kai Colos, who are said to be "hypertypical Melanesians." because of the excessive dolichocephaly of their crania (Flower).

Keane, Ethnology, p. 12.

hyperuresis (hī "per-ū-rē'sis), n. [Gr. ἐπέρ, over, + οὐρησίς, urination.] Same as polyuria. hypervenosity (hī/per-vē-nos'i-ti), n. [hyperrengsity.] An abnormal development of the venous system. Buck, Med. Handbook, III. 754. veneus system. Buck, Med. Handbook, III. 754. hypha, n.—Woronin's hypha, the peculiar curved hypha, crowded with protoplasm, which is found in certain fungi at the base of the forming perithecium before the development of asci. hyphen, n. 3. The symbol +, = plus. [Rare.] hypho (hi'fō), n. [cap. and l. c.] An abbreviation of Hyphomyectes or *hyphomyecte.

The largest order of the fungi imperfect is the group of fungi often known as the Hyphomyectes, and called "Hyphos" for short.

Cuderwood, Moulds, Mildews and Mushrooms, p. 74.

Hyphology (hi fō hōris) n. [NII. (Gr. hōris)

Hypholoma (hī-fō-lō'mi), u. [NL., \leq Gr. $\psi\phi\eta$, web, + λωμα, fringe.] A genus of agarieaeeous fungi having fleshy pilei or eaps and a membranous or eobweb-like veil, part of which usually remains attached to the margin of the pileus. The spores are dark or purplish-brown, and the stipe without a distinct annulus. The species are numerous, growing on the ground or decayed wood. H. fasciculare is a common species with a tawny pileus said to cause a root-rot of the raspberry in Australia.

hyphomycete (hi-fō-mi'sēt), n. Any member of the Hyphomycetes.

hyphomycetic (hī/fō-mī-set'ik), a. Same as

hypisotonic (hip-ī-sō-ton'ik), a. [Gr. iπδ, under, + iσος, equal, + τδνος, tension, + -ic.] Same as *hypotonic. 1.

Hypleurochilus (hip*lū-rō-kī'lus), n. hypeurochius (hip) (1-70-ki ius), n. [NL., as mack hypo. asid'i-ti), n. [hypo-+ so called in allusion to the Y-shaped lateral hypoacidity (hi'pō-a-sid'i-ti), n. [hypo-+ lips; $\langle \dot{v}, \text{ the letter } Y, + \pi \lambda v v \rho a, \text{ side, } + \text{ acidity.}]$ Acidity in an inferior degree, as less acidity of the gastric juice than is usual or in tropical America, having the gill-openings normal. Energy, Brit., XXXI, 55t. restricted to the sides and with the body

hypnagogue (hip'na-gog), n. [Gr. $\hat{v}\pi voc$, sleep. + $\hat{a}_{\gamma}\omega_{\gamma}\delta c$, leading, bringing.] Something which induces sleep; a hypnotic.

As a hypnagague, the reading [to the British troops In 1796] of Pye's translation of Tyrteens seems to have held its own with that of the Articles of War in our own day.

N. and Q., 10th ser., ILL 346.

hypnal (hip'nal), n. [Gr. ῦπνος, sleep, + -al³.]
A trade-name for a compound of antipyrin with chloral, used as a hypnotic.

hypnesthesis, hypnæsthesis (hip-nes-thē'sis), ver, + n. [NL. hypnæsthesis, ζ Gr. ύπνος, sleep, + aiσθησις, perception, feeling.] 1. Blunted sensibility.—2. Sleepiness.
ζ Gr. hypnic (hip'nik), a. [Gr. ὑπνος, sleep, + -ie.] ζ ὑπέρ, Relating to or causing sleep; hypnotic.

Ex- hypnocyst, n. 2. In bot., same as *akinete.

hypnody (hip 'nō-di), n. [F. hypnodie, ζ Gr.

νπνοδία, sleepiness, ζ ὑπνοδης, sleepy, ζ ὑπνος,

over, sleep, + είδος, form.] An excessively long resting-period in the life of an insect, or the condition of the insect during that period.

The larvæ of the host and of the parasite are thus both in that state of somnolenee which I have called "hyp-

nodie"; on the other hand, the chrysalis of the former and the nymph of the latter are both active and capable of developing the most extraordinary energy in order to escape from their prison.

Annals and Mag. Nat. Hist., Oct., 1904, p. 311.

hypnoid (hip'noid), a. [Gr. $v\pi voc$, sleep, + doc, form.] Resembling hypnosis; akin to the hypnotic state.

Some, again, are now seeking to vindicate or probabilize the fact of inspiration . . . by a new serntiny of not only genius but of eestatic and hypnoid states in which the ordinary mental processes are quickened and exalted.

Amer. Jour. Relig. Psychol. and Education, [May, 1904, p. 2.]

By the term hypnoid I indicate the coexistence of two or more fully independent functioning constellations of moments-consciousness, such as is presented in the phenomena of automatic writing and of hysteria.

B. Sidis, Psychol. of Suggestion, p. 234.

hypnoidal (hip-noi'dal), a. [hypnoid +-all.] Resembling sleep or hypnois.—Hypnoidal state, a pathological condition in which fragments of unrecognized past experience rise to clear consciousness from the subconscious life. See the extract under *hypnoidic.

hypnoidic (hip-noi'dik), a. See the following phrase.—Hypnoidic state, a pathological condition in which more or less systematized experiences, implying personality, rise spontaneously from the subconscious life into clear consciousness.

While the hypnoidic states form complete systems of experiences, whole personalities, the hypnoidal states are mere bits, chips of past experiences.

B. Sidis, Psychol. of Suggestion, p. 239.

hypnoidization (hip-noi-di-zā'shon), n. [hyp-noid + -ize + -ation.] A method of inducing light hypnosis. See the extract.

hight hypnosis. See the extract.

The method which I term hypnoidization... consists in the following procedure: The patient is asked to close his eyes and keep as quiet as possible, without, however, making any special effort to put himself in such a state. He is then asked to attend to some stimulus, such as reading or singing. When the reading is over, the patient, with his eyes still shut, is asked to repeat it, and tell what came into his mind during the reading, during the repetition, or after it. Sometimes ... the patient is simply asked to tell the nature of ideas and images that entered into his mind at that time or soon after. This method, simple as it is, I find to work wonders, especially in cases of annesia.

B. Sidis, Psychol. of Suggestion, p. 224. hypnolentic (hip-no-lep'tik). a. [Gr. hypor.

B. Saus, rsychol of singlestion, μ. 223.

hypnoleptic (hip-nō-lep'tik), a. [Gr. επνος, sleep, + ληπτικός, < λῆψις, taking.] Characterized by the oneoming of hypnotic sleep.

Hypnoleptic state, an intermediate state, of short duration, which occurs between the two phases of double consciousness or double personality.

This intermediate state was an attack: it was sudden in its onset, and may be termed hypnoloptic,
B. Sidis, Psychol. of Suggestion, p. 227.

hypnologic (hip-no-loj'ik), a. Same as hypnolouieal.

hypnosophist (hip-nos'o-fist), n. One versed in hypnosophy or the science of sleep and its nhenomens.

hypnosophy (hip-nos'ō-fi), n. [Gr. ἐπνος, sleep, hyphomycetic (m. hyphomycetous, hyphomycetous, hyphomycetous, hyphydrogamic (hip-hī-drō-gam'ik), a. [Gr. hyphydrogamic (hip-hī-drō-gam'ik), a. [hyphydrogamic (hip-hī-drō-gam'ik), a. [hyphydrogam'ik), a. [hyphydrogam'ik) used as a vulcanizing material. Also known as black hypo.

hypoactivity (liī"pō-ak-tīv'i-ti), n. [hypo-+activity.] A diminished degree of activity. hypoæolic (hī"pō-ē-ol'ik), a. Same as *hypoentectic. Electrochem. Industry, March, 1904,

p. 120. hypobenthic (hī-pō-ben'thik), u. [hypobenthos + -ic.] Same as *hypobenthonic.

hypobenthonic (hi*pō-ben-thon'ik), a. [hypobenthos + -on-ic.] Of or pertaining to the animals of the deep sea, or hypobenthos, below the 500-fathom line. See *benthos, *hypobenthe 500-fathom line. See *benthe thos. Encye. Brit., XXXIII. 935.

hypobenthos (hī-pō-ben'thos), n. [NL., \langle Gr. $\nu\pi\delta$, under, + $\beta\dot{\nu}\nu\delta\sigma$, depth (see *benthos).] The animals that live upon or in the bottom of the deep sea, below the 500-fathom line, considered collectively: contrasted with the epibenthos, or fauna and flora of the bottom in shallow water, and the mesobenthos, or the inhabitants of the bottom between 100 and 500 fathoms; the abyssal benthos. One of the most remarkable results of the exploration of the deep sea is the discovery that the bottom, even under more than five miles of water, supports a rich fauma of characteristic animals, living under conditions which had long been supposed to be incompatible with life. Their bodies support a pressure which, in the greatest depths, is more than five tons to the square inch, and they live in water that is always near the freezing-point, in total darkness except for the light which they themselves produce by means of luminous organs. Since plants are completely absent in the depths, the only ultimate source of the food of these animals is the rain of dead plants and animals which is constantly falling upon them from the higher levels. See *benthos, *mesobenthos.

hypochordal (hī-pō-kôr'dal), a. [Gr. $\dot{v}\pi b$, under, $+ \chi o \rho b \eta$, cord, + -al V.] Lying beneath, on the ventral side of the spinal cord.

A second or hypochordal arch connected with the bases of the neural and visceral arches, lying on the ventral side of the perichordal elements. Energy. Brit., XXV. 397. levels. See *benthos, *mesobenthos.

In this zone, which extends from about 500 fathoms to the greatest depths (which may in some cases exceed 5,000 fathoms, or more than 53 miles), the temperature at any given point is uniform throughout the year. The darkness is probably absolute; for food the animals are dependent upon each other and upon the incessant rain of dead plankton from higher levels; the pressure may be anything between half a ton and five tons per square inch. To the fauna which lives in these remarkable circumstances the name hypobenthos may be applied.

Encyc. Brit., XXXIII. 933.

hypobulia (hī-pō-bū li-ā), n. [NL., \langle Gr. $i\pi\delta$, under, $+\beta m\lambda \hat{\eta}$, will.] Impaired will-power. hypocarp (hī'pō-kärp), n. [NL. hypocarpium, \langle Gr. $i\pi\delta$, under, $+\kappa a\rho\pi\delta\varsigma$, fruit.] An enlarged growth of the disk and peduncle beneath a fruit. See Anacardium (with cut).

neath a truit. See Anacardium (with cut).

hypocarpium (hī-pō-kār'pi-um), n.; pl. hypocarpia (-ā). Same as *hypocarp.

hypocathartic (hī'pō-ka-thār'tik), a. [hypo-tcathartic.] Laxative.

hypocentrum (hī-pō-sen'trum), n.; pl. hypocentra (-trā). [Gr. ὑπό, beneath, + κέντρον, center.] Ordinarily the same as intercentrum, a bone wedged in between the centra of the vertebræ; usually more or less wedge-shaped vertebræ: usually more or less wedge-shaped, and appearing on the ventral side of the vercolumn, but in the mud-fish Amia of tebral column, but in the mud-fish Amia of about the same size as the true centrum. It is an important component of the vertebre in the extinct Stegocephala. By some authorities the chevron-bones of mannals are considered as developed from the hypocentra—Hypocentrum areuale, an arched band of bone on the under, ventral, side of the notochord, formed by the union of two arcualia: the basiventralia of Gadow.—Hypocentra pleuralla, a pair of bony plates, or arcualia, which lie on the under side of the notochord behind the hypocentrum arcuale: the 'interventralia' of Gadow. Some confusion exists in the use of the term hypocentrum, but it is ordinarily as given above.

hypocephalid (hi-pō-sef'a-lid), n. and a. I. n. member of the coleopterous family Hypo-

cephalidæ.

II. a. Of or belonging to the family Hypocephalidæ.

hypochlorhydria (hī″pō-klōr-hī′dri-ā), n. [Gr. vπō, under, + chlor(in) + hydr(ogen) + -ia.] The presence in the gastric juice of an amount of hydrochloric acid less than normal.

hypochlorin (hī-pō-klō'rin), n. [Gr. $i\pi\delta$, under, $+\lambda 2\omega\rho\delta c$, green, $+-in^2$.] A term used by Pringsheim to designate an organic substance found in cells containing chlorophyl.

hypochlorization (hi*pō-klō-ri-zā'shon), n. [hypo-+chlor(id) + -ize + -ation.] Reduction hypochiorization (ii po-kiloriza sign), iii lower molar. See cut under *tooth, 1.

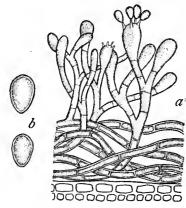
lower molar. See cut under *tooth, 1.

hypochiaceæ (hī-pok-nā/sē-ē), n. pl. [NL., armall or intermediate cusp, developed on the postero-external angle v. welloped v. welloped on the postero-external angle v. welloped on the postero-external

Hypochnaceæ (hī-pok-nā'sē-ē), n. pl. [NL., \(\begin{align*} I \) ppochnus + -accæ.] A family of hymenomycetous fungi named from the genus \(I \) ppoch-

mycetous langt lander from the geaus Hypochnus. See *Hypochnus.

Hypochnus (hi-pok'nus), n. [NL. (Ehrenberg, 1818), ζ Gr. ὐπό, under, + χνόος, χνοῦς, down.] A genus of hymenomycetons fungi, type of the family Hypochnaceæ, having the



Hypochnus Solani.

a, section of the fungus showing hyphæ, basidia, and spores; b, spores. Much enlarged. (From Engler and Pranti's "Pflanzenfamthen.")

hymenium consisting of a thin arachnoid layer spreading over the surface of the matrix. The basidia bear 2, 4, or 6 sterigmata. About 30 species have been described, most of which are saprophytic. H. Sedani has been found on potatoes and H. cucumeris is said to attack cucumbers.

| A containing the family Hypogeic | (hi-pō-jē'ik), a. [LL. hypogens, hypogeic | (hi-pō-jē'ik), a. [LL. hypogens, hypogens, cetous fungi, containing the family Hypopers, hypogens, cetous fungi, containing the family Hypopers hypogens, cetous funcional functions of the matrix. The basidia bear 2, 4, or 6 sterigmata. About 30 species have been described, most of which are saprophytic. H. Sedani cetous fungi, containing the family Hypopers hypogens, cetous fungi, containing the family Hypopers.

hypochromatic (hī pō-krō-mat'ik), a. + chromatic.] Containing less than the normal amount of chromatin or than the normal number of chromosomes: said of certain cellnuclei.

hypochromatosis (hī/pō-krō-ma-tō'sis), n. [NL., ζ Gr. νπό, under, + χρωμα(τ-), color, + -osis.] 1. The state or condition of contain--osis.] 1. The state or condition of containsing less than the normal amount of chromatin: hypocystic (hi-pō-sis'tik), a. [Gr. $i\pi b$, under, said of certain cells: opposed to *hyperchroma-+ $\kappa i\sigma \tau u$, bladder, bag (see eyst).] Situated betosis.—2. A pathological condition in which low the air-sac or pneumatophore: as, a hypo-

hypochromia (hī-pō-krō'mi-ā), n. [NL., ⟨ Gr. νπό, under, + χρωμα, color.] Same as *hypo-

hypocinesis, n. See *hypokinesis.

Hypocistis (hī-pō-sis'tis), n. [NL. (Adanson, 1763, adopted from Tournefort, 1700), ζ Gr. hypodermalium (hī"pō-der-mā'li-um), n.; pl. hypodermalium (hī"pō-der-mā'li-um), n.; pl. hypodermalium (-i). [NL.: see hypodermale.] In sponges, one of the spicules which support the dermal membrane and have their axial hypodermalium. Rafflesiaceæ. See Cytinus

Hypoclydonia (hī"pō-kli-dō'ni-li), n. [NL., ζ Gr. νπό, nnder, + κλύδων, wave, billow.] A genus of deep-water fishes of the family Apoganidæ.

Apogonidæ.
Hypocoma (hī-pok'ō-mä), n. [NL., ⟨Gr. ὑπό, under, + κόμη, hair.] The typical genus of the family Hypocomidæ. Gruber, 1884.
Hypocomidæ (hip-ō-kom'i-dē), n. pl. [Hypocoma + -idæ.] A family of freely moving, unattached Suctoria having a permanently ciliada representation. ciliated ventral surface and one suctorial

ciliated ventral surface and one suctorial tentacle, and reproducing by cross-division. The typical and only genus is Hypocoma, found as an ectoparasite on Zoöthamnium, another protozoan. hypocondylar (hī-pō-kon'di-lār), a. [Gr. νπό, under, + κόνδυλος, condyle.] Situated below a condyle. Buck, Med. Handbook, IV. 260. hypocone (hī'pō-kōn), n. [Gr. νπό, under, + κῶνος, a cone.] A cusp or point developed on the postero-internal angle of an upper molar. It arises from the cingulum, but soon takes its place on the crown. See cut under takes its place on the crown. See cut under *tooth, I

hypoconid (hī-pō-kon'id), n. [Gr. iπό, under, + κῶνος, cone, + -id.] A point or cusp developed on the postero-external angle of a

cingulum of the posterior portion of an upper molar.

hypoconulid (hī-pō-kon'ū-lid), n. [hypoconule + id.] A small intermediate cusp or cuspule, developed on the cingulum of the posterior portion of a lower molar. See cut under $\star tooth, 1.$

hypocorism (hī-pok'ō-rizm), n. [Gr. υποκόρισμα, a coaxing name, a diminutive, $\langle \dot{v}\pi o \kappa o$ ρίζεσθαι, nse childish names, use coaxing language, $\langle \dot{v}\pi \dot{o}$, under, $+ \kappa \dot{o}\rho o_{S}$, m., $\kappa \dot{o}\rho \eta$, f., child.] A pet name.

hypocotyleal (hī"pō-kot-i-lē'al), n. [Gr. $\dot{v}\pi\dot{o}$, under, $+\kappa\sigma\dot{v}\dot{\lambda}\eta$, cup, socket, $+-al^1$.] The bone to which the lower jaw is attached in the teleost fishes; the quadrate bone. Starks, Synonymy of the Fish Skeleton, p. 513. **Hypocrea** (hī-pok'rō-ii), n. [NL. (Fries, 1825), \langle Gr. $i\pi\delta$, under, + $\kappa\rho\epsilon\alpha\varsigma$, $\kappa\rho\epsilon\alpha$, flesh.] A

large genus of pyrenomycetous fungi having more or less cushion-shaped fleshy stromata

creates

bright-colored and fleshy, or tough and having the perithecia buried in or seated upon a See $\star Hypocrea$ and $\star Hypomyces$. stroma.

stroma. See *Hypoerea and *Hypomyces. hypocrit, n. A simplified spelling of hypocrite. hypocritism (hip'ō-krit-izm), n. The conduct of a hypocrite; habitual hypocrisy. hypocrystalline (hō-pō-kris'ta-lin), a. [Gr. νπό, under, + E. crystalline.] In petrog., partly crystalline, partly glassy: a texture frequently developed in volcanic lavas. Also hemicrystalline.

hemicrystalline. See *mcrocrystalline. hypocycloidal (hī"pō-sī-kloi'dal), a. [hypocycloid + -al¹.] Of the nature of a hypo-

eycloid.

tosis.— 2. A pathological condition in which there is an abnormally small amount of pigment in the skin or other structures. Also called hypochromia.

hypochromia (h̄-p̄o-krō'mi-ä), n. [NL., ⟨Gr. νπό, under, + χρῶμα, color.] Same as *hypochromiasis.

hypocinesis, n. See *hypokincsis.

hypocinesis, n. See *hypokincsis.

Hypocinesis (h̄-p̄o-sis'tis), n. [NL. (Adanson, Interpretation of the structures of the family Hypodermatacee, having the ascocarps elongate and opening by a longitudinal slit. The spores are hypocinesis, n. See *hypokincsis.

hypocinesis, n. See *hypokincsis.

Hypocinesis (h̄-p̄o-sis'tis), n. [NL. (Adanson, Interpretation of the family Hypodermatacee, having the ascocarps elongate and opening by a longitudinal slit. The spores are known, occurring mostly on dead plants. H. Rubi is frequently found on canes of Rubus in Europe and American dependence of the family Hypodermatacee, having the ascocarps elongate and opening by a longitudinal slit. The spores are known, occurring mostly on dead plants. H. Rubi is frequently found on canes of Rubus in Europe and American dependence of the family Hypodermatacee, having the ascocarps elongate and opening by a longitudinal slit. The spores are known, occurring mostly on dead plants. H. Rubi is frequently found on canes of Rubus in Europe and American dependence of the family Hypodermanacee, hypo

and hypodermale.

Hypodermataceæ (hī "pō-der-ma-tā'sē-ē), pl. [NL., $\langle Hypoderma(t) + -acex.$] A family of ascomycetous fungi named from the genus

of ascomycetous fungi named from the scale Hypoderma. See *hypoderma, 4.

Hypodermella (hi*pō-dēr-mel'ā), n. [NL. (Tubent, 1885), < Hypoderma (see *hypoderma, 4) + dim. -ella.] A genus of ascomycetous fungi closely related to Hypoderma, but differing in baying 4 spoud agai and unicellular ing in having 4-spored asci and unicellular spores. H. Laricis is a parasitic species which attacks the needles of the European larch, Larix Europæa. See

Hypodermic impregnation, needle.

*impregnation, *needle.

hypodermoclysis, n. 2. Subcutaneous injection of large quantities of a physiological salt solution in the treatment of shock and of

certain acute affections.

hypodynamic (hī"pō-dī-nam'ik), a. [Gr. ὑπδ, nower.] Of diminished under, + δίναμις, power.] power; weak.

hypo-eliminator ($h\bar{i}'p\bar{o}-\bar{e}-lim'i-n\bar{a}-t\bar{c}r$), n. [hypo2, n., 1, + eliminator.] In photog., any solution used to remove the last traces of er, solution used to remove the last traces of sodium hyposulphite (hypo) from plates or a prints after fixing. Zine hypochlorite, alum, hydrogen peroxid, etc., can be employed.

In. Nature, Aug. 14, 1902, p. 368.

A hypo-ellipsoid (hī*pō-e-lip'soid), n. [hypo-the ellipsoid.] In geom., a curve described by a point on the circumference of a circle or ollipso which rolls when the incide of the control of the c

ellipse which rolls upon the inside of an

hypo-eosinophilia (hī/pō-ē-ō-sin-ō-fil'i-ā), n. [hypo- + cosinophilia.] A diminution in the number of the eosinophilic leucocytes of the

hypo-esophoria (hī*pō-ē-sō-fō'ri-ä), n. [NL., \langle Gr. $i\pi\delta$, under, + $i\sigma\omega$, within, + $-\phi o \rho a$, \langle $-\phi o \rho o c$, \langle $\phi \epsilon \rho \epsilon \iota \nu$, bear.] Inward and downward deviation of the visual axis.

hypoesthetic, hypoæsthetic (hī/pō-es-thet'-ik), a. Same as hypæsthesic. Nature, Oct. 15, 1903, p. 570.

hypo-eutectic (hī/pō-ū-tek'tik), a. Containing more than 0.90 per cent. carbon in the form of ferrite; having an excess of ferrite over the eutectic ratio of 7 to 1: said of steel.

They [steels] are called hyper-entectic or hypo-entectic according as this excess is cementite or ferrite.

Encyc. Brit., XXIX. 572.

more or less cushion-shaped fleshy stromata in which the perithecia are embedded. The spores are hyaline and 2-celled, separating at the septum at maturity. The species are widely distributed and occur mostly on decaying wood.

Hypocreaceæ (hī-pok-rē-ā'sē-ē), n. pl. [NL., \ Hypocreaceæ (hī-pok-rē-ā'sē-ē), n. pl. [NL., \ Hypocreaceæ.] A family of pyrenomycetous fungi coextensive with the order Hypocreales.

hypocreaceaus (hī-pok-rē-ā'shius), a. Pertaining or belonging to the fingus family Hypocreaceæ. See *Hypocreaceæ and *Hypocreaceæ. See *Hypocreaceæ and *Hypocreaceæ a ny pogæic, a. Same as $^{*}aypogetc$. hypogastrale ($h\bar{v}$ pō-gas-trā' \bar{i} ē), n.; pl. hypogastralia (-li-a). [NL., \langle Gr. $v\pi\delta$, under, $+\gamma a\sigma \tau \eta \rho$ ($\gamma a\sigma \tau \rho$ -), belly.] A sponge-spicule whose tangential rays are contained in the

n.; pl. hypogastrodidymi (-mi). [NL., $\langle Gr. i\pi \delta, \text{ under, } + \gamma a \sigma \tau \eta \rho, \text{ belly, } + \delta i \delta \nu \mu o c, \text{ twin.}]$ A twin monster in which the point of union is

is not open to observation. Dana, Manual of Geol. (4th ed.), p. 118.

hypogeic² (hì-pō-jē'ik), a. [hypogæa (see def.) + -ic.] Derived from Arachis hypogæa.

- Hypogeic acid, a colorless compound, C₁₈ H₃₀O₂, said to occur as a glyceride in peanut-oil, Arachis hypogæa, and formed by the oxidation of axic soid. It crystallizes in aggregates of needles melting at 33° C.

hypogenesis (hī-pō-jen'e-sis), n. [NL., \langle Gr. $\nu\pi\delta$, under, $+\gamma\ell\nu\epsilon\sigma\iota\xi$, generation.] That form of reproduction in which the product of each egg or each bud is a single organism like the parent; direct development without alternation of generations, as contrasted with meta-

tion of generations, as contrasted with metagenesis (which see). Encyc. Brit., XXVII. 131.

hypogenetic (hī-pō-jē-net'ik), a. [hypogenesis
(-et-) + -ic.] Of or pertaining to development
by hypogenesis. Encyc. Brit., XXVII. 131.

hypogenic (hī-pō-jen'ik), a. [Gr. iπ6, under,
+ -γενής, -produced, + -ic.] Originating in
the depths of the earth: applied to volcanoes,
earthquakes, and kindred phenomena.

A discussion of the movements along this and other A discussion of the movements atong this and other fault lines in Macedonia, and of changes in level which are apparently in progress at Saloniki and its neighbourhood, leads to the conclusion that hypogenic geological processes have in this part of the world a marked activity.

Nature, Dec. 17, 1903, p. 160.

hypoglobulia (hī'pō-glō-bū'li-ā), n. [NL., \langle Gr. $v\pi\delta$, under, + L. globulus, globule.] A pathological condition in which the blood-cor-

onscles are decreased in number.

Hypohomus ($h\bar{i}$ - $p\bar{o}'h\bar{o}$ -mus), n. [NL., erroneously formed (intended to mean 'not quite uniform') $\langle Gr. \dot{v}\pi \delta$, under, $+ \dot{o}\mu \delta \zeta$, the same.] A genus of darter-fishes of the family Perside, found in the upper Tennessee river.

found in the upper Tennessee river. H. aurantiacus is the common species. **hypohyal** (hi-pō-hī'al), n. [Gr. $\dot{v}\pi\dot{o}$, under, + E. hyal.] In fishes, one of two pairs of hones situated on each side of the anterior end of the hyoid arch. They are attached one above the other to the ceratohyal. Between the superior pair is the glossohyal and between the inferior pair is the urohyal.

hypohyaline (hī-pō-hī'a-lin), α. [Gr. ὑπό, under, + ὑάλινος, of glass.] Partly glassy; semivitreous: noting igneous rocks which are partly glassy, partly crystalline. See *mcrocrystalline.

hypo-inosemia (hī"pō-in-ō-sē'mi-ä), n. [Irreg. hypo-osmious (hī-pō-os'mi-us), a. [hypo-+ (Gr. νπό, under, + iς (gen. ινός), fiber, + alua, osmi-um + -ous.] In chem., a term sometimes blood.] Diminished coagulability of the blood.

hypo-lodite (hi-pṣ-i'ṣ-dit), n. [Gr. $b\pi$ 6, under, + iod(ine) + $-ite^2$.] A salt of hypo-iodous acid. Such a salt seems to be formed by the action of iodine on the solution of an alkali, the solution possessing bleaching power and probably having a composition analogous to that of Javelle water or Labarraque's fluid.

hypo-iodous (hī-pō-ī'ō-dus), a. Noting an acid analogous to hypochlorous acid, which has probably been obtained in solution but is not

known in the pure state.

hypo-ischium (hī-pō-is'ki-um), n.; pl. hypo-ischia (-a). A rod of bone or cartilage which arises between the distal ends of the ischia and is directed backward from the inferior part of the pelvis: found in reptiles.

hypokinesia (hī'pō-ki-nē'si-ā), n. Same as hypokinesis.

hypokinesis (hī'pō-ki-nē'sis), n. [NL., ζ Gr. υπό, under, + κινησις, motion.] Diminished power of movement; muscular weakness. Also hypocinesis, hypokinesia.

hypolemniscus (hī"pō-lem-nis'kus), n. πypolemniscus (ni po-lem-nis kus), n. [Gr. νπολημνίσκος, ζ νπό, under, + λημνίσκος, a hand: see lemniscus.] A critical mark (τ), namely, a lemniscus (+) with a dot below only.
 hypoleucocytosis (hi pō-lū kō-sī-tō sis), n. [NL., < Gr. νπό, under, + leucocyte + -osis.] A diminution in the number of the leucocytes of the blood. See leucocytesis.

hypologism (hī-pol'ō-jizm), n. [Gr. ὑπό, under, + λογισμός, reckoning, calculation.] The relation of four magnitudes when the ratio of the first to the second is less than the ratio of the third to the fourth.

hypomania (hī-pō-mā'ni-ä), n. [Gr. iπ6, under,

pleuroperitoneal cavity of vertebrates arise. hypomnesis (hi-pōm-ne'sis), n. [NL. (cf. Gr. υπόμυνησις, a reminding), ζ Gr. ιπό, under, + μυποις, memory.] Defective memory.

genus of hypocreaceous fungi having the peri-thecia seated upon or embedded in a thiu 2-celled. The species are mostly parasitic upon agaricaeeous fungi. Conidia and chlamydospores are frequently found. II. Lactifluorum occurs on species of Lactarius.

hypomyotonia (hī/pō-mī-ō-tō'ni-ä), n. [NL., Gr. $b\pi \delta$, under, $+ \mu b \zeta$, muscle, $+ \tau \delta v \delta \zeta$, tone.]

Diminished tone in the muscles. hypomyxia (hī-pō-mik'si-ä), n. [NL., \langle Gr. $v\pi b$, under, $+ \mu v \xi a$, mucus.] Diminished sccretion of mucus.

hyponoëtic ($h\bar{\imath}''p\bar{\wp}-n\bar{\wp}-et'ik$), a. [Gr. $i\pi\delta$, under, + νοητικός, ⟨ νόησις, understanding.] In psy-chol., unconsciously logical: opposed to *noëtic or consciously logical.

The conception of "distance between" answers, then, to what we have called a hyponoetic relation, and this is plainly distinct from the analysis of discrete complexes, with which, as said, noetic comparison is alone concerned.

Encyc. Brit., XXXII.64.

hyponomic (hī-pō-nom'ik), a. [hyponome + -ic.] Of or pertaining to the hyponome.—Hyponomic sinus. See *brachial sinuses.

hyponychial (hi-pō-nik'i-al), a. [Gr. $i\pi \delta$, under, $+ \delta v v \xi$ ($\delta v v \chi$ -), nail, + -ial.] Situated be-

neath a nail; subunguial.

hyponychon (hī-pon'i-kon), n.; pl. hyponycha (-kä). [NL., < Gr. iπό, under, + ὁνυξ (ὀνυχ-), nail.] A collection of blood beneath

hyponychum (hī-pon'i-kum), n.; pl. hyponycha (-kä). [NL., $\langle \text{Gr. } i\pi \delta, \text{ under, } + \delta \nu \nu \xi \ (\delta \nu \nu \chi -), \text{ nail.}]$ The nail-hed.

hyponym (hi'pō-nim), u. [Gr. ὑπό, under, + ονομα, ὁνυμα, name.] A systematic name applied to an undetermined group of animals or plants, and thus not fully or finally established.

I have listed 485 names that were proposed between 1753, the first edition of Linnæus's 'Species Plantarum,' and 1821, including the first volume of Fries's 'System Mycologicum.' Of these, 242, or one half, are to be rejected for various reasons. Some are hyponyms, never having been associated with a recognizable binomial species.

Science, March 25, 1904, p. 509.

osmi-um + -ous.] In chem., a term sometimes applied to compounds of osmium in which that metal has the lowest apparent valence: as, hypo-osmious chlorid or osmium dichlorid (OsClo).

hypopal (hi-po'pal), a. [hypopus + -al1.] Pertaining to or resembling the hypopus stage of an acarid. Also spelled hypopial. See Hy-

Hypoparia (hī"pō-pā-rī'ā),-n. pl. [NL., < Gr. υπό, nnder, + παρειά, the cheek.] In Beecher's classification of the trilobites, an order characterized by the cheeks forming a continuous marginal plate in the cephalon and by the absence of compound eyes. It is regarded as the primitive order of the group, and is represented by such genera as Agnostus and Trinucleus.

hypopepsia (hī-pō-pep'si-ä), n. [NL., ⟨Gr. ὑπό, under, + πέψες, digestion.] Weak digestion. hypopepsy (hī/pō-pep-si), n. [NL. hypopep-sia.] Same as *hypopepsia. [NL. hypopep-sia.] Same as *hypopepsia.] Same as *hypopepsia.

hypopeptic (hī-pō-pep'tik), a. Relating to or affected with hypopepsia.

hypophalangia (hī'pō-fā-lan'ji-ā), n. The state or condition of having less than the normal number of phalanges in a digit; contrasted with *hyperphatangism.

In man, a condition of hypophalangia (two-jointed instead of three-jointed digits) is dominant over the normal condition. Pop. Sci. Mo., July, 1905, p. 195.

A diminution in the number of the blood. See leucoeytosis.

hypolithic (hī-pō-lith'ik), a. [Gr. ὑπό, under, + λίθος, stone, + -ie.] In bot., growing under, stones.

**Gr ὑπό. under, bypophare (hī'pō-fār), n. [Gr. ὑπό, under, + φ̄aρος, a web (?).] In the rhagon stage of development of Demospongiæ, the lower region of the body devoid of chambers or pores. Compare *spongopharc. Lankester.

hypophonic (hī-pō-fon'ik), a. Same as *hy-

hypophonous (hĩ-pof'ō-nus), a. [Gr. $i\pi b$, under, + φωνή, sound.] In music, subordinate or gular of hyporadioti.
subsidiary: said of an accompaniment or rehyporadius (hī-pō-rā'di-us), n. The singular of hyporadii. hypomatica (n-po-ma n-a), n. [01, no, thate),
 hypomatica (n-po-ma n-a), n. [01, no, thate),
 hypomatica (n-po-ma n-a), n. [01, no, thate),
 der, + φωνή, sound.] In music, subordinate or substidiary: said of an accompaniment or response.
 hypomere, n. 2. In embryol., the portion of the mesoderm from which the walls of the hypophosphoric (hī/pō-fos-for'ik), a. Noting

an acid, a distinct tetrabasic acid, $H_4P_2O_6$, produced, along with phosphorous and phospheric acids, by the slow oxidation of phospheric acids, and the slow oxidation of phospheric acids, acid, phorus in moist air at ordinary temperatures.

to that deep-seated portion of the earth which is not open to observation. Dana, Manual of Geol. (4th ed.), p. 118.

Hypomyces (hi-pon'i-sēz), n. [NL. (Tulasne, the diaphragm.] Situated below the diaphragm.]

[hypogæa (see [hypogæa (see [hypophys-is + μέκης, fungus.]] A hypophysin (hi-pof'i-sin), n. [hypophys-is + hypophysin (hi-pof'i-sin), n. [hypophysin (hi-pof'i-sin),

hypophysin (hī-pof'i-sin), n. [hypophys-is + -in².] The dried and powdered hypophysis

stroma, and the spores elongate, pointed, and hypoplankton (hi-pô-plangk'ton), n. [Gr. ἐπό, under, + NL. plankton.] Organisms that swim or float in the water immediately above the

bottom, considered collectively and in contrast with those that creep or run over the bottom; the hathybic plankton. See *ptankton, *ben-thos. Nature, Nov. 5, 1903, p. 23.

hypoplanktonic (hī/pō-plangk-ton'ik), a. Of or pertaining to the hypoplankton; floating or

swimming in the water below 100 fathoms.

hypoplasia (hī-pō-plā'si-ā), n. [NL., ζ Gr. iπό, under, + πλάσις, formation.] Deficient growth or atrophy of a part through excessions. sive destruction or defective formation of cells.

hypoplasm (hī'pō-plazm), n. [NL., \langle Gr. $i\pi$ δ, under, $+\pi\lambda \dot{\alpha}\sigma\mu a$, anything formed.] 1. Same as *hypoplasia.—2. Same as hypinosis.

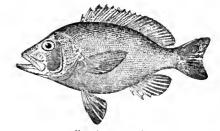
hypoplastic (hī-pō-plas'tik), a. [Gr. $i\pi \delta$, under, $+\pi \lambda a \sigma \tau \delta c$, formed, +-ic.] Relating to or characterized by hypoplasia. Buck, Med. Handbook, I. 140.

hypoplastral, a. II. n. One of the two bones

 nypoplastral, a. 11, n. One of the two bones forming the hypoplastron of turtles. See cut under Chelonia, 1.
 hypoplasty (hī'pō-plas-ti), n. [As hypoplastic + -y³.] Same as *hypoplasia.
 hypoplasy (hī-pop'la-si), n. [NL. *hypoplasia, Gir. vπό, under, + πλάστς, molding.] A pathological process, due to disturbances of any kind, in which cells fail to attain their normal size sumber, or differentiation; hypoplasia. size, number, or differentiation; hypoplasia.

hypoplax (hi'pō-plaks), n. [NL., \langle Gr. $i\pi\delta$, under, $+\pi\lambda a\xi$, a plate.] In the shell structure of the pelecypod mollusk *Pholas* or *Mar*tesia, an accessory platelying ventrally between the valves.

Hypoplectrus (hī-pō-plek'trus), n. [NL., \langle Gr. $i\pi\phi$, under, $+\pi\lambda\bar{\eta}\kappa\tau\rho\sigma\nu$, a striker, spearpoint, spur.] A genus of small bass-like fishes known as vacas in Cuba. The species are numerons in the West Indies, and are subject to extra-The species are



Hypoplectrus unicolor. (From Bulletin 47, U. S. Nat. Museum.)

ordinary variation of color, some of them varying from deep blue to yellow, with or without checkers and stripes of brown or blue. *H. unicolor* is the most important

ity. I. 64.

Hypoprion (hî-pō-pri'on), n. [NL., ⟨Gr. ὑπό, under, + πρίων, saw.] A genns of sharks of the West Indies, of the family Galeidæ, in which the upper teeth only are serrate. brevirostris is the common species.

hypopteral (hī-pop'te-ral), a. [hypopter-on + -all.] Of or relating to the hypopteron or axillary feather-tract.

hypopteron (hi-pop'te-ron), n.; pl. hypoptera (-rä). [NL, \langle Gr. $i\pi i$, ander, $+\pi \tau \epsilon \rho \delta v$, wing.] The linear tract of feathers which runs from the axilla outward, on the under side of a bird's wing.

hypoptyalism (hi-pop-ti'a-lizm), n. [Gr. iπ6, under. + πτίαλον, spittle, + -ism.] Diminished secretion of saliva.

hyporadiolus (hī/pō-rā-dī'ō-lus), n. The sin-

Hyporhamphus (hī-pō-ram'fus), n. [NL., \langle Gr. $\nu\pi\delta$, under, + $\rho\delta\mu\phi\sigma_{\zeta}$, beak.] A genus of halfbeaks, of the family Hemiramphidæ, comprising the commonest American species, H. roberti, and many others.

byposcleral (hī-pō-sklē'ral), a. [Gr. $i\pi\delta$, under, $+\sigma\kappa\rho\rho\sigma$, hard, +al.] Same as subscleratic. hypothermic (hī-pō-thèr'mik), a. [Gr. $i\pi\delta$, under, $+\sigma\kappa\rho\rho\sigma$, hard, +al.] Same as subscleratic. hypothermic (hī-pō-thèr'mik), a. [Gr. $i\pi\delta$, under, $+\theta\epsilon\rho\mu\eta$, heat, $+-i\epsilon$.] Relating to a modern $+\sigma\kappa\rho\sigma\nu$, view.] An attachment for a smallarm consisting of a number of mirrors placed hypothesis, n—Difference, filar, glacial hypothesis n—Difference, filar, glacial hypothesis n—Difference of the properties hypothesis n—Difference of the properties have the same and n and at such angles and in such manner that the piece can be aimed accurately from behind a

breastwork without exposure of the head.

hyposecretion (hī*pō-sē-krē'shon), n. [hypo+ secretion.] Secretion in diminished amount.

hyposoda (hī-pō-sō'dā), n. [hypo- + soda.] A
trade-name for sodium thiosulphate, formerly known as hyposulphite of soda, used by tanners in the processes of mineral tanning with salts of chromium.

hyposphenal, a. II. n. The parasphenoid, a bone in the cranium of fishes which connects the vomer and basioccipital. Starks,

onymy of the Fish Skeleton, p. 512.

Hypostatic pneumonia. See *pneumonia.

hyposternal, a. II. n. The ceratohyal, a bone of the hyoid arch in fishes. Starks; Synonymy of the Fish Skeleton, p. 517.

hypostheniant (hī-pō-sthē'ni-ant), a. [hyposthen-ic+-i-+-ant1.] Reducing the strength or vital force.

hyposthenic (hi-pō-sthen'ik), a. and n. [Gr. $i\pi \delta_0$ under, $+ \sigma \theta i v \delta_0$, strength, + -ie.] I. a. 1. Properly, having an inferior degree of strength. -2. Reducing the strength in general or the force of any vital action, such as the cardiac pulsations.

A debilitating agent, or one that di- n. minishes the force of the heart's action.

hyposthenuria (hi-pos'the-nu'ri-ii), n. [NL., $\langle Gr. \dot{\nu}\pi \dot{\sigma}$, under, $+ \sigma \theta \dot{\epsilon} \nu \sigma \dot{\epsilon}$, strength, $+ \dot{\sigma} \dot{\epsilon} \rho \sigma \dot{\epsilon}$, urine.] Suppression, partial or complete, of the urinary excretion.

Hypostomata, n. pl. 4. A superclass of extinct, fish-like vertebrates, the Ostracodermi of Cope and other writers: contrasted with Cyclostomata, the lampreys, and Gnathostomata, vertebrates with true jaws. They have no true limbs, and no jaws; the vertebral column is acentrous and the dermal skeleton greatly developed. Gadow.

hypostomial (hī-pō-stō'mi-al), a. [hypostoma

Hypostomiae (hī*pō*stō ini*ni, ta. [nppostoma. + i-al¹.] Of or pertaining to the hypostoma. Proc. Zool. Soc. London, 1902, II. 177.

Hypostomiae (hī*pō-stō-mī'nē), n. pl. [NL., < Ilypostomus + inæ.] A subfamily of small mailed catfishes of the rivers of South Ameriea, typified by the genus Hypostomus.

hypostracum (hī-pos'tra-kum), n. [Gr. ἐπό, under, + ὁστρακον, a shell.] The third layer of the integnment of mites, lying under the eetostraeum. Jour. Roy. Micros. Soc., April, 1903,

hypostroma (hī-pō-strō'mä), n. [Gr. $v\pi\delta$, uu-

hyposulphite, n.—Alkaline hyposulphite, a compound obtained by the action of hyposulphitrons acid on the alkaline bases, as sodium hyposulphite.—Hyposulphite silver-extraction process. See *silver.

hypotension (hī-pō-ten'shon), n. [Gr. $i\pi \delta$,

nypotension (m-po-ten snon), n. [Gr. vxo, under, + E. tension.] Diminished tension. hypotetrarch (hi-po-tet rärk), n. [hypo- + tetrarch.] In bot., a triarch stele in which the protoxylem of the median strand is divided. hypoth. An abbreviation (a) of hypothesis;

| An above vaction (a) of appointers | End, and the position of hypothetical. | Find the properties | Find th

hypothecal (hī-pō-thē'kal), a. [Gr. tπό, under, + θίκη, ease (test), + -al¹. In def. 2, < hypotheca + -al¹.] 1. Situated beneath or within the test, as the radial water-tubes of echinoids. Compare *epithecal, 2.-2. Of or pertaining to the hypotheea of a diatom.

Hypotheria (hī-pō-thē'ri-ii), n. pl. [NL., \langle Gr. $v\pi \delta$, under, $+ \theta \eta \rho i \sigma v$, beast.] The hypothetical but probable ancestors of the Mammalia: small animals combining the characters of reptiles and mammals and closely related to the Ano-

It is true that no small forms . . . have hitherto been discovered which can be regarded as ancestral types of the Mammalia (*Hypotheria* or Promsumalia).

Encyc. Brit., XXX. 505,

hypothermal (hī-pō-ther'mal), a. [Gr. $i\pi\delta$, under, + $\theta\epsilon\rho\mu\eta$, heat, + $-al^{1}$.] Same as $\star hypo$ thermic.

hyposarca (hī-pō-sār'kā), n. [NL., ⟨Gr. iπδ, under, + σάρξ (σάρλ-), liesh.] Excessive edema of the skin and subcutaneous tissues.

hyposcleral (hī-pō-skēr'gal). a. [Gr. iπδ, under, + θέρμη, heat.] A condition of reduced temperature, especially of animal heat.

hyposcleral (hī-pō-skēr'gal). a. [Gr. iπδ, under, + θέρμη, heat, - ie.] Relating to a modhyposcope (hi'pō-skōp), n. [Gr. iπδ, under, + θέρμη, heat, + -ie.] Relating to a modhyposcope (hi'pō-skōp), n. [Gr. iπδ, under, - iπδ, under,

erate or lower temperature; having a tendency to reduce the temperature.

hypothesis, n.—Difference, flar, glacial hypothesis, be *difference, etc.—Metooritic hypothesis, the theory (of late specially elaborated, though not originated, by Sir Norman Lockyer), that the nebulæ consist of swarms of meteorites, and that stars and systems have been formed by the slow aggregation of these bodies. It is in contrast with the nebulæ hypothesis of Laplace, which presupposed an original mass of heated gas. Professor George Darwin has shown that in the long run such a meteoritic assemblage would behave in most respects like a gaseous mass contracting under its own gravitation, first rising in temperature to a maximum and then cooling after solidification. According to the meteoritic hypothesis the light of nebulæ is explained by the collisions between the meteors, and the bright lines that characterize the distinctly gaseous spectra of many nebulæ are attributed to gases liberated from the meteors themselves by these collisions, possibly illuminated by electric discharges, no general high temperature of the nebula being required. The theory finds plausible applications in explaining the phenomena of temporary (nove) and variable stars, as due to the encounter of two or more such meteoritic clouds.—Planetesimal hypothesis, see *hplanetesimal. Prout's hypothesis, in phys. chem., the hypothesis, put forward by William Prout in 1875 and 1816, that the atomic weights of the elements are multiples by whole numbers of the atomic weight of hydrogen—from which follows an obvious suggestion as to the relation of different elements to each other. It was shown that chlorin by no means agrees with the hypothesis, and the hypothesis was modified so as to assert that stonic weights are integral multiples of the lalf or of the fourthpart of the atomic weight of hydrogen; this experimentation has disproved. It is possible to put smaller and smaller fractions in place of one half and one fourth, but the point is quickly reached where exper bility and solidity, and that against these as huttresses, the remainder were crowded in the contraction of the globe.— Working hypothesis, a hypothesis suggested or supported in some measure by features of observed facts, from which consequences may be deduced which can be tested by experiment and special observations, and which it is proposed to subject to an extended course of such investigation, with the hope that, even should the hypothesis thus be overthrown, such research may lead to a tenable theory.

hypothesize, v. II. trans. To assume as a hypothesis.

This anatomical relation is the basis of the "avalanche conduction" hypothesized by Ramón y Cajal.

Buck, Med. Handbook, II. 334.

Buck, Med. Handbook, II. 334.

hypsicranial (hip-si-krā'ni-al), a. [Gr. tw-.]

hypothyroidism (hī-pō-thī'roi-dizm), n. [Gr. $i\pi \delta$. under. + E. thyroid + -ism.] A patho $i\pi\delta$, under, + E. thyroid + -ism.] A pathological condition in which there is diminished

body in general.

body in general.

hypotonic (hī-pō-ton'ik), a. [Gr. iπδ, under, + τόνος, tone, + -ic.] 1. Less than isotonic; hypsilophodontoid (hip-si-lof-ō-don'toid), a.

[Hypsilophodon(t-) + -oid.] Having relations

[Hypsilophodon(t-) + wortilian genus Hunsilophodon. specifically, noting a solution of salt when it contains a smaller amount than a second sospecifically, noting a solution of safe when it [Hypsitophotonic] is contains a smaller amount than a second solution with which it is compared: applied in hypsistegoid (hip-sis'tē-goid), a. [Gr. $t\psi\iota$ -, this sense to the blood-serum. Also hypisotonic. high, $+\sigma\tau\dot{\epsilon}\gamma\eta$, roof, $+\epsilon\dot{\iota}\delta\sigma$, form.] In anthrop., high and roof-shaped: said of a granium. G.

hypotrichosis (hī" pō-tri-kō'sis), n. [NL., \langle Gr. $i\pi\theta$, under, $+\theta\rho$ / ξ ($\tau\rho$ (χ -), hair, + -osis.] De-

hypotrophy (hi-pot'rō-fi), n. [Gr. $i\pi\delta$, under, $+\tau\rho\phi\phi$, nourishment.] 1. Same as atrophy. —2. An abnormal state due to defective nu-

 $nadic + -atc^1$.] A compound of hypovanadic oxid or vanadium tetroxid, V_2O_4 , with a more strongly electropositive metallic oxid.

hypovanadious (hī"pō-vā-nā'di-us), a. [Gr. νπό, under, + Ε. vanadious.] Containing less oxygen than a vanadious empound.—Hypovanadious oxid, vanadium dioxid, V₂O₂ or VO, which forms with acids hypovanadious salts.

hypozygal (hi-pō-zi'gal), a. [Gr. iπό, under, + ζυγόν, yoke.] Noting the lower and non-pinnuliferous joint in the arm of a erinoid pinnuliferous joint in the arm of a crinoid when the arms consist of alternating joints, one with and one without a pinnule: the upper is the *cpizygal*. Each pair constitutes morphologically but one joint, and the suture between them is a syzygy.

Hypsagonus (hip-sag'ō-nus), n. [NL., ⟨ Gr. vψ, high, + NL. Agonus.] A genus of seapoachers or Agonidæ found in the North Pacific.

Pacific.

hypsalograph (hip-sal' δ -graf), n. [Gr. $i\psi o \varsigma$, height, $+ \hat{a} \lambda \varsigma$, sea, $+ \gamma \rho \hat{a} \phi \epsilon \iota \nu$, write.] An apparatus for automatically recording the varying height of the ocean.

hypselodont (hip-sel'ō-dont), α. [Gr. ὑψηλός, high, + ὁδοίς (ὁδοντ-), tooth.] Having teeth with long crowns and short roots: an amended form of hypsodont. Proc. Zool. Soc. London, 1897, p. 699

hypselodonty (hip-sel'ō-don-ti), n. [hypselo-dont + -y³: an amended form of hypsodonty.]

The fact or condition of having teeth with long erowns and short roots. Proc. Zool. Soc. London, 1902, II. 229.

hypsibrachycephalous (hip-si-brak-i-sef'a-

lus), a. Same as hypsibrachycephalic. hypsicephalic, a. 2. Having a doliehoeephalic high skull, with high forehead. Aitken Meigs.

hypsicephalous (hip-si-sef'a-lus), α. [Gr. iψι-, high, + κεφαλή, head, + -ous.] Same as προιουριαίους (mip-si-sei a-ius), α. [Gr. ψψ., high, + κεφαλή, head, + -ous.] Same as *hypsiconchic (hip-si-kong'kik), α. Same as *hypsiconchous.

hypsiconchous (hip-si-kong'kus), a. [Gr. iψι-, high, + κόγχη, shell.] In anthrop., having an orbital index exceeding 85. See megaseme.
hypsiconchy (hip-si-kong'ki), n. [hypsiconch-(ous) + -y³.] The quality or condition of being hypsiconehous. Biometrika, March-July, 1904,

high, $+\kappa\rho x\nu iov$, skull, $+-al^{1}$.] In anthrop., eharacterized by or exhibiting a skull of more than middle height. Biometrika, March-July, 1904,

II. a. Of or pertaining to the Hypsilophodon-

the body in general.

hypotonus (hi-pō-tō'nus), n. [NL.] A less proper form for ★hypotonia.

| National Relationary Continues and the farmation of the Human Species, p. 53.
| hypotonia (hip-sis"ten-ō-se-fal'ik), a. [Gr. iψ-, high, + στενός, narrow, + κεφαλή, a. [Gr. iψ-, high, + στενός, narrow, + κεφαλή, head.] In anthrop., characterized by great height combined with narrowness: said of Keane, Man Past and

The third trochanter is almost always accompanied by a hypotrochoidal (hī-pot'rō-koi-dal), a. [hypot-rochoid + -all.] Like or pertaining to a hypotrochoid.

hypotrochoid. America. It differs from Blennius in having no canine teeth. H. hentzi is common on the South Atlantic coast.

of the earth's surface: as, a hypsographic map, one showing by contour-lines, or other symbols, the relative elevation of the different portions of the territory mapped. See hypsography. Amer. Geol., Aug., 1903, p. 79

hypsometrist (hip-som'e-trist), n. One who practises hypsometry, or measures the altitude of the land above the sea-level, or who illustrates the earth's relief by models or maps. Sci. Amer. Sup., Jan. 1, 1898, p. 18354.

sci. Amer. Sup., Jan. 1, 1898, p. 18394.

hypsometry, n.—Barometric hypsometry, the art of determining the altitude above or below sea-level by the use of the barometer. The rough method known to Torricelli and his followers was perfected by the construction of the proper hypsometric formula, expressing the relation between pressure and altitude, by Laplace, and by the use of the accurate Fortin barometer. Modern improvements have been due to Angot's study of the effect of the variation of gravity and of atmospheric temperature and to the gradient correction given by the daily weather-maps.

hypsometry, the science of the state of the state of the state of the science of the state of the science of the science of the state of the science of the s

hypsophobia (hip-sō-fō'bi-ä), n. height, + - $\phi \circ \beta ia$, $\langle \phi \circ \beta \varepsilon iv$, fear.] fear of great heights.

 Hypsophyllous (hip-sof 1-lus), α. [appsofmyt + -ous.] Same as hypsophyllary.
 Hypsopsetta (hip-sop-set'ā). n. [NL.. ⟨ Gr. vψο-, vψι-, high, + ψητα, a flatfish.] A genus of small flounders, of the family Pleuroncetidæ, having the teeth in more than one row: found on the coast of California. H. guttulata is the common species.

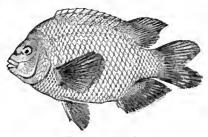
hypsothermometer (hip/so-ther-mom'e-ter), n. Same as hypsometer.

It was first discovered by the hypso-thermometer, which shewed to Bogdanovich the quite unexpected temperature of boiling water, 212.63° Fahr.

Geog. Jour. (R. G. S.), IX. 552.

Hypsurus (hip-sū'rus), $n.[NL., \langle Gr. \dot{v}\psi$ -, high, + ovpá, tail.] Agenus of surf-fishes of the family Embiotocidæ, remarkable for their brilliant red and blue colors, and for the elongation of the body-cavity: found on the coast of California. H. caryi is the common species.

Hypsypops (hip'si-pops), n. [NL., orig. Hypsi-pops (Gill, 1861), irreg. \langle Gr. $\dot{\nu}\psi$., high. $+\dot{\nu}\pi\dot{\sigma}$, below, $+\ddot{\omega}\psi$ ($\dot{\omega}\pi$ -), face.] A genus of damsel-



Hypsypops rubicunda. (From Bulletin 47, U. S. Nat. Museum.)

fishes of the family Pomacentridæ, remarkable for their relatively large size and brilliant coloration *H. rubicunda* is the garibaldi of the coast of California. When full grown it is of a uniform bright scarlet.

hypural, a. II. n. In iehth., the bone which supports the caudal fin. Starks, Synonymy of

the Fish Skeleton, p. 526. hyracodontid (hī-rak-ō-don'tid), n. and a. I.

n. A member of the family Hyracodontidæ.

II. a. Of or pertaining to the Hyracodontidæ.

hyracodontoid (hi-rak-ō-don'toid), n. and a. I. n. A mammal like Hyracodon.
II. a. Having the characters of Hyracodon.

Hyracoidea, n. pl. Thirty-two species and subspecies of this order are now recognized, all placed in the genus Procasia (Storr, 1780), this name antedating Hyrax by three years. A fossil species, Pliohyrax kruppii, has been described from the Pliocene of Greece and the Isle of Samos, and Archwehyrax, from the Moenen of Patagonia, kas been assigned to this group.

Hyrcanian (hér-kā'ni-an), u. Of or pertaining to the ancient Hyrcania in Asia. Shak., Hamlat ii. 2

Hyrcanian (hér-kā'ni-an), u. Of or pertaining to the ancient Hyrcania in Asia. Shak., Hamlat ii. 2

Hysteriac (his-tē'ri-ak), n. [hysteri-a + -ac.]

A hysteriac (his-tē-ri-ā'sē-ē), n. pl. [NL., <
Hysteriaceæ (his-tō-ri-ā'sē-ē), n. pl. [NL., <

let. ii. 2.

hyssop, n. 4. In the western United States sage-brush, Artemisia. [Only in old writings.] Sage-brush, Artemson. [Only in our writings-]. N. E. D.—Anise-byssop, the fragrant giant hyssop, Agastache anethiodora.—Giant hyssop, any plant of the lablate genus Agastache, especially A. anethiodora, sometimes distinguished as fragrant giant hyssop. It is native to the western plains of the United States. A. nepeticides and A. scrophularizefolia of the eastern United States are called respectively catnip and figurat giant hussop.

Hystatoceras (his-ta-tos'e-ras), n. [NL., \langle Gr. iστατος, the hindmost, + κέρας, horn (used as a generic termination in fossil Cephalopada).] A genus of ammonoid Cephalopoda, or ammonites, characterized by compressed, smooth,

hypsographical (hip-sō-graf'i-kal), a. Same hystazarin (his-taz'a-rin), n. An orange-yel-as *hypsographic.

Hypsometric formula. See *formula.

hypsometrist (hip-som'e-trist), n. One who

pared from pyrocatechol and phthalic anhydrid. It erystallizes in slender needles, melts at 260° C., and, in the form of its monomethyl ether, occurs in the root of Oldenlandia umbellata. Also called diohydroxy-anthraquinone.

Hysterangiaceæ (his-te-rau-ji-ā'sē-ē), n. pl. [NL., < Hysterangium + -aceæ.] A family of subterranean gasteromyeetous fungi named from the genus Hysterangium.

Hysterangium (his-te-ran'ji-um), n. [NL.(Vittadini, 1831), so called in allusion to the form of the sporocarp; $\langle \operatorname{Gr}.i\sigma\tau\epsilon\rho a, \operatorname{uterus}, + a\gamma\gamma\epsilon\iota\sigma\nu,$ vessel. A genus of subterranean gasteromycetous fungi which have the peridium separable from the gleba.

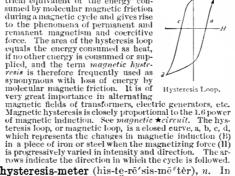
A morbid hysterectomy, n.—Casarean hysterectomy. Same as Porro's operation (which see, under operation).

hypsophyllous (hip-sof'i-lus), a. [hypsophyl hysteresial (his-te-re'si-al), a. [hysteresis + -al¹.] Same as ★hysteretic.

hysteresic (his-te-re'sik), a. Same as *hyste-

retie.

hysteresis, n.—Dielectric or electrostatic hysteresis, the loss of energy in an electrostatic condenser with an alternating electromotive force.—Elastic hysteresis, an effect, analogous to magnetic hysteresis in iron, observed in the relation of strain to stress when the stress to which an elastic body is subjected is alternately increased and diminished.—Electrolytic hysteresis, the loss of energy in a polarization-cell traversed by an alternating current.—Hysteresis coefficient. See *coefficient.—Hysteresis loop. See magnetic hysteresis, the lag of magnetic thus behind the magnetomotive force which is the electrical equivalent of the energy consumed by molecular magnetic friction during a magnetic cycle and gives rise



hysteresis-meter (his-te-re'sis-me"ter), n. 111 μος, ματό, as *hysteragenetic. as *hysteragenetic. hysterogenite (his-te-roj'e-nīt), n. [Gr. of a spindle by means of which the sample may he noles of a suspended has the hysteresis-meter (his-te-rē'sis-mē"ter), n. In

hysteresis-receiver (his-te-re'sis-re-se'ver), n.
In wireless teleg., a magnetic receiver which
depends for its action upon hysteresis in iron.
hysterestic (his-te-res'tik), a. Same as *hysteretic

[NL. (Corda, 1842), < Hysterium + graphium.]
A genus of a seomyeetous fungi of the family

[NL. (Lorda, 1842), < Hysterium + graphium.]

[NL. (Lorda, 1842), < Hysterium + graphium.]

[NL. (Lorda, 1842), < Hysterium + graphium.]

hysteretic (his-le-ret'ik), a. [hysteresis (-et-) -ic.] Pertaining to or exhibiting hysteresis.

Hysteretic coefficient. Same as hysteresis *coefficient.—Hysteretic constant, a constant which defines quantitatively the property of a sample of iron or steel as regards hysteresis.—Hysteretic cycle, the cycle of operations, consisting of magnetization in the + direction, demagnetization, magnetization in the reversed or — direction, and demagnetization, which makes up the hysteresis hyperature. hysteresis loop

A hysterical person.

Hysteriaceæ (his-tē-ri-ā'sē-ē), n. pl. [NL., \langle Hysterium + -aceæ.] Same as Hysterineæ, of which it is the proper form.

Hysteriales (his-te-ri-a'lez), n. pl. [NL., < Hysterium + -ales.] An order of ascomycetous

terographium. hysteric¹, n. 2. A hysteric person; one who suffers from hysteria.

keeled young shells and costate, unkeeled later hysteric² (his-ter'ik), a. Same as *hysteretic. volutions. hysterical breast, a circumscribed swelling of the

-ism.] The group of symptoms recognized as hysterical.

Hysteriineæ (his-tē-ri-ī'nē-ē), n. pl. [NL., < Hysterium + -ineæ.] Same as *Hysteriales. hysterism (his'te-rizm), n. [hyster(ic) + -ism.] The hysterical state; hysteria. Amer. Jour.

Psychol., 11, 593.

hysterocarcinoma (his#te-rō-kür-si-nō'mä), n.;

husterocarcinomata (-ma-tä). [NL., < Gr. pl. hysterocareinomata (-ma-tü). [NL., ζ Gr. ιστέρα, uterus, + καρκίνωμα, cancer.] Cancer of the uterus.

Hysterocarpinæ (his*te-rö-kär-pī'nē), n. pl. [NL., \langle Hysterocarpus \(\daggerap - inw. \] A subfamily of the Embiotocidæ typified by the genus Hysterocarpus.

terocarpus. Hysterocarpus (his"te-rō-kär'pus), n. [NL., \langle Gr. $i\sigma\tau\ell\rho a$, uterus, $+\kappa a\rho\pi\delta c$, fruit.] A genus of fishes of the family *Embiotocidæ*. It differs from all American surf-fishes in the very large number of its dorsal spines, and in its exclusively fresh-water labitat. II. traski is found in the tributaries of San Francisco bay. Like the marine species, it is viviparous, the young being about an inch long when born.

young being about an inch long when born.

hysterocrystallization (his*te-rō-kris*ta-li-zā'shen), n. [Gr. ὑστερος, later, + E. crystal-lization.] Secondary crystallization in formerly compact rocks through the chemical action of aqueous solutions. Naumann, 1858.

hysterocystic (his*te-rō-sis*tik), a. [Gr. ὑστέρα, uterus, + κύστις, bladder, + -ic.] Relating to both the uterus and the bladder.

hystero-epileptic, a. II. n. One who suffers from hystero-epilepsy. Buck, Med. Handbook, IV. 833.

hysterogen (his'te-rō-jen), α. [Gr. νστερος, later, + -γννης, -produced.] Same as *hysterogenetic.

hysterogenetic (his te-rō-jē-netik), a. [Gr. νστερος, later, + γέτεσα, genesis, + -ic.] Of later origin or formation; in petrog., noting that part of an igneous rock which crystallizes last in the process of solidification of the molten magma. The term is applicable to the quartz and orthoclase in a diorite which crystallized after the plagioclase and ferromagnesian minerals. It also applies to contemporary vehis of like composition that cut diorite masses, to many pegmatite veins, and to certain kinds of schlieren. Zirkel, 1868.

hysterogenic² (his"te-rō-jen'ik), a. [Gr. νστε-ρος, later, + -γενης, -produced, + -ic.] Same as *hysterogenetic.

tion, that is, one derived from the debris of other rocks. Compare *idiagenite and *xeno-

Hysteriaeeæ. They have black carbonaceous ascomata with a longitudinal opening and colored nuriform spores. About 70 species have been described. II. Fraxini occurs frequently on dead or dying branches of ssh.

+ -ic.] Pertaining to or exmediate the hysteretic effects of previous magnetization, . . . it [the metal] may be demagnetized by reversal.

Encyc. Brit., XXX. 433.

Encyc. Brit., XXX. 433.

Encyc. Brit., XXX. 433.

Encyc. Brit., XXX. 433.

No expection of the uterus through an in-

reision mado in the abdominal wall. **hysterolith** (his te-rō-lith), n. [Gr. $i\sigma\tau\epsilon\rho a$, uterns, $+\lambda i\theta\sigma\epsilon$, stone.] A concretion within the eavity of the uterus.

hysteromalacia (his"te-rō-ma-lā'si-ä), n. [Gr. ίστέρα, uterus, + μαλακία, sottness.] S. ftening of the uterus, especially the pregnant uterus. hysterometry (his-te-rom'e-tri), n. [Gr. $v\sigma au
ho
ho$, uterus, $+ \mu \ell au
ho
ho au$, measure.] Measurement of the uterus.

hysteromorphous (his "te-rō-môr'fus), a. [Gr. ιστερος, later, +μορφή, form.] In petrog., noting those ore-deposits which have been formed by chemical and mechanical influences from previously existing deposits.

which it is the proper form.

Hysteriales (his-tē-ri-ā'lēz), n. pl. [NL., < hysteromyoma (his*te-rō-mī-ō'mā), n.; pl. hysterium + -ales.] An order of ascomycetous fungi having the ascomata clongate or boatshaped, closed at first, but finally opening by a longitudinal slit. See Hysterium and *Hysteromyoma hysteromyoma + Gr. ἐκτομή, exterographium.

Hysteromyoma + Gr. ἐκτομή, exterographium. hysteroncus (his-te-rong'kus), n. [NL. ζ Gr. νοτέρα, uterus, + δγκος, a mass.] A tumor of the uterus.

And sgain, the murder with an apparently sufficient motive, may be nothing more after all than the work of a maniae, epileptic, hysteric, etc.

Smithsonian Rep., 1890, p. 657. meurasthenia.] A condition in which the sympni'a), n. [NL., ζ Gr. ὐστέρα, uterus, + NL. neurasthenia.] A condition in which the symptoms of hysteria and of neurasthenia are both present.

hysteroneurosis (his te-rō-nū-rō'sis), n. [NL., ζ (r. iστέρα, uterus, + νεῖρον, nerve, + -osis.]

A nervous disorder occurring as a reflex in disease of the uterus.

hystero-oöphorectomy (his te-rō-ō'ō-rōk'-rok'-tō-mi), n. [Gr. iστερα, nterus. + Ε. oöphorectomy.]

Surgieal removal of the uterus and ovaries.

hystero-ovariotomy (his te-rō-ō-va ri-ot'ō-of the womb.

hystero-ovariotomy (his te-rō-ō-va ri-ot'ō-of the womb.)

hysteroneurosis (his te-rō-ō-is), n. [NL., ceous plant which does not elaborate its own nourishment, that is, a saprophyte or parasite: hystero-phytic (his te-rō-fit'ik), a. [hystero-phytic (his te-rō-fit'ik), a. [hy

terior abdominal wall for the relief of prolapse.

ovaries.
hystero-ovariotomy (his te-rō-ō-vā ri-ot'ō-mi). n. Same as *hystero-ōpath'ik), a. [hysteropathic (his te-rō-path'ik), a. [hysteropathy + -ic.] Suffering from a disease of the uterus. Alien. and Neurol., Feb., 1903, p. 72.
hysteropathy (his-te-rop'a-thi), n. [Gr. hysteropathy (his-te-rop'a-thi), n. [Gr. hysterorrhexis (his te-rō-rek'sis), n. [NL., toτέρα, uterus, + -παθια, <πάθος, disease.] Uterine disease.

Vis. 10-1 km/2α

Vis. 10-1 km/2α

Vis. 10-1 km/2α, uterus, + paφή, sewing.] 1. Same as *hysteropathy (his-te-rō-rek'sis), n. [NL., toτέρα, uterus, + physterorrhexis (his te-rō-rek'sis), n. [NL., toτέρα, uterus, + physteropathy (his-te-ro-rek'sis), n hysterorrhaphy (his-te-ror'a-fi), n. [Gr. Hythe beds. See *bed1.

νστέρα, uterus, + ἡαδή, sewing.] 1. Same as hyther (hi'thèr), n. [hy(grometer) + ther*hysteropexy.—2. The closing of a wound in the uterus by sutures.

(Mometer).] A line of equal comfort or diseomfort so far as our sensations depend upon the uterus by sutures.

hysteropexy (his'te-rō-pek-si), n. [Gr. $i\sigma\tau\ell\rho a$, hysterotraumatic (his'te-rō-trâ-mat'ik), a. uterus, $+\pi\eta\bar{\xi}\iota g$, fasteniug.] Operative fixation of the fundus of the uterus to the an-Relating to or suffering from hysterotraumatic (his'te-rō-trâ-mat'ik), a. Relating to or suffering from hysterotraumatic (his'te-rō-trâ-mat'ik), a. Relating to or suffering from hysterotraumatic (his'te-rō-trâ-mat'ik), a. tism.

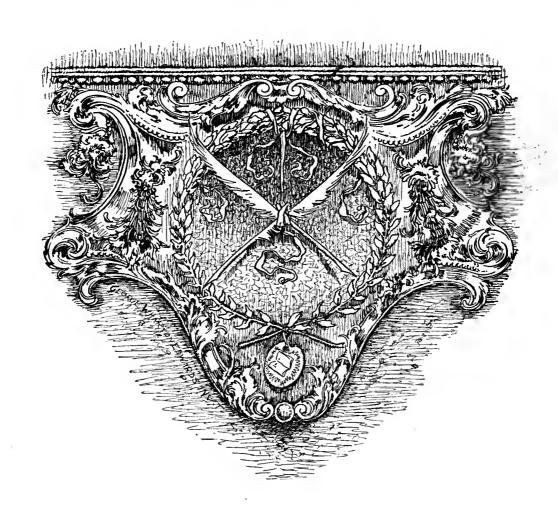
hvsterophyte. n. 2. In phytogeog., a herba- hysterotraumatism (his te-rō-trâ ma-tizm),

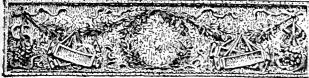
Hythe beds. See $\star bed^1$.

the conditions indicated by the hygrometer and the thermometer. See the extract.

But one generalization seems to be allowable, namely, that the lines of equal comfort, or the zones of hythers, all run in approximately parallel directions, showing that the law governing the relation of humidity to temperature is similar in all cases.

W. F. Tyler, in U. S. Monthly Weather Rev., May 1904, 19, 217











2. (d) The usual symbol for the moment of inertia. (e) In elect., a symbol for eurrent. (f) In math.: (1) The symbol (i or i) for the neomon, the square root of minus one $(\sqrt{-1}, (-1)^{\frac{1}{2}})$. (2) In quaternions, the symbols k denote a system of

i, j, k denote a system of three right versors in three mutually rectangular planes; thus i is a particular quaternion having for its amplitude one right angle. (g) In chem., i- before certain compounds has ref-In chem., i- before certain compounds has reference to their inaction as distinguished from dextro-rotation (d-) or levorotation (l-).—3. An abbreviation (d) [cap.] of Idaho; (e) [cap.] abbreviation (d) [eap.] of Idaho; (e) [eap.] of the Latin Imperator, emperor; (f) [eap.] of Island; (g) of intransitive.

Island; (g) of intransitive.

-i¹ (-ī, or as L., -ē). [L -ī (whence It. -i), OL.
-ei, -e, -oe, -oi (-eis, -ēs, -īs) = Gr. -oi = Skt.
-ās = Goth. -ōs = AS. -as, E. -es, -s, etc., IndoEur. -ōs, -ās, contracted from *-o-es, *-a-es.
The original ending -s, which appears in other
Latin and Greek declensions, was lost in the
second declension through conformity to consecond declension through conformity to certain accompanying pronominal and adjective forms (L. isti, illi, Gr. ol, etc.).] A nominative plural ending of Latin masculine nouns and adjectives of the 'second' declension, with nominative singular in -us, or without many of which have come into English suffix, many of which have come into English use, literary or technical. Examples are acini, eyathi, denarii, foci, genii, hippopotami, illuanianti, literati, loci, ocelli, radii, Galli, Iberi, Chatti, etc. In some instances there is also a regular English plural in es after the ending -us, as focuses, geniuses, hippopotamuses, etc. This plural suffix appears in many classnames in zoology and botany which are plurals of individual or generic names in -us which are less often used in the singular. Examples are Acanthopterygii, Chondropterygii (sc. pisces, fish), Acrocarpi (sc. musci, nosses), etc. See also -ini, etc.
-i² (ð). [It. -i, ⟨ L. -i : see ★-i¹.] A nominative plural suffix of Italian nouns sometimes used

plural suffix of Italian nouns sometimes used in English, as banditti, dilettanti, lazzaroni,

scudi, soprani, etc.

**scatat, soprant, etc.
-i3 (-i, or as L., -ē). [L.-i = O Celtie -i, of different origin from Gr. -ov, etc., and L. -is
(**-es-is, > -er-is, etc.), AS. -es, Eng. -es, s, 's.]

The ending of some Latin genitives singular of nouns and adjectives of the second declension, occurring in some ancient, medieval or modern Latin phrases used in English, as genius loci, lapis lazuli, quid novi, etc.

Ia. An abbrevation of Iowa.

iambist (i-am'bist), n. [iamb + -ist.] A writer of iambie verse; hence, a satirist; a lampooner. See iambus.

With a malignity of personal slander not inferior to the ambist Archilochus. Grate, Greece, VIII. ii. 67. Iambist Archilochus.

Ianassa (î-a-nas'ä), n. [NL., < Gr. 'lávaooa, a name of a Nereid.] A genus of extinct fishes ibex, n.—Abyssinian ibex, Copra walie, a rare species of the family Petalodontidæ, having a body shaped like a ray, with shagreen skin and the dentition consisting of payement teeth arshaped like a ray, with shagreen skin and the dentition consisting of pavement teeth arranged in longitudinal rows, each tooth over-lapping the next in front. It is from the Carboniferous rocks in various parts of the world.

ianthine (i-an'thin), a. [L. ianthinus, < Gr. iaνθινος, of the color of violets, < iaνθος, iaνθον, a violet, < iον, violet, + aνθος, flower.] Violet-

a violet, <i tov, violet, + ἀνθος, flower.] Violetcolored. Treas. Bot., p. 616. N. E. D.
iatrarchy (i'ā-trär-ki), n. [Gr. ἰατρός, physician,
+ -αρχια, < ἀρχειν, rule.] The order or profession of physicians. N. E. D. [None-word.]

The chiefs of the Hierarchy, the Interaction of the Int

iatrochemistry (ī-ā "trō-kem'is-tri), n. [Gr. iaτοόc. physician. + E. chemistry.] The chemiarpoc, physician, + E. chemistry.] The chemistry of the sixteenth and first half of the seventeenth centuries. In that period the substitution of remedies prepared by artificial chemical processes for the roots and herbs of earlier medicine greatly changed the practice of that art, while, on the other hand, medical or medicophysiological theories to a great extent stimulated and guided chemical investigation. Among the more prominent latrochemists were Paracelsus, Libavius, Van Helmont, Sylvius, Tachenius, and Glauber.

It is difficult to realize at the present time how the introchemistry developed and flourished as long as it did.

Science, July, 1904, p. 2.

iatromathematics (ī-ā"trō-math-ē-mat'iks), n. [Gr. iaτρός, physician, + μαθηματικά, mathematics.] Same as *iatrophysics.

iatrophysics (i-ā-trō-fiz'iks), n. [Gr. iaτρός, physician, + φυσικά, physics.] The theory and practice of the iatrophysical school of physicians are produced in the interphysical school of physical school of

the Ibanag language.

I-bar (i'bar), n. 1. A metal bar having a crosssection like the capital letter I.-2. A mistaken

spelling for eye-bar.

Iberian¹. I. a. 3. In anthrop., of or pertaining to the doliehocephalic dark type inhabiting the greater part of southern Europe and parts of northern Africa. Also called Mediterranean. It comprises the Ibero-insular and Atlanto-

Iberian², a. II. n. An inhabitant of Iberia, a country of ancient Asia corresponding to

Iberianism (ī-bē'ri-an-izm), n. under one crown, with the ancient name of Iberia. Lit. World, Oct. 3, 1880, p. 234.

Theric (i-ber'ik), a. and n. [L. Iberieus, < Gr. Τβηρικός, < Ίβηρες, lberians.] Same as Iberian1.

This form of construction seems to be quite typical in the Iberic West.

A. J. Evans, in Johr. Hellenic Studies, XXI. 187.

Iberism (i'ber-izm), n. [Iberia, ancient name of the Spanish peninsula, + -ism.] Teiples of the Iberists; Iberianism.

[berist (i'ber-ist), n. [Iberia + -ist.]

Iberist (î'bêr-ist), n. vocate of the political union of Spain and Portugal.

Iberite² (ī'ber-īt), n. [Iberia + - ite².] An advocate of Iberianism.

Ibero-Celtic (ī-bē"rō-sel'tik), a. Iberian and Celtic. Keane, Ethnology, p. 201.

Ibero-Celto-Teutonic (i-bē"rō-sel"tō-tū-ton'-

ik), a. Iberian, Celtie, and Tentonie. Keane, Ethnology, p. 201.

Ibero-insular (î-bē rō-in sū-lār), a. ing Sicily, characterized by short stature, long placial period. Lyell.
heads, tawny white skin, and black hair. Denileer, Races of Man, p. 285.

glacial period. Lyell.
ice-breaker, n. 4. A hand- or power-machine for breaking ice into small fragments for

much compressed horns with the knobs at Irregular Intervals: found in Arabla, Palestine, and numer Fayart and upper Egypt.— Himalayan ibex, Capra sibirica, a large species of the mountains of cen-tral Asia, distin-guished by its size and heavy beard.

Ibidium (ī-bid'-INL. i-nm), n. [NL. (Salisbury, 1812), $\langle \text{Gr. } i\beta\iota\varsigma (i\beta\iota\delta-), \text{ibis. The}$ anthers were compared to the head of an ibis.] A genus of monocotyledonous



(From Britton and Brown's "Illus. Flora of the Northern States and Can-ada.")

plants belonging to the family Orchidacex. See Spiranthes.

ibis, n. 4. In angling, an artificial hackle-fly, ribbed with silver tinsel, with body, hackle, wings, and tail searlet.—Straw-necked ibis, Carphibis spinicollis, an Australian species which has the feathers of the lower neck developed as slender yellowish spines. Very similar species occur in South America.

iboga (ê-bō'gā), n. [W. African.] A name, in the Kongo region of West Africa, of a shrub in the Kongo region of West Africa, of a shrub of the dopbane family, Tabernanthe Iboga. Though growing wild in this region, it is frequently cultivated near the native villages for the sake of its medicinal and narcotic roots, which contain an alkaloid similar in its action to cocaine.

ibogaine (ē-bō'ga-in), n. [iboga + -ine².] An alkaloid extracted from the Kongo-plant and alkaloid extracted from the Kongo-plant and iboga. It produces a posstbacia like gogaine

iboga. It produces anæsthesia like cocaine and acts upon the medulla like cola.

I. C. An abbreviation of the Latin Iesus Christus, Jesus Christ.

icacin (i-kä'sin), n. [icaco + -in².] A color-less compound, $C_{46}H_{76}O$ or $C_{47}H_{78}O$, found in elemi resin. It crystallizes in needles which elemi resin. It melt at 175° C.

Mediterranean type of Deniker.

II. n. 3. In anthrop., a member of the Iberian race.

Iberian², a. II. n. An inhabitant of Iberia, a country of ancient Asia corresponding to what is now called Georgia.

Iberianism (i-bō'ri-an-izm), n. [Iberian1 + -ism.] The desire to unite Spain and Portugal under one crown, with the ancient name of Engineers.

Engineers.

234. Iceberg theory, the theory that the distribution of drift and of erratic boulders and the scoring of the undersubject in siberian. It typical in es. XXI. 187. Eight name

The printage of the printage are decounted for by the movements of icebergs during a period of continental submergence: now generally replaced by the *glacial theory (which see).—Tabular iceberg, an even-topped iceberg of considerable size. Such hergs are common in the antarctic seas and are derived from the south polar ice-sheet. ice-bird, n. 2. The Indian goatsucker, Caprimulgus assisticus: so called because its note

mulgus asiaticus: so called because its note resembles "the sound of a stone seudding

ice-blindness (īs'blīnd "nes), n. Same as snow-

ice-block (īs'blok), n. In yeel., a portion of a retreating glacier, isolated by melting.
ice-bolt (īs'bōlt), n. A sudden descent of ice; an avalanche; figuratively, a sensation as of

the sudden chill of piereing cold.

The fearful ieebolts of the mountain.

H. MacMillan, Bible Teachings, iv. throp., of or pertaining to a race or type in-habiting a large part of Spain, Portugal, ico: especially applied to a boulder which has Corsica, Sardinia, and southern Italy, includ-been earried and deposited by ice during the

various uses.

ice-calk (īs'kāk), n. Same as calk3, 2 ice-can (is'kan), n. A large, deep, and narrow sheet-iron can designed to hold the distilled water used in making ice. The can is sunk in the cold brine of the freezing-tank and remains there until its contents are frozen.

ice-cave (īs'kāv), n. 1. A cave in which ice is formed in sufficient quantity to outlast the warm season; a glacière.—2. A hollow under the end of a glacier, whence the glacial stream flows out.

The term "ice-cave," in the author's opinion, should especially apply to the hollows in the ice at the lower end of glaciers, whence the glacier waters make their exit.

Geog. Jour. (R. G. S.), 1X. 670

ice-chipper (is'chip"er), n. A hand-tool consisting of a combined knife and chisel for chopping ice into fragments.

ice-cliff (is'klif), n. 1. The precipitous front of a tide-water glacier.—2. A cliff formed by marine erosion, in arctic regions, where the land consists of ice with more or less inter-stratified and overlying detritus.

ice-cloud (īs'kloud), n. A cloud composed of fine globules of ice, or of globules of water colder than ice, which on touching any solid body adhere as frostwork; a frost-cloud; a rime-cloud: often a very low stratum of ice

ice-craft (is'kraft), n. Skill in traveling on ice, or in dealing with its dangers, as in arctic exploration or mountain-climbing. Daily News,

March 5, 1890. N. E. D. ice-creeper (īs'krē*pèr), n. Same as creeper,

lced liver, heart, etc., chronic inflammation of the serous membrane covering the liver, heart, etc., accompanied by a fibrinous exudation resembling the icing on cake. Med. Record, Feb. 14, 1908, p. 273.

ice-dike (is'dik), n. A crevice in a glacier which becomes filled with ice of secondary or later development and strongly resembles a

mineral vein. W. H. Sherzer. ice-dock (is'dok), n. A basin in the ice, either natural or sawed out with ice-saws, sufficiently large to accommodate a ship. Such 'docks' are often made by navigators in the polar regions in order to avoid being pinned or nipped between two closing floes.

two closing noes, ice-drag (is'drag), n. A hooked iron instrument planted in tho ice ahead of a vessel, used like a kedge-anchor in warping her along, table

ice-dump (is'dump), n. A sheet-iron tank containing a sloping grid in which an ice-can

with its ice-block is upset to causo the block to slip out of the can. See *ice-can. ice-farm (is'färm), u. A body of water with the necessary buildings, devoted to the production of ice for the market; in India, a place where ice is obtained by allowing water to freeze, at night, in shallow earthenware pans. Sci. Imer., Jan. 25, 1908, p. 58. ice-fender (is'fen"der), n. A fender or guard for protecting a vessel from injury by ice.

ice-fish (īs'fish), n. 1. A little fish, the caplin, Mallotus villosus, of the family Argentinidæ, living in arctic American waters and much valued as food. See caplin². [Rare.]—2. A small translucent fish, Salanx microdon, of the rivers of Japan and China.

ice-fog ($\bar{\imath}$ s'fog), u. A fog produced by wind blowing over fields of ice.

ice-front (is'frunt), n. The border of a glacier or ice-sheet.

ice-gorge (īs'gôrj), n. 1. A blockade of ice in a river.—2. A narrow, steep-sided gorge in whose bottom, amid large fallen rocks, ice forms in the winter and endures until late in the summer or longer. Ice-gorges occur in a number of localities in New England and New York.

ice-guard (is'gard), n. In lumbering, a frame or fence of heavy timbers set sloping about a cluster of boom-piles, to prevent the destrucfind the boom by ice. The timbers are securely fastened to the top of the boom-piles: the other end rests on the bed of the lake or stream, at an angle of about thirty degrees to the surface of the water. The ice is forced to mount the guards and is so broken up.

ice-gush (īs'gush), n. A mass of mingled ice water standing at the bottom of a crevasse in a glacier.

Now and then a horse will lose his footing and slide down to the bottom with a rush, but never once did one of them refuse to climb out of an ice-yush when called upon to do so, although many times they left a trail of blood behind them where they had been cut and bruised in their fall. Jour. Franklin Institute, Oct., 1904, p. 304.

ice-hill, n. 2. A large mass or mound of ice of indefinite height.—3. An artificial tobogganslide.

The Russians are extremely fond of this amusement, and often have these *ice-hills* erected at some village at a little distance from the town. Englishwoman in Russia, p. 215. N. E. D.

Englishwoman in Russia, p. 215. N. E. D. ice-hockey (īs'hok'i), n. A game, developed from field-hockey, played on ice, either on open ponds or in rinks. It is usually specified that the rink shall he at least 112 feet long by 58 feet wide. A team is composed of 7 men, 4 forwards or rushers, who carry the attack, and 3 others, called cover-point, point, and goal-keeper, whose work is principally defensive, although the cover-point often backs up or 'feeds' the rushers or forwards. The lee-surface for this game may vary in length or breadth. If played in a rink, goals are erected at either end and the surface is bounded by planking 2 feet or more in height. The sticks which the players use are made of ash, curved at the end; the curved part is formed into a blade less than 13 inches in length and 3 in width, which rests upon the surface of the ice, allowing about a foot of the stick upon the ice. The puck, as it is called, is a disk of vulcanized ruthber 3 inches in diameter and 1 in thickness, which is slid along the ice, although it can be lifted by a wrist motion so as to fly through the air. Two halves of 20 minutes each constitute the time of play, with an intermission of 10 mluutes. The game is started by facing the puck in the

center of the field of play. This consists in placing the puck on the middle point of the field between the sticks of two opposing center forwards. The referee calls play, and each man then strives to gain possession of the puck and pass it to players of his own side. The forwards are usually divided into two centers and two wings, and the puck is shot diagonally across the surface from one player to another. The players use both hands on the stick, and a good player rarely resorts to a one-hand use of the stick. No player is allowed to raise his stick above the shoulder. The puck may be advanced by the use of the stick, but it may be stopped by the skate or the body. The goal-tender stands between the goal-posts, and the rule provides that he must not lie, sit, or kneel upon the ice, but must maintain a standing position. His play consists in defending the goal and shooting the puck off from one side to the other when the goal is in danger. There is a referee who has charge of the play; two goal-umpires, one at each end, decide whether the puck passes through the goal. Rules for off-and on-side play prevail in hockey; that is, a player must always be on his own side of the puck, and is off-side if he is nearer the opponents' goal-line than the player of his own team who last hit the puck, in which event he is not allowed to touch it or interfere or obstruct an opponent until again on-side. He is put on-side when the puck has been touched by an opponent, or when he has skated behind one of his own side who either has possession of the puck or played it hist when behind the offender. Body-checking, blocking, and interfering when on-side are allowed. Charging from behind, tripping, collaring, kicking, and cross-checking are not allowed. The final result is determined by the number of goals scored in the two halves.

ice-jam (īs'jam), n. A mass of fragments of river ice piled irregularly by the current, so as to obstruct its flow.

Iceland agate. See *agate². ice-lead (is'lēd), n. A ter leading into or entirely through an ice-field, which is liable to be closed at any moment by the movement of the ice.

ice-line (īs'līn), n. In thermodynam., a eurve showing the pressure at which for any tempershowing the pressure at which for any temperature a mixture of ice and water will be in stable equilibrium. W. Watson, Text-book of Physics, p. 267.

"top-pyramid (is'pir'a-mid), n. The form assumed by a pedestal of ice on a glacier, after the protecting slab of stone or debris has

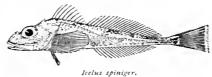
Physics, p. 267. ice-lobe ($\bar{i}s'l\bar{o}b$), n. A forward-reaching part of an ice-sheet with a convex front, the advance of which is due to its having moved along lower ground than that on either side. Thus the continental ice-sheet of the glacial period in North America was divided into various ice-lobes, along its Southern margin, known as the Michigan lobe, the Green Bay lobe, etc. See *lobe.

The relation of the Michigan, Saginaw and Huron-Eric ice-lobes in lower Michigan during the Wisconsin stage of glaciation.

Science, Feb. 6, 1903, p. 224.

ice-locomotive (īs'lō-kō-mō"tiv), n. A loeomotive or motor-car having spurs or teeth on its driving-wheels to enable it to travel on

Icelus (is'e-lus?), n. [NL. (Kröyer, 1845), Gr. Ἰκελος, Icelus, son of Hypnus, the god of



(From Bulletin 47, U. S. Nat. Museum.)

sleep.] A genus of fishes belonging to the family Coltide, found in the North Atlantic and Pacific. I. bicornis is the best-known species. I. spiniger is a species found in Bering

iceman, n. 3. An official whose duty it is to keep the ice on a skating-poud in order and to assist those who meet with accidents while skating. See *icc-master, 2.

A rescue by the icemen belonging to the Royal Humans ociety. All the Year Round, 1860, p. 292.

ice-marker (is'mär"ker), n. A plow-shaped device for marking a groove in ice which is to be cut into blocks. It is guided by a gage which runs in the last-plowed groove.

Same as icc-

ice-master, n. 2. An official appointed to keep the ice on a public skating-pond in order. See *iceman, 3.

ice-mill (īs'mil), n. Same as moulin.

Icenian (i-sē'ni-an), a. [L. Iceni, an ancient people of southern Britain.] In gcol., a name which has been occasionally applied to the Norwich crag of the English Pliceene forma-

tion. See crag1, 2.
ice-nip (is'nip), n. The nip or grip of the ice
upon a vessel which is caught and squeezed

A small sheet or slab of

The ice-pans appear to drift capriciously backward and forward, without any apparent cause.

Geog. Jour. (R. G. S.), XVIII. 40.

ice-pigeon (īs'pij"on), n. A breed of small domesticated pigeons whose prevailing colors are pale bluish lavender, with faint lacings or spangles. The feet are heavily feathered save in the variety known as the *Ural*. ice-pillar (Is'pil'är), n. The pedestal of a

glacier table.

ice-pilot (is'piⁿlot), n. Same as ice-master, 1. ice-pipe (is'pip), n. A projecting tube of ice which is produced by frost in regions whose which is produced by frost in regions whose surface soil is a tough, water-soaked clay. The upper layer of the soil is first frozen solid for a shallow depth. As the frost solidifies and expands the lower-lying layers, the neighboring water is forced to spurt through the crust at innumerable points, freezing as it emerges and forming the ice-pipes. I'an Hise, U. S. Geol. Surv. Monographs, XLVII. 444.

ice-plank (is'plangk), n. A bridge on the deck of an arctic vessel, crossing from one side to the other: a spike-plank.

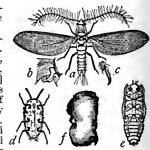
side to the other; a spike-plank.

ice-plant, n.—New Zealand ice-plant. Same as New Zealand spinach which see, under spinach — Tagman ice-plant, the Victorian bower-spinach, Tetragonia implexicoma. See Australian spinach, under spinach.

ice-point (is'point), n. The point upon a thermometric scale which corresponds to the melting-point of ice. The ice-point is 0° C. + 32° F., and + 273° (absolute). *Philos. Trans. Roy. Soc.* (London), 1903, ser. A, p. 108. A temporary channel ice-prow (is prou), n. A temporary structure by through an ice-field, fitted in front of the stem and around the bows of tugboats and similar vessels in winter to assist in breaking the ice and to protect the bows from injury. Also false bow and iceram.

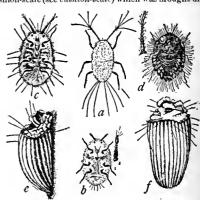
fallen from it.

(īs'ice-ram Same ram), n. as *icc-prow. Icerya (isri'ā), n. [NL. (Signoret, 1875), ⟨F. *Icery*, a proper name. 1 A noted genus of Coccidæ the subfamily Monophicbinæ. usually covered distribution with wax and distribution secreting their eggs in a long waxen mass which is often longitudinally



Fluted Scale (lierya purchast), male series, a, male insect, with greater enlargements of base of wing and foot at \(\delta\) and c; d, second stage of larva; \(\epsilon\), pupa; \(\eta\). Cocoon. Enlarged about five times. (Riley, U. S. D. A.).

ribbed. Twenty species are known, and some of them are noted pests. I. purchasi of Australia, South Africa, New Zealand, California, and Portugal is the famous fluted scale, white scale, or cushion-scale (see cushion-scale) which was brought under

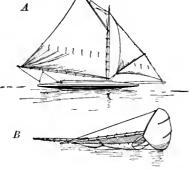


Fluted Scale (Icerya purchasi), female series illustrating development of female insect from young larva to adult gravid stage.

a, newly hatched larva; b, second stage; c, third stage; d, full-grown female; e, f, same after secretion of egg sac. All (except antenne) about twice natural size. (Riley and Mariatt, U. S. D. A.)

control in California, South Africa, and Portugal by the introduction of the Australian ladybug. Vedalia (Norius) cardinalis. Other noted species are I. mypptiacum, I. seychellarum, and I. montserratensis. See Australian *ladybug, with cut.

ice-scooter (is'skö"ter), n. A craft, a combina-tiou of sailing-yacht and ice-boat, peculiar to Long Island. It sails as well in water as on ice, and may be run from one element to the other without change of rig or appliances. On the flat hull of the boat steel runners are fitted, as on an ice-boat. The boat may ice-scooter



A, boat in motion: B, boat, placed so as to show bottom of hull with steel runners.

be steered either by the one head-sail or by an oar-shaped metal blade trailed over the stern, which acts as a rudder when in the water, and when on the ice cuts into the surface on one side of the keel-line or the other as may be required for turning the boat's head. These scooters may be run alternately through water and over ice, as their speed allows them to climb ont of the water without any assistance other than their own momentum.

ice-scouring (is'skour*ing), n. The general

process of abrasion and erosion by means of

Ice-scouring during maximum glaciation reached far up the mountain slopes above the trough walls, but was without great influence on form.

Science, April 5, 1901, p. 552.

ice-scraper, n. 2. An implement of the Alaskan Eskimos consisting of a handle to which are attached several seal claws: used by bunters, who imitate the movements of the seal, to produce the noise made by basking seals.

ice-shed (is'shed), n. The dividing-line from which the ice of a continental glacier moves in opposite directions.

ice-sky (is'ski), n. A bright whitish sky in polar regions, near the horizon, indicating the existence of a distant field of ice or snew.

ice-spur (îs'spèr), n. A device worn on a shoe to prevent slipping on an iey surface. Minsheu. ice-storm (īs'sfòrm), n. A fall of ice, or of sleet turning to ice, or of hailstones and larger agglomerated masses of ice; a storm in which falling rain freezes upon the objects which it touches.

ice-tongue (is'tung), n. 1. A lobe of a glacier. See *ice-lobe.

This book will consist of a detailed description of about fifteen Greenland ice-tongues, and of a portion of the main ice cap, dwelling especially upon the significant features.

Science, Aug. 5, 1994, p. 188.

It is similar in composition to a vivitelly

2. A submerged mass of ice which projects

ich. An abbreviation of iehthyology.

Ichabod (ik'a-bod), n. [LL. Ichabod, < Heb. Ikhabōd, < i, not, + khabōd, glory. The allusion is to 1 Sam. iv. 21: "And she named the child Ichabod, saying, The glory is departed from Icrael"] A Habrew wame (see etym).

Scales of papine, out here with spines. Lie typical genus is Iehthydium.

Ichthyication (ik'thi-ī-zā'shon), n. [*iehthyze* ichthyization (ik'thi-ī-zā'shon), n. [*iehthyze*] from Israel."] A Hebrew name (see etym.) used allusively in various connections, especially in the phrase to say Ichabod (to or of a thing), implying that its glory has departed.

"Whenever Wilmot Edge is away, the curries of this club go to the devil."... He pushed away his plate. "Bring me some cold beet," he commanded, and the watter brought it with an air that said "Lohabod" for the Imperion.

Anthony Hope, Tristram of Blent, xxi.

ichabodiad (ik-a-bod'i-ad), n. [Iehabod + -i-ad, as in Iliad, Jeremiad, etc. The allusion is to I Sam. iv. 21: see *Iehabod.] A lamentation for the fall or deterioration of something.

Leader-writers, contributors to magazines, British consuls, popular authors of jereniads and ichabodiads write on this subject jeeographical conditions affecting British trade, if not with unanimity, at least, for the most part, with a harmony that must be, and in fact is, very comforting to our competitors, but lar from cheering to the representatives of British trade and industry.

Geog. Jour. (R. G. S.), XVIII, 425.

ichhu (eeh'hö), n. [Also ichu; Quichua ichhu.]

Same as *puna-grass.

ichiban (ē'ehi-bān), a. [Jap. ichi-ban, number one, the first, the best, < ichi, one, + ban, a suffix indicating number.] Number one; the first; the best.

ichneumonize (ik-nū'mon-īz), r. t.; pret. and of any given region.

pp. vehneumonized, ppr. ichneumonizing. [ieh-ichthyographer (ik-thi-og'ra-fer), n. [iehthyneumon + -ize.] To parasitize, as with a ograph-y + -er¹.] A naturalist who writes member of the family Ichneumonidæ.

on fishes.

ichneumonoid (ik-nū'mon-oid), a. and n. I. a.

superfamily Ichneumonoidea. **II.** n. A member of this superfamily.

Ichneumonoidea (ik-nū-mō-noi'dē-ä), n. pl. [NL., \ Iehneumon + -oidea.] The hymenopterous family Ichneumonida considered as a superfamily

ichneumonologist (ik-nū-mō-nol'ō-jist), n. [iehneumonolog-y + -ist.] One who is versed in the study of the Ichneumonoidea.

ichneutic (ik-nū'tik), α. [Gr. ἰχνευτικός, ζ ἰχνευτικός, a tracker, ζ ἰχνεύειτ, track: see iehneumon.] Relating to tracking, or to the hunter who tracks his game. chnograph, n. 2. A treatise on tracks, spe-

ichnograph, n. 2. A treatise on tracks, specially fessil trails, such as those found in the sandstones of the Connecticut valley.—3. A (Patrick Browne, 1756), so called in all connecticut valley.—3. A (Patrick Browne, 1756), so called in all connecticut valley.—3. fossil track or trail of an extinct animal.

ichnomancy (ik'nō-mau-si), n. [Gr. ίχνος, footprint, + μαντεία, divinatiou.] Divination by observation of footprints.

icho (ē'ehō), n. [Jap.] The gingke or maidenhair-tree of Japan, Ginkyo biloba. It is enltihair-tree of Japan, transpo outdoor. It is entirely vated partly for its fruits, the kernels of which are eaten, but principally for the adornment of temple courts and cemeteries. Its wood is A genus of lamprey eels which inhabit of temple courts and completely A genus of lamprey eels which inhabit of temple courts and completely A genus of lamprey eels which inhabit of temple courts and completely A genus of lamprey eels which inhabit of temple courts and completely A genus of lamprey eels which inhabit of temple courts and completely A genus of lamprey eels which inhabit of temple courts and completely A genus of the rotation A genus of the of a bright-vellowish color, fine-grained, capa-ble of polish, tender and easily broken, and therefore not so highly prized as the woods of many other native trees.

ichthalbin (ik-thal'bin), n. [iehth(yol) + al $b(umen) + -in^2$.] A grayish-brown, odorless and almost tasteless powder made by precipitating a solution of ichthyol and albumen with mineral acids; ichthyol albuminate: used as an antiseptic (internal and external).

ichthargan (ik-thär'gan), n. [iehth(yol) + Gr. $\dot{a}p\gamma(vp\delta\varsigma)$, silver, + -an.] A trade-name of silver ichthyol sulphonate. It is used in medicine.

ichthoform (ik'thō-fôrm), n. [ichth(y)o-(sulphonic) + form(aldehyde).] A dark-brown, odorless and tasteless powder obtained by treating iehthyosulphonic acid with formaldehydo solution: a surgical and intestinal antiseptie.

continuinic (ik-thū-lin'ik), a. [ichthulin + ichthyopolism (ik-thi-op'ō-lizm), n. obtained by treating ichthyopolism (ik-thi-op'ō-lizm), n. obtained by treating ichthulin with alkalies. It is similar in composition to avivitellinic acid; like this it is probably a paranucleinic acid.

2. A submerged mass horizontally from an iceberg.

ice-tub (is'tub), n. A tub-shaped receptacle of earthenware or glass for holding cracked ice. E. A. Barber, Pottery and Porcelain of U. S., p. 286.

ice-vein (is'vān), n. Same as *ice-lead.

ich An abbreviation of iehthyology.

An abbreviation of iehthyology.

Ichtuyai (is 'in'), n. pl. [NL., < thornis(-ornith-) + -oid.] resembling the skin either naked or beset with scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. pl. [NL., < thornis(-ornith-) + -oid.] resembling the skin either naked or beset with scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. One of the scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. One of the scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. One of the scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. One of the scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. One of the scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. One of the scales or papillæ, but never with spines. The typical genus is Iehthydium.

Ichtuyai (is'thi-ō-si'rid), n. A name given by Jacques Pellegrin to similar typical spines.

Ichtuyai (is'thi-ō-si'rid), n. One of the scales or papillæ, but never with spines. The Ichthyosism (is'thi-ō-sizm), n. [iehthyosism (is'thi-ō-sizm)]

ichthyization (ik"thi- \bar{i} -zā'shon), n. [*iehthyze ($\langle Gr. i\chi\theta i\varphi, fish, + -ize \rangle + -ation.$] The process of evolution of the typical fish-like char-

ichthylepidin (ik-thi-lep'i-din), n. [Gr. $l\chi\theta\iota\varsigma$, fish, $+\lambda\epsilon\pi\iota\varsigma$ ($\lambda\epsilon\pi\iota\delta$ -), seale, $+-in^2$.] An albuminoid found in the seales of fishes.

ichthyobatrachian (ik"thi-ō-ba-trā'ki-an). [Gr. ${}^{5}\chi\theta^{i}\varsigma$, fish, + $\beta\dot{a}\tau\rho a\chi o\varsigma$, frog, + -ian.] Combining the characters of fishes and batrachians: iehthyopsid.

ichthyopsid.

Ichthyobdella (ik "thi-ob-del' "i), n. [NL. (Blainville), ζ Gr. iχθίς, a fish, + βδέλλα, a leech.] The typical genus of the family Ich- (Gr. iχθίς, fish, + ταινία, a worm (see tænia).]

(Gr. iχθίς, fish, + ταινία, a worm (see tænia).]

Ichthyobdellidæ (ik"thi-ob-del'i-de), n. pl. [NL., \ Ichthyobdella + -idæ.] A family marine and fresh-water leeches, parasitie for the most part on fishes. The body may be cylindrical snd consist of a narrower anterior and a wider posterior region, or it may be dorsiventrally compressed. The anterior and posterior suckers are distinct from the hody. It includes several genera, among them being Ichthyobdella, Branchellion, Pontobdella, Cystibranchus, and Macrobdella.

ichneumonid (ik-nū'mo-nid), n. and a. I. n. ichthyodont (ik'thi-ō-dont), n. [Gr. iχθίς, fish, An insect of the hymenopterous family Ichneumonidæ.

H. a. Of or belonging to this family.

ichneumonize (ik-nū'mon-īz), r. t.; pret. and of any given region.

The fish fauna of any given region.

chneumonoid (ik-nū'mon-oid), a. and n. I. a. Ichthyoid curve. See *eurrc. Belonging to or having the characters of the superfamily Ichneumonoidea. Ichthyoidea (ik-thi-oi'dē-ā), n. pl. [NL., ζ superfamily Ichneumonoidea. Gr. $i\chi\theta i\varsigma$, fish, $+\epsilon l\delta o\varsigma$, form.] A suborder of anurous aquatic Amphibia having amphicelous vertebræ, three pairs of perennial external gills or, in their absence, a persistent branchial aperture, and small eyes without distinct lids.

ichthyolate (ik'thi-ō-lāt), n. [Gr. $i\chi\theta i\varphi$, fish, + -ol + -ute1.] The trade-name of magnesium ichthyolate. It is used in medicine. ichthyol-oil (ik'thi-ol-oil), n. A brownish-

yellow, syrupy liquid, with penetrating bituminens oder and taste, which results from the destructive distillation of a bituminens rock containing fessil fish found near Seefeld in

(Patrick Browne, 1756), so called in allusion to its use as a fish-poison, $\langle \text{ Gr. } i\chi\theta i e, \text{ fish,} + \mu i\theta\eta, \text{ drunkenness.} \rangle$ A genus of dicotyle-donous plants belonging to the family Fubaceæ. See Piscidia.

ichthyomorphic, a. 3. In deeorative art, noting motives based on the forms of fishes.

the fresh waters of the eastern United States. ichthyonomy (ik-thi-on'ō-mi), n. [Gr. $i\chi\theta^{i}\varphi$, fish, $+\nu\delta\mu\sigma_{\zeta}$, arrangement.] The arrangement of fishes according to their relationships.

ichthyophagian (ik"thi-ō-fā' ji-an), a. [ich-thyophagi + -ian.] Of or pertaining to ichthyophagi, or fish-eaters; characterized by the eating of fish, as "ichthyophagian banquets," Badham, Halieuties, p. 137. ichthyophagic (ik#thi-ō-faj'ik), a. Same as

iehthyophagous.

ichthyophagite (ik-thi-of'a-jīt), n. [ichthyo-phag-y +-ite².] Same as ichthyophagist.

ichthyophagize (ik-thi-of'a-jīz), v.i.; pret. and pp. iehthyophagized, ppr. iehthyophagizing. [ichthyophag-y +-ize.] To feed on fish.

ichthyophobia (ik"thi-ō-fō' bi-ā), n. [NL., \langle Gr. $i_{\chi}\theta i_{\ell}$, fish, + - $\phi_0\beta ia$, \langle $\phi_0\beta \epsilon \bar{\iota}\nu$, fear.] An extreme dislike either of handling or of eating

[ichthyopol-ist + -ism.] The business of selling fish. ichthyopolist (ik-thi-op'ō-list), n. [Gr. $i\chi\theta\nu$ o- $\pi\dot{\omega}\lambda\eta g$, a fish-seller, $\langle i\chi\theta\dot{\nu} g$, fish. + $\pi\omega\lambda\epsilon\dot{\nu} v$, sell, + -ist.] A fish-seller; a fish-dealer.

-ism.] A name given by Jacques Pellegrin to a disorder produced by the eating of decaying fish. It is usually accompanied by diarrhea and cruption of the skin, and is caused by the formation of leucomaines through the influence of bacteria. *Jordan*, Study of Fishes, I. 183.

acters; the development of those traits which render an organism more and more definitely and completely a fish. D. S. Jordan. [Gr. $l\chi\theta i\varsigma$, fish, $+ \lambda\epsilon\pi i\varsigma$ ($2\epsilon\pi i\delta$ -), seale, $+ -in^2$.] An albuming it has called a fisher at the called a fish and in the called a fisher at the same as in the called a fisher at the same as in the s

[ichthy(ot) + sulphonic.] Noting an acid, a dark resincus compound, $C_{28}H_{36}S_{3}O_{6}H_{2}$, prepared by treating crude ichthyol-oil with an excess of sulphuric acid and then shaking repeatedly with a saturated solution of common salt.

The typical genus of the family Ichthyotæniidæ. It contains several species parasitic in freshwater fishes. Lönnberg.

Ichthyotæniidæ (ik"thi-ō-tē-nī'i-dē), n. pl. [NL., \(Ichthyotænia + -idæ. \] A family of eestode worms, of the order \(Tetracotylca, \) having acetabulate suckers. It contains the genera Ichthyotænia and Corallobothrium, parasitie in fishes. See cut on next page.

ď

Ichthyotomi (ikthi-ot' ō-mī), n. pl. [NL.. ⟨ Gr. iχθες, a fish. + -τομος, ζ ταυείν, cut.] An order of selachian fishes having a well-calcified endoskeleton, pterygoquadrate movaarticulated with the cranium, pectoral fins with segmented axis, diphycercal and tail. Members of orderaro mostly of late Paleozoic age, but some occur in the early Mesozoie

ichthyptoxicon ichthystoxicon (ik'thi-ō-tok'si- periodothrium lobosum Rigg., out of kon), n. [Gr. A, side view; B, viewed from above to 1,θες, a fish, + (compiled from Riggenbach), of costellom; ε notched lobes raing up from below the scolex and hiding stance in some Lankester's "Zoology.") fishes, the cause

B

of poisoning by the eating of fish. Vaughan

C

and Nory, Cellular Toxins, p. 188. ich thyotoxicum (ik"thi - ō - tok'si - kum), n.

a ne as *ichthyotoxicon. ichthyotoxin (ik"thi-o-tok'sin), n. Same as

i hthuotoxicon.

ichthyotoxism (ik*thi-ō-tok'sizm), n. [NL., ichthyotoxismus, ζ Gr. iχθίς, fish, + τοξ(ικόν), poison, + L. -ismus, Ε. -ism.] Fish-poisoning;

poisoning resulting from the eating of fish. ichthytaxidermy (ik-thi-tak'si-der-mi), n. [Gr. iyig, fish, + E. taxidermy.] Taxidermy as applied to fishes.

icican (is'i-kan), n. [icica + -an.] A crystal-line resin obtained (by further concentration after the separation of brean) from the alco-

after the separation of breath from the ateo-holic solution of the o.eoresin of iclea. Icla shales. See *shale2. Icon. An abbreviation (a) of iconographic; (b) of iconography. iconodulic i-ko-nod'ū-lik), a. [iconodul-y + -ic.] Relating to the veneration of icons or images. images

iconodulist (ī-kō-nod'ū-list), n. [As iconodul-y + -ist.] A venerator of icons or images.

iconoduly (ī-kō-no1'ū-li), n. [NGr. *εἰκονοδον-λεια. < Gr. εἰκώ , an image, + δουλεία, service, worship.] The veneration of images.

iconological (i'kon-ō-loj'i-kal), a. [iconolog-y + -ic-all.] Relating to iconology.

One of the most remarkable features of this restoration of of the most remarkable features of this resolutation [of Spire's eathedral] has been the entire ornamentation of the interior with frescoes. . . [A] . . . detailed account of this great iconological work is from the pen of an accomplished correspondent.

The Ecclesiologist, XV. 25.

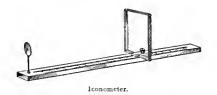
iconomania (ĩ'kon-ộ-mā'ni-ā), n. [NL., ζ Gr. εἰκών, an image, + μανία, madness.] An exaggerated devotion to icons or images; a mania for collecting icons.

iconomatically (ī-kon-ō-mat'i-kal-i), adv. With reference to an icon, image, or picture. [Rare.]

That it [kan symbol] is not used ikonomatically here is evident, as kan in Maya is not a name for maize or grain of maize.

An. Rep. Bur. Am. Ethnol., 1894-95, p. 227.

iconometer (1-kō-nom'e-ter), n. [Gr. εἰκόν, an image, + μετρον, measure.] An instrument used to facilitate the determination of



the true relative position of a series of unknown points from two perspectives, usually known points from two perspectives, usuany photographs of those points, taken from two known points or stations. A pipe graduated in millimeters and about 20 centimeters long is fitted with a diopter and a movable light frame. Both of these may be placed within the pipe for convenient carrying. iconometric (ī-kon-ō-met'rik), a. Of or pertaining to the iconometer or to iconometry; obtained by measure of the Jacquemeter.

tained by means of the iconometer.

iconometry (i-kō-nom'e-tri), n. [As iconometer $+ y^3$.] The science of determining the relative positions of several unknown points by means of perspectives, usually photographs of those points, from two known points: espe-cially applied to the photographic determination of points for topographical purposes, or

iconophile (i-kon'ō-fil), n. [Gr. εἰκόν, an image, + φιλεῖν, love.] Same as iconophilist. iconophily (i-kō-nof'i-li), n. [iconophile + -y³.] Same as iconophilism.

iconoplast (i-kon'ō-plast), n. [Gr. εἰκών, an image, + πλαστός, formed.] One who makes images or icons. [Rare.]

He [Pattison] could not, like Renan and especially like Matthew Arnold, be a thorough iconoclast, and yet delnde himself into thinking that he was (if I may coin such a word) an iconoplast all the time.

Literature, Jan. 8, 1898, p. 24.

iconoscope (ī-kon'ō-skōp), n. [Gr. εἰκών, an image, + σκοπείν, view.] A device attached to a camera, which shows in reduced scale an image of an object to be photographed; a finder. It permits a choice of point of view and arrangement.

and arrangement.
icosane (i'kō-sān), n. [Gr. εἴκοσι, twenty, +
-ane.] A colorless hydrocarbon of the methane
series, C₂₀H₄₂, obtained from brown coal
paraffin. It melts at 36.7° C. and boils at paraffin. It melts at 36.7° C. and boils at 205° C. under 15 millimeters pressure. Also called eicosane.

icosinene (i-kos'i-nēn), n. [Gr. είκοσι, twenty, + in² + -ene.] Sa.ne as *cicosylene. icositetrahedroid (i″kộ-si-tet-ra-hē'droid), n. [icositetrahedr-on + -oid.] The four-dimensional analogue of the icositetrahedron.

icotype ($\tilde{i}'k\tilde{\rho}$ -tip), n. [Gr. $\epsilon i\kappa \delta c$, likely (like), $+ \tau \delta \pi o c$, type.] In the nomenclature of types in natural history, a specimen that has not been used in literature but serves for identification with the original.

I. C. S. An abbreviation of Indian Civil Ser-

tetalurinæ (ik"ta-lū-rī'nē). n. pl. [NL., \(Ictalurus + -inæ.]\) A subfamily of catfishes characterized by having a barbel on the posterior nostril: found chiefly in the eastern United States.

Ictalurus (ik-ta-lū'rus), n. [NL., a contraction of *Ichthyælurus, < Gr. ίχθίς, a fish, + αίλουρος,



(From Bulletin 47, U. S. Nat. Museum.)

a cat.] A genus of fishes of the family Siluridæ, commonly called catfishes. They are notable for the forked tail and silvery coloration, and are confined to the eastern United States. The commonest species is the channel-cat, I. punctatus. icteric, n. 2. One who is suffering from icterus

or jaundice.

icterode (ik'te-rōd), a. [Gr. ἰκτερώδης, < ἰκτερος, jaundice, + εἰδος, form.] Affected with jaundice; janndiced.

icterogenic (ik*te-rō-jen'ik), a. jaundice. + -γενής, -producing.] terus or jaundice. [Gr. Ικτερος, Causing ic-

Icteroid bacillus. See *bacillus.

ictic, a. 2. In pros., produced by or relating to the ictus.

ictuate (ik'tū-āt), v. t.; pret. and pp. ictuated, ppr. ictuating. [ictus (ictu-), stroke, + -ate².] To put the ictus on.

Ictus cordis, the pulse.—Ictus sanguinis, a stroke of appeller.

idioplasm), $\langle \text{Gr. } id \text{ (Weismann, suggested by } idioplasm), <math>\langle \text{Gr. } i\delta\omega_{\varsigma}, \text{own,proper,peculiar: see} idiot.]$ In Weismann's doctrine of germ-plasm, id (id), ". the substance of inheritance or the bearer (a), in the germ-plasm, of the hereditary qualities of a single complete organism, or (b), in the somatic idioplasm of the hereditary qualities of a group of cells or a part of a developing embryo or growing organism. The term is used therefore with two meanings—to designate the hearer of the hereditary qualities of the sneestral idioplasm, or germ-plasm, which may give rise to a new and complete organism, and to designate the bearer of the hereditary qualities of the idioplasm of successive stages in the development and growth of the organism that arises from the egg. The id of this somatic idioplasm is held to be at first identical with that of the germ-

plasm, but to become broken up into simpler and simpler ids as development advances. See idioplasm, doctrine of ★germ-plasm.

The supposed function of the hereditary qualities in fertilization.

Encyc. Brit., XXVII. 335.

hereditary qualities in fertilization.

**Encyc. Brit., XXVII. 335.*

Heterologons id, in Weismann's doctrine of germ-plasm, one of the ids which are the bearers of the hereditary qualities of groups of cells which are not homologous.—

Homologous id, in Weismann's doctrine of germ-plasm, one of the ids which are the bearers of the hereditary qualities of homologons groups of cells. **Weismann's doctrine of germ-plasm, one of the ids which are the bearers of the hereditary qualities of homologons groups of cells. **Weismann's (trans.), Germ-plasm, p. 265.
id¹. 2. This termination is to be given to the relatively electronegative constituent of a compound: as, hydrogen oxid (not oxygen hydrid), calcinm sulphid (not sulphur calcid).

id². 2. This termination affords a simple and regular method of transforming a family name ending in idæ into a common 'English' nonn serving as a name for any member of the family. Thus, any member of the Felidæ is a felid, any of the *Bradypodidæ* a bradypodid, any of the *Gadidæ* a gadid, etc. This overcomes the ambiguity of using the popular name of some member of the family as a common name for all. The popular name is often not conterminous in meaning with the New Latin name and it always has a set of cross associations that are absent from the New Latin name. The two kinds of names do not cover the same ground. Every member of the *Bradypodidæ* is a sloth, but not every member of the *Bradypodidæ* is a cod, as several other well-known fishes, such as the pollack and haddock, are members of that family.

3. A termination used by Osborn to designate the cusps of the lower teeth : for example

A termination used by Osborn to designate the cusps of the lower teeth: for example, the cusp on a lower molar that corresponds to the hypocone of an upper tooth is the hypo-

conid, etc.

Ida. An abbreviation of Idaho.

idæan, a.—The Idæan mother, the goddess Cybele, who had her sanctuary on Mount ida.

idant (id'ant), n. [id + -ant.] 1. A group of ids or bearers of the hereditary qualities of an individual organism in the germ-plasm or subindividual organism in the germ-plasm or substance of inheritance. Weismann holds the conception of the idant, or group of ids, to be necessary to account for the production of germ-cells in the body of an organism developed from a single id. In sexual organisms all the ids in an idant are supposed to be alike, but different in organisms that have long multiplied by sexual reproduction, so that the children of the same parents are not commonly identical. See *Weismannism, doctrine of *merm-nlasm. of *germ-plasm.

In the first place, the mass of germ-plasm which is the starting-point of a new individual consists of several, sometimes of many, pieces named "idants," which are the chromosomes, into a definite number of which the nuclear material of a dividing cell breaks np. These idants are a collection of "ida," which Weismann tentively identifies with the microsomata contained in the chromosomes.

Encyc. Brit., XXIX. 256, 257.

2. Figuratively used in sociology to designate certain naturally selected individuals of differing classes or races, who seek each other in reproduction, and so create a new stock, as idants (chromatic bodies) in the reproduction cell do in biological reproduction. L. F. Ward, Pure Sociology, p. 208. iddingsite (id'ingz-īt), n. [Named after Pro-fessor Joseph P. Iddings, an American miner-

alogist.] A silicate of iron, calcium, and magnesium found in the augite-andesite of Car-melo Bay, California. It is probably an alteration-product of olivin.

idea, n.—Dominant idea, in psychol., an Imperstive or insistent idea; an idea that dominates or besets the mind, in spite of all effort to inhibit it and in spite of one's assurance of its unreasonable character.

There is no end to the strange performances which may be thus called forth; but they are all referable to the one simple principle already laid down as the characteristic of this state, the possession of the mind by a dominant idea.

W. B. Carpenter, Mental Physiol., p. 556.

Extensive idea, in psychol., a temporal or spatial idea-Spatial and temporal ideas are immediately distinguished from intensive ideas by the fact that their parts are united . . in a definitely fixed order . . I deas with such a fixed arrangement are called in general extensive ideas. W. Wundt (trans.), Outlines of Psychol., p. 102.

Fixed idea. (a) A delnsional idea or train of thought which dominates the mind in certain forms of insanity; a monomania. (b) Same as imperative **idea(0).**—Fight of ideas. See *****/flight1.**—Free idea, in exper. psychol., an idea or representation which is dissociated from sense-perception or presentation, and from the organic impulses connected with sense-perception, and which may therefore take its place in an associative train, may be utilized in the process of discrimination, etc.

It [the investigation] has denied the existence in animal consciousness of any important stock of free ideas or impulses, and so has denied that animal association is bomologous with the association of human psychology.

E. L. Thorndike, Animal Intelligence, p. 108.

Imperative idea. (a) A persistent or obsessing idea or train of thought which the subject cannot banish or escape, though he recognizes its faisity or triviality. Imperative ideas exist in all degrees of intensity, from the tune that 'runs in the head' to such obsessions as agoraphobia. (b) Same as fixed *idea (a).—Implicit idea, in psychol., the idea or group of ideational elements that Inses with the presentation in the act of perception; the idea tional associate that raises a datum of sensation to the rank of perception. Hößding.

It [the idea] is, so to say, embryonic, something additional to the mere sensation assimilated, and yet something less than a "free or independent idea." It is, as it has been happily called, a tied (gebundene) or implicit idea.

Encyc. Brit., XXXII. 59.

Insistent idea. Same as imperative *idea.—Intensive idea, in Wundt spsychology, a combination of sensational elements, in which the order of the elements may be indefinitely varied. W. Wundt (trans.) Outlines of Psychol., p. 93.—Musical idea. See idea, 9, and *metamorphosis, 5.—Secondary idea, in Wundt's psychology, any idea successively associated with the assimilation which forms the core of mediate recognition or the starting-point of an associative train. associative train.

The principal idea may be assimilated first, the secondary ideas coming later as revivals of earlier experiences; this is a case of 'association by contiguity.'
W. Wundt (trans.), Human and Animal Psychol., p. 305.

ideal. I. a. 5. In projective geom., infinitely distant—lideal black body. See laws of or composed of ideograms. nitely distant.—Ideal black body. See laws of *radiation.—Ideal gas, point. See *yas, etc.

II. n. 4. In math., an ideal number.
idealics (i-dē-al'iks), n. Sociological knowledge

applied to the realization of social ideals.

L. F. Ward, Outlines of Sociol., p. 204.

Ideational rivalry, in exper. psychol., retinal rivalry: the alternation and partial mutual suppression of different forms, colors, etc., presented under stereoscopic conditions to the two eyes.

In addition to lustre and ideational rivalry, there exists yet another form of the apprehension of binocular perceptions.

W. Wundt (trans.), Human and Animal Psychol., p. 205.

Ideational type. Same as *nemory type. E. B. Titehener, Exper. Psych., I. i. 195.—Ideational unity, in Wandt's psychology, the principle in accordance with which the sensations aroused at a given moment are not perceived as a mere medley, but are associated to form ideas, which are then set in temporal and spatial relations; the principle which, under certain abnormal conditions of stimulation, leads in the case of vision to the phenomena of luster and ideational rivalry. W. Wundt (trans.), Human and Animal Psychol., pp. 204, 217. ideatum [.idea.timp] n. p. ideatum [.idea.timp] [.ide

ideatum (i-de-a'tum), n.; pl. ideata (-ta). [NL., neut. of *ideatus, pp. of *ideare, form an idea: see ideate, n.] The thing as Imagined, as see ideale, n.] The thing as Imagined, as opposed to datum, the thing as given; theory, as opposed to observed fact. Science, Feb. 26, , p. 336. 1904

identity, n. 2. In math.: (a) The relation of an expression to another symbol for itself: often denoted by three short parallel hori- ideoplasty (i'dē-ō-plas"ti), n. Same as *ideo-zontal lines, ≡ (derived from the mark of plasy. equality, =).

The symbol = of identity . . . indicates that the single letter on one side of it is used to represent the expression or thing defined on the other side of it.

Newcomb, Calculus, p. 2.

(b) In ala.: (1) A relation of equivalence dependent only upon the very nature of the operations involved, and not at all upon the particular numbers operated with: for example, the identity of ab with ba. (2) An identical equation; an equation for any letter in which any number whatsoever may be substituted without destroying the equality or stituted without destroying the equality or restricting the values of any other letter: for example, (a+b)+c=a+(b+c).—Identity of forces, the assumed unchanging quality and action of any physical, mental, or social force.—Identity symbot, the symbol \equiv See ***identity, 2 (a).—Old Identity, in New Zealand, a well-known inhabitant or frequenter of a place: first used in a popular song in which "Old Identity" was carefully distinguished from "New Iniquity," one who came from Australia.—Rule of identity, the rule by which it is inferred that y is x if it has been proved that x is y, that no two x's are the same y, and that there are as many individuals in class x.

In class y.

In class y.

Include: \(\text{Adiacanthia} \) (\(\text{Ad same y, and as in class y

ideo-emotional (ī"dē-ō-ē-mō'shon-al), a. Noting a mind predominantly emotional and imaginative, but lacking high intellectual inaginative, but lacking high intellectual development: one of four types of mind each idic (id'is, a. [id + -ie.] Of or pertaining to a single nerve or to the norvous system exclusively. Ididæ (i-di'i-dē), n. pl. [NL., ⟨ Idia + -idæ.] idioneurai (id"i-ō-nū-rai), n. [NL., ⟨ Gr. Iδιος, own, + νεῦρον, nerve, + -all.] Pertaining to a single nerve or to the norvous system exclusively. Ididæ (i-di'i-dē), n. pl. [NL., ⟨ Idia + -idæ.] idioneurosis (id"i-ō-nū-ro'sis), n. [NL., ⟨ Gr. Iδιος, own, + νεῦρον, nerve, + -osis.] A functional nerve or to the norvous system exclusively.

Sociol., p. 63.

ideogenetic (i"dē-ō-jē-net'ik), a. [Gr. iδία, idea, + γένεσις, production (see genetic).]
Productive of mental images or developed in terms of mental images: said of a process of thought or active imagination in which verbal (that is, symbolic) ideas are not employed.

The other extreme is that in which images constituting the meaning of the perceived words are easily presented,

word-symbols are not used.

Jour. Philos., Psychol. and Sci. Methods, July 21, 1904,

ideoglandular (i'dē-ō-glan'dū-lär), α. [Gr. lόξα, idea, + Ε. glandular.] Relating to glandular action as the result of mental impressions.

ideogram, n. 2. In phonetics, the visual symbol of a word or phrase that is perceived as a whole and thus constitutes a single idea. Ideograms are distinguished as sensory or motor, according as the word or phrase is seen or written. See *ideophone. Scripture, Exper. Phonetics, p. 132.

ideologize (i-de-ol'o-jīz), v. t.; pret. and pp. ideologized, ppr. ideologizing. [ideolog-y + -ize.] To treat theoretically or in a specula-

ting, idealistic way. ideometabolic (i^{*}dē-ō-met-a-bol'ik), a. [Gr. iδέa, idea, + E. metabolic.] Relating to metabolic changes as the result of emotional impressions. Baldwin, Dict. of Philos. and Psychol., II. 436.

ideomuscular (i "dō-ō-mus 'kū-lūr), a. [Gr. iðéa, idea, + E. muscular.] Relating to muscular action as the result of mental impressions. Baldwin, Diet. of Philos. and Psychol., II. 436.

ideophone (ī-dē'ō-fōn), n. [Gr. lôéa, idea, + φωνή, sound.] In phonetics, the auditory symbol of a word or phrase that is perceived as a whole and thus constitutes a single idea. Ideophones are distinguished as sensory or molor, according as the sound or group of sounds corresponding to the word or phrase is heard or spoken. See *ideogram, 2. First used by A. J. Ellis. Scripture, Exper. Phonetics, p. 132. ideophonetics (i'de-o-fo-net'iks), n. [Gr. iôɛ̃a, idea, + φωνητικός, phonetic.] The method of

| Additional points | See *points | See *po tion. Baldwin, Diet. of Philos. and Psychol.,

ideoplasy (ī-dē-op'lā-si), n. [Gr. ἰδέα, idea, + πλάσις, formation.] The faculty or process of forming mental images; imagination: used especially of imagination in its supposed suggestive capacity, as directly modifying certain physiological processes and functions. win, Diet. of Philos. and Psychol., I. 507. Bald-

ideo-unit (ī"dē-ō-ū'nit), n. A group of elements that is perceived as a whole and there-fore constitutes a single idea: used especially in phonetics as a general term covering *ideophone and *ideogram. Scripture, Exper. Phonetics, p. 133.

Idiacanthus (id"i-a-kan'thus), n. [NL., Gr. idiomorphous (id"i-ō-môr'fus), a. Same as lδιος, peculiar, + åκανθα, spine.] A genus of

A family of campanularian Hydromedusæ, having the hydrotheca adnate to the hydronaving the hydronicea annual to the hydronic sequence in the caulus and the econosare divided into segments idionym (id'i-ō-nim), n. [Gr. lδιος, own, + which form two longitudinal series of intercommunicating chambers, each of which connects with the gastral cavity of a hydranth.

anatomy, which refers to but one anatomical part. Wilder. It contains the genus Idia, found in the south- idiophanic (id"i-ō-fan'ik), a. Same as idioern seas.

idiobiology (id'i-ō-bī-ol"ō-ji), n. [Gr. idioc, own, + E. biology.] The biology of any particular organism.

or in which, as in the ideogenetic thinking of artists, the idioblast, n. 2. In biol., one of the hypothetical, ultimate elements of living protoplasm, similar to the gemmules of Darwin, the physiological units of Herbert Spencer, the biophores

of Weismann, etc. O. Hertwig, 1893.

Idiochelys (id-i-ok'ē-lis), n. [NL., < Gr. iδιος, peculiar, + χέλυς, a tortoise.] An extinct genus of pleurodirous chelonians or turtles having a deeply emarginate nuchal plate, neural plates short and interrupted, not exceeding seven in number and not reaching the single suprapygal. It is found in the Jurassic lithographic limestone of Bavaria.

idiochromatic (id*i-ō-krō-mat'ik), a. [Gr. tolos, own, $+\chi p\bar{\omega}\mu a(\tau)$, color, +-ic.] Of the same color, whether existing in a large mass or reduced to a fine powder: said of a mineral substance, notably, lazulite and lapis lazuli, the ultramarine of the ancients.

idiochromosome (id"i-ō-krō'mō-sōm), n. [Gr. lδως, own, + χρωμα, color, + σωμα, body (see *chromosome).] A chromosome that forms the distinctive characteristic between the maleproducing and female-producing spermatozoa in certain insects (Hemiptera and Coleoptera). The idiochromosomes, which are usually smaller in the male-producing than in the female-producing forms, are supposed to be definitely correlated with the sexual characters. E. B. Wilson, 1905.

idiocrasis (id-i-ok'rā-sis), n. [NL. < Gr. ἰδιος, peeuliar, + κρᾶσις, mixture, temperament.] peculiar, + κράσι. Same as idiocrasy.

idiocy, n.—Mongolian idiocy, a form of congenital idiocy in which the subject has a flattened skull, slanting eyes like a Mongolian, and abnormally short thumba. idiogenesis (i*di-ō-jen'e-sis), n. [Gr. iδιος, own, + γένεσις, origination.] Origination with-

out apparent cause; spontaneous origination. idiogenite (id-i-oj'e-nīt), n. [Gr. iδιος, own, + γένεσις, origin.] An ore-deposit contemporaneous in origin with the inclosing rock, as in the igneous iron ores: contrasted with *xenogdirect representation of ideas by vocal sounds. chitc. F. Posepny, in Trans. Amer. Inst. Min. ideophonous (î-dē-of'ō-nus), a. [As ideophone Engin., 1893, p. 211. + -ous.] Representing ideas by vocal sounds; idiographic, a. 2. Concerned with the individ-

idiohypnotism (i'di-ō-hip'nō-tizm), n. [Gr. Ιδιος, own, + hypnotism.] Same as *idiohyp-

idiologism (id-i-ol'ō-jizm), n. [Gr. ἰδιος, own, + λόγος, word, + -ism.] Λ word or phrase peculiar to the individual and often repeated by him.

idiomere (id'i-ō-mēr), n. [Gr. ιδιος, own, + μέρος, part.] In cytol., a vesicle formed from an individual chromosome at the time when the daughter-nuclei are about to reconstitute themselves after karyokinetic cell-division. V. Haecker, 1902.

The nuclear stages in which the idiomeres (partial nuclei) and gonomeres (double nuclei) appear are closely related.

Bot. Gazette, June, 1903, p. 443.

idiometer (id-i-om'e-tèr), n. [Gr. iδιος, own, + μέτρον, measure.] An instrument for determining the personal equation of an observer using a transit-instrument, by observation of the transit of an artificial star whose motion is known.

idiomorphosis (id-i-ō-môr'fō-sis), n. [Gr. iδιος, one's own, peculiar, + μορφή, form, shape.] A special kind of metamorphosis, as the petals of Camellia, from bundles of stamens, or petaloid sepals of *Polygala* (Delpino).

Jackson's Glossary.

tional neurosis.

phanous.—Idiophanic rings. See *ring1.

n. [Gr. ἰδιος, idiophrenic (id*i-ō-fren'ik), a. [Gr. ἰδιος, own, logy of any parity due to demonstrable disease of the brain.

idioplasm, n.—Accessory idioplasm, the idioplasm to which (according to Weismann) budding and the replacement of lost parts are due.

The mechanism for regeneration is certainly a very complicated one, for each separate bone is controlled by a number of different determinants, and not by a single one; and all these special determinants are contained in the accessory idioplasm.

Weismann (trans.), Germ-plasm, p. 104.

Blastogenic idioplasm, the idioplasm to the presence of which the development of a bud into a new organism is held by Weismann to be due. Weismann (trans.), Germplasm, p. 157.

idioplasmatic (id"i-ō-plaz-mat'ik), a. Same as *idioplasmi¢.

idioplasmic (id"i-ō-plaz'mik), a. Of or pertaining to idioplasm.

On this view the locality of the pre-established organization is shifted from the cytoplasm to the nucleus, though it may still be admitted that in certain cases a cytoplasmic predetermination arises as a secondary result of idioplasmic influence.

Encyc. Brit., XXXII. 213.

idioplastic (id"i-ō-plas'tik), α. [Gr. ιδιος, own, + πλαστός, ζ πλάσσειν, form, + -ic.] Same as *idioplasmic.

*idioplasmic.

idiopsychology (id "i-ō-sī-kol'ō-ji), n. [Gr. idioc, own, + E. psychology of one's own mind. N. E. D.—2. Psychology constructed on the basis of a study of one's own mind; psychology in which one's own individual mental processes are generalized as common to all normal minds.—3. Same as differential or individual *psychology.

idioreflex (id i-ō-rō'fleks), n. [Gr. idioc. own. idiocome (idiocome, s. converted in the acrossment) in the acrossment in the acrossment

idioreflex (id#i-ō-rō'fleks), n. [Gr. ldtog, own, + E. reftex.] A reflex provoked by a cause arising within the same organ or system: as, contraction of the pupil following the incidence of light-rays upon the eye. Alien, and Neurol.,

of light-rays upon the eye. Anon. and Acades, Feb. 1903, p. 23.

idioretinal (id#i-ō-ret'i-nal), a. [Gr. iduo, own, + NL. retina, retina, +-all.] Pertaining to the retina exclusively: as, idioretinal light, a subjective sensation of light origination. ing in the retina itself.

Idiosepiidæ (id″i-ō-sē'pi-i-dē), n. pl. [NL., < Idiosepi-on + -idæ.] A family of chondrophorous, decapodous cephalopods, having the fins very small and terminal, and the fourth pair of arms in the male hectocotylized and bare of suckers. It contains the single genus *Idiosepion*. *I. pygmaeus*, found in the Indian Ocean, is the smallest cephalopod known, measuring only about 15 millimeters in length.

Idiosepion (id"i-ō-sē'pi-on), n. [NL. (Steenstrup, 1881), Gr. idnoc, own, $+ \sigma \eta \pi ia$, the enttlefish.] The typical genus of the family Idiosepiida. Also called Idiosepius.

Idiosepius (id"i-ō-sē'pi-us), n. Same as *Idio-

septon.
idiosome (id'i-ō-sōm), n. [Gr. ἰδιος, own, +
σῶμα, body.] In biol., a hypothetical unit or
ultimate element of living matter, which is
imagined as independent of cell-boundaries, as the real builder of the organism, as the bearer of heredity, and as the seat of all growth, assimilation, reproduction, and regeneration. C. O. Whitman, Biol. Lectures, 1893, p. 123. idiospasm (id'i-ō-spazm), n. A spasm affect-

ing a limited area

idiosyncratical (id"i-ō-sin-krat'i-kal), a. Same as idiosyncratic.

idiot, n.—Mongolian idiot, one who is the subject of Mongolian ★idiocy (which see).

idiothermic (id "i-ō-ther' mik), a. Same as \star idiothermous.

idiothermous (id#i-ō-thermus), a. [Gr. $i\delta \omega_{0}$, own, + $\theta \hat{\epsilon} \rho \mu \eta$, heat, + -ous.] Same as homothermous.

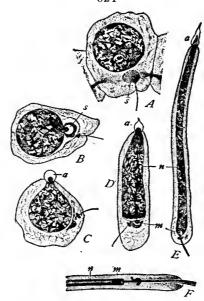
idiotrophic (id/i-ō-trof'ik), a. [Gr. lδιος, own, + τροφή, nonrishment, + -ic.] Possessing the faculty of selecting its own nutrition: noting certain cells.

Idiotrophic means, strictly speaking, from its derivation (when applied to a neurone or group of neurones making a nerve center), a peculiarity of nutrition or selection of its

C. H. Hughes, in Alien. and Neurol., Fcb., 1903, p. 23.

idiotype, n. 2. In the nomenclature of types in natural history, a specimen, not a holotype, identified by the nomenclator himself.

idiozome (id'i-ō-zōm), n. [Gr. ιδιος, own, + ζωμα, girdle.] A body in the spermatids of animals, supposed, in some cases, to be concerned in the formation of the acrosome and the middle-piece of the spermatozoon, and in others to disappear without giving rise to any portion of the spermatozoon. The idiozome is idryl (id'ril), n. [Formation not obvious.] sometimes regarded as the equivalent of the



A, spermatid of Amphinma, phuma.

A, spermatid of Amphinma, showing sphere-bridges and ring-shaped mid-bodies. E, later stage; outer centrosome ring-shaped, inner one double; idiozome, E, converted into the acrosome, a. C, migration of the centrosomes. D, middle-piece at base of nucleus; m, middle-piece; m, head derived from nucleus of spermatid. E, inner centrosome forming the end-knol within the niddle-piece, which is now inside the nucleus. F, enlargement of middle piece, end-knob within it; elongation of the ring. (After McGregor.)

(From Wilson's "The Cell.")

attraction-sphere of other cells besides the spermatids. Meves, 1897. idite (id'īt), n. [Gr. $i\delta\iota\sigma\varsigma$, own (or L. idem, same?), +- ite^2 .] A colorless syrup, $C_6H_{14}O_6$, formed by the reduction of idose. Two optical isomers are known.

idle, a. 9. Of machinery, doing no direct work; merely changing the direction of mo-tion: as, an idle gear; also, running merely to earry transmission-elements: as, an idle *pullev (which see).

idler, n. 4. In railroading, an empty car; an

ing images or idols; pertaining to the breaking of images; iconoelastie.

idolographic (ī-dol-ō-graf'ik), a. Same as idolographical.

idolomania (i"dol-ō-mā'ni-a), n. [Gr. είδωλον, image, idol, + μανία, madness.] Excessive adoration of idols.

idolomancy (ī-dol'ō-man-si), n. [Gr. εἰδωλον, image, idol, + $\mu a \nu \tau ε i a$, divination.] Divination by means of images or idols.

idolothyte (i-dol'o-thit), a. and n. [Gr. εἰδωλό-θυτος, ⟨εἰδωλον, idol, + *θυτός, ⟨θὐειν, sacrifice.]
I. a. Offered to an idol: as, idolothyte meats.

II. n. Anything offered to an idol. 11. n. Anything offered to an idoi.

idoneal, a.—Idoneal number, one of a class of numbers, discovered by Euler about 1778, such that if an odd number, N, be expressible in only one way in the form (mx²+my²) [with mx prime to my] or (x²+my²) [with x prime to mny], the positive idoneal being (mn), then N is either a prime or the square of a prime.

II. n. An idoneal number.

idoneity (i-dō-nē'i-ti), n. [I.I. idoneitas, \ I. idoneitas [I. I. idoneitas] [I. I. idoneitas]

L. idoneus, fit: see idoneous.] Fitness; suitableness; adequacy.

They want the . . . mectness, the aptitude of idoneity for the inheritance of the Saints in light.

Howe, Blessedness of the Righteous, p. 139. N. E. D.

idose (i'dōs), n. [id(ite) + -osc.] A colorless carbohydrate, $C_6H_{12}O_6$, related to glucose. It is prepared by the reduction of idonic acid and exists in two isomeric forms given under igasurine (ig-a-sū'rin), n. A substance found *fluoranthene. in Strychnos Ignatia (St. Ignatius' bean): once

Idsumo pottery. Same as Idzumo *pottery. idunium (i-du'ni-um), n. [NL.] In chem., the name of a supposed new element forming a constituent of a vanadium orc. There has been no confirmation of its existence.

idyler, idyller (ī'dil-er), n. Same as idylist. idylism, idyllism (ī'dil-izm), n. [idyl + -ism.] Idyllic character; rural or pastoral simplicity.

The omission of these dramatic contrasts...makes your masterpiece soothing and tender almost to idyllism.
S. B'ard, in Life of Longfellow, III. 219. N. E. D.

idylize, idyllize ('dil-īz), v. t.; pret and pp. idyllized, ppr. idyllizing. [idyl(l) + -ize.] To give an idyllie, natural, or simple charm to; make idyllic or make an idyl of. J. A. Symonds, The Renaissance in Italy, VII. 12. idyllian (i-dil'i-an), a. [L. idylli-um + -an.]

Same as idullic.

Same as idyllie.

ie. The earlier form of the termination now nsually written -y, of various origin (OF. -ie, -ee, -ee, -e, etc., L. -ia, -ās (-āt-), -ēs (-ēd-), etc.: see -ie¹, -ie², -ie³, -y¹, -y², -y³, etc.), as in astronomic, familie, fancie, mercie, citie, companie, beautie, etc. The spelling ie is retained in the plural (families, fancies, cities, etc.), and in certain diminutives, chiefly Scotch, as birdie, doggie, mousie, etc., and in diminutive personal names, as Charlie, l'illie, Jennie, Annie, etc. Annie, etc.

I. E. E. An abbreviation of Institute of Elec-

trical Engineers (British).

trical Engineers (British).

ie-ie (ē-ā-ē'ā), n. [Hawaiian ie-ie = Samoan 'ie 'ie (see def.) = Maori kiekie. another species of the same plant; a reduplication of Hawaiian ic, the plant, also a mat made from it = Samoan 'ic, a fine mat used by the natives as money = Tongan kie, a mat, etc.] 1.

The Hawaii a alimbing saraw, pine Krencinchia In Hawaii, a climbing screw-pine, Freycinetia arborea, from the aërial roots of which baskets (called kinac opac) are made by the natives, who use them for catching shrimp in the mountain streams. In Samoa the name is applied to Freyeinetia Reineckei, from which fish-baskets are made. - 2. Garlands made of the leaves of the ie-ie.

I-ety (i'e-ti), n. [I^2 + -ety for -ity in abstract nouns, as in egoity, etc.] The sense of being '1'; consciousness of one's personality. [Nonee-word.]

In spite of the honestest efforts to annihilate my *I-ety*, or merge it in what the world calls my better half, I still find myself a self-subsisting, and, alas, self-seeking me.

Mrs. Carlyle, Letter of June 1, 1835, in Letters, I. 14.

empty.

I. D. N. An abbreviation of the Latin in Dei ife² (i-fā'), n. [W. African (Angola).] A nomine, 'in the name of God.' ifol., n.—Moorish idol, the common name of a fish, Zanclus canescens, of the South Seas and East Indies. It has a horn-like sppendage on the forehead, and is held in great reverence by the fishermen of the Moluccas, who bow to it when it is captured and then restore it to the water. Gill, Standard Natural History, p. 210. See Zanclus, with cut.

idoloclastic (i'dol-ō-klas'tik), a. [Gr. εἰδωλον, image, idol, + κλαστός, < κλον, break.] Breaking images or idols: pertaining to the breaking island. It has abruptly pinnate leaves, usually with

most valuable timber-tree growing on the island. It has abruptly pinnate leaves, usually with two pairs of leaflets, and bears a rigid, flat pod contsining from one to five seeds. The heart-wood is very hard and heavy but not elastic. It is tough and cross-grained and very difficult to plane, of a yellowish color at first hut gradually turning darker until it resembles black walnut in color. Though of rather coarse grain it takes a fine polish and is much used for furniture and for the floors of houses of the hetter class. It resists the attacks of white ants (termites), and is used for posts. At Agafa, the capital of Guam, the pillars of the church are single straight trunks of this tree. See ves.

An abbreviation (a) of Inside Guard or

Guardian; (b) of Inspector General.
iganouwo (ē-gä-nō-ö'wō), n. [Jap., 'prickle
fish.'] A fish, Elops saurus, of the family
Elopidæ, found at Nagasaki. Also known as Okikonoshiro (off-shore shad).

igasud (ē'gä-söD), n. See the extract.

Igasud (e ga-soD), n. See the extract.

Igasud or Pepita de San Ignacio (Strychnos ignatii
Berg.), a trailer which is only found in Visayas, principally near Catbalogan; the seeds of its fruit have various
medicinal or antidote uses—stomachic, emetic, styptic,
for paralytics, for women during parturition, for malarial
fever, for rheumatism and indigestion, for contractious of
the nerves, and pains in the body.

Pron. Gaz. Phillipine Is., p. 78.

igasurate (ig-a-sū'rāt), n. [igasur-ic + -ate1.] A salt of igasuric acid.

idonic (ī-don'ik), a. [id(ose) + -one + -ic.] igasurīc (ig-a-sū'rik), a. [F. igasurique, given as from a Mālay name, *igasur, applied to St. pound, C₆H₁₂O₇, formed from xylose. It exists in two isomeric forms.

idose (ī'dōs), n. [id(ite) + -osc.] A colorless carbohydrate, C₆H₁₂O₆, related to glucose. It is a color is supported by the color is tannic acid.

> in Strychnos Ignatia (St. Ignatius' bean): once thought to be a distinct alkaloid, but found to be impure brucine. . .

igazol (ig'a-zol), n. Same as *formalina.
igelştrömite (ig'l-stre-mît), n. [Named after L. J. Iyelström, a Swedish mineralogist.] 1. A silvery-white variety of pyroaurite from Scotsilvery-white variety of pyroaurite from Scotland.—2. A ferruginous variety of knebelite.

igloogeak (ig'1ô-gē-ak), n. [Eskimo igloviyak, a snow-house, \(\cdot iglo, \) a house: see igloo.] An igloo with a dome-shaped roof, especially a structure made of blocks of frozen snow. These igloos are commonly built in one continuous layer, rising apirally to the top. There is no chimney or opening for snoke, as seal-oil burned in lamps is the only fuel. Light comes through the snow itself, or through a piece of smooth ice sometimes set in above the door.

Ignacio formation or quartzite. See *forma-

Ignatianist (ig-nā'shan-ist), n. [Ignatian, adj., ⟨ Ignatius, + -ist.] A follower or adherent of Ignatius Loyola, or of the Jesuit order established by him.

See *rock1. Igneous rocks.

igniferous (ig-nif'e-rus), a. [L. ignifer, fire-bearing (\(ignis, fire, + ferre, bear), + -ous. \) Bringing, bearing, or producing fire. Dekker, Owl's Almanack, ii.

ignific (ig-nif'ik), a. [NL. *ignificus, < L. ignis, fire, + -ficus, < facere, make.] Producing fire: fire-making.

2. An electric apparatus, spark- ignition-slide (ig-nish on-slid), n. Same as action-coil, which is used in gas- or *ignition-valve. igniter, n. 2. An electric apparatus, spark-coil, or induction-coil, which is used in gas-or gasolene-engines to ignite the charge in the engine-cylinder by means of an electric spark produced in the cylinder at the proper point engine-cylinder by means of an electric spark produced in the cylinder at the proper point of the piston-stroke.—Flame-igniter, an igniter for explosion-engines in which the mixture of gases is fired by means of a tame.—Hot-tube igniter, a metal tube heated by a flame, used for igniting the compressed charge in the cylinder of an internal-combustion engine. When the mixture is of constant quality the ignition can be properly timed by the fact that the mixture will ignite at a certain point of compression in contact with a hot surface. When the mixture varies in volume or weight with varying loads a timing-valve system must be used. No such variation is possible as with electric ignitions in which lignition may be retarded and advanced relatively to the dead-point of the piston-travel.—Jablochkoff igniter, the bit of conducting material between the terminals of a Jablochkoff candie which serves to carry the current when the candle is first put in circuit, and which, by burning away, establishes the arc.—Jump-spark igniter, an igniter in which the electric apark from an induction-coil is made to jump between fixed terminals. Sci. Amer., Jan. 17, 1903.—Make-and-break igniter, an igniter for explosion-engines, in which the terminals between which the spark is to pass are automatically brought together and separated during each cycle. Sci. Amer. Sup., July 23, 1904, p. 23880.—Spark-igniter, an igniter for an internal-combustion engine which lights the charge by means of an electric spark. See *igniter, consistthe charge by means of an electric spark. See *igniter, 2.

—Tube-igniter, an igniter for explosion-engines, consisting of a tube rendered incandescent by means of an electric current in a platinum wire.

igniter-lead (ig-nī'ter-led), n. That which deermines the time, in the cycle of an explosionengine, at which ignition shall occur. Sci. Amer., Nov. 29, 1902.

ignition, n. 5. In internal-combustion motors, the setting fire to the mixture of air and hydrocarbon vapor in the cylinder, so that the air shall expand and increase its pressure and droearhon vapor in the cylinder, so that the air shall expand and increase its pressure and perform the work required. Ignition is mainly effected, in modern motors, by an electric spark which jumps across a gap between terminals and in so doing ralses the temperature of the mixture to the igniting-point. Such electric ignition may be by the lump-spark system, so the make-and-break system. In the jump-spark system, the terminals on the secondary circuit of a Ruhmkorff or induction-coil are used. The current is made and broken on the primary or battery circuit, and this sends a secondary current of high intensity through the secondary line, in which are the gap-terminals. The primary make-and-break effect may be either by mechanical or by electrical vibrators, timed at will by the revolution of the motor-shaft. The hammer-break or are system ignites by esuaing a flowing primary current to be mechanically interrupted by the separation of two contacts in the circuit. The current arcs across the break until the gap becomes too wide and the arc sets fire to the mixture around it. The make-and-break givesa 'fat' or copious spark, but considerable battery-power is needed; the jump-spark gives a tenuous high-tension spark, with less battery-power. Magneto-electric machines or small dynamos are much used for electric ignitions. Ignition may also be effected by compressing the mixture and at the right time allowing it to enter a hot tube of refractory material heated to redness by an exterior fisme; or simple compression within the hot walls of the containing-chamber will fire an easily ignited mixture.—Advanced ignition, the ignition which is made to take place while the piston is at some distance from the end of the compressing-stroke, or before the erank has reached its dead-center.—Automatic ignition, that method of igniting the compression, except of the compression compression within the hot walls of the containing-chamber will fire an easily ignited mixture.—Advanced ignition, the ignition, that method of igniting

hind the piston of an internal-combustion motor in which the fucl is ignited by raising the temperature by the compression in the heated cylinder so that the mixture takes fire without a flame or spark. (See *ignition, 5.) It is objectionable in that the cold combustion- or mixture-chamber must be preh ated to start, and that under variable loads and variable charges ignition is uncertain and explosive charges may either escape into the exhaust-piping, or be pre-ignited.—Ignition timing, the act or process of so timing the ignition that it will take place at a certain instant; specifically, in a gas-engine, the timing of the ignition to take place when the piston is at a certain point in its travel.—Retarded ignition, ignition which is made to take place after the crank has passed the dead-center and the compressed mixture has begun to expand in volume. See *ignition, 5. The spark is always advanced in starting the engine. To advance or to retard on either side of the most advantageous angle is to diminish the power of the working-stroke.—Temperature of ignition, the lowest temperature at which a substance will burn or enter into combination, usually with the oxygen of the air, with production of heat and light. Very commonly the substance needs to be heated to attain this temperature, but in some cases the ignition-point is at or below the common temperature of the air, so that the substance takes fire as soon as it comes in contact with air. Such substances are said to be spontane-ously combustible. Roscoe and Schorlemner, Treatise on Chem., I. 228.

ignition-box (1g-nish'on-boks), n. In gas-cugines, the chamber in which the charge of

ignition-box (1g-nish'on-boks), n. In gasengines, the chamber in which the charge of mixed air and gas is ignited in an internal-

ignition-tube (ig-nish'on-tūb), n. 1. A tube which is kept hot to serve as an igniter for ileo-ileostomy (il'@- $\bar{\sigma}$ -il- $\bar{\phi}$ -os't $\bar{\phi}$ -mi), n. [NL. the charge of an internal-combustion engine. ileum + ileum + Gr. $\sigma\tau\phi\mu a$, mouth, + y^3 .] The the charge of an internal-combustion engine.

To start the motor cycle, the reservoir, G, is partly filled with gasoline; the door at the back of the ignition box is opened and the burner for heating the ignition tube is started by giving it a preliminary heating by means of an alcohol torch.

Hiscox, iterseless Vehicles, p. 187.

2. In chem., a small glass tube, closed at one end and often at this end expanded into a bulb, used to ignite or strongly heat in a blow-pipe flame a fragment of mineral or other substance in order to observe the evolution of gas or vapor.

ignition-valve (ig-nish'on-valv), n. A valve which opens communication between an igniter and the charge to be ignited. It closes as soon as ignition is effected.

ignitive (ig'ni-tiv), a. [ignite + -ive.] Having the quality of ignition; capable of pro-

ducing flame.

ignobility, n. 2. The body of persons not of noble rank; the commons: opposed to nobitity. [Nonee-word.]

ignorance, n.—Invincible ignorance, in Roman Catholic theology, an ignorance of the truth of Catholic doctrine which cannot be overcome in the ignorant person, either owing to inherent limitations or to circumstances which deprive in of the possibility of enlightenment.

ignoration, n. 2. The act of ignoring; also, the state of being ignored.

It is accustomed to simplify its problems by the method of abstraction. . . And by a long course of successful ignoration it may have acquired a liabit of thinking that it can actually exclude, instead of only abstract, these disturbing causes.

Sir Oliver Lodge, in Proc. Soc. Psychical Research, [XVII. 43.

ignotobranchiate (ig-nō-tō-brang'ki-āt), n. [L. ignotus, unknown, + branchiæ, gills, +
-atc1.] See the quotation.

-atc1.] See the quotation.

The number of the branchiæ has been used for the purpose of nomenclature, so that while the Nautius Order belongs to the Tetrabranchista, the Cuttle-fish Order belongs to the Dibranchiata. Besides these two orders there is an immense number of lossii forms, of whose branchiæ nothing is ever likely to be known, and they have accordingly been sometimes classed as Tetrabranchiates and sometimes as Dibranchiates, but they ought rather to be called Ignotobranchiates.

Encyc. Brit., XXVII. 319.

Igorrote (ē-gō-rō'te), n, and a. [A Sp. spelling of one form of the native name.] **I.** n. **1.** A member of one of the tribes speaking the Igorrote language, including the Igorrotes proper, the Buriks, and the Busaos.—2. In a generalized sense, a member of one of the unknown as head-hunters; also rarely used to designate those of central Luzon and Mindanao.—3. In local Philippine usage, a savage; a pagan native. See *Indio and *Re-

montado.-4. The language, or any language, spoken by Igorrotes. There are many dialects which have been only scantily recorded or studied.

II. a. Of or pertaining to the Igorrotes. guanodontoid (i-gwan- $\bar{\phi}$ -don'toid), a. and n. I. u. Having the characters of or pertaining to lawanodon.

II. n. A reptile allied to Iquanodon.
ihi (ē'hē), n. [Maori.] A name in New Zealand of the fish Hemiramphus intermedius, of

the family Hemiramphidæ.

I. H. N. An abbreviation of In His Name, the mette of the Order of King's Daughters and Sons.

I. H. P. An abbreviation of indicated horse-power. See horse-power.
ijolite (ē'yō-līt or ij'ō-līt), n. [Ijo, a district in northern Finland, + Gr. λίθος, stone.] A phaneroerystalline igneous rock composed of nephelite and pyroxene with small amounts of apatite, titanite, and ivaarite. It corresponds in composition to nephelinite, and occurs in dikes associated with nephelite-syenite.

ikoik (ē'kō-ēk), n. [Native name.] lu the Caroline Islands, Cordia subcordata, a handsome

mis, fire, +-ficus, ⟨ facere, make.] Producing fire; fire-making.

igniform (ig'ni-fôrm), a. [NL. *igniformis, ⟨ L. ignis, fire, + forma, form.] Having the form of fire or flame. Berkeley, Siris, ◊ 322.

ignipotencet (ig-nip'ō-tens), n. [NL. *ignipotenia, ⟨ L. ignipotens, ruling fire: see ignipotenia.] Prevalency against, or power over, fire. Bailey, 1727.

igniter, n. 2. An electric apparatus, spark-ignition-soil which is used in gas-or interest.] Producing fire in the stroke of an internal-combustion engine and gas is ignited in an internal-combustion engine.

The ignition of the charge is effected by heating the nickel tubes projecting about 2½ inches from the rearbide in the spatial projecting about 2½ inches from the rearbide in the spatial projecting about 2½ inches from the rearbide in the spatial projecting about 2½ inches from the rearbide in the spatial projecting about 2½ inches from the rearbide in consumation of the charge is effected by heating the nickel tubes projecting about 2½ inches from the rearbide in consumity in the stroke of the borage family. It has ovate, subcordata, a handsome combustion engine.

Implication of the charge is effected by heating the nickel tubes projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-shaped to determ the projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-shaped to determ the projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-shaped to the projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-shaped to the color or the projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-shaped to determ the projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-shaped to the projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-shaped to the projecting about 2½ inches from the rearbide leaves and corymbs of orange or red funnel-s tion, of a permanent communication between

the ilcum and colon.

establishment, by a surgical operation, of a permanent communication between two previously non-centinuous portions of the ileum. ileoproctostomy (il^{*} \bar{e} - \bar{e} -prok-tos't \bar{e} -mi), n. [ileum + Gr. $\pi \rho \omega \kappa \tau \dot{e} c$, anus, + $\sigma \tau \dot{e} \mu a$, mouth, + $-y^3$.] The establishment, by a surgical operation, of direct communication between the ileum and the restriction.

the ileum and the rectum.

ileosigmoid (il[#]ē-ō-sig'moid), n. [ileum

sigmoid.] Relating to both the ilenm and the sigmoid curvature.

When a colectomy is impossible because of the site of the lesion, as, for instance, in the splenic flexure, an anastomosis is indicated, either colo-colic or ileosignoid.

Therapeutic Gazette, Feb. 15, 1903, p. 102.

ilet, n. A simplified spelling of islet.

Ilex, n. 3. [l. c.] The holm-oak or holly-oak,

Quereus Ilex, the leaves of which somewhat
resemble those of the genus Ilex. See cut

(fig. 4) under oak, 1.

Ilfracombe slates. See *slate2.

The coorl was an ignoble freeman, the gentleman was a noble freeman; for the noblity, like the *ignobility*, then and now, was divided into two ranks.

Ilfracombe slates. See **slate2.

iliac¹, u.—Illac index. See **index.—Iliac pocket or recess.

See **recess.*

niks.

Frazer's Mag., XI. 315.

Iliadic (il-i-ad'ik), a. [Riad + -ic.] Of or generance, in Roman the truth of Catholic doctors.

The called ninex. See *inaex.—Iliac pocket or recess.

Frazer's Mag., XI. 315.

Iliadic (il-i-ad'ik), a. [Riad + -ic.] Of or pertaining to Homer's lliad.

I have given the British Museum a copy of the Odyssey with the *Hiadic* passages underlined and referred to in 18.

S. Butler, tr. of Odyssey, Pref., p. ix.

Iliadist (il'i-ad-ist), n. [Iliad + -ist.] 1. A writer of Iliads.

'I think all real Poets, to this hour, are Psalmists and Ili-adists after their aort; and have in them a divine impa-tience of living among lies.'

Carlyle, Frederick the Great, I. i. I.

2. Same as rhapsodist, 1.

iliahi (ĉ-lĉ-ä'hē), n. [Hawaiian name.] The Hawaiian sandalwood, Santalum Freyeinetianum, the aromatic wood of which was once an important article of export from the Hawaiian Islands but has now become scarce. See sandalwood.

ilicate (il'i-kāt), n. [ilic-ic + -ate1.] A salt of ilicic acid.

ilicic (i-lis'ik), a. [ilex (ilie-), holly, + -ie.] berived from holly: as, ilicic acid.
ilima (ē-lē'mā), n. [Hawaiian name.] In Hawaii, a general name for plants of the genus Sida, applied especially to S. fallax, S. cordi-folia, and S. Meyeniana, which grow spontaneously on the island and are also cultivated by the natives, who string their yellow flowers into wreaths and garlands for adorning themselves.

designate those of central Luzon until recently used to designate those of central Luzon and Mindanao.—3. In local Philippine usage, a savage; a pagan nutive. See *Indio and *Re-

ilio-ischiadic (il*i-ō-is-ki-ad'ik), a. Same as

eifically, noting the gluteal muscles attached

to these parts.

Ilisha (i-lish'a), n. [NL. (Bleeker, 1866), from an East Indian name of Sardinella lisha (Jordan and Evermann).] A genus of fishes, of the family Clupeidæ, found on the tropical coasts of America and Asia.

-ility. A termination (-i-li-ty, L. -i-li-tas) of nours from adjectives in -le, -ble, -ile, etc., as ability, agility, civility, probability, etc. See

-ble, etc.

Ill., Ills. Abbreviations of Illinois.

ill., illus., illust. Abbreviations of illustrated

Illænus (i-lö'nus), n. [NL., irreg. (Gr. iii) aireev, look awry, squint.] A genus of Silurian trilobites with large subequal and smooth headaud tail-shields, large compound eyes, and Illænus (i-lē'nus), n.

generally 10 thoracic segments.

illæsive, illesive (i-lö'siv), a. [L. il- for in-3 priv. + læsns, pp. of lædere, hurt, + -ive.]

Not injurious; harmless: as, illæsive games.

illapsive (i-lap'siv), a. [illapse + -ive.] Relating to an illapse, or inflowing of the Holy

Spirit.

illative. I. a. 4. In gram., neting the case expressing motion into. See *introcssive. Gatschet, Gram. of the Klamath Lang., p. 482.

II. n. 3. In gram, the illative case. illaudatory (i-la'dā-tō-ri), a. [il-for in-3 priv. + laudatory.] Net given to praising: opposed te laudatory.

[The text of Tyrwhitt's] edition of the Canterbury Tales . . . wrung energetic and unqualified praise from the illaudatory pen of Ritson. Blackwood's Mag., LVII. 787.

ill-breeding (il'brē'ding), n. Bad breeding; bad manners; rudeness; bad bringing up: as, "the ill-breeding of modern young men." [Ori-

ginally written as two words.]
ill-come (il'kum'), a. Not well eeme; having come at a wreng time.

You are not ill come, neighbour Sordido, though I have not yet sald, well-come.

B. Jonson, Every Man out of his Humour, ii. 1.

illegitimate, a. II. n. An emigrant who has come of his own volition and has not had 'legal reasons' for his voyage. See *legitimate, n., 2. [Australia.]

illeism (il'é-izm), n. [L. ille, he, + -ism.]
The unnecessarily frequent use of the pronoun he by a writer, especially in reference to himself in the third person; also, an instance of this use. Coleridge. illeist (il'ē-ist), n. [L. ille, he, + -ist.] One who is given to illeism.

ill-gendered (il'jen'derd), a. Gendered unnaturally or irregularly. [Rare.]

The creature I had killed seemed to be of an ill-gendered kind, between a tiger and a leopard.

Defoe, Captain Singleton, vii.

ill-given (il'giv"n), a. Given to having 'ill parts'; ill-disposed. Given to evil courses;

Salust was no soch man, neyther, for will to goodness, no skill by learning: but ill geuen by nature, and made worse by bringing up, spent the most part of his youth ver misorderly.

Roger Ascham, The Scholemaster, ii.

Huminatist (i-lū'mi-nā-tist), n. One of the

illoyalty (i-lei'al-ti), n.

leyalty; want of leyalty.

A piece of cowardice and illoyalty.

The Standard, Sept. 25, 1882.

illucidate (i-lū'si-dāt), v. t.; pret. and pp. illucidated, ppr. illucidating. [il-2 + lucidus,

ilio-ischiadic (il*i-ō-is-ki-ad'ik), a. Same as ilio-ischiatic.—Ilio-ischiadic fissure, foramen. See *\[\frac{kisure}{k\sure} \pi \] foramen.

iliopubic (il*i-ō-pū'bik), a. [NL. ilium + \\ \text{pubes} + -ic.] Relating to both iliae and pubic bones.—Iliopubic ligament. Same as \(Poupart's \) ligament (which see, under \(\text{ligament} \) (which see, under \(\text{ligament} \) (ilioscrotal (il*i-ō-skrō'tal), a. [NL. ilium + \\ \section \ \ \text{scrotum} + -all.] Relating to both ilium and serotum: specifically, noting a small nerve. iliotrochanteric (il*i-ō-trō-kan-ter'ik), a. [NL. ilium + \text{trochanter} + -ic.] Relating to the ilium and the trochanters of the feutur; specifically, noting the glutal museles attached

as well as a small bursting charge, designed to be fired at night and on bursting to illuminate the enemy's position long enough to permit accurate pointing.

illumination, n. 1. Specifically, the measure of the amount of light falling on a surface. The illumination of a surface is proportional to the intensity of the source of light producing it, and it varies inversely as the square of the distance between the source and the illuminated surface. The unit of illumination is the lux, the illumination produced by a source of light having an intensity of one hefner and situated at a distance of one meter from the illuminated surface. Illumination is sometimes expressed in candle-meters (also written meter-candles), the candle-meter being the illumination produced by a standard candle at a distance of one meter. In cointries where the standard candle has been defined as equal to the hefner, the candle-meter is the same as the lux. In those countries where British units still prevail, the unit of illumination produced by a British standard candle), the Illumination produced by a British standard eandle at a distance of one foot. One candle-foot equals 12.2 luxes. The total flux of light from a given source is expressed in lumens, the lumen being the flux of light in a beam which subtends one unit of solid angle, the intensity of the source being one hefner. Since the unit solid angle subtends one square centimeter at a radins of one centimeter, the lux is the illumination produced by one lumen of light-flux per square centimeter of surface. Since the primary object of artificial lighting is to produce illumination, the establishment of a unit such as the lux, by means of which the illumination can be definitely measured and expressed, is of great importance in photometry. Instruments employed for the measurement of the intensity of the sources of light are called photometers. Any special form of photometers used for the direct determination of illumination is called a luminometer (sometimes written illumination rec

Source of light.	Lumens of flux.
Petroleum flame. Acetylene flame. Lime (freshly ignited). Lime (old). Electric arc, alternating 550 watts. Electric arc, direct carbons parallel 550 watts Electric arc, direct carbons at 90° 550 watts Electric arc, direct carbons at 154° 580 watts	3,79 20,82 56,71 16,65 330,00 464,80 700,00 921,60

The amount of energy necessary to produce an illumination of one lux varies with the temperature of the source of light and with the character of the radiating surface. The art of artificial illumination consists in furnishing the requisite amount of light of suitable color at the place where illumination is required. To fulfil these conditions it is requisite to know the illumination adequate for a given purpose in definite measure: for reading and writing, for example, it is found that the minimum illumination of the page permissible varies from 5 to 50 luxes, according to the size of the type and the character of the paper. For each purpose for which artificial light is used there is a proper illumination, and only when this is definitely known may methods of precision be applied.

7. In the pictorial arts, the quality and quantity of light expressed.

tity of light expressed.

The illumination is that of the open air, tempered and modified by an overhanging eanopy of green.

C. Phillips, in Portfolio, N. S., July, 1898, p. 24.

worse by bringing up, spene are more proven for the Scholemaster, ii. Illimination. I. a. 2. Specifically, in geol., noting an epoch or subdivision of the glacial period, of which the deposits are well developed in Illinois.

II. n. 2. One of the Illinois, an Indian tribe of Algonkian stock.

Illipe (il'i-pē), n. [Tamil name.] Same as illupi. This name properly belengs to Madhuca longifolia of southern India, but when the more northern mahwa-tree, M. Indica, is found in the same region, the same name is applied by the Tamils to both species.

Illimination, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic rilluminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic induminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator, n.—Monochromatic illuminator, in optics, a device tor isolating an approximately monochromatic illuminator.

Illuminatio.

Illuminatio

[il-3 + loyalty.] Dis- illuminist (i-lū'mi-nist), n. [illumine + -ist.] 1. An illuminator of manuscripts, books, etc.

[The cuts] are generally no more than rude outlines, having been intended to pass through the hands of the Illuminist, without whose aid some portion of the subject or design would be totally unintelligible.

S. W. Singer, Hist. Playing Cards, p. 104.

illusion

elear, + -ate².] To shed light upon; elucidate. Blonnt, Glossographia. illucidation (i-lū-si-dā'shon), n. The act of throwing light upon something; elucidation.

2. [cap.] A member of the Illuminati; a believer in illuminsm. See illuminati, 2. illuminometer (i-lū-mi-nem'e-ter), n. [illuminati] illuminati illuminati, 2. ment for measuring the intensity of illumination. See *luminometer.

tion. See *luminometer.

Talfourd,
illusion, n. 2. In recent years, much attention has been devoted by experimental psychologists to the phenomena of optical illusion, more particularly to the group known as the geometrical optical illusions. Although it is impossible, at the present time, to offer any the permit of the pe



Fig. 1. Wheatstone's Cube.

may be seen either as a square box resting upon the ground, or as a block projecting npwards and to the left from the plane of the paper; Fig. 2 may be seen with the lower plane nearer or farther than the upper. (2) Illusions of extent. These are of two kinds, variable and constant. Typical of the former is the Müller-Lyer figure (which see, under *\(\beta \)gare.) Further examples are given in Figs. 3 and 4. Although the dimensions in these figures are objectively



Fig. 4. Helmholtz's Squares

equal, the filled spaces appear larger than the open. Typical of the latter are the illusions embodied in Fig. 5, where, in spite of objective equality, the vertical line seems longer than the horizontal, and the upper half of the vertical longer than the lower.

(3) Husions of direction. These, like the illusions of extent, may be variable or constant. Instances of the former class have been given under *figure (Hering's and Wundt's *figures; Münsterberg's *figure; Poggendorf's *figure; Zöllner's *figure). Typical of the latter class is

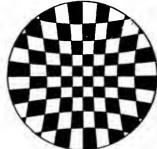
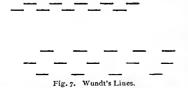
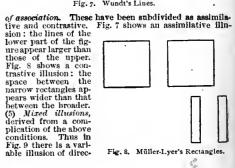


Fig. 6. Von Recklinghausen's Illusion.

Von Recklinghausen's illusion, shown in Fig. 6. If the figure is held a short distance from the eye, and its center steadily fixated, the hyperbolas become straight lines, so that the figure resembles a chess-board. (4) Illusions





tion: the smaller are seems to be-long to a circle of greater radius than the larger arc. There is also an illusion of assimilation: the

long to a circle of greater radius than the larger arc. There is also an illusion of assimilation: the larger and smaller arcs are referred to the same center. This class of illusions is, naturally, very wide. Finally (6), we may perhaps add, since by certain theorists they are connected with the geometrical optical illusions, the group of visual spaychology. Some investigators make them entirely a matter of perception, conditioned upon the structure and function of the sense-organ; they work with such factors as the nature of the retinal image, the direction of fixation, the movements of the eye. They point out, for instance, that reversal of perspective in class I can always be brought about by a shift of fixation, and that the spontaneous reversals noticed in ordinary observation are invariably connected with such shift, unconsciously made. They point out, again, that the extension and contraction of the lines in the Müller-Lyer figure may very well depend npon furtherance and arrest of eye-movement, according to the direction of the oblique end-pieces. Others, on the contrary, appeal, if not outright to such mental faculties as 'will' and 'imagination,' at any rate to purely psychological conditions; they make the Illusions a matter not of perception but of judgment and association. The Müller-Lyer lines lengthen and shorten with the nature of the end-pieces because we read our own mechanical activities into the figure, feel ourselves in it as free or as constrained: eye-movements, save possibly as the vehicle by which these activities, efforts, and tensions come to expression, have nothing to do with the illusion. Between these extremes lie various forms of mixed interpretation; and it may be said definitely that, in the present state of our knowledge, recourse must be had for explanation of the judgment theory cannot deny the influence of fixation in the illusions, if it has how as y

futne synthetic survey of space psychology.

5. In the pietorial arts, an imitation of the appearance of nature which is intended to create the impression of reality.

You cannot go beyond illusion in that direction, and yet illusion will only give you the sort of pleasure you derive from looking at a rope-dancer.

W. Armstrong, in Portfolio, N. S., Feb., 1895, p. 73.

W. Armstrong, in Portiono, N. S., Feb., 1830, p. 10.

Arrow-head and feather illusion, the illusion of the Miller-Lyer figure. See *figure.—Von Recklinghansen's illusion. See *illusion, 2.

illusionary (i-lū'zhon-ā-ri), a. [illusion + -aryl.] Having the characteristics of an illusion.

sion; fallacious; illusory.

The altered and illusionary perception of these numerons sensations increases with the concentration of the attention npon the self. Buck, Med. Handbook, V. 131. illusorily (i-lū'sō-ri-li), adv. In an illusory manner; by way of illusion.

It is not that we see aright but indge wrongly: we actually see illusorily.

E. B. Titchener, Exper. Psychol., I. L 152.

Illusory form. See *form.—Illusory power or appointment. See *power1.

illustration, n. 5. In music, same as develop-

ment [Rare.]

Illyrian, n. 4. The language of Illyria, or the group of ancient dialects represented by the

modern Albanian; also applied to the modern Slavic dialects of the same or adjacent distriets.

Illyric (i-lir'ik), a. and n. Same as Illyrian. Hocan (i-lō'kan), a. and n. Same as *Ilo-

Ilocano (il-o-kä'no), a. and n. [Philippine Sp., ⟨ Hocos, name of two provinces, prop. 'river men' (Tagalog ilog, river).] I. a. Of or pertaining to the Ilocanes or their language.

1. A member of one of the Malay tribes of the Philippine Islands, inhabiting the extreme northwestern part of Luzon. - 2. An inhabitant of Ilocos without reference to race.

-3. The language of the Ilecanos.

I. L. P. An abbreviation of Independent Labor

ilumba (i-löm'bä), n. [Aboriginal name in central Australia.] An Anstralian timbertree, Eucalyptus lesselaris, by the settlers commonly called Moreton Bay ash. See *asht. Ilyanthidæ (il-i-an'thi-dē), n. pl. [NL., \langle Il-yanthus + -idæ.] A family of zoantharians, of the order Actiniidea, which have free forms imaginate (i-maj'i-nāt), v. t.; pret. and pp. immersion, n. 7. An antiquated term for the not adhering by a basal disk and the aboral imaginated, ppr. imaginating. [L. imago (-gin-), introduction of a solid substance into a liquid

end of the body rounded. It includes the genera Ilyanthus, Halcampa, and Peachia.

Ilyanthus (il-i-an'thus), n. [NL. (Dana, 1846), 1976, 1 (Gr. inic, mud, + aνθος, flower.] The typical

Str. terg, mid, + arboc, flower.] The typical genus of the family Hyanthidæ.

ilyogenic (il'i-ō-jen'ik), a. [Gr. ίλις, mud, + -γενης. -producing, + -te.] In petrog., of argillaceons origin: applied to rocks derived from mnd. Renevier, 1881.

Ilyophidæ (il-i-of'i-dē), n. pl. [NL., < Ilyophis + -idæ.] A family of deep-sea eels from the

 Hyopniaæ (11-1-01 1-de), n. pt. [NL., \ Ityopais + -idæ.] A family of deep-sea eels from the eastern Pacific, commonly called ooze-eels.
 Ilyophis (i-li'ō-fis), n. [NL., \ Gr. iλ'iç, mnd, + όφις, snake.] A genus of deep-sea eels of the family Ilyophidæ. They are found in the castern Pacific. eastern Pacific.

Hypnus (i-lip'nns), n. [NL., $\langle Gr. i\lambda i \varepsilon, mnd, + i\pi n o \varepsilon$, sleep.] A genus of small fishes, of the family Gobiidæ, which inhabit mud-flats on the western coast of the United States. Ilypnus (i-lip'nns), n.

on the western east of the United States. image, n.—Dermal image, in psychol., an image of a demial sensation; an image of pressure, cold, warmth, or cutaneous pain.—Generic image, in psychol., a composite image derived from a number of like perceptions and standing to these much as the composite photograph stands to its originals: regarded by many psychologists as the vehicle or representative of the abstract idea.

as the vehicle or representative of the abstract idea.

Abstraction and generalization with no possible aid from language. These are called generic images by fluxley, Galton and Ribot. They are the same as Romanes's recepts, and are intermediate between the pure image on the one hand and generalizations on the other.

Gustatory image, in psychol., a reproduced sensation of taste; an image which stands to the peripherally excited sensation of taste as the image of a color stands to the peripherally excited color-sensation.—Haptical image, in psychol., a reproduced haptical sensation as the image of a color stands to the peripherally excited color-sensation.—Haptical image, in psychol., a reproduced haptical sensation as the image of a color stands to the peripherally excited sensation as the image of a color stands to the peripherally excited naptical sensation as the image of a color stands to the peripherally excited sensation.

Haptical images, beside being vague and ill defeat in indication.

Haptical images, beside being vague and ill defeat indication.

Haptical images, beside being vagne and ill-defined, offer peculiar difficulties. Amer. Jour. Psychol., N 1. 25. offer pecunar difficulties. Amer. Jour. Psychol., N1. 25. Heteronymous images, in physiol. optics, the two images seen in binocular vision when the eyes are focused upon a point beyond the object.—Homonymous images, in physiol. optics, the two images seen in binocular vision when the eyes are focused upon a point nearer than the object.—Kinesthetic imags, in psychol., a mental representation in kind of a peripherally aronaed kinesthetic sensation, or group of kinesthetic sensations; a centrally excited kinesthetic sensation or sensation group.

I have no doubt in my own case of the existence of

I have no doubt, in my own case, of group.

I have no doubt, in my own case, of the existence of visual and anditory images. . . I have no doubt, from the reports of others, of the existence of free kinaesthetic images, verbal or other.

Jour. Philos., Psychol. and Sci. Methods, Jan. 21, 1903,

Latent image, in photog., the invisible image resulting from the action of light upon a sensitive photographic surface, which quickly becomes perceptible when treated with a reducing agent or developer.—Olfactory image, in psychol., a mental representation in kind of a peripherally aroused olfactory sensation; a centrally excited ollactory sensation.

In the two following cases, the olfactory image only exists in a single instance, and appears to be produced by the combined operation of concomitant circumstances.

Ribot (trans.), Psychol. of Emotions, p. 145.

Ribot (trans.), Psychol. of Emotions, p. 145.

Purs image, in psychol., an individual mental representation in kind of a peripherally aroused sensation or sensation-group; a concrete idea, as opposed to the generic image or the concept. Amer. Jour. Psychol., XIII. 201.

—Purkinje's image. (a) Same as Purkinje's figures (which see, under figure). (b) Images (as of a candle flame) reflected from the anterior and posterior surfaces of the crystalline lens and from the front of the cornea. The middle image (that from the anterior surface of the lens) varies in size and position as the eye is alternately accommodated for a farther and a nearer point. E. C. Sanford, Exper. Psychol., p. 93.—Real imags, any image formed at the actual intersection of rays brought to focus by an optical system: opposed to virtual image (which see, under virtual).

imagerial (im-ā-jō'ri-al), a. [Irreg. < imagery +-alI.] Relating to imagery; symbolic; employing figurative illustrations.

Herat is called, after the imagerial way of the Easterns, the key of India. Household Words, IV. 230. N. E. D.

imagerially (im-ā-jē'ri-al-i), adv. Figuratively. Ladies are creation's glory, but they are anti-climax, recoil, cross-current; morally they are repentance, penance; imagerially, the frozen North on the young brown buds burating to green. G. Meredith, Egoist, xx.

image-space (im'āj-spās), n. In optics, the space or region pertaining to any optical system within which the images of all the points of a given space, called the object-space, are situated. P. Drude, Theory of Opties, p. 15. Imaginal bids. See *bud1.—Imaginal fold. Same as imaginal disk.

[Aboriginal name in imaginary. I. a.—Imaginary number, unit. See **number*, etc.

H. n.—Galois imaginary, a kind of Imaginary number occupying the same position in the theory of congruences that is occupied by the ordinary complex numbers in the theory of equations.—Pure imaginary, a neomonic number.

image, + -atc2.] In entom., to transform from a pupa into an imago.

imagination, n. 5. In contom., the act of transferming into an image or of reaching the imaginal stage: said of insects completing their metamorphosis.— Imagination consciousness, in psychol., consciousness as it is constituted and disposed during the exercise of imagination; the contents and arrangement of contents characteristic of the imagining mind. E. B. Titchener, Exper. Psychol., I. i. i. imbalance (im-bal'ans), n. [im-3 + balance.] Defective balance; specifically, a lack of equality in the tension and contractile strength of the eve-muscles, leading to heterophoria. imaginal stage: said of insects completing

of the eye-muscles, leading to heterophoria.

Med. Record, Feb. 7, 1903, p. 211.

Imbauba ant. See *ant1.

imbe (im-bā'), n. [Brazilian, < Tupi imbé.] A

liana.

Imbibition theory, in bot., the theory that the sap of plants ascends by a chemical process in the cell-walls and not by a physical process carried on by the vessels: proposed and defended by Sachs.—Water of imbibition. (a) The water held by the action of the molecular forces within the pores of a substance which is soaked but not submerged; specifically, the maximum amount of water which the soil is capable of retaining above the level of ground-water. (b) Same as quarry-water.

imbrocado (im-brē-kii'dē), n. Same as *embrocado. 2.

Same as *glyoxalinc. imido-acid (i'mi-dō-as"id), n. An incorrect form of *iminoacid.

imido-ether (ī'mi-dō-ē"ther), n. An incorrect form of *iminocster.

imino. [A combining form of *imino, <im-(ide) + -ine2.] A combining form used in chemistry to indicate the presence, in the compound, of the divalent group NH. Incorreetly imido.—Imino-acid, an acid which contains the group: NII combined with the hydrocarbon radical of the acid.

imino-ester (i'mi-nō-es'ter), n. A class of eompounds, IIN: ROR₁, prepared by the action of gaseous hydrogen chlorid on a mixture of a nitrile and an alcehol. The substances are basic and stable toward water. Also called, less eorrectly, imido-cther.

imitation, n.—Laws of imitation. See *law¹.
immatriculate (im-ā-trik'ū-lāt), v. t.; pret.
and pp. immatriculated, ppr. immatriculating.
[im-2 + matriculate, v. (after G. immatriculieren).] To matriculate.

immatriculation (im-ā-trik-ū-lā'shon), n. [G. Matriculation, "especially immatriculation.] in a German university.

immedial (i-mē'di-al), a. [immedi(ate) + -all.] A trade-name applied to certain coal-tar colors of the sulphid type.—Immedial black, blue.

See *black, *blue.
immediatism, n. 2. In U. S. hist., the prin ciples of the immediatists.

The speaker [II. G. Otis] was prepared to denounce the Society [for the immediate abolition of slavery] as a "dangerons association." . . Its immediatism makes it a revolutionary society.

Garrison, Life of William Lloyd Garrison, I. 499.

immediatist (i-mē'di-ā-tist), n. [immediate + -ist.] One who believes in immediate action; specifically, in U. S. hist., one who favored the immediate abolition of slavery.

He [H. G. Otis] denounced the "higher law that the Scriptures were anywhere opposed to Slavery; repeated that Christ "was not an immediatist."

Garrison, Life of William Lloyd Garrison, I. 500.

immediatorial (i-mē'di-ā-tē-ri-al), a. [in-3 +

mediatorial.] Net mediatorial.

When the object of the present Kingdom of Christ has been attained in the conquest of evil, there will be no longer need of a mediator. Then God will be known immediately. We shall know Him, when the mediatorial has merged in the immediatorial, in a way more high, more intimate, more sublime than even through Christ.

F. W. Robertson, Lectures on Epistles to Cor., Lecture xxx.

Immemorial usage. See *usage.
immergence (i-mer'jens), n. [immerge +
-ence.] The act of immerging or plunging or
sinking into or under anything; immersion: as, immergence in water.

immersement (i-mers'ment), n. Same as *im-

reagent in order to produce chemical change, as the calcination of tin by immersion in nitric acid. Center of immersion. Same as center of dis send.—center of immersion. Same as center of displacement. Immersion system, in microscopy, an objective lens system designed for use with a layer of liquid between the objective and the coverglass. See immersion, 5.—Oll-immersion lens. See *lens.—Wedge of immersion. See *wedge1.

immethodic (im-e-thod ik), a. [im-3 + me-thodic lim-e-thod ik], a. [im-3 + me-thodic lim-e-thod ik].

thodic.] Same as immethodical.

immigration, n.-Bureau of Immigration. See

immigrator (im'i-grā-tor), n. An immigrant, Lytton, N. E. D.

immigratory (im'i-grā-tō-ri), a. [i + -ory.] Pertaining to immigration. [immigrate

Both immigratory and emigratory [movements of birds].

The Naturalist, Jan. 13, 1897.

immissivity (i-mi-siv'i-ti), n. [in-2 + missive + -ity.] Absorbing power for radiation, expressed either in terms of that of a black body or in absolute measure. pressed either in terms of that of a black body or in absolute measure. Like emissivity, which is the corresponding physical constant for radiation, immissivity is defined in various ways: sometimes as the quantity of heat absorbed per second by a square certimeter of surface when the difference of temperature between the absorbing body and its surroundings is 1°C. A more usual measure of immissity is by means of the coefficient of absorption. See absorption of light.

immixture² (i-miks'tūr'), n. [in-2 + mixture.]
The action of mixing; commingling; the condition of being mixed up in (something).

It is principle has enabled the court to avoid an im-

It [a principle] has enabled the court to avoid an immixture in political strife which must have destroyed its credit.

Bryce, Amer. Commonwealth, 1. xxiv.

immoderacy (i-mod'e-rā-si), n. Want of moderation. Sir T. Browne, Christian Morals, ii. §1. immodulated (i-mod'ū-lā-ted), p. a. [in-3 + modulated.] Unmodulated.

modulated. Unmodulated.

J. A. Symonds, Shelley, p. II. N. E. D.

immolation, n. 3. The title of the encharistic preface in the Gallican liturgy: so called because it is an introduction to the sacrifice of the mass. See preface, 2.

immoralist (i-mor'al-ist), n. [immoral + -ist.]

One who opposes or disregards the principles of morality.

of morality.

That arch im-moralist . . . Goethe. Mrs. Craik. immoralize (i-mor'al-īz), v. t.; pret. and pp. immoralized, ppr. immoralizing. To demoralize; make immoral.

Immortal flower. Same as immortelle.
immotive (i-mô'tiv), a. [in-3 + motive.] Incapable of moving or of being moved. Feltham, Resolves, I. 190. N. E. D.
immundity (i-mun'di-ti), n. [L. *immundi-

tas, besides immunditia and immundities, \(immundus, unelean: see immund.] Uneleanness; an unclean or impure thing.

The ascription to Sappho of the various extravagances and immundities of the common myth.

E. H. Pember, Tragedy of Lesbos, Pref., p. 11. N. E. D.

E. H. Pember, Tragedy of Lesbos, Pret., p. 11. A. E. D.

immune. I. a.— Immune body. Same as *amboceptor.— Immune proteid, any protective albuminous
substance, in the sense of an antitoxin or a bacteriolysin.

— Immune serum, the serum of an immunized animal,
containing the specific antibody to the substance used in
immunization. See *immunity, 5.— Partial immune
body, one of a number of bodies of which, according to
Ehrlich, each immune body is composed. See *immunity, 5.

II. n. One who is exempt; specifically, one

who is protected from a particular disease by inoculation or by a previous attack.

immunify (i-mū'ni-fi), v. t.; pret. and pp. immunifed, ppr. immunifying. [L. immunis, safe, + -ficare, < facere, make.] To make immune; immunize.

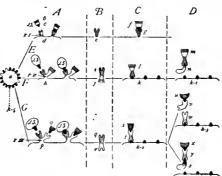
immunist (i-mā'nist), n. [immune + -ist.] One who erjoys a certain exemption or immunity. See immunity, 1.

It is convenient to borrow a term that French writers have coined) is entitled to many of the fines and forfeitures that arise from offences committed within his territory.

F. W. Mattland, Domesday Book and Beyond, p. 277.

immunity, n. 5. In pathol., a lack or absence of susceptibility to disease. This may be either natural or acquired. Natural immunity may be of the most varied character. Thus it is found that animals are altogether insusceptible to many diseases which are common in man, such as yellow fever, smallpox, scarlet fever, measles, etc.; the cold-blooded animals, as a class, are free from many diseases which are common in the warm-blooded animals; birds and reptiles are exempt from tetanus, mice and rats from diphtheria. Again, children are much more prone to certain diseases (as measles, scarlatina, diphtheria, etc.) than adults. Certain individuals appear immune against diseases to which others of the same species readily succumb. A familiar example of acquired immunity, on the other hand, is that which follows an attack of yellow fever, or smallpox, typhold fever, scarlet fever, etc. Immunity of this character, which depends upon actual infection, is called active immunity, since the body itself is active in its production. This is in contradistinction to passive immunity, immunity, n. 5. In pathol., a lack or absence

which is referable to the introduction of protective substances from without. Such immunity is seen, for example, following protective injections of diphtheria antitoxin. Knowledge regarding the essential factors which are operative in the production of immunity to disease is still very defective, but many points have been worked out from which a general lidea of the process can be formed. Through the researches of Ehrlich and his pupils in Geroany more especially, and of Metchnikoff and Bordet in France, besides many others, the concept of immunity has been materially amplified; for it has been shown that the animal body has a mechanism of self-protection which is of the most extensive character and is directed not only against the harmful effects of bacteria but also against all alien cellular elements and cell-products of whatever kind, in so far, at least, as these latter are of an albuminous character. Thus it has been ascertained that the injection of certain soluble toxins leads to the production of corresponding antitoxins, as in diphtheria, tetanns, botulism, and poisoning with certain vegetable toxins, as rich, abrin, crotalin, etc. Similarly, the introduction of various tissue-cells of an alien species leads to the formation of corresponding evtolysins or cytoxins and a production of corresponding evtolysins or cytoxins and a benefit of the production of corresponding cytolysins or cytoxins and a benefit of an alien species which is referable to the introduction of protective subleads to the production of corresponding antitoxins, as in diphtheria, teanns, botulism, and poisoning with certain vegetable toxins, as ricit., abrin, crotalin, etc. Similarly, the introduction of various tissue-cells of an alien species leads to the formation of corresponding cytolysins or cytotxins, such as hemolysins, leucolysins, neurolysins, endotheliolysins, spermatolysins, and so on apparently without limit. Then, again, it was shown that the injection of certain cells calls forth the production of corresponding agalutinins, which cause the clumping or coalescence of the cells in question. Various albuminous substances similarly lead to the production of bodies which, when brought together with the first, cause the formation of precipitates—the precipitins. There are also the coagulins, which result on injection of certain albumins; the antiferments; and so on. Thus it is seen that the introduction into the body of almost any foreign substance of an albuminous character (antigen) is followed by the production of a corresponding antagonistic or antibody. It is accordingly necessary to extend the meaning of the term inmunity to include the general defensive reaction on the part of the body to the action of foreign cellular elements or their constituents. As regards the mechanism by which the various antibodies are formed and immunity is accordingly produced opinions differ, but there is a general tendency to accept the explanation offered by Ebrlich and his pupils, which is based upon the now famous lateral-chain theory (see below). The general study of immunity has led to a vast amount of experimental research, and to results of the utmost fatal diseases to which man is subject. Tetanus is now snecessfully combated by an antitetanin. Snake-bite poisonling, which in India is annually responsible for many thousands of deaths, is readily amenable to specific treatment has lowered the fatality percentage or rabies to nearly one per cent. In many other diseases to which man is subject altogether satisfactory



General Scheme Illustrating Ehrlich's Lateral-chain Theory

General Scheme Illustrating Ehrlich's Lateral-chain Theory, A, action of immunizing substances (J. 5.) upon receptors I, II, and III (rI, rII, rIII) of the hody-cells; R, cast-off free receptors (haptins); C, action of antibodies upon the soluble products (toxins) of cells or the cells themselves; D, action of anti-agglutinins, anti-immune bodies, anticomplements, which result on injection of agglutinins, hemolysins, etc.; E, soluble products —toxins, ferments; F, insoluble substances, producing agglutinins and coagulis; G, insoluble substances, producing agglutinins and coagulis; G, insoluble substances, producing agglutinins and coagulis; G, insoluble substances, leading to production of cytotoxic (bactericidal) immune substances; b, toxophoric group; d, h, p, body-cells; k (k-t to k-5), cells used in immunization; o, complement; e, antitoxin, antiferment; t, hap-tophoric group; t, complement; e, antitoxin, antiferment; body of the hemolysins, bacteriolysins, etc.; f, toxin; t, antitoxin; t, agglutinin; s, complement; t, immune body; m, agglutinin; t, complement; t, anticomplement; w, immune body; x, complement; y, immune body; x, complement; y, immune body; x, complement; Y, immune body; t, anti-immune body.

impair

groups, or haptophores, which will fit the receptors of the cell. Ehrlich recognizes three varieties of receptors, which he classifies as belonging to the first, the second, and the third order. Those of the first and second orders contain only one combining group for the alien material, which is to act upon the cell; for this reason they are termed uniceptors: while the receptors of the third order have two combining groups and are called amboceptors. In the case of the receptors of the second and third orders the alien material, antigen or immunizing body, as it is generally termed, is capable of producing its specific effect upon the cell only in the presence of a ferment-like substance which must be especially supplied, as the so-called complement in the case of receptors of the third order, while in those of the second such a complex represents an integral component of the receptor (the zymophoric group). If, now, a foreign substance of a harmful rature effects a union with some of the receptor, the zone, the cell in accordance with Welgert's overproduction theory, this loss, unless the cell has been injured beyond the possibility of recovery, is then not only made up by the production of other receptors of the same kind, but an overproduction occurs. The supernumerary side-chains are thrown off, and now circulate in the blood in the free state. In this condition they are known as haptines, and, like the original sessile receptors, they may be of the first, second, or third order, as already described. As their presence in the blood in the free state prevents the access of foreign cellular products to the cell, these haptines are antagonistic in their action to that of the alien material, and thus constitute true protective bodies. For this reason they are termed antibodies, or adaptation-products, the latter term indicating that they are formed as a result of an effort on the part of the body to adapt itself to the presence of the foreign substances. The sera in question are similarly known as ant

+ -ation.] The artificial adaptation of an animal to foreign cells or cell products, brought about by the injection of such foreign material. See

∗immunity, 5.

immunizator (i-mū-ni-zā'tor), n. One who or that which immunizes or renders immune.

immunize (i-mū'nīz), v. t.; pret. and pp. immunized, ppr. immunizing. [immune + -ize.] To produce immunity in; render immune.

immunochemistry (i-mū-nō-kem'is-tri), n. [immune + chemistry.] The chemical study of immunity. Arrhenius (trans.).

immunotoxin (i-mū-nō-tok'sin), n. [immune + toxin.] Antitoxin employed in the prevention of disease.

immure, v. t. 3. To build into a wall; imbed

in masonry.

In them [the walls] are imbedded a large number of marble blocks, many of them square bases, stuck end outmost into the masonry. A curious decorative effect is given by a course of small marble columns similarly immured, the ends showing as a string of white circles.

Geol. Jour. (R. G. S.), IX. 160.

imo (ē'mō), n. [Japanese name.] In Japan, a generic name for edible roots, such as yams, potatoes, sweet-potatoes, and taro. Used alone without a qualifying prefix, it is especially applied in Japan and in Korea to the taro, Caladium Colocasia, which is also called in Japan sato-imo. See Colocasia, tarol, and *gabi.

Imouthes (i-mö 'thēz), n. [Gr. Ἰμοίθης, also Ἰμοίθ, repr. Egypt. I-em-hotep.] I-em-hotep, an Egyptian god of medicine.

imp, n. 7. fishing-line. 7. The length of twisted hair in a

Imp. An abbreviation (a) of the Latin Imperator,

emperor; (b) of Imperatrix, empress, imp. An abbreviation (a) of imperative; (b) of imperfect (tense); (c) of imperial; (d) of impersonal; (e) of the Latin imprimatur, let it be printed.

printed.
impact-figure (im'pakt-fig"\(\bar{u}\)r), n. Same as percussion-figure (which see, under percussion).
impair², a. 2. Not one of a pair; odd; unmatched. Todd, Cyc. Anat., III. 829.

II. n. 1. An impaired or odd thing; an article without a mate.—2. In roulette, an odd number.

number.

The [roulette] wheel is divided into thirty-seven compartments, . . numbered from one to thirty-six, the thirty-seventh being zero. Pair indicates even numbers, impair odd numbers.

Encyc. Brit., XXXII. 304.

impala (im-pä'lä), n. [Also impalla, impallah, and pata; from an African name.] An African antelope of the genus Epyceros, which has rather antetope of the genus £pyeeros, which has rather long, divergent, lyrate horns. The best-known species is £. melampus of Sonth Africa, of a dark-red color, white below, standing about 3 feet high. A small race of this species inhabits Nyassaland. Another species, £. petersi, with black marking on the face, is found in West Africa, in Augola. Also known as pata.

impaludism (im-pal'ū-dizm), n. [L. in, in, + palus (palud-), marsh, +-ism.] Chronic malaria;

malarial cachexy.

impanel² (im-pan'el), v. t.; pret. and pp. impaneled, impanelled, ppr. impaneling, impanel-ling. [in-2 + panel.] 1. To decorate or fit with panels: as, a house impaneled with oak.— 2. To place as a panel in a wall.

Telford used to take much pleasure in pointing out to his visitors the painting of Westminster Bridge impanelled in the wall.

Smiles, Engineers, 11. 474.

imparasite (im-par'a-sīt), n. [in-3 + parasite.]
An insect which is predatory and carnivorous, but is not a parasite. Kirby and Spence.

imparlance, n.—General special imparlance, in law, an Imparlance in which the defendant reserves all advantages and exceptions whatsoever, including the right to a plea that the court has no jurisdiction of the cause.

The balance between two opposing impartances of morality. norality.

Shelley, Letter to Elizabeth Hitchener, Oct. 18, 1811.

[N. E. D.

imparticipable (im-pär-tis'i-pa-bl), a. and n. [in-3 + participable.] I. a. That can not be shared or divided.

In radiant thousands, the light in imparticipable royalty Leaderless, uncontrasted with the light Wherein their light is lost.

Bailey, Festus, x. 88.

II. n. A thing that can not be shared or divided.

Every imparticinable produces twofold orders of things participated. P. Taylor, Proclus, II. 359. N. E. D. impartivity (im-pär-tiv'i-ti), n. Imparting power; specifically, the power of an electric heater to impart heat to its surroundings.

Where high temperatures and rapid rates of impartivity are required lower variable voltages are used.

Elect. World and Engin., Jan. 9, 1904, p. 85.

impasto, n. 2. In ceram., enamel colors or slip laid so thickly on the ware, in decoration, as to stand out from its surface in relief.

to stand out from its surface in relief.

Impatientaceæ (im -pā'shi-en-tā'sē-ē), n. pl.
[NL. (Bornhart, 1895), < Impatiens + -aeeæ.]

A family of dicotyledonous choripetalous plants of the order Sapindales, the jewel-weed family, typified by the genus Impatiens (which see). There is only one other monotypic genus, Hydrocera, a native of the East Indies. The family has generally been called Balsaminaeeæ, a term based on an untenable genus name and therefore invalid.

impayable (im-pā'a-bl), a. [OF. empayable, unappeasable, not to be paid for, < in-priv. + payable, payable.] 1. That can not be paid: as, impayable debts or obligations. Monthly Rev.,

impayable debts or obligations. Monthly Rev., XXIII. 60.—2. Beyond payment; priceless.

[Colloq., French use.]

The cheese, the fruits, the salad, the olives, ... and the delicious white wine, each in their way were impayables: and the good marquis ... observed that his guests did sincere homage to their merits.

Scott, Quentin Durward, Introd., p. xxix.

impecuniary (im-pē-kū'ni-ā-ri), a. [in-3 + pecuniary.] 1. Impecunious.

This day have I received information from my man of law of the non—and never likely to be—performance of purchase by Mr. Claughton of impecuniary memory.

Byron, Letter 188, Works, III. 95.

2. Having no relation to money; not pecuniary.

It is in vain that in this hemisphere we endeavour after impecuniary fancies.

Bayehot, Literary Studies, L. 268. N. E. D.

imped (im'ped), n. [NL. *impes (imped-), tr. Gr. ἀπους (Aristotle), ζ in-3 priv. + pes (ped-), foot.] An animal without feet.

Aristotle had divided the group (warm-blooded vertebrates) into bipeds, quadrupeds, and impeds. The quadrupeds formed the great bulk. The impeds living in the sea, as fishes, were warm blooded and breathed air; the bipeds were ourselves.

Owen, in Life, 11. 119. Owen, in Life, 11. 119.

impedance, n. Impedance is the apparent resistance of an alternating-current circuit, or the ratio of the electromotive force consumed by an alternating current, divided by the current. On account of the electromotive force consumed by self-induction, the apparent resistance with alternating currents is greater than that with direct currents, though the power-consumption is the same. The impedance consists of two components — resistance, which

consumes power, and reactance, which is the wattless resistance due to self-induction. See resistance, 3, and *reactance.—Absolute impedance, impedance expressed in the absolute nuits of the c. g. s. system.—Impedance factor. See *factor.—Internal impedance, in elect., the square root of the sum of the squares of the internal resistance and reactance. resistance and reactance.

A synchronous motor of internat impedance Z. Steinmetz, Elements of Electrical Engineering, p. 102.

mpeller, n. 2. Specification wheel or pumping element of a centring wheel or pumping element of a centring or pump.

The conoidal pump is especially designed for pumping large volumes against low heads. In general appearance, it is somewhat different from the ordinary centrifugal pump, due partially to the widening of the pump chamber to admit a special form of impeller.

Elect. Rev., Aug. 27, 1904, p. 318.

Lect. Rev., Au

impenetrate (im-pen'ē-trāt), v. t.; pret. and

An abbreviation of imperative

impartance (im-par'tans), n. [impart+-ance.] Imperata (im-pe-ra'ta), n. [NL. (Cyrilli, 1792), named in honor of Ferrante Imperato, an imper. named in honor of Ferrante Imperato, an Italian apothecary who in 1599 published a natural history of Naples.] A genus of grasses related to Saecharum. They are erect, often tall perennials with long, cylindrical, spike-like terminal panieles, each spikelet surrounded by long, silvery, silky hairs. There are five species, widely distributed in tropical and subtropical regions. I. arundinaeca is the cogon of the Philippine Islands and the alang-alang of the Malay Archipelago. See **alang-alang.*

imperation (im-per-ra'shon), n. [NL. *imperation(n.). \(\lambda \). imperation command the see intercation of the property command the second content of the property command the property command the second content of the property command t

atio(n-), (L. imperare, command: see impera-tive.] The power or action of governing; commanding.

What is dominion? It is either the power of contrectation, or else that of imperation. . . . Under the head of the power of imperation is comprised all the power which the sovereign is accustomed to exercise.

**Part Ann. Point Internet Law Works 11 540

Bentham, Prin. Internat. Law, Works, II. 540.

imperative, n.—Social imperative, social constraint and sanction within the domain of helief and action.

imperf., impf. Abbreviations of imperfect. Imperfect square, cube, etc., a number whose square root, cube root, etc., is irrational.

imperfective (im-per-fek'tiv), a. [imperfect + -ive.] 1. Imperfect.—2. Serving to express action not completed (either continuous or repeated at various times): applied to a form or 'aspect' of the Slavie verb.

imperforate, a. 2. As applied to the shells of the gastropod Mollusca, having the inner parts of the whorls coalesced into a columella leaving no opening or perforation. In the Echinoidea, or sea-nrchins, the mamelons which support the spines are imperforate when not pierced by a central foramen.

imperial, n. 11. A member of the imperial or emperor's party; a soldier of the imperial army.

The Emperor and Germans, or If you please the Imperials, R. Johnson, Kingdom and Commonwealth, p. 101. N. E. D.

12. An imperial personage; an emperor.

I have received my proportion, like the prodigious son, and am going with Sir Proteus to the Imperial's Court. Shak., T. G. of V., ii. 3.

At twelve the Imperials [the Emperor and Empress of Russia] retired and dismissed us.

Motley, Correspondence, I. 89. N. E. D.

Mottey, Correspondence, I. 89. N. E. D. posure of a decree.

imperialine (im-pō'ri-a-lin), n. [NL. imperialis impound, v. t. 3. To gather and retain (water) in a reservoir, basin, or pond. levorotatory alkaloid, C₃₅H₆₀O₄N, contained in the bulbs of Fritillaria imperialis. It erystallizes in short needles, darkers at 2180 G. predicable.]

1. That cannot be predicated. tallizes in short needles, darkens at 248° C., and melts at 254° C.

imperialism, n. 3. Specifically—(a) "In recent British politics, the principle or policy (1) of seeking, or at least not refusing, an extension of the British Empire in directions where trading interests and investmer's require the protection of the flag; and (2) of so uniting the different parts of the Empire having separate governments, as to secure that for certain purposes, such as warlike defence, intornal commerce, copyright, and postal communication, they shall be practically a single state." N. E. D. (b) In United States politics, the extension of the rule of the American government over foreign countries acquired by conquest or purchase, without a

corresponding grant to them of the constitution or of a republican form of government; the governing of other peoples on the monarchical principle, as subjects rather than as

citizens.—Liberal imperialism, in recent British politics, the views of the Liberal imperialists.

imperialist, n. 3. Specifically, in recent and particularly in British and United States poliimpediment, n.—Prohibitive impediments, in law, impediments to marriage which subject the offending party to punishment in ease of marriage in spite of them, but which are not sufficient to annul or avoid the marriage. Relative impediments, in law, in pediments to marriage eaused by the parties being within the prohibited degrees of consanguinity.

impeller, n. 2. Specifically, the revolving wheel or pumping element of a centrifugal fan or nump.

of intestine, after exsection of a segment, by the insertion of one into the other and retention by sutures.

implementiferous (im/plc-men-tif'e-rus), a. [implement + L. ferre, bear, + -ous.] Bearing implements or tools; containing stone implements made by early races of men, as certain geological deposits.

Collections from implementiferous gravels at Swansombe, in Kent. Nature, Oct. 29, 1903, p. 636. combe, in Kent.

implexed (im'plekst), a. [L. implexus, entangled, +-ed².] In bot., entangled or interlaced; implex. F. V. Coville.

Implication texture. Same as graphic *texture. implode (im-plod'), r.; pret. and pp. imploded, ppr. imploding. [im-2+(cx)plode.] I. intrans. To burst inward: opposed to explode.

This oulh imptodes, then the pressure is applied to the interior of the protected bulb, which, in its turn, explodes.

Nature, Nov. 24, 1881, p. 92.

II. trans. To pronounce by implosion. N. E. D.implosion, n. 2. In phonol., see the extract.

The implosion consists in closing the glottis simultaneously with the stop position, and then compressing the air between the glottis stoppage and the month one.

H. Sweet, Handbook of Phonetics, § 224.

implosive (im-plō'siv), a. and n. [implos(ion) + -ive.] I. a. In phonol., produced by implosion: as, implosive stops.

II. n. A sound formed by implosion.

Some sounds are produced without either out or in-breathing, but solely with the air in the throat or mouth. The 'implosives'... are formed in the former, the suction-stops or 'clicks' in the latter way.

H. Sweet, Primer of Phonetics, § 90.

impluvium, n. 2. Same as compluvium.

imp. meas. An abbreviation of imperial measure. Dunglison.

impost-block (im'post-blok), n. An impost taking the form of a separate member with a definite character, as in Byzantine and early Italian architecture where it rises like a separate capital above the capital proper of column. The term is also used for the two blocks from which an arch in a continuous wall seems to arise and upon which it bears.

imposure (im-po'zūr), n. [impose+-ure.] Tho act of imposing or of laying on: as, the im-

predicable.]
1. That cannot be predicated or affirmed. Cockeram.—2. That cannot be predicted. [An erroneous use, doubtfully ascribed in the following case.]

ascribed in the lonowing case. J

There is, no doubt, one constant element in the reckoning, namely human nature, and perhaps another in human nature itself—the tendency to reaction from all extremes; but the way in which these shall operate, and the force they shall exert, are dependent on a multitude of new and impredicable circumstances.

Larcell, Prose Works, V. 126.

impregnation, n.—Constitutional impregnation, the impression upon the constitution of an organism as a whole which is supposed by Elmer to be made by a characteristic of long standing. See the extract.

If a form remain stationary at a low phyletic stage, then, from purely constitutional causes, the longer it remains at that stage the more does it become different, because its characters stamp themselves more and more deeply on the organism (constitutional impregnation).

Eimer (trans.), Organic Evolution, p. 51.

Hypodermic impregnation, in some leeches, as Clepsine, fecundation by the passage of spermatozoa which are deposited on the skin in spermatophores, through the skin into the colomic spaces and thence probably to the

imprescience (im-pré'shigns), n. [in-3 + preknowledge or prescience.

Improvidence, imprescience, and selfish ease. De Quincey, Posthumous Works, I. 235, note. N. E. D.

impress1, v. t. 5. In elect., to apply electromotive force to (a circuit) from some outside source or to create difference of potential in (a conductor).

impressed, p. a. 2. In elect., supplied to a circuit by some outside source: for example,

generator.

impression, ".-- Method of impression, in experpsychol.: (a) Any method of psychological analysis which involves the presentation of stimuli to the observer and the recording of his introspective judgments. (b) More particularly, a method for the study of the affective processes, consisting in the presentation to the observer of a large number of stimuli, serially or in pairs, and in the recording of the affective judgments, absolute or relative, passed upon these presented stimuli: opposed, in this sense, to the method of *expression.—Sulphur impression, an impression or east made on so-called plastic sulphur, which is a ductile mass produced by pouring metted sulphur into water.

impressionalistic (im-presh*on-al-is*tik), a.

impressionalistic (im-presh "on-al-is'tik), a. Same as impressionistic.

impression-cylinder (im-presh'on-sil"in-der), n. The cylindrical surface in a printing or other press which carries the type or the pattern to be impressed upon the paper or cloth fed to it by the feeding-rolls. See cylinder, 2(c).

impressionism, n. The name was first given to an advanced school of modern painting in France, based on the principle that effects of light in nature are momentary, and that the painter, if he wishes to be true to nature, should confine his attention and effort as closely as possible to the moment of their occurrence. In order to express the high key of natural light, a coteric of extreme impressionists, called pointillists, have used pure color laid on in points or dots. See the extract.

laid on in points or dots. See the extract.

The words Impressioniste, Impressionisme, are said to have arisen from a phrase in the preface to Manet's catalogue of his pictures exhibited in 1867 during the Exposition Universelle, from which he was excluded. "It is the effect," he wrote, "of sincerity to give to a painter's works a character that makes them resemble a protest, whereas the painter has only thought of rendering his impression." An alternative origin is a catalogue in which Claude Monet entitled a picture of sunrise at sea "Une Impression." The word was probably much used in the discussions of the group, and was caught up by the critics as characteristic.

Energy. Brit., XXIX. 412.

impression-resist (im-presh'on-re-zist"), printing, the material used as an elastic aid to give pressure to the paper which covers the inked type upon a printing-press. For strong elastic pressure that overlaps the face of the type, woolen blankets and india-rubber cloth are preferred; for a truly flat surface impression, as is needed in all engravings in relief, better results are obtained from the resist of hard cardboard.

impression-stitch (im-presh'on-stich), n. shoe-manuf., an imitation or false stitch on the soles of shoes.—Impression-stitch machine, a machine for marking shoe-soles in any form of fair stitch or other fancy sewing.

impressive, a. 3. In psychol., directed inward: producing an internal effect, or carrying a meaning for the subject of the experience: opposed to expressive. See method of *expres-

My fear or anger may chance to be expressive to another, but they must of necessity be *impressive* to me, *Encyc. Brit.*, XXXII. 65.

imprest², n.—Auditor of the imprest, an official of the department in charge of imprests. See *imprest of-*fice, under *imprest*.—Bill of imprest, an order for the drawing of money in advance. [Eng.]

number of elements, so that every substitution replaces the elements of each set only by all the elements of a set.

Such that every operation of the group either interchanges the objects of a subset among themselves, or changes them all into the objects of some other subset. When this is the case the group is called imprimitive in respect of the set; otherwise the group is called primitive. A group which is doubly-transitive, in respect of a set of objects, obviously cannot be imprimitive.

Encyc. Brit., XXIX. 121.

imprimitivity (im-prim-i-tiv'i-ti), n. The state or character of being imprimitive, as a group.

improbative, a.—Articles improbative.

improving, n. 2. In metal., an operation for inactive, a. removing a portion of the impurities from ar-

gentiferous lead by exposing the molten metal to the oxidizing influence of the air. The interpretation of the plane of polarization of a beam of light: opposed to optically active. See optically active substance, under active.

The condition of being without forego or preseience.

In previsation of a beam of light: opposed to optically active substance, under active.

In provisation of a beam of light: opposed to optically active. See optically active substance, under active.

In actose (in-ak'tōs), n. [inactore (gentiferous lead by exposing the molten metal

woman who improvises.

We will not speak of the enthusiasm excited by actresses, improvisatrici, female singers.

Marg. Fuller, Woman in the Nineteenth Cent., p. 48.

impsonite (imp'son-ît), n. [*Impson, a proper name (?), + -ite².] A kind of asphalt resembling albertite: it occurs in Indian Territory. the impressed electromotive force of a circuit impubescent (im-pū-bes'ent), a. [im-3+is] the electromotive force supplied to it by a generator. bling albertue: it occurs in Indian Territory. impubescent (im-pū-bes'ent), a. [im-3+is] the electromotive force supplied to it by a generator.

Elytra convex, not widened posteriorly, attaining their greatest convexity at the middle, very closely and rather strongly punctured, the apex of each rounded, their epipleuræ concave, impubescent. [Coleoptera.]

Proc. Zool. Soc. London, 1902, I. 186.

impulse, n.— Cardiac impulse, the heart-beat.

Impulsive action. See *action.

impulsivity (im-pul-siv'i-ti), n. [impulsiv(e) + -ity.] Impulsiveness; liability to hasty or violent action at the hest of a momentary impulse or transient emotion. C. Lombroso (trans.), Man of Genius, p. 348.

In the execution of many of those acts denominated crimes the offender exhibits the phenomenon of a brief period of violent activity, extreme impulsivity.

A. F. Chamberlain, in Pop. Sci. Mo., March, 1902, p. 419.

impunctate, a. 2. Having no punctæ or perforations; imperforate: technically applied to the shells of Brachiopoda, which may be either punctate or impunctate.

impuritanism (im-pū rī-tan-izm), n. [in-3 + inaja (in-ā-jā'), n. [Tupi inajā.] See inaja-puritanism.] Principles and practices opposed palm. to those of the Puritans; unscrupulousness in

religious matters.
imputation, n. 3. The erroneous ascription of effect to cause: as, the imputation of a disease to witcheraft. [Rare.]

Imputation, then, is the reference of a sense-impression, of which the mind is conscious as an effect, to a mistaken cause. Rep. Bur. Amer. Ethnol., 1898-99, p. clxxiii. Impx. A contraction of the Latin Imperatrix.

imsonic (im-son'ik), a. [im(itation) + L. sonus, sound, +-ic.] Characterized by words imitative of sounds: an artificial word, not in actual use. Max Müller, Science of Language (ed. 1891), II. vii.

imu (ẽ'mö), n. [Hawaiian imu, also umu.]
In the Hawaiian Islands, a pit used for baking meat or vegetables by means of heated stones. in¹. I. prep.—To be in it, to be actually engaged or participating in the matter or enterprise in question: usually with a negative, and often used exaggeratedly to imply 'not counted in the distribution of credit or honors or gains.' [Slang.]

II. adv.—Well in, profitably engaged (in speculation or business); hence, in general, well off. [Colloq., Australia.]

in⁴, n. and v. A simplified spelling of inn.

inaccentuation (in-ak "sen-tū-ā'shon), n. [in-3 + accentuation.] Lack of accentuation or emphasis; equableness. C. J. Smith, Accent,

Synonyms and Antonyms, p. 7.
inacceptable (in-ak-sep'ta-bl), a. [in-3 + ac-aeeeptable.] Unacceptable; not proper to be received.

Propositions for peace . . . appeared utterly inaccepta-ble. Lecky, England in the Eighteenth Cent., II. 445.

imprimitive (im-prim'i-tiv), a. [in-3+primi-tive.] Not primitive: in math., in group theory, applied to a group such that its elements can be divided into sets of an equal pace, the carapace varying from subtriangular to suborbicular, the rostrum simple or bifid, and the walking-legs often very long. It includes about 40 genera, among them Inachus, Macropodia, Hucnia, and Euprognatha.

Inachus (i'nā-kus), n. [NL. (Fabricins, 1798), ⟨ Gr. 'Iναχος, a river-god, son of Oceanus.]
The typical genus of the family Inachidæ.

inactivate (in-ak'ti-vāt), v. t.; pret. and pp. inactivated, ppr. inactivating. [inactive +-ate2.] To render inactive: applied to an immune serum the complement of which is being destroyed by heat or by age. Such a serum can be reactivated by the addition of fresh serum.

nactive, a. (e) In chem., causing no rotation in the inbreather (in-bre THèr), n. plane of polarized light.—Inactive molecules. See breathes.

*molecule.—Optically inactive, in phys. and chem., incapable of causing a rotation of the plane of polarization of a beam of light: opposed to optically active. See optically active substance, under active.

adequate + -ive.] Not of the same equiva-lence; inadequate; insufficient. inadequatively (in-ad'ē-kwā-tiv-li), adv. In-sufficiently. F. Hall, Hindu Philos. System, p. 120.

Inadunata (in-ad-ū-nā'tā), n. pl. [NL., neut. pl. of inadunatus: see *inadunate.] In the current classification of the Crinoidea, an order characterized by having the arms free above the first radial plates and the topmost joint of the stem the youngest. The order contains only very primitive Paleozoic forms.

inadunate (in-ad'ū-nāt), a. [NL inadunatus, (L. in-3 + adunatus, pp. of adunare, nnite: see adunation.] Not united; specifically, as applied to the calyxes of certain fossil crinoids, having the arms free above the first radial plates.

inæ. 2. A terminal combining-form in botanical classification, chiefly in Engler's system, denoting groups with the rank of subtribes. inæquipalp (in-ē'kwi-palp), n. One of the Inæauinalnia.

Inaquipalpia (in-ē-kwi-pal'pi-ä), n. pl. [NL., L. inaquis, unequal, + NL. palpus, pal-pus.] A group of trichopterous insects or caddis-flies in which the number of joints in the maxillary palpi differs in the two sexes. It includes the families Phryganeidæ, Limnophilidæ, and Scricostomatidæ.

inamovability (in-a-mö-va-bil'i-ti), n. The property or state of not being removable: as, the inamovability of judges.

inamovable (in-a-mö'va-bl), a. [in-3 + amovable.] Incapable of being removed; not subject to removal: applied to Roman Catholic rectors who are not removable at the will of the bishop, but only by due process of canon law, that is, by a formal and solemn canonical

Empress.

I. M. S. An abbreviation of Indian Medical inanga (ē'nang-ā), n. A name in New Zealand of two trout-like fishes, Galaxias attenuatus and Retropinna retropinna. They are also called whitebait and minnow, and in Tasmania the Galaxias is called jolly-tail. Also inaka.

inangulate (in-ang'gū-lāt), a. [in-3 + angulate.]

1. Angled in an inward direction, as certain stripes on the wings of Lepidaptera. Proc. Zool. Soc. London, 1898, p. 441.—2. Having no angles.

inanimate², a. 3. In gram., denoting inanimate things: applied to a phase of 'gender' distinction.

The distinction between animate and inanimate gender is still preserved in both Penobscot and Abenaki.

Amer. Anthropologist, Jan.-March, 1902, p. 27.

inao (ē-nä'ō), n. [Aino (Ainu).] A ceremonial object of the Ainos (Ainu), consisting of a wooden stick, often shaved, or with shavings attached, set up as an offering or considered as a messenger which conveys prayers to the deities. J. Batchelor, Tho Ainu and their Folk-Lore, p. 92.

inappertinent (in-a-per'ti-nent), a. [in-3 + appertinent.] Not appertinent. Coleridge.
inaugurative (in-â'gū-rā-tiv), a. [inaugurate + -ive.] Inaugural; inaugurating: as, an inaugurative ball; the inaugurative lecture of a course.

inaxon (in-ak'son), n. [Gr. lς (iv-), nerve, + άξων, axis.] In neurol., a nerve-cell with a long axon, or axis-cylinder process.

inbark (in'bark), n. In forestry, a condition of wood in which portions of the external bark

are included within the wood. It often occurs where branches separate from the trunk, and is caused by their growing together in the hollow of the fork. Sci. Amer. Sup., March 25, 1905, p. 24433.

inboard, a. 3. In mech., toward the inside; toward the main center or center-line: as, an

inboard stroke of the piston; an inboard bear-

ing.—Inboard profile. See *profile.
in-book (in'buk), n. Short for *in-clearing book.
inbound (in'bound), a. Bound homeward; coming in, as to a place or harbor: as, an inbound fishing-fleet.

One who in-

Man was not so much made, as breathed into life, by the quickening Spirit of God. He was formed in the very image of the Maker, the *Inbreather*, having in measure the thoughts, faculties, emotions of God.

A. Raleigh, Way to the City, p. 280.

inc., incorp. Abbreviations of incorporated. Incaic (ing-kā'ik), a. [Inca+-ic.] Same as Incan.

in-calver (in'kä"ver), n. A cow that is pregnant. [Rare.]

In no case should a cow be allowed to calve in a byre with other in-calvers.

Rep. Kan. State Board Agr., 1901-02, p. 347.

bringing forth her calf.

Incandescent gas-lamp, lamp, mantle, oil-vapor inchworm, n.—Linden inchworm, the larva of an burner. See *gas-lamp, incandescent light, under electric light, also *lamp1, *mantle, *burner.

incardinate2, v. t. 2. To institute formally as cardinal.

When he had accepted the office of Cardinal, but before he was incardinated.

Hook, Lives of Archbishops, II. 663. N. E. D.

incardination (in-kär-di-nā'shon), n. The formal act of institution or incorporation in a

church or clan.

The form of tonaure affected by the un-Romanised clans (of Wales), about which we hear so much later, is shown to have been originally a tribal badge, symbol of incardination in the sept.

Dublin Rev., Oct., 1897, p. 483.

Incarian (ing-kā'ri-an), a. [Inca + -arian.] Same as *Incan*. [Rare.] incarnadine, a. II. n. A color ranging from flesh-color to blood-red.

Incarnadine or flesh-colour.

Peacham, Compleat Gentleman, p. 155.

The field of Lützen, . . . not then for the last time to take the rich incarnadine of blood, was the apot which his death should make memorable for ever.

Trench, Gustavus Adolphus, i. 49.

incarnationist (in-kär-nā'shon-ist), n. [incarnation + -ist.] One who holds the doctrine of incarnation, that is, that the Divine Being has assumed human nature.

incasement, n.— Theory of incasement. (b) Swammerdam's theory of the preexistence in an insect's egg of the form of the larva, pupa, and imago, each stage being a distinct animal and one being contained inside the other like a nest of boxes.

M. Bridges, Pop. Mod. History, p. 423. N. E. D. incidence, n. 6. The actual fall of taxation upon a particular individual or piece of property, in distinction from its nominal or superiod distribution.

incast, n. 2. A casting or throwing inward: as, a fan-blower works by incast when it blows or forces the air into a space. Also used adjectively: as, an incast fan. Buck, Med. Handbook, I. 519.

Inca-stone (ing'kä-ston), n. A piece of iron pyrites polished for use as a mirror, as by the incident, a. 5. Same as afferent (c): noting Incas. Such objects are frequently several the nerves which convey impressions from the

inches across

inceas across.

inceal (in'sē-al), n. [F. incéal, referring to the incus, a bone of the internal ear, irreg. (L. incinerant (in-sin'e-rant), a. [ML. incinerans, incus (incud-), anvil: see incus.] One of the bones forming the gill-cover in fishes; the suboperculum. Starks, Synonymy of the Fish suboperculum. Starks, Synonymy of the Fish suboperculum. Skeleton, p. 515.

Specially dainty and richly worked spoons to serve spices and sweets were used in the fourteenth century. . . . An incense spoon with rock-crystal shaft, dating from about 1480, and several of agate are in the Ferdinand Rothschild bequest in the British Museum.

J. S. Gardner, Old Silver Work, p. 32.

incense-tree, n. 3. A tree of the genus Boswellia, especially B. Carterii and B. serrata. See olibanum.—4. In Australia, a name applied to some species of Pittosporum, on account of their fragrant flowers.

in-center (in'sen"ter), n. [in2 + center1.] The center of an inscribed circle.

incept, v. t. 2. Specifically, in biol., to take in (nutriment): said of organisms or cells. incept. An abbreviation of inceptive.

inch, "... Circular inch, the area of a circle one inch in diameter, which equals 0.7854 square inch. One square inch equals 1.2732 circular inches. The circular inch used in electrical calculations which involve the diameter and area of whres.—Inch of mercury, a unit of gaseous pressure; the pressure exerted by a vertical column of mercury one inch in height. It is .03342+ (or approximately \(\frac{1}{2} \)0) atmospheres.—Paris inch, a former measure of length, occasionally referred to in optics, the equivalent of 2.7 centimeters or 1.002 English inches.

lent of 2.7 centimeters or 1.002 English inches.

inch., incho. Abbreviations of inchoative.
inch-bones (inch'bonz), n. pl. [inch1 + bones.] incisodenticulate (in-sī-sō-den-tik'ū-lāt), a.

Bone-fragments (as distinguished from boneBone-fragments (as distinguished from bonelent of 2.7 centimeters or 1.002 English inches.

Having sharply cut teeth.

incisous, cut in, + NI. denticulatus, having fine teeth (see denticulate).] Having fine, Agr., II. 353. N. E. D.

inch-gauss (inch'gous), n. A practical unit of incisura (in-si-sū'rā), n. [L.: see incisure.] Fitzedward Hall, Hindu Philoa. System, p. 154. N. E. D. magnetic induction; a magnetic flux-density of An incisure; a fissure; a notch.—Incisura incognoscent (in-kog'nō-sent). a. [L. in-priv.

one line of force (or maxwell) per square inch

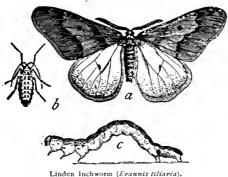
of cross-section.
inchman (inch'man), n. The bulldog ant: so called from its length. [Tasmania.] inchoacy (in-kō'a-si), n. [inchoa(te) + The state of being incipient or inchoate.

So ill satisfied was he [Clough] with his striking poem ["Amours de Voyage"], that he kept it nine years in Ms.

. What he doubted about in it was . . . its vigor and execution. Yet no execution could have been more perfect of the picture—a picture of inchoacy, I admit—which he intended to draw.

R. H. Hutton, Clough, in Literary Essays, p. 297.

in-calving (in-kä'ving), a. Said of a cow when inch-ton (inch'tun), n. A compound unit bringing forth her calf.



posed distribution.—Grazing incidence, in optics, incidence of a ray of light upon a reflecting surface in a direction such that the angle of incidence is nearly 90.—Principal incidence, in optics, incidence at such an angle that the difference of phase of the two components of the reflected ray is $\frac{\pi}{2}$; said of the metallic reflection of light.

periphery to the nervous centers.—Incident train. See *train1.

ashes by the burning off of organic matter.

Skeleton, p. 515.

incense², n.—African incense, an eleorealn from Boswellia Frereana. Also known as Luban elemior Oriental incipial (in-sip'i-al), a. [Irreg. < L. incipere, begin, + -ial.] Of the beginning; initial. [Rare.]

The incipial words of the Preambulum.
Way, Promptorium Parvulorum, 1843-65, Pref., p. xvi.

incipient, a. 2. In Heb. gram., noting the verbal tense or form with prefixed servile letters, otherwise called future, present, and imperfect. incipit (iu'si-pit), v. [L. incipit, 3d pers. sing. pres.ind. act. of incipere, begin: see incipient.]

'(Here) beginneth': the first word in a pre-liminary formula common in wedieval representations. liminary formula common in medieval manuscripts and early printed books, introducing the title or name of the work or of the preface or other part of it: as, "Incipit preambulum"; "Incipit prologus in libellum qui dicitur Promptorius Parvulorum," etc. Compare explicitor of the production of the producti plicit², v.

incipit (in'si-pit), n. [incipit, v.] The introductory words of a book or section of a book. Compare *explicit, n.

Incised work. See *work. incisodentate (in-sī-sō-den'tāt), a. [L. inci-sus, cut in, + dentatus, toothed (see dentate).] tremely subtile fluids.
incognite (in-kog'nit), a. [L. incognitus, un-Having sharply cut teeth.
known.] Unknown.

sharply cut teeth.

ischiadica, the notch or emargination in the pelvis which marks the point of union of the ilium and ischium; or, as in the pelvis of an ostrich, the elongate space between these bones.—Incisura pallii transversa, the space between the cerebrum and cerebelium into which the tentorium dips.

incisural (in-sizh'ñ-ral), a. [incisure + -al1.] Pertaining to an incisure.

rertaining to an incisure.
incitability (in-si-ta-bil'i-ti), n. Capability
of being stimulated or incited. Syd. Soc. Lex.
incitable (in-si'ta-bil), a. [incite + -able.]
Capable of being stimulated to action.
incivic (in-siv'ik), a. [in-3 + civic.] Lacking
the qualities of good citizenship: the opposite
of civic.

of civic.

Ye rise above the base Inciric herd, like Cato and Brutus, superior to a senate of cowards and hirelings.
W. Taylor, in Monthly Rev., XVII. 505. N. E. D.

incl. An abbreviation (a) of including; (b) of inclusive.

inclusive.

inclavation (in-klā-vā'shon), n. [inclav(ate) + -ation.] The condition of being held in a socket by curved roots, as a tooth. [Rare.]
in-clearer (in'klēr"er), n. [in1 + clearer.] In

in-clearer (in kler er), n. [in + clearer.] In London, the bank-clerk whose duty it is to represent his bank in the clearing-house and receive through it all the bills of exchange, checks, etc., payable by his bank; the inclerk. Called in New York settling-clerk. See

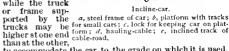
*in-clearing.
in-clearing (in'klēr*ing), n. [in1 + clearing.]
The bills of exchange, checks, etc., payable by a bank in any one day's clearing-house by a bank in any one day's clearing-house in the bank's in the bank's in transactions, and received by that bank's in-

The cruel inequality with which the gabelle incided mental or physical.

M. Bridges, Pop. Mod. History, p. 423. N. E. D. inclinatory (in-klī'nā-tō-ri), a. [inclinat(ion)]

+ ory.] Relating to the inclination or dip of taxation the magnetic needle. - Inclinatory needlet (naut.), the dipping needle.

incline-car (in-klin'kar), c n. A freightor passenger- b adapted car for use on an inclined or mountain road or inclined elevator. The plat-form and seats horizontal. are horizontal, while the truck



Me-

than at the other, to accommodate the car to the grade on which it is used.

The illustration represents an incline car on a narrow-gage industrial cable-railroad.

incluse, a. II. n. A monk or nun who, with the permission of the superior, was (in the middle ages) voluntarily immured for life within

toplasm.

Discontinuous elements or inclusions. In character these are most heterogeneous. They are fluids of various degrees of viscidity. Even very small areas are found to contain many chemically different inclusions. G. F. Andrews, in Sup. Jour. of Morphol., X11. 14.

Inclusion cyst. See *cyst.
inclusory (in-klö'sō-ri), a. 1. Inclusive: as,
between the two inclusory extremes.—2. Including several elements: as, ono inclusory statement.

The contents of each volume are fully given, for the most part with incipits and explicits.

Dublin Rev., Oct., 1897, p. 473. N. E. D.

Dublin Rev., Oct., 1897, p. 473. N. E. D. applied to forms of energy, such as heat and electricity, when they were thought of as ex-

a. incognitive (in-kog'ni-tiv), a. [in-3 + cogni-tive.] Without the faculty of cognition.

God made the soul cognitive; and who shall make it incognitive? Fitzedward Hall, Hindu Philos. System, p. 154. N. E. D.

Ignorant; unaware; without knowledge (of). incoherent, a. 3. In gool, noting textures consisting of loose sediments which have never been cemented. Geikie, Text-book of Geol. (4th ed.), p. 138.

incohesive (in-kō-hē'siv), a. [in3- + cohesive.] Not cohesive; not cohering.

Incommensurable number. Same as irra

tional *number, incommobility (in kom-ō-bil'i-ti), n. [in-3 + in-momentum in-incommore) + in-ity.] The quality [in-3 +*commobile (see commore) + -ity.] The quality of not being moved to anger or other emotions. Incommobility, which is called in Greek aopynoia, or a

disposition incapable of being excited to anger.

T. Taylor, tr. of Apuleius, Philos. Plato, II. 346. N. E. D.

incommunication (in-ko-mū-ni-kā'shon), n. Sp. incomunicacion; as in-3 + communication.] Sp. law, the state of a prisoner who, by order of a judge, is not permitted to see or incorrosible (in-ko-rō'si-bl), a. Same as in-hold communication with any one during his corrodible. confinement or until further order.

incommutative (in -kg - mū'ta - tiv), a. [in-3 + commutative.] Non-commutative.

Incompatible equation. See *cquation.
incompensated (in-kom 'pen-sā-ted),
Marked by lack of compensation: said
heart lesions. See *compensation, 6.

and incorrectly, used instead of incorrectible or *incorrosible.

a incr. An abbreviation (a) of increased; (b) of increasing.

increment, n. 6. In forestry, the volume or

Any of the organic heart lesions when incompensated may be followed by ascites.

Buck, Med. Handbook, I. 564.

incompetent, a. II. n. An incompetent person; one who is mentally or physically defi-

cient.

This wretched person—a dauber, an incompetent, not fit to be a sign-painter—receives this norning an . . . offer . . . of a clerkship with nearly one hundred and fifty pounds a year, and . . . he refuses it! . . . For the sake of Art, he says.

R. L. Stevenson, New Arabian Nights, p. 326.

incomplexity (in-kom-plek'si-ti), n. [in-3 + complex-ity.] Simplicity; lack of complexity.

or that cannot be grasped by the intellect.

As also there are not three nncreated: nor three in-comprehensibles [influites], but one nncreated: and one incomprehensible [influite]. The Athanasian Creed, in The Creeds of Christendom,

incongruous, a. 3. In the theory of numbers, not congruent: thus, 7 and 8 are incongruous to the modulus 3, giving different remainders when divided by the modulus.

[in-3 + coninconscience (in-kon'shens), n. science.] Unconscieusness; lack of self-conscionsness.

The genuineness and inconscience of these elemental notifs.

A. Lynch, Modern Authors, p. 96. N. E. D.

Inconsistent equations. See *cquation. inconsolate (in-kon'sō-lāt), a. [L. in- priv. + consolatus, pp. of consolare, console.] Un-consoled; disconsolate.

inconstructible (in-kgn-struk'ti-bl), a. [in-3

+ constructible.] That cannot be constructed. incontinuity (in-kon-ti-nū'i-ti), n. [in-3 + continuity.] The quality of being incontinu-

incontinuous (in-kon-tin' \(\vec{u}\)-us), a. [in-3 + continuous.] Net continuous; discontinuous. R. L. Stevenson, Across the Plains, 230. N. E. D. incor. An abbreviation of incorporated.

incoronation (in-kor-ō-nā'shon), n. [in-2 + coronation.] Coronation.

coronation.] Coronation.

The carvings around the choir wall are a series of presentations of the Divine Story, from the Nativity of the Virgin to her Assumption and Incoronation.

Mrs. Whitney, Sights and Insights, 11. 426.

Mrs. Whitney, Sights and Insights, 11. 426.

such as asbestos-board.

inculpative (in-kull pā-tiv), a. [inculpate + -ivc.] Incriminative; inculpatory. Sydney inculpatory. Sydney incumbent, a. 4. In gcol., resting upon: said

incorporable (in-kôr'pō-ra-bl), a. That may be incorporated.

Chelsea, Knightsbridge . . . and Mile-end were not really incorporable. Daily News, Sept. 19, 1899. N. E. D.

incorporation, n. (f) In philol., the inclusion into one apparent whole of the verb or noun root with generic particles and affixes, or fragments thereof, forming what is, in effect, compared to Indo-European types of speech, a reduced sentence, but having the appearance of a long word; polysynthesis.

word; polysynthesis.

This bond is to be looked for in the inner structure of the dialects, a structure characterised especially by the development of pronominal forms, the abundance of generic particles, the more frequent use of ideas based on actions (verbs) than of ideas of existence (nouns), and as a consequence the subordination of the latter to the former in the proposition. The latter feature characterises the process called incorporation, all American Languages being polysynthetic.

Deniker, Races of Man, p. 518.

another university.

Having further been allowed by the Keeper of the Archives to extract all the names and particulars relative to Incorporators, as well as honorary and nominal members [of the University, 1 . . . proceeded to transcribe . . . list of degrees conferred.

J. Foster, Almani Oxoniensis, Pref., p. vi.

incorporeal, a. II. n. An incorporeal thing; ind.

incorporealizet (in-kôr-pō'rē-al-īz), v. i. corporeal + -ize.] To hold the theory that souls are an incorporeal substance distinct indamine (in'da-min), n. [ind(igo) + amine.] from matter. Cudworth, Intell. System, I. 22. A basic coal-tar color of unknown constitufrom matter. Cudworth, Intell. System, I. 22.

incorrosive (in-ko-rō'siv), a. [in-3 + corrosive.] Not susceptible of corrosien: rarely, sire.] Not susceptible of corrosien: rarely, and incorrectly, used instead of incorrodible

increment, n. 6. In forestry, the volume or value of wood produced during a given period by the growth of a tree or of a stand. See *accretion, 5.-7. A uniform variation; a regular increase. Elect. World and Engin., Feb. 21, 1903. p. 333.—Increment borer. See *borer.—
Marginal increment, in polit. econ., the least important increment or unit of a commodity in the possession of an individual, or the last unit he is induced to produce or acquire. See the extract.

The increment of the commodity which he is only just induced to acquire (whether by his direct labour or by purchase) may be called its Marginal Increment; because he is on the margin of doubt whether it is worth his while to incur the outlay required to obtain it.

Alfred Marshall, Prin. of Economics, iii. 3.

Attressness, and incomplexity of fable.

Artlessness, and incomplexity of fable.

Noz, Essays, III. claxvi. 278. N. E. D.

Incremental lines of Salter, concentric lines in the dentin in the region of the crown of the tooth, analogous to the rings in the trunk of a tree, marking the successive growths of this substance.

incrimination (in - krim - i - nā' shon), n. The act of charging with a crime; the fact of being involved in a crime.

One other fact he noticed, which eventually became more important than many stronger circumstances of incrimination; this was that the shoes of the murderer, apparently new, creaked as he walked.

De Quincey, Three Memorable Murders.

incross (in'krôs), n. The process of breeding from parents which are close blood-relations; also, the offspring of such parents.

Recent results from increases and outcrosses lead to the belief that hybridizing is of paramount importance to supply the best stocks for the more laborious work of selection. U. S. Dept. Agr., Div. Veg. Physiol. and Pathol., Bulletin 29, 1901, p. 55.

incruciation (in-krö-shi-ā/shon), n. [NL. *in-eruciatio(n-), < *incruciare, place on a cross, < L. in, on, + crux (cruc-), cross.] Same as decussation.

The despot of Cremona dying inconsolate hecause, having had the Pope and the Emperor on the tower of his cathedral, be had forgotten to hurl them down.

The Academy, Dec. 9, 1882, p. 407.

Cussation.

incubate, v. t. 2. In bacteriol., to place (a culture) in a thermostat or a similar apparatus for the purpose of obtaining the maximum for the purpose of obtaining the maximum indefinitive (in-de-fin'i-tiv), a. [in-S + definigrowth of bacteria by keeping them at a constant optimum temperature.

stant optimum temperature.

incubational (in-kū-bā'shon-al), a. [incubation + -ali.] Relating to incubation.

incubator, m. 2. Same as couveuse, 2.—Bacteriological incubator, an apparatus constructed to
maintain a uniform temperature at which bacteria may
develop. The triple-walled copper oven is provided with
a space for water, which is heated to the proper degree,
and fluctuations of temperature are prevented by an insulating air-space and by a cover of insulating material,
such as asbestos-board.

inculnative (in-kul'pā-tiv), a. [inculnate +

of one series of strata which is supported by a subjacent one.

incunable (in-kū'na-bl), n. [F. incunable: see incunabula.] A book printed in the infancy of the art, before the year 1500. See incunabula, 3.

One of the early incunables or "fifteeners."

The Month, May, 1894. N. E. D.

taining to incunabula.

incunabulum (in-kū-nab'ū-lum), n.; pl. incunabula (-lä).

[NL., a back-formation (as indentor (in-den'tor), n. See *indenter, 2. singular) from incunabula: see incunabula.] indentwise (in-dent'wīz), adv. Like an intention.

1. A beek printed in the infancy of the art of printing. See incunabula, 3.—2. In entom., a cocoon.

+ cognoscens(-ent-), ppr. of cognoscere, know.] incorporator, n. 2. Specifically, a member of incuneation (in-kū-nē-ā'shon), n. [L. in, in, Ingorant; unaware; without knowledge (of). one university who is incorporated in, that is, the cuneus, a wedge, the -ation.] The wedging noncherent, a. 3. In good, noting textures has received an incorporating degree from, together of the fragments in a certain form of fracture; impaction.

in-curve (in'kėrv), n. In basc-ball, lawn-bowls, bowling, etc., a ball so pitched or rolled by a right-handed man as to curve to the right.

incurved (in-kervd'), a. Bent or curved inward: in bot., toward the axis.

ncorporeal, a. II. n. An incorporeal thing; ind. An abbreviation (c) of index; (d) of indicative; (e) [cap.] of India; (f) [cap.] of Indian: (g) [cap.] of Indian: (g) [cap.] of Indiana.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

natives of South Africa, a conneil or conference for the discussion of affairs.

tion, produced when nitroso-dimethyl-aniline hydrochlorid reacts with toluidine. - Indamine See *blue.

indanthrene (in-dan'thren), n. [ind(igo) + an-thr(ac)ene.] A coal-tar color related to anthr(ac)ene.] A coal-tar color related to anthracene made by fusing beta-amino-anthraquinone with eaustic potash. It dyes cotton and other vegetable fibers in a hyposulphite reduction-vat and gives very fast blues. When combined with flavanthrene it gives one of the fastest greens known.

indazin (in-daz'in), n. [ind(igo) + az(ote) +-in².] A colorless compound, $C_6H_4 < \overbrace{\stackrel{}{\mid}}{\mid} > NH$,

prepared by heating orthohydrazin-cinnamic acid. It crystallizes in slender needles, melts at 146.5° C., and boils at 269-270° C. Also called, incorrectly, indazole.—Indazin blue. See

indazole (in-daz'ol), n. [ind(igo) + az(ote) + -olc.] Incorrect for ★indazin.

indazurine (in-dazh'ū-rin), n. [ind(igo) + azu-rine.] 1. The name given to several direct coal-tar colors which dye unmordanted cotton varying shades of blue. They are all of the diazo-sulphonic-acid type of colors. -2. A blue basic dyestuff of unknown constitution which dyes tannin-mordanted cotton navyblue shades.

indazylic (in-da-zil'ik), a. [indaz(in) + -yl + -ic.] Pertaining to indazin or indazole compounds. Nature, Dec. 17, 1903, p. 167. indecomponible (in"dē-kom-pō'ni-bl), a. [in-3 + dc- + L. componere, compose, + -ible.] In-

decomposable.

The assumed indecomposible substances of the Laboratory.

**Coloridge*, in The Friend, 111, 173. N. E. D. of indefinite, a. 5. In gram., not such as to make definite or determinate the person, thing, place, time, or manner in question: applied to

certain adjectives, pronouns, and adverbs, as the indefinite article (see article, 11), any, some, such, anywhere, anyhow, otherwise, and to certaintenses of verbs, as the Greek aorist (which means 'indefinite') and the simple past in

tive.] Not definitive; indefinite.

In a very few years a school of opinion [fonnded by the Anglo-Catholic party] was formed, fixed in its principles, indefinitive and progressive in their range; and it extended into every part of the country.

J. H. Newman, Difficulties of the Anglicans, Lecture iv.

indefiectible (in-dē-flek'ti-bl), a. [in-3 + de-flectible.] Not to be deflected from the straight or right way: as, indeflectible justice; indeflectible lovalty.

indemnificator (in-dem'ni-fi-kā"tor), n. One who indemnifies. Bentham.

indemnificatory (in-dem'ni-fi-kā-tō-ri), a. Relating to indemnification; tending toward in-

demnifying: as, indemnificatory actions.

Indemnity lands. See *land1.
indene (in'dēn), n. [ind(igo) + -ene.] A colorCH]

less viscid liquid, $C_6H_4 \leftarrow CH_2$ CH, found in CH_2 coal-tar oil. It boils at 179.5-180.5° C. indent², n. 4. A requisition for military stores. [Anglo-Indian.]

incunabular (in-kū-nab'n-lār), a. Of or per-indenter (in-den'ter), n. 1. One who binds taining to incunabula. or engages by indenture.—2. One who orders

independable (in-dē-pen'da-bl), a. [in- 3 + dependable.] Not to be depended upon; not dependable.] trust worthy.

Capricious, independable, and exacting.
Geog. Jour. (R.G.S.), IX. 122.

independence, n. 3. In bot., the abnormal separation of organs or parts which are usually united.

indesignate (in-des'ig-nāt), a. [in-3 + desig-

nate.] Not designate; indefinite.
indeterminacy (in-dē-ter'mi-nā-si), n. [indetermina(te) + -ey.] The quality of indeterminateness; vagueness; indefiniteness.

Ambiguity is a confusion between ideas quite distinct.
. . . Vagueness is an indeterminacy in the limits of the application of an idea.

The Nation, Oct. 27, 1892, p. 324.

index, n. 3. (b) In instruments having graduated circles for angular measurement, the pointer or mark on the movable arm which is so placed as to meve in close preximity to the graduated circle and thus to indicate the angle passed ever between any two given positions of the arm; also, the arm or revolving member pivoted at the center of the graduated circle, which carries the index-mark or pointer.—11. The numerical value of a measured object or process, er of a counted phenomenon, expressed in percentage of another measured object. or process, or counted phenomenon: applied particularly in measurements of organisms for expressing the ratio between the sizes of two organs. See craniometry.—12. In forestry, the highest average actually found upon a given locality.—Altitudinal index, the height of the skull expressed in percentage of its length; same as certical index (which see, under vertical).—Antebrachial index. Same as radiohumeral *index.—Breadth index. Same as radiohumeral *index.—Breadth index. Same as cephalic index (which see, under cephalic).—Bureau of Indexes and Archives. See *barcau.—Cephalic index. (a) See cephalic. (b) See cranial *index.—Cephalic index. See *cephalofacial index. See *cephalofacial index.—See *cephalofacial.—Clavicular index. Same as claviculahumeral *index.—Duckworth, Jour. Anthrop. Inst., 1900. p. 148.—Claviculahumeral index, in anthrop., the length of the clavicle expressed in percentage of the length of the humerus. Turner.—Color index. See *color.—Coronoid index, the condylocoronoid width of the lower jaw expressed in percentage of its condylosymphysial length. A. Thompson, in Jour. Anthrop. Inst., XXXIII. 144.—Cranial index, in craniom., the hreadth of the skull expressed in percentage of its length. This index is often called cephalic index, although, strictly speaking, the cephalic index gives the corresponding proportion on the head linear gives the solution of the skull, and its capacity. Broca.—Deutal index, in craniom., the distance between the anterior surface of the skull, and its capacity.

Broca.—Deutal index, in craniom, the distance between the anterior surface of the third molar expressed in percentage of the length of the extraordinary ray in a organs. See craniometry.—12. In forestry, the highest average actually found upon a given transverse being represented by 100.—Prontozygomatic index. Same as stephanozygomatic *tindex.—Height index. Same as attitudinal *tindex.—Hinricha's climatic index, a number, deduced from the theory of probabilities by the method of least squares, which shows the probability that a total rainfall of a given amount will occur within a given interval of time.—Hiac index, in authrop., the distance between the superior spines of the illum expressed in percentage of the distance between the angle at the bottom of the actabulum and the summit of the crest.—Index of a surface or system of surfaces, two more than the excess of the number of cross-cuts necessary to reduce it to simply connected surfaces over the number of those resulting surfaces.—Index of the natural scale, in math., a symbol \(\omega\$ associated with the whole of the natural scale, or with any equivalent manifold similarly arranged: thus \(\omega\$ =ind. N = \ind \text{ind} \), \(\omega\$ =ind. N =ind. \text{ind} \), \(\omega\$ =ind. N =ind. \text{ind} \), \(\omega\$ =ind. N =ind. \tex

accordance with the value of the index, Turner distinguishes kurtorachic, orthorachic, and koliorachic spinal columns, the dividing points between these three groups being 98 per cent, and 102 per cent.—Mandbular index, the condylosymphysial length of the lower jaw expressed in percentage of the intercondylic width. A. Thompson.—Maxillary index, in common. (or) The width of the second modar expressed in percentage of the length of the second modar expressed in percentage of the long of the paper of the engine of the length of the paper of the length of length length length length length length length length len

index-eyepiece (in'deks-ī"pēs), n. See ★eye-

index-hand (in'deks-hand), n. A movable pointer or hand of a clock, watch, or other indicating- or measuring-machine; particularly, indic. An abbreviation of indicative, a two armed pointer on an indexing-device for spacing or dividing.

indical, a. 2. Relating to the index finger or the second digit of the forefoet.

index-head (in'deks-hed), n. An attachment indican, n. 2. The alkali salt of indoxyl-sulfer a milling-machine, gear-cutter, or similar phuric acid, $C_8H_6NSO_4H$. It occurs in urine. for a milling-machine, gear-cutter, or similar machine for rotating at regular intervals, through definite angles or aliquot parts of a

circumference, the piece of material worked.
index-learning (in'deks-ler"ning), n. Learning
which depends upon the use of indexes (and goes no further); that is, knowledge acquired for the occasion, from books of reference. Compare the quotation from Fuller, under indical.

How prologues into prefaces decay,
And these to notes are fritter'd quite away:
Row index-learning turns no student pale,
Yet holds the eel of science by the tail.

Pope, Dunclad, i. 277.

index-machine, n. 2. A machine provided with an indexing mechanism by which the teeth of gear- or ratchet-wheels can be spaced. index-plate (in'deks-plat), n. A disk in a gear-cutter, milling-machine, or dividing-engine, having holes in its face to aid in dividing a gear-wheel or other piece into aliquet parts of a circumference and securing the desired number of teeth on the periphery; a division-

index-wheel (in'deks-hwel), n. 1. An indexplate.—2. A wheel having graduations and notches on its periphery, used to regulate the advance or feed of a machine.—3. A wheel with 80 teeth, divided into 20 sections of four teeth each, attached to the combing-cylinder of a cotton-combing machine to facilitate the adjustment of the time for the action of the various parts that act on the cotton. Thornley, Cotton Combing Machines, p. 37.

India china, India cotton (b). Seo *china, \star_{cotton^1}

*cottom!.

Indian, I. a.—Indian beard-grass. Same as *brook-grass.—Indian bread. (a) See Indian, 3. (b) See Inckahoe, 2. (c) Large, that cakes made of cassava meal and then roasted. See cassava, 2.—Indian butterfly-plant. Same as moth-plant.—Indian butter-tree, etc.—Indian cherry, cholera, cut, gift. See *butter-tree, ctc.—Indian chear, the hop-hornbean or ironwood, Ostrya Virginiana.—Indian cigar. Same as Indian bean (which see, under bean!).—Indian deob. Same as doob.—Indian dye. Same as Indian pain (b) (which see, under paint).—Indian fig. See *fig2.—Indian filbert. See soap-

ndex-bar (in'deks-bar), n. The flat bar en a indian-weed (in'de-an-weed), n. To bacce: a navigating-instrument of reflection, which has the mirror on one end and the vernier on the other.

ndex-eyepiece (in'deks- $\bar{1}^{\#}$ pēs), n. See *eyepiece.

ndex-hand (in'deks-hand), n. A movable helic potassium salt, $C_{16}H_{11}N_{2}O_{3}K$, is obtained by beiling indin, an isomer of indige, with alcoholic potassium hydrexid. The salt is deposited in small black crystals.

phuric acid, $C_8H_6NSO_4H$. It occurs in urine. See the following phrase. — Urinary Indican. The indo which is formed during the process of intestinal putrefaction is in part exidized to indoxyl and absorbed. In the body it then unites with sulphuric acid, namely, sodium or potassium sulphate, and in this form is known as animal indican. As such it appears in the urine. Normally the amount which is thus eliminated is small; larger quantities are met with in those pathological conditions which are associated with an increased degree of intestinal putrefaction. The test for indican in the urine is based upon the decomposition of the substance by means of a mineral scid, and the oxidation of the liberated indoxyl to indigo blue.

Indicanine (in di-ka-nin), n. [indican + -inc².]

A syrupy compound, $C_{20}H_{23}O_{12}N$, prepared

A syrupy compound, $C_{20}\Pi_{23}O_{12}N$, prepared by the action of barium-hydroxid solution on indican.

indicanuria (in "di-ka-nū'ri-ä), n. [indican + Gr. ovpov, urine.] The elimination of indican in the urine. Normally only of slight degree, larger quantities are excreted especially in conditions associated with au excessive degree of intestinal putrefaction.

indication, n.—Letter of indication, a letter of advice given by a banker to the holder of a letter of credit or circular note when issued. It contains the signature of the holder for identification, a list of the bank's correspondents where the holder may draw money, and other information.

information.

indicator, n. 1. (g) In chem., a substance used in volumetric chemical analysis, or some other chemical process, to indicate the condition of a solution, or to indicate exactly the point at which a certain reaction ends and another begins. The point at which this change takes place is called the end-point. Indicators are most frequently used to detect the presence of acids or alkalis. The most important indicators are litmus, lacmoid, phenol-phthalein, methyl orange, and cochineat.

An indicator, to be of service in acidimetric processes, must be a substance of basic or acid character, which, like litmus, will show by a change of color, the presence of the

must be a substance of basic or acid character, which, like litmus, will show by a change of color, the presence of the slightest excess of free acid or alkali.

H. P. Talbot, Quantitative Chem. Analysis, p. 65.

(h) In radipoad signaling, a device for informing the leverman in a signal-eabin that a train is about to start from the station and Indicating which track it will take; in its broadest sense, any appliance for displaying, in the signal-cabin, the condition of a track or of all the tracks in a yard, the position of the signals, sensphores, switches, and signal-lamps, the trains at rest, or moving, or about to enter or leave any block, etc. The indicator may be a number on a drop-plate, a disk or banneret, or a miniature signal-arm, and it may give information by its ap-

pearance or disappearance or by its position. It may also give a signal by means of a bell. An indicator may be operated from a distant station or cabin by a push-button, or it may be antomatic, or it may be controlled by a train through a track-circuit. (i) In mining, an appearance of through a track-circuit. (i) In mining, an appearance of the surface of the ground which shows the presence of a

The 'indicators' of the Ballarat Goldfield, Victoria, are thin beds of dark-coloured shales and slates.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 652.

The 'indicators' of the Ballarat Goldfield, Victoria, are thin beds of dark-coloured shales and slates.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 652.

(j) Naval: (l) An apparatus used in conjunction with a transmitter, operated by mechanical or electrical means for signaling orders from a central position to the various places on a war-ship at which the orders are to be executed. The transmitter is manipulated by the operator in the central station or in the conning-tower to show any desired order, and the same order is shown on one or more indicators connected to the transmitter by wires or shafting. A range-indicator shows the range of the object at which the guns are to be fired; a battle-order indicator shows various orders such as 'commence firing,' 'load with shell,' etc. (2) An apparatus to show at a convenient point the position of any mechanism: as, a revolution-indicator to show the direction of revolution of the main engines; a rudder-indicator, to show the position of the helm or rudder; a turret-indicator, to show the position of the turret gnns with reference to the fore-and-at line of the ship; etc.—Battle-order indicator, an apparatus placed near the guns of a war-ship to indicate mechanically the orders of the captain, such as 'commence firing,' load with commen shell,' etc. It is worked by electrical or mechanical means from a battle-order transmitter in the conning-tower or station of the captain on the bridge. See *indicator (j) (1).—Integrating indicator, an apparatus for measuring, and usually for recording, the power developed by the engine in a number of revolutions. It consists of an indicator on the drum of which rests a wheel carried at the end of the arm. A revolution-counter is attached which records the number of revolutions of the engine. There are many other forms. This indicator is attached which records the number of revolutions of the engine. There are many other forms. This indicator is used when power is rented to tenants and users, as a meter to determice the consump

indicator-card (in'di-kā-tor-kārd"), n. A diagram which shows the pressure in the cylinder gram which shows the pressure in the cylinder of an engine at any point of the stroke. It is made by an engine-indicator. This card is made to a definite quantitative scale for both height and length, and its area is therefore proportional to the work performed by the eagine in one stroke. The horse-power calculated from the area of such a card is called the indicated horse-power. Its area divided by its length gives the mean height, and such mean height is the mean pressure during that stroke when multiplied by the scale of ordinates as related to the pressures. See indicator, I (a). indicator-cock (in'di-kā-tor-kok"), n. A three-way cock so arranged that any steam left in the pipe after making a diagram (indicator-

the pipe after making a diagram (indicator-eard) will be exhausted into the atmosphere when the valve is turned to cut off steam from the end of the cylinder. It also establishes atmospheric pressure-ordinates upon the indicator-diagram, and by comparison with a barometer-reading absolute pressures can be established.

indicator-drum (in'di-kā-tor-drum"), n. cylinder or drum of an engine-indicator for holding the paper on which the diagram is to be traced as the piston makes its traverse. indicator-piston (in'di-kā-tor-pis"ton),

The piston of an engine-indicator on which the pressure in the cylinder acts when making an indicator-diagram.

indicator-planimeter (in'di-kā-tor-plā-nim"eter), n. A special form of polar planimeter for finding the mean height of the curved line of an indicator-card. See *indicator-card and diagram.

indicator-point (in'di-kā-tor-point"), n. In thermodynamics, a point upon a diagram which represents the instantaneous state of a system. E. Buckingham, Theory of Thermodynamics p. 90. dynamics, p. 20.

indicator-post (in'di-kā-tor-post"), n. In afire-service (particularly in a mill or factory which

show instantly the position of the valve.
indicator-valve (in'di-kā-tor-valv"), n. A service-gate or valve in a fire-service system which indicates the exact position of the gate (whether it is shut or open).

indicatrix, n. 3. In crystal., a surface, in general (for a biaxial crystal) an ellipsoid having axes proportional to the principal refractive indexes, whose geometrical characters serve to exhibit the optical relatious of the crystal: for a uniaxial crystal the surface becomes a spheroid and for an isotropic crystal a sphere. The indicatrix hears a simple relation to Fresnel's ellipsoid the axes of which are proportional to the reciprocals of the refractive indexes, that is, directly

preportional to the light-velocities in the given axial direction. L. Fletcher, The Optical Indicatrix, London, 1892. indicial! (in-dish'i-al), a. [L. indicium, a mark, sign: see indicia.] Indicative. indicial? (in-dish'i-al), a. [Irreg. < L. index (in-dic-), index, + -ial.] Of or pertaining to an index. Compare indical.

indictional (in-dik'shon-al), a. -all.] Of or pertaining to an indiction or cycle of years. See indiction, 2 and 3.

indictment, n.— Joint indictment, in law, an indictment in which two or more parties are together charged with the commission of the same crime.

indifference-point (in-difference-point), n. In psychol., a term used in several more or less

technical meanings: (a) The point at which, with gradual increase of temperature of a stimulus, the sensagradual increase of temperature of a stimulus, the sensation of odd gives place to the sensation of warmth. It is a matter of dispute whether this indifference-point is psychological (that is, appears in sensation) or whether it is simply mathematical. (b) In Wundt's curve of pleasautness-unpleasantness, the point at which decreasing pleasure passes over into unpleasantness. It is, again, a matter of dispute whether the point is psychological or merely geometrical. (c) In work npon the reproduction of time-intervals, the point at which reproduction is accurate, involving neither underestimation nor overestimation of the standard time.

Indifferent point. See *point!. indifferential (in-dif-e-ren'shal), a. and n. [in-3 + differential.] I. a. Indifferent; neither one thing nor the other.

II. n. A thing which may be done or not

II. n. A thing which may be done of the done, indifferently; a non-essential.

indiffulvin (in-dii-ful'vin), n. [indi(can) + L. fulvus, fulvous, + -in².] A brittle reddishvellow resin obtained, together with indigo-glutin (in'di-gō-glö'tin), n. Same as the single by heating indican with dilute mineral indigo-glutin (in'di-gō-per"pū-rin), n.

indifuscin (in-di-fus'iu), n. [indi(can) + L. fuscus, fuscous, + -in²] A brown amorphous compound, C₂₄H₂₀O₅N₂, obtained by heating indican with dilute mineral acids.

indifuscone (in-di-fus'kōn), n. [indifusc-in +-one.] A dark reddish-brown pulverulent compound, $C_{22}H_{20}O_5N_2$, contained in crude natural indigo.

indigen (in'di-gen), n. [indi(go) + -gen.] Same as spirit-soluble induline. See induline.

indigenity (in-di-jen'i-ti), n. [indigen-ous + -ity.] Indigenousness.

Many, new species, but mostly of doubtful indigenity, have their line for the first time.

The Naturalist, No. 241, 1895. N. E. D.

indigenous, a. 3. In geol., noting a rock or a mineral which has originated as such in the place where it is found, such as granite or basalt in situ. A glacial boulder brought from a distance is exotic or erratic.—4. In from a distance is exotic or erratic.—4. In physiog., noting a stream which developed originally in its present surroundings: it is a consequent one in most cases.

being measured; not measurable.

indimensional (in-di-men'shon-al), a. [in-3+dimension + -all.] Not having dimensions; not having extension in space.

The second class may be called the *indigenous* streams, as they are probably consequential and lie wholly within the bounding watershed of the basin-like area.

W. G. Tight, Drainage Modification, p. 13.

indigenousness (in-dij'e-nus-nes), n. state of being indigenous or native to a place: not exotic.

indigestion, n.—Acid indigestion. Same as $\star hyper-chlorhydria$.—Intestinal indigestion, arrest or retardation of digestion after the food has left the stomach.

indigitation, n. 2. The interlocking of fibers at the junction of muscle and tendon or

aponeurosis; digitation; invagination.

indiglycin (in -di -gli'sin), n. [indi(can) +
glycin.] A name formerly given to the sugar
obtained by the hydrolysis of indican. It is now known to be d-glucose. Also called indiglucin.

indignatory (in-dig'nā-tō-ri), a. [indignat(ion) +-ory.] Expressing indignation: as, indignatory answers; indignatory muscles.

service (particularly in a mill of lactory willing applied by sprinklers for drenching the walls or partitions), an upright easting containing the key-stem and valve of the service-pipe and fitted with an indicator or movable sign to show instantly the position of the valve.

The products a lack of the service products and indigoth or indigo blue, manufactured from coal-tar products. In 1880 Bayer obtained indigo blue in various ways from cinnamic acid. Since that time the methods of manufacture have been greatly improved and cheapened ways from cinnamic acid. Since that time the methods of manufacture have been greatly improved and cheapened and the artificial is now a serious competitor of the natural indigo.—Blue, blue false, or blue wild indigo. Same as false indigo (b).—Chinese green indigo, a green dye obtained from the bark of any one of several species of Rhamnus, especially R. saxtilis. See Rhamnus.—Chinese indigo, (a) Isatis indigotica, See Isatis!. (b) Same as Japanese *indigo.—Dwarf false indigo. Same as fragrant false *indigo.—Fragrant false indigo, Amorpha nana, a leguninous plant of the prairie region of western North America.—Gallanii indigo, a mordant coal-tar color of the oxazin type, prepared by the action of aniline upon gallanii violet. It gives an indigo-blue shade upon chrominm-mordanted wool.—Green Indigo. See Rhamnus.—Indigo extract. See indigo extract (under indigo). The chief constituents of indigo extract are indigo-monosulphonic acids and indigo-

individual

disulphonic acids, the former being produced by the action of ordinary sulphuric acid and the latter by the action of fuming sulphuric acid upon indigo blue.—
Indigo salt, a yellow crystalline mass consisting of the sodium-bisulphite compound of orthonitrophenyllactoken one is so called because it is readily converted into indigotin when treated with a dilute alkail. The free ketone is sold, under the name of indiga salt T, in the form of a buff powder which is insoluble in water but dissolves in sodium bisulphite solution. It is used in calico-printing for the production of indigo blues.—Indigo substitute. Same as *kaiserschwarz.—Japanese indigo, Polygonum tinctorium. See Polygonum.—Native indigo.

(a) In Tasmania, Indigofera australia, a coogener of the common indigo. (b) In Australia, any plant of the genus Swainsona of the bean family, especially S. galeoffolia. See Swainsona.—Paraguay Indigo, a blue dye obtained from the leaves of a composite shrub, Eupatorium læge.—Pegu'indigo, Marsdenia tinctoria, a tall, climbing shrub of the milkweed family, distributed from Burma to China. Its leaves yield indigo.—Prairie-indigo, shaptisia alba, a white-flowered species of the southern United States and Mississippi valley.—Reduced indigo. Same as indigo white.—Vat indigo, a name of given to an indigo blue dyed in a reduction-vat to distinguish it from a blue dyed with indigo extract.—White wild indigo, any of the white-flowered species of Baptisia, especially S. alba. See pravire-*indigo. B. Beaucantha is the large white wild indigo.—Yellow wild indigo, the blue dye obtained from a twining legumineous shrub of tropical West Africa, Lonchocarpus cyanescens.

indigoferous (in-di-gof'e-rus), a. [indigo+t...fer, -bearing, +-ous.] Producing indigo: as, indigoferous plants.

indigo-gelatin (in'di-gō-jel'a-tin), n. The glutinous matter contained in crude natural indigo.

indigo-purpurin (in 'di - gō - per "pū - rin), n. Same as indigo red.

indigo-sapphire (in'di-gō-saf"īr), n. The dark or indigo-colored sapphire from Ceylon or Australia.

indigo-vat (in'di-gō-vat), n. 1. A vat or cistern specially constructed for dyeing raw material or cloth with indigo.—2. An indigo liquor prepared for dyeing raw material or cloth.

indigrubin (in - di - grū'bin), n. Same as urrhodin.

urrhoam.
indileucin (in-di-lū'sin), n. [indi(can) + Gr. λευκός, white, + -in².] A colorless compound, $C_6H_4 < \frac{C(OH)}{NH} > CC < \frac{CH}{C_6H_4} > NH, prepared by$

the action of zinc dust and acetic acid on indirubin. It crystallizes in lustrous needles. indimensible (in-di-men'si-bl), a. [L. indimensus, unmeasured, + -ible.] Not capable of

indin-potassium (in/din-po-tas'i-um), n. See *indic2

Indio (in'di-ō), n.; pl. Indios (-ōs). [Sp. Pg., \(\) India, India. 1. In Spanish use, an 'Indian,' that is, one of the various native peoples of Asia or America; specifically—(a) in the Philippine Islands, a native and especially a Christian native; (b) a Malay of the Philippine Islands as distinguished from members of Islands, as distinguished from members of other races living there.—2. A Portuguese silver coin, ordered to be struck in 1499, on the model of the Venetian marcella.

indispensable, a. II. n. 1. An indispensable person or thing.

Necessary Linnen and those Indispensables that belong to young Women.

Mrs. Manley, Power of Love, vi. N. E. D.

2. Specifically, trousers. [Hnmorous.]

He slapped his hand against his yellow leather indis-pensables.

Comic Almanack, June (1842), (Farmer). N. E. D. 3. A bag or pocket, frequently of silk and much decorated, worn by women in the first years of the nineteenth century, on the outside of the gown, instead of inside, as an ordinary pocket would be.

Rows of pretty peeresses who sat eating sandwiches from silk indispensables [at Lord Melville's trial, 1806].

C. K. Sharpe, Correspondence, I. 265.

individual. I. a:—Individual telesis, telics, va-

riation. See **telesis, etc.

II. n. (d) In biol.; (2) A living being considered as unique or different from its kind and from the rest of nature, without reference to its morphological or physiological independence or dependence. It is in this sense that an organism is termed an individual with reference to reversation and inheritance. to reproduction and inheritance

to reproduction and innertance. [When amongst individuals, apparently exposed to the same conditions, any very rare deviation, due to some extraordinary combination of circumstances, appears in the parent—say, once amongst several million individuals

—and it re-appears in the child, the mere doctrine of chances almost compels us to attribute its re-appearance to inheritance.

Darwin, Origin of Species, p. 10.

to inheritance. Darucin, Origin of Species, p. 10, Gensalogical individual, the series of stages between the fertilized egg and sexual maturity. Haxley. individuality, n. 5. In biol.: (a) Physiological completeness or independence; the ability of an organism to perform its normal functions or live out its life without the cooperation of others. The independence of a unicellular protozoon is an example of physiological individuality, as contrasted with the dependence of one of the cells of a metazoon upon the others and the whole. A physiological individual is sometimes termed a bion, as contrasted with a morphological individual or morphon. See *bion* and *morphon*, 2. (b) Structural independence, or homology (b) Structural independence, or homology with or morphological equivalence to a physiological individual. The homology of each of the dependent members of a siphonophore with an independent hydra is an illustration of morphological individuality. So far as each of the constituent cells in the body of a metazoon is homologous with an independent protozoon it is a morphon, or morphological individual. Morphologists recognize and give names to several grades or categories of morphological individuality. See plastid, idoryan, person, 8, and *cormus, 3. (c) The uniqueness of a living being, or its difference from others of its kind and from the rest of nature. It is in this sense that the offrest of nature. It is in this sense that the off-spring is said to inherit the individuality or spring is said to inherit the whether the constitution of a parent.—Multiple individuality, a term used by L. F. Ward to designate the structural or physiological independence of the units which make up the structure of a compound organism, such as the cells which compose the body of a metazoon.

Multiple Individuality. Each cell still acts and feels for itself, and maintains its individuality within the higher individuality.

L. F. Ward, Dynamic Sociol., I. 373.

individuation, n. 3. In biol.: (a) A general term summarizing the conditions for the maintenance and perpetuation of an individual organism, when these conditions are

beings. Mr. Herbert Spencer has shown... that with all organisms a ratio exists between what he calls individuation and genesis.

Darwin, Descent of Man, L. 318.

(b) A unifying principle or a cause of individuality.

Such an animal is really the theatre of some unifying power which synthesizes its varied activities, dominates its forces, and is a principle of individuation.

Mivart. The Cat. p. 376. 4. The unification of two distinct types of organisms into an individual whole, such as the

lichen-thallus. Tubeuf.

Individuative (in-di-vid'ū-ā-tiv), a. [individuate + -ive.] That individualizes: as, individuative development.

The eighteenth century having been an age of individuative, the nineteenth necessarily became an age of associative or colonomic development.

J. II. Burton, Book Hunter, Ili. 224.

Indoin blue. See *blue. Indo-Iranic (in'dō-i-ran')

L. Burton, Book Hunter, Ili. 224.

individuum (in-di-vid'ū-um), n.; pl. individua (-a). [L., an undivided thing, an atom, neut. of Indol blue. Same as indoin *blue. individuus, undivided: see individual.] I. An indolin (in'dō-lin), n. [indol + -in².] undividable entity; one thing, inseparable into parts; the indivisible; formerly, an atom.—2. One individual person or thing out of many of

Methodists.

In ethnol., including both the curly- or wavy-haired black peoples of India (Dravidians) and those of northeast Africa (Hamites).

and those of northeast Airica (Hamiles).

Again, what is to be made of the expression "Indo-Abyssinian," or even "Abyssinian" at all as an ethnical term? The very word (Habeshi) means "mixed," and in African ethnology "Abyssinian" conveys no more meaning than does "Hungarian" in European ethnology; both are national not racial designations, and as a Hungarian may be a Magyar, a Slay, a Rumanian or a Teuton, so an Abyssinian may be a Hamite (Agao and others), or a Semite (Tigré and others).

Keane, Ethnology, p. 170.

Tr n One who belongs to either of the

II. n. One who belongs to either of the

abuve peoples.

Indo-African (in-dō-af'ri-kan), a. Related to or connected with India and Africa: applied to a continent supposed to have existed between India, Africa, and Australia, and now covered by the Indian Ocean.

It is admitted by all ethnologists that Asia is the original home of the Mongolic division, a fact which harmoniess well with the view that the vanished Indo-African Continent was the cradle of mankind.

Keane, Ethnology, p. 295.

Indo-African continent. See *continent.

Indo-Aryan (in dō-ar'yan), a. Of or pertaining to the Indic division of the Aryan family.

Torrens.

Indo-Austral (in/do-as'tral), a. Related to

India and to Australia or the Austral regions.

The possible fusion of Melanochroid Caucasic (South Indian) and Austral Negro blood at a remote epoch in some now perhaps submerged Indo-Austral region.

Keane, Ethnology, p. 226.

Indo-Celtic (in dō-sel'tik), a. Same as Indo-Germanic and Indo-European: a term distinguishing Celtic as the most western member of and to the islands of the Pacific Ocean. the Indo-European family. Indo-Dutch (in "dō-duch'), a. and n.

lating to India and to Holland, or to the Dutch in India.

in India.

Indo-Egyptian (in do-ē-jip'shan), a. Having the combined characteristics of Indian and Egyptian culture.

Indo-Eur. An abbreviation of Inda-European. Indo-French (in do-french'), a. and n. I. a. Relating to India and to France, or to the French in India.

II. n. pl. French who are born or who reside in India.

Indo-Gangetic (in dō-gan-jet'ik), a. Of the Indus and the Ganges: as, the Indo-Gangetic plain of northern India.

In general "the extra-peninsular ranges, the great Indo-Gangetic plain, the northern margin of the peninsula, and the western coast owe their origin to another great series of earth-movements which took place during the tertiary era." Keane, Ethnology, p. 296.

indogenid (in-doj'e-nid), n. [indogen + -id¹.]
The class-name of a series of compounds formed from indogen and certain aldehydes.

They contain the group $C_6H_4\langle \ \rangle C$;, which NH

considered collectively and in contrast with is called the indoxylic or indogenic radical. those which conduce to the generation of new Indo-German (in do-jer man), a. and n. I.

Indo-German (in do-Jer man), ...

a. Same as Indo-Germanic.

I. n. A German who was born in or who resides in India. Keane, Ethnology, p. 395.

Indo-Greek (in do-grek), a. and n. I. a.

Exhibiting the combined influence of India and Greece; also, pertaining to Greeks residing indoxylic acid which, when padded upon cotton and steamed, yields indigo blue. It was introduced in 1895 for calico-printing and was a step toward the introduction of artificial mercial supremacy of the Greeks in the East.

II. n. A member of the ancient Greek race

residing in India.

A very interesting invention of the Indo-Greeks. P. Gardner, Types of Greek Coins, p. 210.

Indo-Iranic (in do-i-ran'ik), a. Pertaining to the Indie and Iranic divisions of the Aryan stock.

yellow compound, C₆H₄<\(\frac{\text{CH:CH.NH}}{\text{NII.CH:CH}}\)\(\text{C}_6\(\text{H}_4\) prepared by the reduction of indigo white. It indoxyl (in-dok'sil), n. [ind(igo) + ox(ygen)]the same kind.

sublimes in long needles which melt at 245° C.

Ind. Meth. An abbreviation of Independent indolinone (in'do-li-nôn), n. [indolin + -one.] Same as *oxindol.

Indo-Abyssinian (in/do-ab-i-sin'i-an), a. and indoloid (in'do-loid), a. [indol + -oid.] Pertaining to indol; specifically, noting the odor of this compound.

Another group of flowers have nauseous or indoloid doxylcarboxylic (in-dok/sil-kär-bok-sil'ik), odors due to the decomposition of some nitrogenous compound. They are often flesh-colored, blood red, dull dark purple or red, and sometimes they are marked with livid stripes or spots. By some authors they are regarded as resembling putrifying flesh or decaying carcasses.

Amer. Vat., July, 1903, p. 476.

Indo-Malayan (in dō-mā-lā'yan), a. Relating to both India and the Malayan islands.—Indo-Malayan subregion, in zoögeeg, the region comprised in the Malay Peninsula, the Philippines, Ceylon, Formosa, Sumatra, Java, and Borneo, together with many islands

Indo-Malaysian (in "dō-mā-lā'si-an), a. Same Indra's sheep. See *sheep1. as *Indo-Malayan. Same Indra's sheep. It is the proper inductance, n. It is the proper

indone (in'don), n. [ind(igo) + -one.] The class-name of a series of dyes of the type $\text{O:C}_6\text{H}_3 <_{NR}^N > \text{C}_6\text{H}_4$, or $\text{HOC}_6\text{H}_3 <_N^N > \text{C}_6\text{H}_4$, HO^R

formed by the action of concentrated mineral

acids on indulines.

Indonesian, a. 2. Of or pertaining to a supposed aboriginal race of southeastern Asia and the Malay Archipelago, resembling Europeans in general appearance and believed by some authors to be related to them. They are

believed to constitute one element of the mixed popula tion of the Malay Archipelago, and to be found in a nearly pure state on some of the islands.

II. n. An individual belonging to the Indonesian race

or pertaining to the Indonesian Archipelago and to the islands of the Pacific Ocean.

Indoor base-ball. See *base-ball.
Indo-Pacific, a. 2. Of or pertaining to the

group of languages, sometimes called Malayo-Polynesian, spoken from Madagascar to Easter

n India.

On some Indo-French and Indo-Dutch coins.

Jour. Anthrop. Soc. Bombay, Jan. 29, 1890, p. 102.

II. n. pl. Dutch who are born or who reside in India.

India Ocean north of the tropic of Capricorn. Sclater.

The Indian Sea-region, or Indopelagia, containing the Indian ocean down to about the same degree of south latitude, and extending from the coast of Africa on the west to Australia and the Malay archipelago on the east.

Geog. Jour. (R. G. S.), X. 219.

indophan (in'dō-fan), n. [ind(iga) + Gr. -φανης, ζ φαίνεσθαί, shine, appear.] A violet compound, C₂₂H₁₀O₄N₄, prepared from 2, 4, dinitro-a-naphthol and potassium evanide. It has a green metallic luster and forms a purple-red solution with cartain goids

red solution with certain acids. indophenin (in -dō - fō' nin), n. [ind(igo) + phen(yl) + $-in^2$.] A blue pulverulent compound, $C_{12}H_7ONS$, prepared by the condensation of isatin and thiophene. It crystallizes in small product with h small needles which have a coppery luster when

rubbed.—Indophenin reaction, a reaction causing the formation of indophenin and used as a test for thiophene. Indophile (in'dō-fil), n. [Gr. 'Ivδός, Indian (India), + φίλος, loving.] One who supports and advances the interests of India and her people. Pall Mall Gazetic, Sept. 19, 1865. Indophilism (in-dof'i-lizm), n. [Indophil

[Indophile +

due to the invasion of Alexander and the commercial supremacy of the Greeks in the East. taining to the mixture of Indian and Saracenic elements.

> Indo-Scythian (in "dō-sith'i-an), a. Of or pertaining to India and Seythia.

> Indo-Spanish (in do-span'ish), a. Having both Spanish and American Indian traits; particularly, of mixed Spanish and American Indian blood.

> Indo-Teutonic (in dō-tū-ton'ik), a. Same as Indo-European.

> indotype (in'dō-tīp), n. In photog., a print by the gelatin process: a name not now in use.

+ -yl.] A colorless oil, $C_6H_4 < \frac{COH}{NH} > CH$,

occurring, in combination with sulphuric acid, in human urine. It is prepared by fusing indigo with potassium hydroxid and the reverse change readily occurs by the action of air or oxidizing agents. It is also called 3-hydroxyindote.

duction of ethylorthonitro-phenylpropionate. It sublimes, melts at 122-123° C., and is readily converted into indigo. Also called indoxylic acid.

indoxylic (in-dok-sil'ik), a. Same as *indoxylcarboxylic.

Indra's sheep. See *sheep1.

inductance, n. It is the property of an electric current in a circuit (called the inducing circuit) of producing a magnetic field surrounding the circuit, which when changing induces an electromotive force in a circuit surrounded by this field or a part thereof (called the induced circuit). If the induced and the inducing circuit are the same, the property is called self-inductance, otherwise mutual inductance. Unit inductance is the number of lines of magnetic force produced by unit current in the inducing circuit and interlinked with the conductor of the induced circuit: 100 times this unit is the practical unit of inductance, called a henry.—Ferric inductances. See *ferric.—Inductance factor. See *factor.—Mutual inductance, the numerical value of mutual inductance and *unit of inductance.

inductance-coil (in-duk'tans-koil), n. A coil which resists the passage of alternating or oseillatory currents on account of its inductance;

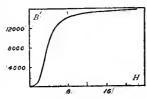
inductance-reactance (in-duk'tans-rē-ak"tans), n. The reactance of an inductance-coil as distinguished from that of a condenser. (in-duk'tans-shunt), inductance-shunt ee *shunt.

induction, n. 6. Magnetic induction is the flux density in a m-dium such as iron when subjected to a magnetizing foxe. It is expressed in terms of a unit called the gauss, namely, the number of lines of force per square centimeter of cross-section of the substance. Induction, thus numerically defined, is usually designated by the letter B; the magnetizing force to which it is due, by the letter H. Induction is frequently determined by winding a ring-shaped piece of the iron to be tested with two coils of wire, the primary and the secondary coil. The secondary coil is connected to a ballistic galvanometer and a known current is suddenly sent through the primary coil. The magnetic field thus established within the iron induces a flow of electricity through the secondary coil and through the galvanometer, which affords a measure of the induction. The relation is expressed by the equation

$$B = \frac{QR}{n_2 S}$$

where Q is the quantity of electricity as measured by the deflection of the galvanometer, R is the resistance of the secondary circuit, S is the cross-section of the iron, and no is the number of turns of wire in the secondary coil. The relation between induction and the magnetizing force may be expressed graphically by means of a curve, called the curve of induction, in which ordinates represent the values of the induction B and abscissæ the corresponding values of the magnetizing force H. The curve rises slowly for small magnetizing forces and then sharply, for a time, until the iron approaches saturation of the sa

until the fron ap-proaches satura-tion, after which the slope of the curve diminishes. These changes in the direction of the



Curve of Magnetic Induction in Iron.

the direction of the Curve of Magnetic Induction and the rations in the permeability of the iron, which increases with the magnetizing force, reaches a maximum, and then diminishes again indefinitely. The induction B is not identical with the magnetization I which is defined by

$$1 = \frac{B - 11}{4\pi}$$

7. The leading or admission of steam into a 7. The leading of admission of steam into a cylinder.—Bipolar induction. See unipolar ★induction.—Chemical induction, in phys. and photog. chem., the phenomenon in which light, falling on a sensitive substance, does not at once act with its full intensity, but at a much less rate, and attains its maximum action only after a certain time—measured in thousandths of a second in the case of a photographic plate, but in minutes in the case of a sensitive mixture of chlorin and hydrogen.

A second very remarkable phenomenon, first pointed ont by the authors, is that of chemical induction. This refers to the fact that the action of light on the sensitive mixture of chlorine and hydrogen does not hegin in its full intensity, but that it slowly increases, until after the lapse of a certain time it attains its regular and maximum Smithsonian Rep., 1899, p. 620.

lapse of a certain time it attains its regular and maximum rate.

Smithsonian Rep., 1899, p. 620.

Coefficient of induction, the numerical value of self-induction or mutual induction; inductance.—Coefficient of mutual induction, the numerical value of the induction produced by a changing current in a neighboring circuit; mutual inductance.—Consilience of inductions. See *consilience.—Curve of induction. See *consilience.—Curve of induction. See *consilience.—Curve of induction in which the conductor moves or revolves in the constant magnetic field or inversely. All dynamo-electric machinery is based on this principle.—Forward induction, in elect, induction, due to the action of the current in the armature of a generator or motor upon the field, such as to strengthen instead of to oppose the field.—Mathematical induction. (a) See induction, 5. (b) In general, the principle that, given any class of terms s, to which belongs the first term of any progression, and to which belongs the term of the progression next after any term of the progression belongs to s.—Photochemical induction. See chemical *induction.—Simultaneous light induction, in physiol. and psychol. optics, a phenomenon of local adaptation. If the boundary line of two contrasting surfaces is steadily fixated, contrast gradually changes into its opposite; the sensory effect of the local stimulation spreads more and more widely over the background. This is *simultaneous light induction.—Simultaneous light induction, in physiol. and psychol. optics, the persistence of the phenomenon of simultaneous light induction after removal of the inducing stimulus, or closure of the eyes.—Total magnetic induction, the total flux in any space, measured in maxwells or unit lines.—Tube of induction, in magnetic field, and whose form is such that the surface integral over any cross-section has a constant value. the surface integral over any cross-section has a constant

Let us imagine two very narrow tubes of induction whose normal sectional areas are very small. $Du\ Bois, \ {\rm The\ Magnetic\ Circuit,\ p.\ 89.}$

Unipolar induction, induction due to any movement of a conductor in a magnetic field such that the cutting of lines of force occurs continuously in the same sense and the induced current flows always in the same direction in the conductor: opposed to so-called bipolar induction, in

induction-balance, n.—Hughes's induction-hal-ance, an apparatus for detecting the presence of con-ducting or magnetic substances by their disturbing effect on a system of halanced induction-coils.

induction-booster (in-duk'shon-bös"ter), An induction-generator connected in series in an alternating-current circuit to regulate the voltage. Such a machine when driven above synchronism raises the electromotive force of the circuit; when below synchronism, it diminishes the voltage.

induction-current (in-duk'shon-kur"ent), n.

A current in a body of water induced by the flow of another current. The induction-current flows in a direction opposite to that of the main current.

When the area over which a wind acts is small relatively to the size of the sheet of water, or when a part of the water is sheltered, e.g. by a headland, the return current may principally flow by the side of the drift instead of underneath. There is, besides, the polarization centrent due to gravity, a second sort of reverse current, viz. the induction currents (induced by viscosity), which, with eddies interposed as friction wheels, flow parallel with and in the opposite sense to the primary ocean currents.

Geog. Jour. (R. G. S.), XI. 529, Advision for the sense of the primary ocean currents.

induction-furnace (in-duk'shon-fer"nās), n. Same as electric *furnace.

induction-generator (in-duk'shon-jen " e-rātor), n. In elect., an alternating-current genthe symbilitic chance. erator, consisting of an alternating, single-indurite (in'dū-rīt), n. [indur(ate) + -ite².] phase, or polyphase stationary and a short-An explosive; a variety of smokeless powder circuited revolving winding, that is, of the same construction as an induction-motor (see electric *motor). An induction-motor, when speeded up above its motor speed, becomes generator and produces electric power.

induction-meter (in-duk'shen-me"ter), n. meter based on the principle of the inductionmotor. See electric machine, under electric.

induction-motor (in-duk'shon-mo#tor), n. clect., an alternating-current motor in which brightest being only of magnitude 3½. the armature is short-circuited upon itself and indusiform (in-du'zi-fôrm), a. Same as *inthe armature current is an induced current produced by the field or exciting current.

induction-regulator (in-duk'shon-reg" \(\bar{u}\)-la-form or shape of an indusium.

tor), \(n\). A voltage or electric-pressure reguindusioid (in-d\(\bar{u}'z\)-ioid), \(a\). [indusi(um) + lator consisting of two coils or sets of coils -oid.] Resembling an indusium.

which can be moved against each other so as indusium, \(n\). 5. A layer of gray matter covto change their industry relation and thereby induction-regulator (in-dnk'shen-reg " ū-lāto change their inductive relation and thereby their voltage.

induction-top (in-duk'shon-top), n. A metal disk which, while spinning about a vertical axis in a magnetic field, inclines under the influence of currents induced in the disk itself.

induction-wattmeter (in-duk'shon-wet"mēter), n. See *wattmeter.

inductiv, a. and n. A simplified spelling of inductive.

inductive, a. II. n. An electric circuit containing considerable self-induction. See in-

inductometer, n.—Differential inductometer, an instrument devised by Latimer Clark for the discharging current from a cable.

inductophone (in-duk'tō-fōn), n. [lrreg. L. inducere (pp. inductus), induce, + (telephone.] A telegraphic device invented by Willoughby Smith for signaling between moving trains and stations along the line by means of induced currents.

inductor, n. 2. Specifically: (a) The revolving element of an inductor-alternator. (b) An induction-coil.

The 40-inch inductor is connected up, and demonstrations and lectures on all the apparatus are given every day at three o'clock.

Elect. World and Engin., Sept. 24, 1904, p. 514.

inductor-alternater (in-dnk 'tor-al "ter-nater), n. See *alternater.

inductor-dynamo (in-duk'tor-dī"na-mē), n. type of electric generator in which field-coils and armature are fixed, and in which fluctuations are periodically caused in the magnetic field, thus inducing currents in the armaturewindings, by the movement of masses of laminated iron (inductors).

inductorium, n.—Double inductorium, in physiol., an instrument devised by M. von Vintschgau, consisting



of two acts of primary and secondary coils mounted on the same base, and so disposed that the same electric cur-rent can be sent through both, at once or in immediate succession, or can be confined to the one or the other ac-cording to the requirements of experiment. The Wagner hammer is either mounted on a wooden block between the coils, or is set up upon a separate base.

which there is reversal of current in the conductor every inductory (in-duk'tō-ri), a. [NL. *inductorius, half-revolution. L. inducere, lead in: see induct.] Serving
 to induct or bring in; introductory: as, laws

inductory to a new régime.

Induline scarlet. See *scarlet.

indulto, n. 2. In Sp. law, pardon for a criminal, or a remission of the sentence or penalty imposed upon him.

induna (in-dö'nä), n. [Zulu.] An officer under the chief, among the Zulus and other South African tribes. There are usually several indunas in each tribe: they act both as councilors and ministers of the chief, being responsible to him only.

The chiefs are possessed of arbitrary power, but in practice the advice of a numerons body of councillors is invariably sought in all matters of importance. These conneillors, or indunas, are in turn responsible to the chief for the conduct of affairs in the various districts in which they exercise authority.

Geog. Jour. (R. G. S.), XL 514.

indurable² (in-dūr'a-bl), a. [in-3 + durable.] Not durable.

Soft wood blocks are insanitary and indurable.

The Hub, Oct. 28, 1899. N. E. D.

indurated, p. a. 2. In geol., hardened; consolidated: applied specifically to fragmental sediments such as sandstone, clay, or shale.

induration, n.—Primary or primitive induration, the syphilitic chance.

An explosive; a variety of smokeless powder consisting of one part guncetton blended with from one to two parts nitrobenzene. The paste is passed through rollers and granulated or pressed into the form of cords, and finally hardened or 'indurated' by the action of hot water or steam.

Indus (in'dus), n. [L. Indus, < Gr. 'Ivôo; see Indian.] The 'Indian,' a moderately large southern constellation between Grus and Pavo, containing, however, no conspicuous stars, its brightest being only of magnitude 31/2.

dusiiform.

indusiiform (in-dû'zi-i-fôrm), a. Having the

ering the corpus callosum in the brain: also indusium griseum.—6. One of the embryonic envelops developed in addition to the amnion and serosa in certain insects, such as the Locustidæ. Wheeler, 1893.— Indusium verum, the thin, vestigial cerebral cortex present on the dorsal surface of the callosum.

industrial, n. 2. A share of stock in an industrial (manufacturing or commercial) enterprise.

Great bales and bundles of "industrials" have had to be thrown over also for protective purposes. N. Y. Times, July 22, 1903.

-ineæ (i'nē-ē). [NL., fem. pl. of -in-eu-s: see -ine¹ and -cæ.] A terminal combining-form much used in botanical classification: usually denoting large groups. In Engler's system it denotes groups with the rank of suborders, called by him subseries (*Unterreihen*).

inée (ë-na'e), n. [W. African.] An arrow-poison used by the natives of the Gaecon country. It is prepared from the seed of Strophanthus hispidus. Also called Kombe arrow-poison.

ineffable, a. II. n. 1. pl. Trousers. [Humorous.

Shoes off, ineffables tucked up.
W. Cory, Letters and Journals, p. 196. 2. One who is not to be named; one who is too high in his profession or in the fashionable world to be named with others.

Two white-hatted and pigtopped ineffables had taken refuge under the colonnade from a transient shower of rain. It was a by-race, and there was little doing, so the ineffables put up their betting-books and relaxed intogeneral conversation.

Illus. London News, June 15, 1861, p. 549.

ineffulgent (in-e-ful'jent), a. [in-3 + effulgent.] That is not effulgent; lacking power to illuminate.

inemotivity (in-ē-mō-tiv'i-ti), n. cmotive + -ity.] Incapacity of showing emetion; lack of emotional sensibility.

The latter [Prof. James] himself candidly observes, "We must remember that the patient's inemotivity may have been a co-ordinate result with the anæsthesia of his neural lesions, and not the anæsthesia's mere effect."

Encyc. Brit., XXXII. 66.

inemulous (in-em'ū-lns), a. [in-3 + emulous.] Without emulation; not emuleus; not envious. (for).

He treads, inemulous of fame or wealth, Profuse of toil, and prodigal of health; With soft assunsive eloquence expands Power's rigid heart, and opes his elenching hands. Dr. E. Darwin, Botanic Garden, ii. 2.

inequality, n.—Inequalities in altitude, the slight errors due to the expansion and contraction of the sextant frame from changes of temperature.

inequiactinate (in-ē-kwi-ak'ti-nāt), a. neg. + æquus, equal, + E. actine + -ale¹.] In sponge-spicules having acti sponge-spicules, having actines or rays of unequal length or size.

Oxeas in great variety of size and form . . . often in-equiactinate, the large oxeas very broad in the middle and tapering gradually to fine points. Proc. Zool. Soc. London, 1902, 11, 214.

inequianchorate (in-ē-kwi-ang'kor-āt), a. [L. in-neg. + L. æquus, equal, + E. anchorate.] Unequally anchorate. See *equianchorate.

inequiaxed (in-ē'kwi-akst), a. [L. in-neg. + æquus. equal, + axis, axis, + -cd².] Characterized by unequal axes. Also inequiaxial. inequiaxial (in-ē-kwi-ak'si-al), a. Same as

inequilaterality (in -ē-kwi-lat-o-ral'i-ti), n. [inequilateral +-ity.] The condition of being inequilateral, as the shells of the pelecypod Mollusca.

inequilaterally (in-ē-kwi-lat'e-ral-i), With the sides unequal: specifically, in zool.: (a) unequally on two sides: as, inequilaterally rounded; (b) so as to have two sides unequal: as, inequilalerally produced or developed. Buck, Med. Handbook, I. 191.

inergetic (in-er-jet'ik), a. [For *inenergetic, \(in.3 + energetic \)] Without operation in-3 + energetic.] Without energy. Tupper. inerroneous (in-e-rō'nē-us), a. [in-3 + erroneous.] Not erroneous; without errors.

There are many thoughtful, although possibly not inerroneous students of the subject.

R. G. White, Every-day English, p. 127. N. E. D.

inertia, n.—Electric inertia. (b) Inertia over and above that ascribable to the ordinary mass of a body and due to existence of an electric charge. Also called electromagnetic inertia.—Electromagnetic inertia.—See

spann or rortugar: as, the Inflatt Don Philip:
not necessarily the heir to the throne. See
infantic, infanta.

infantic, a. 3. In geol., of a land form, having magnetic inertia electric *inertia.

Inertia enrve. See *curve.—Inertia of attention, in psychol., the tendency of the attention to hold fast to a given object or topic, or to recur to this object or topic, in spite of distractions: the counterpart and corrective of the versatility of attention, that is, of its tendency to range over the whole field of consciousness. Inertia of attention of the versatility of attentions. the versatility of attention, that is, of its tendency to range over the whole field of consciousness. Inertia of attention is a characteristic of the habituated, versatility of attention a characteristic of the non-habituated consciousness.—Inertia turning-moment, in an engine, the turning-moment due to the inertia of the moving parts, particularly those parts which have a reciprocating motion.—Intital inertia, in psychophys., that quality of nerve-substance or of the tissue of the end-organ in virtue of which a sensation does not rise at once to its full strength on the nresentation of stimulus, but requires an approach of which a sensation does not rise at one to its full strength on the presentation of stimulus, but requires an appreciable time to attain its maximal intensity.—Mechanical inertia, inertia due strictly to the mass of a body, as distinguished from the extra electrical or electromagnetic inertia which it acquires when the body is electrically charged.—Rotational inertia. Same as moment of inertia (which see, under inertia).

The rotational inertia of the body = $m_1r_1^2 + m_2r_2^2 + m_3r_3^2 + \dots = \Sigma$ (nr²). This quantity Σ (nr²) is generally called the Moment of Inertia of the body.

A. M. Worthington, Dynamics of Rotation, p. 20.

Terminal inertia, in psychophys., that quality of nervesubstance or of the tissue of the end-organ in virtue of which a sensation does not cease at once with the removal of stimulus, but requires an appreciable time to disappear. Baldwin, Diet. Philos. and Psychol., I. 641.—Unit moment of inertia, a moment of inertia such that a unit couple will give unit angular acceleration.

inescatory (in-es'kā-tō-ri), a. [inescate + -ory.] ertaining or adapted to inescation; baiting; alluring.

Mouse traps, inescatory traps.

Energe. Antiq., 1, 390. N. E. D.

inesculent (in-es'kū-lent), a. [in-3 + eseulent.] Not esculent; not estable. Peacoek, Crotchet Castle, ii.

inessive (in-es'iv), a. [L. inesse, be in (\langle in, infection, n. in, + esse, be), +-ive.] In gram., expressing 'position in'; locative. Amer. Anthropoloby the sperm

position in ; locative. Amer. Antiropologist, Jan.-March, 1903, p. 26.

inexcommunicable (in-eks-ko-mū'ni-ka-bl), a.

[in-3 + excommunicable.] That cannot be excommunicated.

A multitude is inexcommunicable.

Collins, Def. of Bp. Ely, II. x. 531. N. E. D. inexigible (in-ek'si-ji-bl), a. [NL. *inexigi-bilis, ⟨ in- neg. + *exigibilis, ⟨ L. exigcre, exact: see exact, v.] That cannot be exacted.

From admiration of the degree of perfection in which these inexigible services have been rendered by a Parish Priest, a Patron bestows upon him . . . the rich living, the dignified Sinecure, the Bishoprick.

Bentham, Church-of-Englandism and its Cateban, D. 281.

(Examined, App., p. 281.

inexplicate, a. 2. Not explained.

inexpugnability (in-eks-pug-na-bil'i-ti), n. The state of being inexpugnable, or unconquerable.

He hinself, behoving to stand firm if the worst was not to realize itself, had to draw largely on what silent courage, or private inexpugnability of mind, was in him.

Cartyle, Frederick the Great, III. xv. 5.

In inexpungible (in-eks-pun' ji-bl), a. [in-3 + expunge + -able.] Incapable of being rubbed out or obliterated.

The law is on the statute book of human thought, inex-ungible. Chicago Advance, Feb. 20, 1896. N. E. D.

in. f. An abbreviation of the Latin in fine, at the end

inface (in'fās), n. $[in^1 + face^1]$ The inward face; specifically, in *phys. geog.*, the steeper slope or escarpment of a cuesta, facing inland. infacing (in'fā'sing), a. $[in^1 + facing.]$ Facing (in'fā'sing), a. $[in^1 + facing.]$ eing inward; facing toward the inside, as of a fortification.

The steep infacing escarpment.

Geog. Jour. (R. G. S.), 1X, 543. infall, n. 2. A junction; a falling or running together, as of streams; the joining of one road with another.

It was near to the infall of the road from Loch Dee that we first got sight of those we sought.

Crockett, Men of the Moss-Hags, xlvii.

3. The inlet or place where water enters a reservoir or basin: generally confined to cases where the water in entering pours or falls in. infamatory (in-fam'a-tō-ri), a. 1. Defamatory: as, an infamatory statement.—2. Rendering infamous.

infancy, n.—Topographic infancy, the stage of a land form which, in its present relation to base-level, has very recently been subjected to the processes of erosion. infant, n. 4. A royal prince or princess of Spain or Portugal: as, the Infant Don Philip:

been subjected to the processes of erosion, in its The smaller the sphere to which the electric charge is given, the greater will be the electromagnetic inertia.

Elect. World and Engin., Jan. 17, 1903, p. 103.

infantilism (in'fan-til-izm), n. [infantile + present relation to base-level, for a very short

-ism.] Arrested or retrogressive development; the persistence or recurrence in the adult of those characteristics which are normal, but transient, in the child.

The term infantilism is equally applicable to the congenitia and the acquired forms. The former have never left their childhood behind, the latter return to it.

Ribot (trans.), Psychol. of Emotions, p. 422.

A case of Infantilism in a child, aged ten years, who had not grown since four years old. Her weight was 26 pounds and her height was three feet.

Lancet, May 30, 1903, p. 1526. Psychological infantilism, in psychol., a term introduced by Ribot to characterize the type of mind which is unstable, unquiel, nervous, and self-contradictory, on the ground that the distinctive mark of the childish character is mobility. Ribot (trans.), Psychol. of Emotions, p. 422.

infantry, n.—Light infantry, infantry trained and equipped for rapid marching, as the hersaglieri of Italy.

— Mounted infantry, infantry which does not march on foot, but is transported from point to point, usually on horses. Abbreviated M. 1.

Mounted infantry are not cavalry but simply mobile infantry; they may be on horses, hieyeles, or carried in carts; but are usually mounted on horses for convenience in conveying them from point to point.

United Service Mag., April, 1901, p. 108.

infant's-breath (in'fants-breth), n. Same as

*baby's-breath.
infect, v. t. 4. In philol., to affect the quality of a sound in a following or preceding syllable: used especially in reference to the influence of prominent vowels, and phonetic infiltrative (in-fil'trā-tiv), a. changes, in the Celtic language.

Producing infiltration; o

infectant (in-fek'tant), a. [infect + -ant.] Infecting; having the power of communicating infectious disease.

infection, n. 4. In biol., the hypothetical influence upon the tissues of the mother animal by the sperm of a male, such that subsequent offspring of the mother by other sires are infeeted with the characteristics of the first sire: a hypothesis invented to account for telegony.

See *telegony. Encyc. Brit., XXXII. 215.
infectionist (in-fek'shon-ist), n. [infection + -ist.] One who believes in the origin of disease through infection.

inferably (in 'fer-a-bli or in-fer'a-bli), adv. By way of inference; in an inferable way. Harvard Psychol. Studies, I. 340.

inferent (in'fe-rent), a. [L. inferens (-ent-), ppr. of inferre, earry in: see infer.] Same as afferent: noting a nerve, a lymphatic vessel, or a blood-vessel.

Infericornia (in-fer-i-kôr'ni-ii), n. pl. [NL., \(\lambda \text{L. inferus, lower.} + cornu, horn. \) The group of heteropterous insects now known as the fam-

ily Lygæidæ. Amyot and Serville.
inferior, a. 8. In anat., lying on the ventral side of the body; farther from the dorsal line, or back, than some other organ or part of an organ.

infernalize (in-fer'ngl-īz), v. t.; pret. and pp. infernalized, ppr. infernalizing. [infernal + -ize.] To imbue with infernal character or

traits; make hellish.

To infernalize human nature by poisoning the very sources of morality and peace.

**Coleridge*, Own Times, 111. 961.

infero-external (in/fe-ro-eks-ter'nal), a. Below and on the outer side.

inferofrontal (in fe-ro-fron tal), a. Situated on the lower part of the frontal region of the cranium.—Inferofrontal fissure. See ★fissure.

infero-internal (in fe-ro-in-ter nal), a. Below and on the inner side.

inferolaterally (in fe-ro-late-ral-i), adr. ward or on the lower portion of the side of any organ or object.

any organ or object.

inferomarginal (in"fe-rō-mār'ji-nal), a. and
n. [L. inferus, lower, + margo, margin.]

Same as *inframarginal.

inferradial (in-fe-rā'di-al), a. [For *inferoradial or *infraradial; 'L. inferus, lower (or
infra, below), + NL radialis, radial.] Noting
the lower radial or part of the radial plate in
some of the misside. some of the crinoids. These are present when the radial plate is transversely divided, the lower division being termed inferradial, the upper superradial.

infidelic (in-fi-del'ik), a. [infidel + -ic.] Of or relating to infidelity: as, immoral and infidelic tendencies. Homiletic Monthly, July, 1882, p. 596.

infidelical (in-fi-del'i-kal), a. [infidelic + -all.] Same as *infidelic. Coloridge, Unpuh. Letters, p. 95.

infidelize (in'fi-del-īz), r.; pret. and pp. infidelized, ppr. infidelizing. [infidel + -ize.] I. trans. To make infidel: as, "to infidelize the world." Medwin, Shelley, II. 219. X. E. D.

A mark of disrespect publicly affixed upon it by individuals or bodies of men of high lead and anthority, lets the anti-religionists loose at once, and the work of infidelizing a country is then more than half done.

Blackwood's Mag., XL. 591.

II, intrans. To become an infidel; adopt disbelief in the divine origin of Christianity. in-fielder (in'fēl"der), n. In base-ball, a baseman, short-stop, or pitcher when he is fielding the ball.

in-fighting (in'fi"ting), n. In boxing, fighting at close quarters, where only short-arm blows ean be delivered.

infiltration, n. 3. In geol., the introduction of water into porous or open-textured rock. The term is specially employed in the discussion of ore-deposits to describe the introduction of new minerals in solution.—Infiltration by ascension. See *infiltration theory.—Infiltration theory, that theory among mining geologists which explains the introduction of ore and gangue into fissures by uprising water. The process is often called infiltration by ascension.—Waxy infiltration. Same as lardaceous disease (which see, under lardaceous).

infiltration-vein (in-fil-trā'shon-vān"), n. A vein produced by the introduction of the minerals in solution: contrasted with those filled by volatilization, or by replacement of wallrock.

tive (in-fil'trā-tiv), a. [infiltrate + Producing infiltration; of the nature of infiltration.

infin. An abbreviation of infinitive.

infinit, a. and n. A simplified spelling of in-

infinitarily (in-fin-i-tā'ri-ly), adv. In an infinitary way.

We may also say f(x) is *infinitarily* smaller than g(x). In symbols $f(x) \langle g(x) \rangle$.

J. Pierpont, Theory of Functions, I. 314.

infinite. I. a.—Donbly infinite, in math., containing two parameters, to each of which independently auunlimited number of values may be assigned.—Infinite See ★set1.

II. n. 2. In geom., the plane on which lie all points at infinity and all straights at infinity.

infinitesimal, a. and n. I. a.—Infinitesimal number, operation. See *number, *operation.

II. n.—Method of infinitesimals. See *method. infinitesimalism (in"fi-ni-tes'i-mal-izm), n.

The doctrine that the potency of a drug is a drug in the doctrine that the potency of a drug is a drug in the doctrine that the potency of a drug is a drug in the doctrine that the potency of a drug is a drug in the doctrine that the potency of a drug is a drug in the doctrine that the potency of the doctrine that the doctrine that the potency of the doctrine that the doctrine that the potency of the doctrine that the potency of the doctrine that the doctrine that the potency of the doctrine that the doctrine the doctrine the doctrine that the doctrine the doctrin increased in proportion as the amount contained in a given quantity of the triturate or solution approaches the infinitesimal.

infinitinomial (in-fin i-ti-nō'mi-al), a. and n. [L. infinitus, infinite, + nom(in), term, + -ial. Cf. binomial.] I. a. Having an infinite number of terms. [Rare.]

II. n. A function which has an infinite number of terms.

infinitivally (in-fin-i-ti'val-i), adv. In manner or with the force of an infinitive.

On the English Perfect Participle used Infinitivally. Amer. Jour. Philol., 1882, p. 297.

On the English Perfect Participle lised Application, Amer. Jour. Philol., 1882, p. 297.

infinitive, n.—Gerundial infinitive, See ★gerundial.—Split (or cleft) infinitive, a name conveniently used to designate briefly the infinitive phrase consisting of the infinitive proper (for example, 'designate,' below) and the so-called 'sign,' the preposition 'to,' when separated by a qualifying adverb or phrase, as in 'to briefly designate,' 'to readily understand,' 'to suddenly and completely change one's attitude.' This use is in high disfavor with literary critics and purists who write upon the subject, but it occurs abundantly in English literature from the seventeenth century down. Nearly every 'standard author' is 'guilty' of it, as 'fizedward Hall and others have shown, and it is thoroughly established in popular speech. It is often dictated by a sense of rhythm, the placing of the adverb after the verb and before the week adjunct or object which follows the verb resulting often in disharmony of rhythm and stress. The idiom is a perfectly natural development of the conditions given—a verb to be qualified, a stress qualifier, and an unstressed syllable (to) of no definite meaning. This syllable to is instinctively treated as a or the is treated in a similarly stressed sequence of adjective and nom ('a hried designation,' 'the proper order,' etc.)

infinito-absolute (in - fin "i - tō-ah' sō-lūt), a.

infinito-absolute (in-fin "i-tō-ah' sō-lūt), a. Both infinite and absolute. Sir W. Hamilton. infinito-infinitesimal (in-fin"i-tō-in"fi-ni-tes'imal), a. Infinitesimal of the second order. infinity, n. 4. An infinite number: as, an infinity of straight lines. Its symbol is ∞.

On each of the ∞^2 points on a plane are the ∞^2 straights of a straight-sheaf; so there are just ∞^4 straights.

Merriman and Woodward, Higher Mathematics, p. 97.

Infinity of a function, in function-theory, a value x which makes the function infinite.—Infinity plug, in elect., a plug in a resistance-box which when removed from its seat opens the circuit (makes the resistance infinite).—Point at infinity. See \neq point.

infinite).—Point at infinity. See *point1.

infissile (in-fis'il), a. [in-3 + fissile.] Not capable of being split. H. Spencer, Prin. of Psychol., II. 210.

infiame, v. i. 2. To become inflamed.

inflamer, n. 2t. Specifically, a bookkeeper employed in inns to run up, increase, or inflame the bills of customers: called the inflamer of reckonings. Jonson introduces a man flamer of reckonings. Jonson introduces a man of this kind in "The New Inn."

inflammation, n.—Obliterative inflammation, inflammation of the lining membrane of a cavity, such for example as the pericardium or pleura, causing adhesions between the opposing surfaces and consequent obliteration of the cavity.

inflatant (in-fla'tant), a. [inflate + -ant.] Inflating; serving to inflate: also used substantively.

inflected, p. a. 4. Serrated, or bent inward, as contour-lines representing deep ravines or narrow valleys cutting into an escarpment.

inflection, n. 6. In eccles. chanting, same as

inflector (in-flek'tor), n. and a. [inflect + -or.] I. n. That which inflects or hends; specifically, a muscle that flexes or bends the joints of the limbs. The more commonly used word is flexor.

II. a. Inflecting or bending: as, the inflector muscles.

inflood (in-flud'), v. i. [in-1 + flood.] To flow

in; pour in, as a wave. inflorescence, n. 2. In bol.: (b) The portion of a plant devoted to reproduction, including the flowers, peduncles, rachides, general axes, flower-stalks, scapes, etc.

The inflorescences, as well as the leaves, contribute largely to the formation of mould, and vegetable mould is said to be capable of absorbing almost twice its own weight of water.

Geog. Jour. (R. G. S.), X. 497.

Inflorescent (in-flō-res'ent), a. [LL. inflorescens(-ent-), ppr. of inflorescerc, begin to blossom: see inflorescence.] 1. Flowering; som: see inflorescence.] 1. Flowering; beginning to flower: said of plants or trees: as, early inflorescent grasses.—2. Of or pertaining to blooming or flowering: as, inflores-

The flowering of man's spiritual nature is as natural and as strict a process of evolution as the opening of a rose or morning-glory. The vital inflorescent forces are from within, and are continuous from the root np.

J. Burroughs, in Pop. Sci. Mo., May, 1887, p. 10.

3. Noting that through which air or other fluid enters, either to cleanse or aërate: nsed of a pipe or duct, or channel,

the point of view of the receiving stream.

the point of view of the receiving stream.

influenza, n. 1. Influenza is an acute infections discase of which the most prominent symptoms are fever, general prostration, pains in various parts of the body, and inflammatory processes attacking the serous or mucous membranes, the lungs, or the nerves. The onset is usually abrupt with headache, backache, fever, and loss of strength. According to the organs most affected in its further progress, the disease is said to be of the respiratory, nervous, or gastro-intestinal form. Inthenza is noteworthy for the rapidity with which an epidemic sweeps over entire countries and even from one continent to another, and for the large proportion of the population attacked when it is prevalent. The disease is caused by a small, non-motile bacillus which occurs in great numbers in the nasal and bronchial secretions of the patients. Influenza has a low death rate, but its effect on the general health is often severe and lasting, and many grave sequelæ are possible. One attack does and many grave sequelæ are possible. One attack does not protect against a second. The ordinary influenza or 'grippe,' though in some ways simulating true epidemic influenza, is a different and much milder disease.

3. An infectious specific fever of horses, asses, and mules, characterized by alterations of the blood, great depression of the vital forces, and inflammatory complications, especially of the lungs, intestines, and brain. It usually asnungs, intestines, and brain. It usually assumes an epizoötic form.—Influenza bacillus. See *bacillus.—Laryngeal influenza, a form of influenza among horses in which sore throat is the predominating symptom.

influenzal (in-flö-en'zal), a. [influenza + -all.]
Of or relating to influenza. Jour. Exper. Med.,
Oct. 1, 1901, p. 621.—Influenzal pneumonia, a form of pneumonia associated with the presence of the bacillus of influenza instead of that of the pneumococcus—the usual form.

influxible (in-fluk'si-bl) a. [22, 3, 1, 4, 2, 7]

influxible (in-fluk'si-bl), a. [in-3 + fluxible.] Influxible (in-fluk'si-bl), a. [in-3 + fluxible.] Not liable to undergo flux or continual change. infold, v. t. 3. To inclose within a fold.—Infolding the stomach, an operation for ulegr of the stomach, in which a fold, with the lesion at the bottom, is made by stitching together the walls of the organ on either side. Lancet, Aug. 29, 1903, p. 592. infolio (in-fo'li-ō), n. [NL. in folio, 'in (one) leaf': see folio.] A book or large leaf made by folding the sheet once only in its center.

by folding the sheet once only in its center. infooted (in'fut'ed), a. $[in^1 + foot + -ed^2]$. Having the feet pointed inward; pigeon-toed. infr. An abbreviation of the Latin infricare, to rub in.

infra-anal (in-frä-ā'nal), a. [L. infra, below, + anus, anus, + -all.] Situated below the anus.—Infra-anal lobe, a fleshy conical lobe, often with a horny point, directly beneath the vent in certain caterpillars. Its purpose is apparently to aid in pushing the excremental pellets away from the body.

infrabasal (in-fra-ba'sal), n. [L. infra, below, + Gr. $\beta \dot{a}\sigma v$, base, + $-al^{\mathrm{I}}$.] In the dieyelic erinoids, one of the lowest series of plates in or, where that is absent, the single centrodorsal plate. The infrabasals and the basals together constitute the base of the crinoid in inframarginal, a. 2. In zoöl., lying below the dicyclic forms. Sometimes termed underbasal.

Sphærocrinus geometricus: abnormal specimen having the hasal plate irregularly six-sided by reason of the flat-tening of the external angle of an *infra-basal* piece, W. Bateson, Study of Variation, p. 437.

infrabass (in'fra-bas"), n. In organ-building, same as subbass.

infracalicular (in frä-kā-lik'ū-lār), 'a. [L. infra, below, + NL. calicula + -ar³.] Below the calyx: as, the infracalicular buds in madreporarian corals.

Infracalicular buds of the polyps. Philos. Trans. Roy. Soc. (London), 1896, ser. B, p. 165. infracentral (in-frä-sen'tral), a. Situated on the inferior, or ventral side, of the centrum.

The infracentral keel or spine of such vertebræ as those of the turtles, rabbits, etc. Proc. Zool. Soc. London, 1891.

infraclavicle (in-frii-klav'i-kl), n. [infra- + clavicle.] A backward projecting part of the mologized with the interclavicle of certain reptiles; an interclaviele.

But it has also been shown, by Starks, that such a thing as an infraclavicle does not exist even in the **\(\pi\)** ickleback, the bone so-called being only a part of the coracoid; and as, in most of the sticklebacks, the pelvic bones join the latter, the resemblance between them and Lampris remains.

Annals and Mag. Nat. Hist., March, 1904, p. 173. infraconscious (in-fra-kon'shus), a. Below the level of consciousness; subconscious; subliminal.

Those impulses or irritations which are infra-dominant, . . . in the psychical sphere, . . . bring about infraconscious or extra-marginal psychical activities.

Buck, Med. Handbook, 111. 260.

infraction, n. 3. An incomplete (greenstick)

infra-oral

II. n. A tributary stream, looked at from infradiaphragmatic (in "frä-di" a-frag-mat'ik), a. [L. infra, below, + diaphragma(t-), diaphragm, + -ic.] Situated below the diaphragm.

infradominant (in-fra-dom'i-nant), a. In neurol., weaker than subdominant. Dominant excitations are said to correspond to focal mental processes; subdominant to marginal; infradominant to extramarginal or infraconscious processes.

Those impulses or irritations which are infra-dominant act, in the psychical sphere, below the threshold of conscionsness.

Buck, Med. Handbook, III. 260.

infraglacial (in-frä-glā'shial), a. [L. infra, below, + glacies, ice, + -all.] Subglacial. J. Geikie, The Great Ice Age, p. 91. infragranitic (in'fra-gra-nit'ik), a. [L. infra, below, + granite + -ic.] In geol., situated below granite, or coming from lower depths than those occupied by granite: as, an infragranitic source of volcanic lavas.

infralabial (in-fra-la'bi-al), a. and a. I. a.

Lying below the lips.

II. n. One of the series of horny plates which cover the edge of the lower lip in reptiles such as snakes and lizards; a lower labial or inferior labial: correlated with *supralabial.

The gastrosteges in one instance are 154, a common number in Sirtalis sirtalis, and the supralabials are somethnes seven, the normal number for Sirtalis sirtalis which also occasionally has nine infralabials, as occurs in two specimens of hutleri.

Biol. Bulletin, Nov., 1904, p. 295.

Infralias (in-frā-li'as), n. [L. infra, below, + E. Lias.] In geol., an extensive series of strata in the Tyrolese and Swiss Alps and in England lying between the Trias formation and the typical Lias above: more generally known as Rhætic heds, and in England as the Penarth beds. English geologists generally include this formation with the Trias, but on the Continent it is usually placed with the Lias.

infralittoral (in-frä-lit'ō-ral), a. [L. infra, helow, + littus (littor-), shore, + -all.] Noting that zone of marine deposits which extends from helow low-water mark over bottoms which are the wasted remains of former continents and are for the most part of relatively shallow depth, though they may lie at some hundreds of fathoms. These deposits are of terrigenous origin and are intermixed with remains of marine animals.

inframammillary (in-frä-mam'i-lä-ri), a. [L.

margin, as the plates in the test of certain starfishes. Also inferomarginal.

II. n. 1. One of the plates in the lower row of marginal plates in certain starfishes .-One of the horny plates which cover the under side of turtles, lying between the marginals and abdominal scutes.

inframolecular (in/frä-mō-lek/ū-lär), a. [L. infra, below, + NL. molecula, molecule, + -ar³.] Lying within the molecule or within the sphere of molecular influence. Modern speculation concerning the constitution of matter regards the molecule as a more or less complex sy tem the relations between the parts of which are said to be inframolecular.

All her [nature's] operations upon an ultra-stellar scale, all her activities at infra-molecular degrees of proximity, are kept from our view by that heavy veil of Isis which nau's limited seuses and his restricted intellectual powers cannot lift.

Smithsonian Rep., 1899, p. 213.

hypocoracoid in the hemibranchiate fishes, inframontane (in-frä-mon'tan), a. [L. infra, long supposed to be a separate bone and hobelow, + mons(mont-), mountain.] Sitnated Sitnated below, + mons(mont-), mountain.] under a mountain, as a tunnel.

infraneolithic (in fra ne-ō-lith ik), a. [L. in-fra, below, + E. neolithic.] Of or pertaining to deposits or strata below those of neolithic age. Man, 1901, p. 94.

infranodal (in-frä-no'dal), a. [L. infra, below, + nodus, node, + -al'.] Situated below the node or joints of a stem.

infranuclear (in-frā-nū'klē-ār), a. [L. infra, below, + nucleus, nucleus, +-ar3.] In histol., below the nucleus: said of the part of an epithelial cell beneath the nucleus.

infra-occipital (in frä-ok-sip'i-tal), .a. [L. infra, below, + E. occipital.] Situated below the occipital.—Infra-occipital sulcus. See **sulcus. infra-oral (in-frä-o'ral), a. [L. infra, below,

+ os(or), mouth, $+ -al^{1}$.] Situated below the mouth: used in ichthyology in describing any barbel or other appendage below the mouth. Jordan and Evermann, Amer. Food and Game

Jordan and Evermann, Amer. Food and Game Fishes, p. 536.

Infra-orbital neuralgia. Same as facial *neuralgia. —Infra-orbital vacuity. See *racuity. infra-orbital vacuity. See *racuity. infras-orbital vacuity. See *racuity. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium. Parker and Haswell, Textbook of Zool., I. 83. infusorium infusorium. Parker and Haswell, Textbook of Zool. I. 83. infusorium the fourth gill-arch in fishes, usually bearing teeth. Starks, Synonymy of the Fish Skeleton, p. 519.

infrapsychical (in-fra-sī'ki-kal), a. [L. infra, below, + E. psychical.] In neurol., below the level of the psychical or psychophysical; auto-

matic: as, infrapsychical cerebral centers.

Lancet, June 25, 1904, p. 1810.

infrapubian (in-frä-pū'bi-an), a. [L. infra, below, + pubes, pubes, + -an.] Same as sub-

infrapubic (in-frä-pū'bik), a. Same as subpubic.

infraquantivalent (in frä-kwon-tiv a-lent), a. [infra- + quantivalent.] Below the normal inglutition (in-glö-tish on), n. [L. in, in, + qlutire, swallow, +-tion.] Same as degluti-

We must ascribe to the affect the attribute of so chang-

Infraspinous index. See *index. infraterrene (in fra-te-ren'), a.

below, + terra, earth, + -ene (cf. terrene).] Subterraneous.

Infratongrian (in-frä-tong'gri-an), a. [L. infra, below, + E. Tongrian.] Situated below the Tongrian: applied, in gcol., to the earliest stage of the Oligoceue Tertiary series in southern Europe.

infratrochanteric (in-frä-trö-kan-ter'ik), a. [infra-+ trochanter + -ic.] Situated below either of the trochanters. Syd. Soc. Lex. infratubal (in-frä-tū'bal), a. [L. infra, below, + tubus, tube, + -all.] Situated beneath a tube, especially the Fallopian or Eustachian tube. Euck, Med. Handbook, VII. 157. infraturbinal (in-frä-ter'bi-nal), n. [infra-+ turbin(ate) + -all.] The inferior turbinate bone.

infrequent, a. 3. In bot., distant; sparsely placed: said of punctures, glands, hairs, etc. infructescence (in-fruk-tes'eus), n. [L. in-2+fructus, fruit, +-escence.] 1. The mature stage succeeding inflorescence: used concretely for the fruit with its immediate supports.

intravenous infusion.

infusile (in-fū'sil), a. [in-3 + fusile.] Incapa-

ble of fusing; not fusile. Coleridge.
infusion, n. 6. The introduction into a vein of a quantity of saline solution or other fluid for therapeutic purposes.

infusionism (in-fū'zhon-izm), n. [infusion + -ism.] The doctrine that the soul has existed in a previous state and was infused or poured into the body at conception or birth. Plato, Philo, Origen, and, in modern times, many philosophers and theologians, have held this view.

infusionist (in-fū'zhon-ist), n. [infusion+-ist.]

One who holds the doctrine of infusionism.

infusion-jar (in-fū'zhon-jär), n. A vessel, commonly a cylindrical jar of porcelain or earthenware, in which an infusion is prepared by pouring water or some other solvent over herbs, roots, etc., in order to extract their active principles. Frequently a false hottom or per-forated partition serves to retain the insoluble residue, while the infusion may be poured off in a clear state.

infusion-pot (in-fū'zhon-pot), n. Same as *infusion-jar, except that an infusion-pot is usually of such material and so shaped as to ingravescence (in-graves'ens), n. [L. ingra-

infusor (in-fū'sor), n. [G. infusor.] Same as infusorium. Parker and Haswell, Textbook of

In all cases where, population not being homogeneous, the different portions of a country... are variously coloured as by race, or religion, or history, or employments, the argument against central agent loses the power of sympathy and close adaptation to peculiar wants and wishes, and may lose also, where relations have not been altogether kindly, even the consciousness of this ingenited defect.

Gladstone, Irish Question, ii. 49.

inglaze (in'glaz), a. [in1 + glaze.] In ceram., marked by the incorporation of the decorative colors with the glaze. By printing or painting on the glaze with underglaze colors and then firing the ware a second time in the glost-kiln, an effect is produced which it is difficult to distinguish from real underglaze printing or painting.

E. A. Barber, Pottery and Porcelain of the U. S., p. 14.

tion.

We must ascribe to the affect the attribute of so changing the normal quantivalence of ideas that certain ones become supraquantivalent, others infraquantivalent in comparison.

Ingoting (ing'got-ing), n. [ingot +-ing¹.] The process of melting brass or bronze scrap and casting it into ingots to purify the metal by resulting a spar inboard: applied to the brails of the brails of the process of melting in the process of melting brass or bronze scrap and casting it into ingots to purify the metal by resulting a spar inboard: applied to the brails of the process of melting it into ingots to purify the metal by resulting a spar inboard: applied to the brails of the process of melting it into ingots to purify the metal by resulting a spar inboard: applied to the brails of the process of melting it into ingots to purify the metal by resulting a spar inboard: applied to the brails of the process of melting in the process o moving the dross from the surface while it is molten.

ingot-iron (ing'got-i"ern), n. Mild steel; a steel, low in earbon, which cannot be tempered, made either by the Bessemer or the openhearth process, and poured in a fluid state into molds after leaving the producing-vessel. See *ingot-metal.

Owing to the method of its production it might in truth be called a soft steel with a very small percentage of combined carbon. The best description of this material is conveyed by the German term "Flusseisen," but its nearest British equivalent is "ingot-tron."

Encyc. Brit., XXVIII. 118.

ingot-metal (ing'got-met'al), n. A general name for iron or steel which is poured into molds in a fluid state after the completion of the manufacturing process. If too low in carbon to harden or temper it is ingot-iron; if it has carbon enough to temper and harden it is ingot-steel. Slagless or "Ingot-metal" Series.
Encyc. Brit., XXIX. 571.

ingot-pitch (ing'got-pich), n. The pitch at which ingots are east; noting a variety of tough-pitch copper in which the poling for the removal of dissolved oxygen has not been carried on as long as it has in the wire-bar spinifex squarrosus, a rigid hluish grass, with large globular inflorescences and infructescences.

A. F. W. Schinper (trans.), Plant-Geog., p. 181.

2. A collective fruit. Jackson, Glossary. infumba (in-föm'bä), n. [Swahili.] Same as *fumba.

Infumba (in-föm'bä), n. [Swahili.] Same as trumba.

See *canal!. infuser, n. 2. A funuel-shaped vessel, usually of glass, employed to contain a fluid used in infusers, n. 2. A funuel-shaped vessel, usually of glass, employed to contain a fluid used in infusers. They have a fusing action at the cutting edge.

ingot-steel (ing'got-stel), n. Steel which is cast in an ingot when it comes from the furnace. It may be Bessemer, open-hearth, or cruci-hle-steel, and must have carbon or other hardness in sufficient percentage to exhibit the properties of hardening and tempering. See *ingot-metal.

and tempering. See *ingu-metat.

Half-hard and High-Carbon Steels, sometimes called "ingut-steel." They may be either Bessemer, openhearth, or crucible steel. Malleable cast iron also often belongs here.

English Steels

*

Ingrain colors, in modern dyeing, colors which are produced by definite chemical change of dyes already stached to the yarn or cloth: thus, cotton dyed yellow with primulin, hy exposure to the diazotizing action of nitrous acid and afterward to an alkaline solution of β-naphthol, acquires a deep-red color.

Ingrassial (in-gras'i-al), a. and n. I. a. Same as Ingrassian.

II. n. In iehth., a bone in front of the proötic in the cranium; the alisphenoid of Parker. Starks, Synonymy of the Fish Skeleton, p. 513.

ingratiatory (in-grā'shi-ā-tō-ri), a. [ingratiate +-ory.] Insinuating; serving to render acceptable or to ingratiato one with another.

admit of being placed over a fire in order to keep the contents heated.

**eecete, grow heavy (< in-, in, + gravis, heavy), +-enee.] The process of becoming more severe; specifically, the period of increase of

ingress, v. i. 2. In astrol., to transit the place which any of the four moderators has reached by direction. Zadkiel, Gram. of Astrol., ii. 17. ingrown (in'gron), a. [in 1 + grown.] 1. Grown from within; innate: as, "Art with Language lived ingrown," L. Morris.—2. Grown inward:

fuse.

fuse.

ingatherer (in'gath"èr-èr), n. One who collects or gathers in; a harvester.

F. D. Huntington.

ingatherer (in'gath"èr-èr), n. One who collects or gathers in; a harvester.

F. D. Huntinguino-abdominal (ing "gwi-nō-ab-dom' inal), a. [L. inguen, groin, + abdomen (-min-), abdomen, + -all.]

Relating to the groin and

inguinocrural (ing/gwi-nō-krö'ral), a. [L. in-guen, groin, + erus (erur-), leg, + -atl.] Relating to the groin and the thigh.

inguinocutaneous (ing gwi-nō-kū-tā'nē-us), a. [L. inquen, groin, + cutaneus, of the skin, + -ous.] Relating to the groin and the skin of the adjacent portion of the thigh: noting a branch of the first lumbar nerve.

inguinoscrotal (ing gwi-nō-skrō'tal), a. [L. inguen, groin, + scrotum, scrotum, + all.] Re-

lating to the groin and the scrotum. inhalant, a. II. n. That which is inhaled. inhang (in'hang), n. [$in^1 + hang$.] The tumbling home of the ship's bulwarks; the leaning inboard of the bulwarks from the perpendicu-

I... settled myself for the night, being very weary, under the inhang of [the ship's] heavy bulging side.

T. A. Janvier, Sargasso Sea, xxiii.

lar: opposed to wall-side.

of a spanker, in distinction from the outhaul, which spreads the sail by hauling the head out to the gaff-end.

inherit, v. t .- Inherited drainage. See *drainage. inheritance, n.—Alternative inheritance, the transmission to descendants of the characteristics of one parent by certain individuals, and of those of the other parent by others.

It must, however, be remembered that what is accepted as evidence of alternative inheritance, is not a proof that the dominance of either allelomorph is imperfect.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, [I. 129.]

It must, however, be remembered that what is accepted as evidence of alternative inheritance, is not a proof that the dominance of either allelomorph is imperfect. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902. [I. 129.]

Ancestral inheritance, the contribution of each ancestor to the characteristics of descendants. (a) According to Galton's law of ancestral inheritance, the two parents contribute between them, on the average, one half of each inherited faculty, each of them contributing one quarter of it; the four grandparents contribute hetween them one quarter, or cach of them one sixteenth; and so on. (b) According to Pearson's law, the contribution of the grandparents and great-grandparents is greater than Galton's law calls for, and the difference increases rapidly for more remote generations. Parental characteristics are sometimes strongly hereditary, sometimes slightly or not at all so; and while Galton and Pearson assume that these differences will, on the average, balance each other, the facts of inheritance show that this is not the case, and that the statistical laws, while no doubt useful for statistical purposes, are compiled from data some of which are of little value to the breeder who deals with individuals, or to the student of inheritance who seeks to distinguish hereditary from non-hereditary characters. So far as a parent resembles collateral relatives, such as brothers, sisters, and consins, the resemblances are often transmitted to descendants with nearly or quite four times the frequency which these laws require. (c) Mendel's law of ancestral inheritance. In 1865 Gregor Johann Mendel (1822-84), an Anstrian priest, published an account of experiments which he had undertaken for the purpose of determining the numerical value of parental characters in inheritance. Having obtained seed from the cross-breed inpant which would and those with wrinkled seeds), he found that the cross-bred plants raised from these seeds manifested only one of the characteristic (for example, those with ro

four sorts of germ-cells in the reproductive organs of the cross-bred individuals—dominant ova, recessive ova, dominant male cells, and recessive male cells—and that these are, on the average, equal in number, so that one quarter of the descendants are born from dominant ova fertilized by dominant male cells and are pure dominants; one quarter are born from recessive ova fertilized by recessive male cells, and are pure recessives; and one half are born from the union of an ovam of one sort with a male cell of the other sort, and are able to produce pure dominants, pure recessives, and cross-bred descendants in the original ratio.—**Biparental inheritance**, inheritance considered in its relation to amphigonic or bisevnal reproduction.—**Blended inheritance**, inheritance series of combinations of parental characters. See quotation under *blend!, r. i, 3.—**Crossed inheritance**, the inheritance by a child of one sex of the constitution of the parent of the other sex. [Rare.]—**Exclusive inheritance**, the manifestation by the offspring of features of resemblance to one parent to the partial or complete exclusion of those of the other.

On another occasion, or in other offspring of one and four sorts of germ-cells in the reproductive organs of the

On another occasion, or in other offspring of one and the same mating, it may not be prepotent, or even the other parent may be prepotent. Such prepotency might exhibit itself in "alternative" or "exclusive" inheritance.

Biometrika, 1903, p. 390.

exhibit itself in "alternative" or "exclusive" inheritance, Biometrika, 1903, p. 390.

Material basis of inheritance, that which is handed down from parent to offspring and in the transmission of which reproduction consists. Mostauthorities are now agreed that the material basis of inheritance is to be identified with the chromatin of the germ-cells. See substance of *heredity.—Mosaie inheritance. Same as particulate *inheritance.—Particulate inheritance, the theory that the descendant inherits material particles from the parts of the bodies of a number of ancestors. See ancestral *inheritance.—Use-inheritance, the hypothetical transmission to descendants of a parental change which is the result of its own activity; the inheritance of an acquired character.

Darwin seems always to have regarded the direct action, of the environment and use and disuse as, at the most, subsidiary causes of variation; but Mr. Herbert Spencer and his followers regard 'use-inheritance' as an all-important factor in evolution; while Cope and his followers in America, by a mixture of 'use-inheritance' (Kinetogenesis) and Lamarck's neck-stretching theory (Archesthetism), apparently see their way to account for the evolution of animals with but little help from natural selection.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 667. inhibition, n. 4. In psychol., the supposed

inhibition, u. 4. In psychol., the supposed restraint or cancelation of a mental process by other concurrent mental processes.

The second law deals with inhibition or arrest: "Every psychical phenomenon tends to prevent the production or development, or to cause the disappearance of psychical phenomena which cannot be united to itself according to the law of systematic association, that is to say, which cannot be united with it for a common end "(Paulhan).

John Adams, Herbartian Psychol. Applied to [Education, p. 76.

Coefficient of inhibition. See *coefficient.

Inhomogeneous (in/hō-mō-jē'nē-us), a. [in-3+homogeneous.] Not homogeneous. Jour. + homogeneous, Not homogeneous. Phys. Chem., June, 1904, p. 425.

inhumanize (in-hū'man-īz), v. t.; pret. and pp. inhumanized, ppr. inhumanizing. [inhuman + -ize.] To make inhuman. iniac (in'i-ak), a. [ini-on + -ac.] Same as inial.

iniad (in 'i-ad), a. [ini-on + -ad3.] Toward

inidoneity (in-ī-dō-nē'i-ti), n. [inidone-ous + -ity.] The quality of unfitness. Church Times, Jan. 19, 1894. N. E. D. inidoneous (in-ī-dō'nē-us), a. [in-3 + idoneous.]

Blount, Glossographia.

inioglabellar (in″i-ō-glā-bel'ār), a. [inion + glabellum + -ar³.] Same as *glabello-inial.

An inio-glabettar line can be drawn which will cor-spond very closely to the lower boundary of the erebrum. Science, Oct. 30, 1903, p. 554. cerebrum.

inirritant (in-ir'i-tant), a. and n. [in-3 + ir- ink-trough (ingk'trôf), n. Same as inking-ritant.] I. a. That does not eause irritation: trough.

as, an intritant drug.

II. n. That which does not irritate; speeifieally, a therapentic agent which does not produce irritation.

init. An abbreviation of the Latin initio, in the beginning.
initial, n. 4. In steam-engines, an abbrevi-

ation of initial *pressure (which see).

initialist (i-nish'al-ist), n. [initial +-ist.]
One who is known by his initials and not by his full name. Blackwood's Mag., XIV. 438. N, E, D,

initialize (i-nish'al-īz), v.; pret. and pp. initialized, ppr. initializing. [initial + -ize.] I. trans. To designate by initials instead of by the full name.

II. intrans. To use an initial or initials (instead of one's full name).

Nobody had successfully initialized till L. F. L. arose. New Monthly Mag., L. 78. N. E. D.

initiary (i-nish'i-ā-ri), a. [L. initium, beginning, +-aryl.] Same as initial.

initiative, n. 3. Specifically, the right to propose legislation, supplementary to the

referendum. In Switzerland the initiative is in the form of a petition which is signed by a certain number of voters and which demands a popular vote upon a measure. Besides the former "facultative Referendum" in certain cases and the "Initiative" at the demand of 1000 citizens in case of amendments to the cantonal constitution, there is now also an "Initiative" in case of Bills, to be exercised at the demand of 800 citizens. Energe. Brit., XXXIII. 943. initionary (i-nish 'on-ā-ri), u. [inition +-ary1.] Relating to inition, especially to the beginning of or entrance into college life. initis (i-ni'tis), n. [NL., \lambda Gr. \(i\) c(iv-), fiber, + initis (i-ni'tis), n. [NL., \lambda Gr. \(i\) (iv-), fiber, +

initis (i-mi'tis), n. [NL., < Gr. ic (iv-), fiber, + -itis.] Inflammation of the muscular or fibrous

An abbreviation of the Latin injectio, an injection.

injectable (iu-jek'ta-bl), a. [inject + -able.]

1. Capable of receiving an injection.—2. Capable of being injected. injection, n. 7. In geol., the penetration of a rock by a molten magma. Van Hise, U. S. Geol. Surv., Monographs, XLVII. 646.—Int-par-lit Surv., Monographs, XLVII. 646.—Lit-par-lit [F. 'bed-by-bed'] injection or saturation, in geol., the injection of molten rock between the layers of a stratified one in such a manner that the two are intimately commingled. Geikie, Text-book of Geology, p. 728. injector-condenser (in-jek'tor-kon-den ser),

Same as injection-condenser.

injector-furnace (in-jek'tor-fer"nās), n. See

turnace

injunct (in-jungkt'), v. t. [A back-formation from injunction.] Same as enjoin, 3. [Colloq. or humorous.]

injunction, n.—Perpetual injunction. Sampermanent injunction (which see, under injunction).

injunctive (in-jungh tiv), a. [injunction) + -ive.] Having the force of an injunction; enjoining.—Injunctive relief, in taw, the application of the equitable remedy of injunction.

injury, n.—Current of injury. See ★current¹.

injury, n.—Solid ink, pigment of any color in its dry or solid state, as in a cake of India ink. It is often preferred by lithographers for its adaptability to rubbed tints and imitated pastel work.—Vanadium ink, a writing-finid prepared by adding gallic acid to an aqueous solution of ammonium metavanadate slightly thickened with gum. Thorpe, Dict. Applied Chem., 111. 896.

nk¹, v. t.—**To ink in**, in *tech. drawing*, to trace over and shade (a pencil drawing) with ink. The pen for this purpose is called an *inking-in* pen.

II. intruns.— To ink up, to carefully apply ink to type preliminary to its first impression. This is begun with pate, or low color, and is gradually increased after sucessive trials.

ink-cap (ingk'kap), n. A mushroom of the genus Coprinus. See ink-mushroom and Cop-

nk-duct, n. 2. In cephalopods, the duct through which the ink is discharged. ink-duct, n.

inkeer (in-kār'), v. t. [D. inkeeren, turn in, < in, in, + keeren (= 6. kehren), turn: see char¹, v.]

1. To turn (the water of a stream) into a field for purposes of irrigation.—2. To eorral (cattle).

inkle-weaver (ing'kl-we "ver), n. [inkle2 + weaver.] A weaver of the strong, coarse tape

known as inkle. See inkle2—As (or so) thick as inkle-weavers, very intimate, or friendly.

When tapes had to be hand-woven, a single tape to a loom, the weavers had naturally to work very close together, and hence the common saying to express crowding together, 'so thick as inkle-weavers.' Eng. Dial. Soc. in-knee (in'nē), n. Same as knock-knee

ink-slice (ingk'slīs), n. Same as slice, 3 (c) (1). the inkstand, n .- Fountain inkstand, an inkstand having a supplementary reservoir

ink-value (ingk'val"ū), n. The properly expressed light and shade of a picture in colors as produced in one color of ink on a printing-

inlawry (in'lâ-ri), n. [inlaw + -ry.] The state of restoration to the protection of the law: the opposite of outlawry.

inlay, v. t .- Inlaid tile. Same as mosaic *tile (which

Inlay casting. See *casting.
inlaying, n. 2. In bookbinding, the neat insertion (with proper entting, shaving, and pasting) of a leaf or print in a larger leaf, with intent to give the inlaid matter greater security and a wider margin. - 3. In printing, the insertion of the overlay made for an illustration between the sheets of the printing surface or between the plate and its support.

inleak, n. 2. The leaking of a gas or liquid into au inclosed space or pipe.

inlet-valve (in'let-valv), n. Any valve, opening from without inward, through which a fluid may pass into a vessel; specifically, in motors, a valve through which motor fluid enters a

An abbreviation of the Latin in limine, on the threshold.

in loc. An abbreviation of the Latin in loco, in the place.

in loc. cit. An abbreviation of the Latin in loco citato, in the place cited. in loco. 2. Specifically, in music, denoting

that a passage is to be performed as written, not transposed: used only after a passage with the sign at 8va or 8vi. Also simply loco.

innascible (i-nas'i-bl), a. [LL. innascibilis, < in- neg. + nascibilis, that may be born, nasci, be born.] Not subject to birth; self-

innate, a. 3. In biol., characteristic of a species or common to the individuals of a species, or alike in parent and in offspring; hereditary; anke in parent and in onspring; hereditary; constitutional; congenital. So far as the development of an individual organism from the egg is considered as characteristic of its kind, it is termed innate or inherent; so far as it is considered as taking place in an individual external environment with which it is in continual reciprocal interaction, it is termed adventitious or induced: the contrast or distinction being in the mind of the observer rather than in the facts of embryology.

The development of any normal so-called "invate"

The development of any normal, so-called "innate" character, such as, say, the assumption of the normal human shape and relations of the frontal bone, requires the co-operation of many factors external to the developing embryo, and the absence of abnormal distorting factors. Encyc. Brit., XXIX. 259.

innaturate (i-nā'tūr-āt), v. t.; pret. and pp. innaturated, ppr. innaturating. [in-2] + nature naturated, ppr. innaturating. [in-2 + nature + -ate².] To imbue the nature of (a being) with something. [Rare.]

If those . . . who . . . crush the young shootings of the eart, and hlight its growth . . . would but innaturate with their poison and make it barren for ever!

Froude, Nemesis, p. 167. N. E. D.

inneity (i-ne'i-ti), n. [Irreg. $\langle inn(ate) + -e-ity.$] Innateness; the quality of being innate, inborn, or congenital. Ribot (trans.), Psychol. of Emotions, p. 237.

inner¹, a.—Inner anhydrid, a compound formed by the elimination of water and the formation of a ring of atoms from one molecule of the compound. It is contrasted with ordinary anhydrids, which are formed from two molecules of the compound.

inner² (in'er), n. [in¹, v. t., + -er¹.] One who takes in or reclaims land from water or

marsh. See *inning, 4.

inning, u. 4. The process of taking in; specifically, the reclaiming of marshy land by draining and banking and fitting it for bearing erops; also the land so reclaimed.—5. The act or process of getting in, as crops; harvesting.

innocence, n. 6. (b) A pretty American sero-phulariaceous plant, Collinsia verna, the flowers of which have the lower lip blue and the upper purple or nearly white.

innocent, a. 8. In pathol., benign; not malig-

nant.— Innocent ball. See *ball.

Innominate index. See *index.
innovational (in-ō-vā'shon-al), a. [innovation + -al¹.] Bringing in new forms or methods; introducing new things; pertaining to innova-

innovatory (in'ō-vā-tō-ri), a. [innovate + -ory.] That innovates or has a tendency to innovate: as, innovatory ideas in polities.

innutrient (i-nū'tri-ent), a. [in-3 + nutrient.] Not nutritious. Biol. Bulletin, Nov., 1904, p. 305.

inoculation, n.—Curative inoculation, the injection of an antiserum for curative purposes; for example, in the treatment of diphtheria, tetanus, and snake-poisoning, inoculation with the corresponding antisera—Jennerian inoculation, vaccination.—Protective inoculation (a) The injection of an antiserum for protective purposes, that is, to prevent disease, as diphtheria. (b) Vaccination against disease, as against smallpox, anthrax, rinderpest, and to some extent against typhoid fever, plagne, dysentery, etc.

inogenesis (in-ō-jen'e-sis), n. [Gr. lς (iv-), fiber, + γένεσις, production.] Production of fibrous tissue.

inolith (in' $\bar{0}$ -lith), n. [Gr. is (iv-), fiber, + $\lambda i\theta o_{\bar{0}}$, stone.] A circumscribed calcareous deposit in fibrous tissue.

inoma (i-nō'mä), n. [Gr. iç (iv-), fiber, + -oma.] A fibrous tumor; scirrhus.

inominous (in-om'i-nus), a. [in-3 + ominous.] Ill-omened; unfortunate.

As a kind of moral provision for such an inominous young person, Mr. Sheddon set apart a small property.

W. Mackintosh, Life of J. Sheddon, p. 32. N. E. D.

inone (in-wun'), v. t.; pret. and pp. inoned, ppr. inoneing. [in1 + one. Compare the earlier atone, v.] To unite; make one (with).

The Prophet uses the two imperatives, Seek Me and live, inoneing both man's duty and his reward.

Pusey, Minor Prophets, p. 191.

inopectic (in-o-pek'tik), a. [Gr. 15 (iv-), fiber,

 $+ \pi \eta \kappa \tau \delta c$, fastened, + -ie.] Of or relating to inopexia; affected with inopexia.

inopexia (in-ō-pek'si-ä), n. [NL., Gr. ic (iv-), fiber, $+\pi\bar{\eta}\xi ic$, fastening.] A tendency to spontaneous coagulation of blood.

inopportunism (in-op-or-tu'nizm), n. [inop-portune + -ism.] The quality of being inopportune; inopportune action; specifically, the policy of the inopportunists.

inopportunist (in-op-or-tū'nist), n. and a. [in-op-ortune+-ist.] I. n. A member of the inopportunist or opposition party; one who disportunist or opposition approves of a certain policy on the ground of its inopportuneness; specifically, one who was opposed to the declaration of the dogma was opposed to the declaration of the dogma of papal infallibility at the Vatiean Council in 1870, on the ground that its publication was inopportune.

In a. Belonging to the inopportunists.

In a. Belonging to the inopportunists.

In a. Belonging to two of two of the most in papal infallibility at the Vatiean Council in 1870, on the ground that its publication inoxidize (in-ok'si-dīz), v. t.; pret. and pp. infallibility at the abdominal muscles.

In a. Belonging to the inopportunists.

In a. Belonging to the inopportunists.

In a. Belonging to two of two of the most in papal infallibility at the value (in-skrip'shon-ist), n. [inseriptionist (in-skrip'shon-ist), n. [inseriptionist (in-skrip'shon-ist)]. An inseriber. F. Hall.

In a papal infallibility at the Vatiean Council in oxidize (in-ok'si-dīz), v. t.; pret. and pp. infallibility at the abdominal muscles.

In a. Belonging to the inopportunists.

In a. Belonging to the inopportunists.

In a. Belonging to two of two of the most in papal infallibility at the Vatiean Council inoxidize (in-ok'si-dīz), v. t.; pret. and pp. infallibility at the abdominal muscles.

In a. Belonging to the inopportunists.

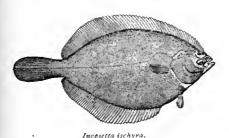
In a. Belonging to the inopportunists

His (Leo XIII.'s) similar recognition of two of the most distinguished "inopportunist" members of the Vatican Council, Haynald, archbishop of Kalocsa, and Prince Fürstenberg, archbishop of Olmitz, was even more noteworthy.

Encyc. Brit., XXX. 197.

Worthy.

Inopsetta (in-op-set'ä), n. [NL., ⟨ Gr. iç (iν-), stronoth + ψήττα, flounder.] A genus of strength, + $\psi \bar{\eta} \tau \tau a$, flounder.] A genus of flounders found off the Pacific coast of the United States.



(From Sulletin 47, U. S. Nat, Museum.)

inorderly (in-ôr'der-li), a. Not orderly; dis-

inorderly (in-ôr'der-li), adv. In a disorderly manner

inorganism (in-ôr'gan-izm), n. [in-3 + organ-ism.] An object which is not an organism. [Rare.]

It is difficult... to avoid the theoretical conclusion that... the earliest primitive organisms [were] necessarily more like inorganisms.

Hyatt, Biol. Lectures, 1899, p. 128.

inorganography (in-ôr-ga-nog'ra-fi), n. [L. in- neg. + Gr. ὁργανον, organ, + -γραφία, ζ γράφειν, write.] The seientific discussion of inerganic things: a term not in general use. inoriginate (in-ō-rij'i-nāt), a. [L. in- priv. + NL. originatus, pp. of originare, originate: see originate, v.] Not originated; self-exissee originate, v.] Not originate; having no beginning.

inoscleroma (īn-ō-sklē-rō'mā), n. [NL., ⟨Gr. female inquisitor.

lɛ (iν-), fiber, + σκθήρωμα, a hardened part: in-radius (in'rā"di-ns), n.; pl. in-radii (-ī). [inl see scleroma.] Hardening of the fibrons tis-81109

inosclerosis (in "ō-sklē-rō'sis), n. [NL., < Gr. is (iv-), fiber, + σκλήρωσις, a hardening, induration.] Fibrous induration or salarosis

inosin (in'ō-sin), n. [inos(ite) + -in².] An incorrect name for inosite.

inosinate (in'ō-si-nāt), n. [inosin + -atel.]
A salt of inosinie acid.

inosinic (in-ō-sin'ik), a. [inosin + -ic.] Noting an acid, an amorphous compound, C10H13O8 N₄P, obtained from the flesh of certain animals. Some of its salts are crystalline.

the contractile power of muscular tissue. See the extract.

The movement of a muscle depends on the simulta-The movement of a muscle depends on the simultaneous operation of three functional properties of its constituent elements, i. e., excitability, conductibility and contractibility. . . . The author [T. W. Engelmann] toescribes as bathmotropic from \$\textit{\beta}\text{\text{\$W\$}}\$. Engelmann] the second of the conductibility, as dromotropic, such as interfere with conductibility, and as interfere with conductibility, and as interfere with conductibility, and as interfere with conductibility.

Sci. Amer. Sup., July 4, 1903, p. 22992.

Sci. Amer. Sup., July 4, 1903, p. 22992.

a muscle.

The centrifugal cardiae nerves influence the . . . force of contraction . . . of the excitatory wave (. . . inotropism of Englemann).

Encyc. Brit., XXXI. 733.

the man in.

in pr. An abbreviation of the Latin in prineinio, in the beginning.

inpushed (in'pusht), a. Pushed inward.

The epithelium lining the month becomes inpushed into the deeper layers, where teeth are to be formed.

J. S. Kingsley, Vert. Zool., p. 19.

2. Specifically, the power which is input, n. input, n. 2. Specifically, the power which is received by any machine. It includes the power actually required to do the work performed by the machine and the power necessary to run the machine itself.

The useful return or "ontput" at the terminals of a large machine may amount to as much as 95 per cent. of the mechanical energy which forms the "input."

Encyc. Brit., XXVII. 574.

3. The amount of food material introduced into the body. Pailos. Trans. Roy. Soc. (London), 1892, ser. B, p. 228. inquartate (in-kwâr'tât), v. t.; pret. and pp.

inquartated, ppr. inquartating. In metal., to add silver to (an alloy of silver and gold) in order to give (it) the proportion required for the process of parting, that is, one part of gold to about three parts of silver. See quartation. Phillips and Bauerman, Elements of Metallurgy, p. 815.

inquest, n.—Sheriff's inquest. See sheriff's jury

inquilinity (in-kwi-lin'i-ti), n. [inquiline + -ity.] The state or habit of being inquiline; -ity.] The state or habit of being inquiline; specifically, in zoöl., the habit of living in the nest or home of another, but not as a parasite.

See commensal, 2. inquisitionist (in-kwi-zish'on-ist), n. [inquisition + ist.] 1. One who makes inquisition or inquiry; an inquisitive questioner. -2. An inquisitor; one who upholds the practices of the Inquisition.

inquisitiv, a. A simplified spelling of inquis-

inquisitrix (in-kwiz'i-triks), n. [NL. *inquisitrix, fem. of L. inquisitor: see inquisitor. A

inrun (in'run), n. [$in^1 + run^1$.] 1. A running in; an inrush; an influx: as, an inrun of the sea.—2. A place of inrunning.

inrunning (in'run'ing), n. 1. Same as *inrun.

-2. Inflowing. ins. An abbreviation (a) of inspector; (b) of insurance

insalvability (in-sal-va-bil'i-ti), n. [in-3 + salvability.] Impossibility of being saved. Bp. Watson, Life, II. 239.

Insane ear. See *ear1.

mals. Some of its salts are erystalline.
inosituria (in ε-si-tū'ri-iā), n. [inosite + Gr.
oύρον, urine.] Same as *inosuria.
inosuria (in-ē-sū'ri-iā), n. [NL., ⟨ inos(ile) + Gr. oύρον, urine.] The exerction of inosite or musele-sugar in the urino.
inotagma (in-ē-tag'mā), n.; pl. inotagmata (-ma-tā). [NL., ⟨ ir. iç (iν-), musele, + τάγμα, order, constitution.] One of the hypothetic ultimate elements of living protoplasm: similar to *plasome, *biophore, physiological *unit, etc. - Engelmann.

In other eases the assumption of invisible protoplasme units has been inspired by a desire either to explain the general vital and assimilative powers of protoplasm of the mechanism of some one function as the inotagmas of Englemann, assumed to be the agents of contractility.

Eneyc. Brit., XXXII. 4.

inotropic (in-ē-trop'ik), a. [Gr. iς (lν-), musele, + -rροπος, ⟨ rρέπειν, turn, + -ie.] Impairing

disease caused by the prolonged action of some poison, such as lead or alcohol.

insanoid (in-sā'noid), a. [insane +-oid.] Re-

sembling insanity; also nearly insane: neuropathic. Alien. and Neurol., Aug., 1907, p. 397.

inscription, n. 8. In geom., the inscribing of one figure in another; also, the state of being so

insect, n.-Lace-winged insects, insects of the order Neuroptera. insect (in'sekt), v. i. [insect, n.] To seek or

catch insects, as a bird does.

We discovered the bird . . . insecting in the top of a newly-fallen hemlock.

J. Burroughs, Locusts and Wild Honey, p. 203.

insectan (in-sek'tan), a. [Insecta + -an.] Of or pertaining to insects or the Insecta. insect-beds (in'sekt-bedz), n. pl. See ★bcd¹. insect-box (in'sekt-boks), n. A box used in collecting insects.

insect-flowers (in'sekt-flou"erz), n. pl. The heads of half-expanded flowers of the plants from which insect-powder is made; the pyrethri flores of pharmacy. Buck, Med. Handbook, V. 151.

insecticide¹, n.—Bollene insecticide, a trade-name for an insecticide consisting essentially of carbon disulphid and crude petroleum with a very small quantity of ther ingredients.

insectiferous (in-sek-tif'e-rns), a. [L. in-sectum, insect, + -fer, -bearing, + -ous.] Producing, containing, or infested with insects: as, insectiferous amber; an insectiferous log. insectine (in'sek-tin), a. [insect + -inel.] Per-

taining to or characteristic of insects. insection (in-sek'shon), n. [L. *insectio(n-), \(\) insecare, cut into: see insect.] A cutting up; division into segments; also, a segment

or section. insectologist (in-sek-tol'o-jist), n. og-y + -ist.] One who studies insects; an entomologist.

-2. An insenescence (in-sē-nes'ens), n. [L. insenes-etices of eere, grow old (< in- + senescere, grow old, < senex, old), + -ence.] The process of growing old: aging

insenescible (in-sē-nes'i-bl), a. [LL. insenescibilis, < in- neg. + *senescibilis, < senescere, grow old.] Not capable of growing old. insentience (in-sen'shi-ens), n. [insentien(t) + -ee.] Unconsciousness; lack of sensation.

F. Hall.

insequent² (in-sē'kwent), a. [L. in-, not, + sequens (-ent-), following.] In phys. geog., not following any manifest control: said of irregular streams, in contrast to consequent, obsequent, and other systematic classes of streams. insertable (in-ser'ta-bl), a. [insert + -able.] That may be inserted.

insertion-joint(in-ser'shon-joint), n. A packed joint; a joint rendered steam- or water-tight by the insertion of a disk or ring of packing. insertion-plate (in-ser'shon-plat), n. In the polyplaeophorous Mollusca, or chitons, a projection of the inner or porcellanous shell-layer (articulamentum) beyond the margin of the plates into the girdle or flexible band which holds the plates together. Insertion-plates serve the function of binding the valves firmly to the girdle. inset, v. t. 2. To add (a leaf or leaves) with-

in the folded sections of a book, or between the sections, as a map, a printed illustration, or an advertisement.

or an advertisement.

inset, n. 1. (b) A small picture or diagram inserted within the border of a larger one.

insetting (in'set*ing), n. In binding, the placing of a leaf or leaves (as maps, illustrations, in the property of the contraction or advertisements) between or within the sections of a printed book, magazine, etc.

Ins. Gen. An abbreviation of inspector-general. inshining (in'sbi"ning), n. The act or fact of shining in; permeating with light.

When the soul feels the Divine inshining, all that is nole in it rises efflorescent and victorious. H. W. Beecher, Yale Lectures, 2d ser., iii. 58. N. E. D.

inship (in'ship), adv. On board; on the ship;

inshoot (in'shöt), n. The act of shooting or moving rapidly inward, as a base-ball that is pitched with a curve. Sci. Amer., July 16, 1904,

inside, n. 4. In field hockey, the position be-

tween the center and the wings.

inside-fired (in'sid-fird), a. Internally fired;
having the fire-box surrounded, or nearly so,
with that which it is desired to heat, as is the fire-box of a locomotive-boiler.

insidiosity (in-sid-i-os'i-ti), n. [L. insidiosus, insidions, + -ity.] Insidiousness. insink (in'singk), r. i. In embryol., to become invaginated or folded in, like the saucer-shaped depression which forms the otocyst in embryo vertebrates. Buck, Med. Handbook, III. 823. insistency (in-sis'ten-si), n. Same as insistency (in-sis'ten-si), n. Same as insistence.

Instanting (in sum of with an inward tendency: as, instanding or with an inward tendency: as, instanding or with an inward tendency: as, instanding the distance of with an inward tendency: as, instanding or with an inward

institious (in-si-tish'us), a. [L. institeius, < insitus, grafted, pp. of inserere, insert, ingraft.] Ingrafted; inserted; not natural to the place.

There are other passages in the poem [Paradise Lost] which have the air of being [printed] insitious in the place where they stand. The lines in Book iv., now in question, may reasonably be referred to 1640-42.

Mark Pattison, Milton, xiii. p. 167.

insolation, n.—Asphyxial insolation, exhaustion due to heat. See sunstroke.—Pyrexial insolation, thermie fever. See sunstroke and fever!.

insole-machine (in'sōl-ma-shēn"), n. manuf., a hand- or power-machine for stamping, forming, and shaping canvas in-soles.

Under this general term may be included a series of tools, dies, and machines for making and building up by cement several layers of canvas, rendering them flexible by scoring one side and bending the material and pressing, and trimming and finishing them ready for insertion.

trimming and finishing them ready for insertion.

Insolubilize (in-sol'ū-bi-līz), v. t.; pret. and pp.

insolubilized, ppr. insolubilizing. [L. insolubilis,

insoluble, +-ize.] To render insoluble. Buck,

Med. Handbook, VIII. 351.

insolvency, n.—Open insolvency, such inability to

pay debts as will enable creditors to proceed against the

aureties, guarantors, or indorsers of the debtor without

first proceeding against the debtor himself.

insomniac (in-som'ni-ak), n. One who suffers from insomnia.

insonorous (in-sō-nō'rus), a. [in-3 + sono-rous.] Not sonorous or resonant.

Insp. An abbreviation of inspector.

inspeak (in-spēk'), v. t.; pret inspoke (inspake archaic or poetical), pp. inspoken, ppr. inspeaking. [in-1 + speak.] To speak into; instil into: as. to *inspeak* hope in the soul. inspection, n. 2. A district subject to official

inspection.

In France... the forests of the country are first divided into cantonments and then into about 500 inspections.

Pall Mall Gazette, April 4, 1888. instigant (in stigant) n. FL. instigant (ant.) In France .

inspectoral (in-spek"to-ral), a. [inspector + -all.] Pertaining to inspectors or to their duties. See inspectorial.

Having power to ineite or instigate: as, instigate.

inspectorate, n. 3. The position of an inspector; the duty or work of an inspector.

serum, etc.: used in baeteriological laboratories.

inst. An abbreviation (e) of institute or of institution.

nship (in surp), sembarked.

(Can't be too hard on a Home draf', 'sez he; 'the great thing is to get thim inship.'

R. Kipling, The Big Drunk Draf', p. 50, stallant (in-stâl'ant), a. and n. [NL. installant (in'shöt), n. The act of shooting or stallans (-ant-), ppr. of installare, install.]

I. a. Having power to install or invest with

II. n. One who invests or installs.

instaminate (in-stam'i-nāt), a. [in-3 + staminate.] In bot., destitute of stamens. [Obsolete.] instance, n.—Court of first instance, a court of original jurisdiction in which a cause is first heard or (having been heard and reversed upon appeal) to which it is sent back for retrial.

instanding (in'stan"ding), a. Growing inward

age. Compare the similar modern use of L. imago (see imago).] Any one of the periods of an insect's life between two molts. The period immediately after hatching is said to be the first instar, and that after the first molt the second instar. If a caterpillar molts four times the pupa is the sixth instar and the adult the seventh. The term originated with Fischer in 1853, but has only recently been generally adonted. generally adopted.

Hence he adopts a term suggested by Fischer, and ealls the insect as it appears after leaving the egg the first instar, and what it is after the first moult the second instar, and so on.

A. S. Packard, Text-book of Entom., p. 594.

hibits a greater degree of chemical activity than it does after complete isolation: thus nascent hydrogen will decompose silver chlorid at atmospheric temperature, though hyrid at atmospheric temperature, though hydrogen gas will not. This may be explained by the assumption that the hydrogen is evolved from combination as an immense number of single atoms, freely capable of uniting to those of some other element, but that they do not remain single, but promptly unite into molecules consisting each of two similar atoms, there being evidence that ordinary hydrogen gas consists of such diatomic molecules, and that subsequently these molecules must be broken up if their constituent atoms are to become combined with those of another element.

Inst. C. E. An abbreviation of *Institute of Civil Engineers*.

insted, prep. phr. A simplified spelling of instead. instep, n. 3. In entom., the first joint of an insect's tarsus when it is very long and broad;

the planta.

instigant (in'sti-gant), n. [L. instigans (-ant-),

Having power to incite or instigate: as, instigative, suggestions; specifically, noting a type of disposition which achieves ends by inciting others to act. Giddings, Inductive Sociol.,

tor; the duty or work of an inspector inspectorate-general (in-speck 'top-āt-jen'e' of disposition which achieves ends by minimal to inspectorate-general (in-speck 'top-āt-jen'e') of disposition which achieves ends by minimal to inspectorate-general (in-speck 'top-āt-jen'e') of disposition which achieves ends by minimal to inspire of the staff of an inspector general (in-spira'shon-al-ist), n. [in-spirationalist (in-spi-rā'shon-al-ist), n. [in-spirationalist (in-spi-rā'shon-al-i), ade. With inspiration in a manner tending to infuse in spiration; in a manner tending to infuse in spiration, in a manner tending to infuse in spiration, in 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling or drawing in air, gas, or vapor. [inspirator, n. 2. An apparatus for inhaling and the lover inspiratory inspira

instruction-car

non-instinctive activities. But similarly, if it is defined simply in psychological terms, it cannot be distinguished from other ments complexes—from other modes of the action-consciousness. An adequate definition must pay regard both to psychology and to physiology; in other words, must be biological. Taking the objective or physiological side of instinct first, we find that it presents four chief characters: it is a mode of response to stimulus that is inherited; that is common to a group or apecies; that is relatively complex; and that is obviously adaptive. So regarded, it is not markedly different from the reflex, on the one hand, and the secondary or acquired reflex (such activities, for example, as bicycle riding), on the other. Its differentiation from the former must, in the last resort, depend upon its relative complexity; its differentiation from the latter, on its being inherited and not acquired. The former difference is, at best, only one of degree; the latter need be no more than a difference in the date at which the race acquires a certain habit of reaction. To these, however, must be added the psychological or subjective characters. The instinct-consciousness is an associative consciousness in which the situation-stimulus (the first term) is followed by a series of organic sensations, the sensations accompanying the instinctive movements. These processes, the perception of the situation and the organic consequences, hold the attention; the performance of the instinctive movements is highly pleasant, their inhibition highly unpleasant. In other words, the instinct-consciousness is a complex 'feeling,' not differentiable in type from other serial feelings. Putting together, however, the two acts of characters, objective and subjective, we have a biological or psychophysical phenomenon which is distinctly marked off from others of the same class. Two remarks may be added, by way of caution: (1) In animals endowed with memory, and therefore especially in man, the 'pure' instinct wi

If we could isolate a fiving cell we must assume that it would react in a definite way to appropriate atimall, and its reactions we may, if we choose, call its 'in-stinct-actions.'

Jour. Philos., Psychol. and Sci. Methods, June 9, 1904,

Instinctive action. See *action.

institor (in'sti-tor), n. [L. institor, \langle insistere (pp. institus), set up, press upon: see insist.] In civil law, an agent; a factor; a steward.

In civil law, an agent; a factor; a steward.

institute, n.—Farmers' institute, a local educational
gathering of farmers, conducted either by a State agricultural college or by a special officer, in which lectures
on agricultural subjects are given by specialists, questions
asked, and the subjects discussed. Such institutes are
held in large numbers in most of the States, usually
occur in winter, and occupy from two to four days.

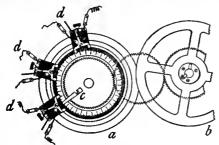
[U. S.]—Naval institute, a society whose object is to
bring interesting naval professional subjects under discussion. The headquarters of the United States Naval
Institute is at Annapolis, Maryland.

institutional ist (in-sti-tū'shon-al-ist), n. [institutional + -ist.] A writer on institutes or

railroad-car arranged for the instruction and insulator, n.—Pettleoat-insulator, aninsulator with examination of engineers, firemen, and trainbands—It is fitted with a steam-boiler, heating—overhead electric lines—Pettihands. It is fitted with a steam-boiler, heating apparatus, and working models of air-brakes, train-signals, and other train appliances.— 2. An electric car on a short track, in a car-barn, for the instruction of motormen in the control of electric cars, signaling, the rules of the road, etc.—3. A working electric car used in technical schools for demonstrations and practice in the building and handling of electric ears.

of electric ears.

instrument, n.—Harp instruments, in music, a general term for stringed instruments played by plucking or twanging; opposed to bowed instruments. Harp instruments include those of the harp, lyre, lute, and zither classes.—Pravaz instrument, a form of syringe for hypodermic injections.—Tensile instrument. Same as stringed instrument (which see, under instrument, 3).—Time-sense instrument, in exper. psychol., an instrument designed for use in the study of the time-consciousness, more especially in the study of the temporal differential sensitivity, of temporal illusion, of the dependence of temporal estimation upon sense department, etc. A typical time-sense instrument consists of a metal spoke or radius, rotated at various speeds and with uniformity of rate, within a ring which carries projecting contact-pieces. As the radius strikes a contact-piece, an electrical circuit is momentarily made, and the making of the circuit coincides with a sound, flash, pressure, electric shock, etc. Very brief intervals of time, marked eff by various sense-stimull, are thus produced. They may be minimally varied, by the shift of a contact-piece; they may be variously filled, by continuous or discrete stimuli; they may be insuliform island, + f.



Neumann's Time-sense Instrument

a, time-sense disk; b_i kymograph drum; c_i rotating spoke; $d_i d_i d_i$ contact-pieces.

presented for comparison in direct succession, or separated by variable blank intervals, etc. The time-sense instrument, in some form, has become a standard feature of the psychological laboratory.—Tubular instrument, wind-instrument which consists of a tube.—Vowel instrument, in accounties, an instrument designed to determine the resonance tones of the voice, and thus by instrument, in accounties, an instrument designed to determine the resonance tones of the voice, and thus by instrument asynthesis to reproduce the vowel sounds. Scripture, Exper. Phonetics, p. 290.

Insufficiency, n.—Aortic, mitral insufficiency. See valvular *insufficiency.—Pyloric insufficiency.

Same as *imbalance.—Pulmonary insufficiency.

Same as *imbalance.—Pulmonary insufficiency, insufficiency.—Pyloric insufficiency, insufficiency.—Valvular insufficiency, See valvular *insufficiency, See valvular *insufficiency, See valvular *insufficiency, Getective closure of the polyons.—Tricuspid insufficiency, See valvular *insufficiency, Getective closure of the polyons.—Valvular insufficiency, Getective closure of the polyons.—Tricuspid insufficiency, Getective closure of the polyons.—Tricuspid insufficiency, Getective closure of the polyons.—Insufficiency, Getective closure of the polyons.—Insufficiency, Getective closure of the polyons.—Tricuspid insufficiency, Getective closure of the polyons.—Tricuspid insufficiency, Getective closure of the polyons.—Insufficiency, Getective closure of the polyons.—Insufficiency, Getective closure of the polyons.—Insufficiency is a member of the company, an insufficiency onto in the not in capital subscribed or furnished by outside parties, but of premiums mutually contributed by the parties into in the company.—Insufficiency of premiums mutually contributed by the parties in the form of whom, by virtue of being a policy-holder, is a member of the company.—Insufficiency on its insufficiency.

Insufficiency, Mutual life-insurance company, an insurance company, on the lock of two of whom, by virtue of being a

the end of which gauze has been stretched. See soufflé decoration, under soufflé.

insula, n. 2. In a Roman city, especially Rome itself, a building composed of distinct apartments let to several families; an apartment-house or tenement-house, in distinction from domus, an independent residence. Originally insula were separated by passages at least 12 feet wide, or by streets. In the later republic, however, stout partitions were considered sufficient. Augustus fixed the height of an insula at 70 feet, and Trajan at 60. Shops usually occupied the ground floor front.

3. In a smaller Roman city, especially Pompeii, a block of houses entirely surrounded by streets.

insular, a.—Bureau of Insular Affairs. See *bureau. insulated (in sū-lā-ted), p. a. Being in a state of insulation, in any sense of that word; in a restricted sense, so remote from other bodics as to be beyond the reach of any sensible

attraction, as solitary or isolated stars.
insulating-tape (in'sū-lā-ting-tāp"), n. Tape impregnated with an insulating compound and used as a covering for electric wires or other

conductors.

insulating-tube (in'sū-lā-ting-tūb"), n. A tube of non-conducting material, used to protect a conductor, around which it is placed, from electric leakage.

insulation-meter (in-sū-lā'shon-mē"ter), n. A direct-reading instrument for the determination of electric insulation.

overhead electric lines. Petti-coat-insulators are sometimes made with deeply corrugated bases and are then called double-petticoat or triple-petticoat in-sulators, according to their form.—Pigtail-Insulator, an insulator for electric lines which is provided with a piece of iron of double curvature to which the wire is fastened. In the 'mictail' insulator and



petticoat Insulator.

In the 'pigtail' insulator an additional iron piece in the shape of an S is moulded in the top.

Reber, in Trans. Amer. Inst. Elect. Engin., 1902, p. 721.



Reber, in Trans. Amer. Inst. Elect. Engin., 1902, p. 721.

Shackle-insulator, a special form of insulator used for the support of overhead lines where great strength is required.—Slot-insulator, an insulator passes.—Strain-insulator, an insulator placed between an overhead wire or cable and the guywires or supports by means of which it is kept stretched.—Umbrella-insulator, an insulator for high-tension circuits which is provided with a broad umbrella-shaped cover of glass or porcelain. The lower parts of the insulator are thus protected from rain, and the distance over the surface which leakage currents must traverse between the wire and its support is greatly increased.

nsuliform (in'sū-li-fôrm), a. [L. insula, island, + forma, form.] Like an island or suggesting an island on a map: used in reference to markings on the skins of animals. insulite (in'sū-līt), n. [insul(ate) + -ite².] A substance made by impregnating sawdust with paraffin-oil under pressure: used for electrical insulation.

insult, v.t. 3. In pathol., to injure; inflict traumatism upon.

The patient's vitality is greatly reduced when the intestines are insulted, and there is great danger of the loops adhering in malposition and giving rise to intestinal obstruction. Therapeutic Gazette, Feb. 15, 1903, p. 129. insult, n. 5. In pathol., external violence which causes a lesion.

insur. An abbreviation of insurance.

insur. An abbreviation of insurance.
insurance, n.—Cost, freight, and insurance. See
★cost2.—Mutual life-insurance company, an insurance company whose fund for the payment of expenses
and of amounts to be paid upon policies issued consists,
not in capital subscribed or furnished by outside parties,
but of premiums mutually contributed by the parties insured, each of whom, by virtue of being a policy-holder,
is a member of the company.—Insurance agent, one
who solicits business for an insurance company.
insurant (in-shör/ant), n. One whose property or life is insured.
insurgescence (in-shries/ons) n. II. insurance

controlling the supply of a fluid (air, gas, oil, steam, or water) to an engine or machine.

intarsia (in-tär'si-ä), n. [It. intarsia, < inlarsiare, inlay, < in-tarsia, inlaid work, marquetry: see tarsia.] A highly developed form of inlay or marquetry in wood practised in Italy during the Renaissance period. The earliest examples are found on ivory boxes made in Venice in the fourteenth century. By using various colored woods and by staining with different colors, excellent pictorial effects were afterward produced, as in the doors of the andience-chamber in the Palazzo Vecchio in Florence.

intarsiatura (in-tür″si-ü-tö′rü), n. [It. intarsiatura, ⟨inlursiare: see ★intarsia.] The process of making tarsia; also, the resulting work.

> $\frac{1}{2\pi i} \int \frac{dt}{t-z} \left(\frac{2}{t}\right)^{t}$ " dt.

intelligized, ppr. intelligizing. [L.intellig(ere), understand, + i.e.,] I. intrans. To think; there is an infinite series) tends toward zero.—Ordinal integer, a mark attached to an object to indicate its place in a series or row.

Integrable group. See *group1.

integral. I. a. 4. (e) Total.—Integral curve, equation, series. See *curre, etc.

II. n.—Elementary integral, a fundamental integral, one of the simplest of its kind.—Fresnel's integral, one of the simplest of its kind.—Fresnel's integrals, the two integrals

II. n.—Blue mentary integral a fundamental integral, and one of the simplest of its kind.—Fresnel's integral, and the world of the simplest of its kind.—Fresnel's integrals, the two integrals

II. n.—Blue mentary integral, a fundamental integral, and one of the simplest of its kind.—Fresnel's integrals, the two integrals

II. n.—Blue intelligized, ppr. intelligizing. [L.intellig(ere), intelligized, ppr. intelligized

 $x = \int \cos \phi \, ds$, and $y = \int \sin \phi \, ds$,

in which x and y are the coördinates of any point on a Cornu spiral, ϕ is the inclination of the tangent to the spiral at that point to the axis of x, and ds is an element of arc. Fresnel's integrals are used in the theory of dif-

fraction for computing the intensity of illumination.—Gause's integral, according to Ganss, for a surface, the total curvature of a part bounded by a closed curve is the value, when the integration is extended over this part, of the double integral / Kdσ, wherein K is the measure of curvature of the surface at every point and do the surface element.—Probability integral, the integral which expresses the area of the normal curve or curve of error whose equation is

$$y = \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}x^2}.$$

Time integral, the integral of a function taken over an interval of time or between two time limits.—Variation of an integral, the excess of the value of the integral along the varied enrve above its value along the original curve

integralization (in"tē-gral-i-zā'shon), n. [integralize + -ation.] The act of bringing into tegralize + -ation.the form of an entire function.

integrand (in'té-grand), n. [L. integrandus, future perf. part. of integrare, make whole: see integrate.] A mathematical expression integrated or to be integrated.

In this case the first integrand is Poynting's Energy Flow function. Physical Rev., Aug., 1904, p. 101.

integraph (in'tē-graf), n. [inte(gral) + Gr. γράφειν, write.] 1. An instrument for measuring the area under a curve combined with a recording device which draws the integral curve of the curve traced by the point of the instrument; an integrator.

Areas may be measured by means of a planimeter or an integraph. Thus time values corresponding to different speed values are known, and the speed time curve may be plotted.

Elect. World and Engin., July 18, 1903, p. 96.

2. An instrument for determining the value of an indefinite integral.

of an indefinite integral.

Integraphs have also been constructed, by aid of which ordinary differential equations, especially linear ones, can be solved.

Encyc. Brit., XXX. 583.

integration, n. 4. The determination of the average rate of flow of a stream. On account of the varying friction against the bottom, sides, and overlying air, this value, as a rule, differs from the rate at any particular place in the cross-section of the stream. J. W. Powell, 11th An. Rep. U. S. Geol. Surv., ii. 13.—Graphic integration, integration by means of the integraph, or by graphical construction of the integral curve.—Law of integration. See *law!.—Mechanical integration, integration by an integraph.—Reciprocal integration, the mutual union of a male cell and a female cell to form a unit or fertilized egg. [Rare.1]

Or interbreeding and crossing, with care or undeature, may unite by means of reciprocal integration-(fertilization) - two molecular mechanisms.

J. A. Ryder, Biel. Lectures, 1895, p. 49. erty or life is insured.

insurgescence (in-ser-jes'ens), n. [L. insurgere, rise, be insurgent, + -escence.] The beginnings of insurrection; incipient revolt against authority.

Int. An abbreviation (c) of interior; (d) of interpreter; (e) of interval; (f) of interjection.

integrator, n.—Amsler's integrator, an instrument by means of which not only the area but the moment and moment of inertia about a given axis of any plane figure are obtained. By running a pointer on the instrument around the outline of the figure, and taking readings from certain wheels, these quantities are ascertained by a simple integration.

integripallial (in te-gri-pal'i-al), a. [L. integer, whole, + NL. pallium + all.] Same as integropalliate.

integritivet (in-teg'ri-tiv), a. [Irreg. integ-rity + -ive.] Possessing integrity. Burns. N. E. D.

N. E. D.

intellect, n.—Economic theory of intellect, an extreme form of pragmatism set forth by Dr. Ernst Mach, according to which general concepts and intelligence generally serve a purely economical purpose in enabling us to foresee how a given line of conduct will be adapted to our wishes. More moderate pragmatists maintain that desires and ends of all kinds essentially involve general concepts, so that, since (economy is the adaptation of means to ends, and supposes that there are ends, it is incorrect to say that general concepts have only an economic utility. Common sense refuses to believe that the human mind can create ideas entirely unlike anything real, and therefore it is incredible that purpose should be purely illusory. purely illusory

Intellectual aura, memory. See *aura1, etc. Intellectualistic psychology. See *psy-

integer, n.—Critical integer, an integer m so connected with a function of that

nected with a function of that

of intelligence officer, an efficer of a bureau or department of intelligence.

intelligize (in-tel'i-jīz), v.; pret. and pp. intelligized, ppr. intelligizing. [L. intellig(ere), understand, + -ize.] I. intrans. To think;

intens. An abbreviation of intensive.

intension, n. 4. In biol., the origin of a new variety, race, or species from individuals which are restricted from free interbreeding with I now call the certainty that some form of divergent transformation will arise when intergeneration is prevented, the principle of intension.

J. T. Gulick, in Trans. Linneau Soc. London, Zool., 1888, 60, 2112

(p. 216. γ. 216. So as to

denote the sum of the characters given as a definition of a term.

A class may be defined either extensionally, by an enumeration of its terms, or intensionally, by the concept which denotes its terms.

Nature, Sept. 3, 1903, p. 411.

which denotes us terms. Acture, sept. 3, 1903, p. 411.

intensity, n.—Calorific intensity. See *calorific.—
Communal intensity, increase of numbers or activity, as of insects and parasitic fungi, in conditions of increased population and cultivation.

as of insects and parasitic fungi, in conditions of increased population and cultivation.

It is no doubt true that insects and fungi spread more rapidly than formerly because of the greater number and continuity of orchards, just as contagious diseases spread faster in cities than in the country. In the small and isolated orchards of former days, fungi and insects were confined within closer areas. This phenomenon of rapid distribution, due to greater extent of host-plants, may be termed communal intensity.

L. II. Bailey, Survival of the Unlike, p. 185.

Intensity-rhythm, intensity-verse. See *rhythm, *rerse2.—Mean spherical intensity, in photom., the value of the intensity of a source of light, obtained by averaging the intensities in all directions; the total flux from a source of light, in lumens, divided by \$4\pi\$; the mean radius vector of the surface of spherical distribution from a light source.—Unit of luminons intensity. See *mit.—Unit of photometric intensity. concentrated (cultivation): designating high culture, or the principle of a small area well tilled, the purpose being to secure the most from every acre of

being to secure the most from every acre of land by means of the application of labor and fertilizers and the most thorough tillage. Comfertilizers and the most thorough tillage. Compare *extensive, 5.—6. In pathol., noting the treatment of disease by very large or frequently repeated doses, or by remedies of greatly increased strength or activity. Lancet, June 6, 1903, p. 1605.—Intensive blue, feeling, magnitude. See *blue, etc.
intention, n. 10. In Rom. Cath. theol., in reference to the administration of the sacraments, the catcal will, on the part of the one administration of the sacraments.

the actual will, on the part of the one administrating, to perform seriously the rites prescribed by the church, and to do nothing to

scribed by the chart, and show contrary intention.

intentionally, adv. 2. In intention only.

In this manner I quitted the fact [of murder] intentionally a hundred and a hundred times.

Defoe, Capt. Singleton, p. 11.

interacademic (in-ter-ak-a-dem'ik), a. [in-ter + academy + -ie.] Common to or exchanged between two or more academies or academic institutions.

nteracinar (in-ter-as'i-när), a. [inter- + acinus + -ar³.] Same as interacinous. interacinar

Lewaschew . . . thought that he was able to transform small groups of acini into typical interacinar islets, thus increasing their number at the expense of the secreting tissue.

Jour. Exper. Med., Jan. 15, 1901, p. 39s.

interactionism (in-ter-ak'shon-izm), n. [in-teraction + -ism.] The metaphysical opinion that body and mind, having like modes of existence, act and react upon each other some-what as two bodies may do, and that this is the manner in which forces acting upon the organs of sense affect the mind and in which volitions produce contractions of the muscles. volitions produce contractions of the muscles. Those who hold this opinion do not consider themselves as materialists for several reasons, among which is their belief that matter can not feel, as the soul can; but they do hold the mind to be, in important respects, similar to matter. The principal advocate of this opinion is Lotze, who is particularly explicit in details in his "Microcosmus" and "Medicinal Psychology."

Interactionism seems almost to necessitate two juxtaposed realities exchanging influences, and thus to imply a metaphysical dualism.

C. A. Strong, Why the Mind has a Body, p. 33.

Interactionism has to maintain, in this concrete form of the 'survival theory,' that the mental process as such is an aid to evolution.

an aid to evolution.

Pop. Sci. Mo., March, 1902, p. 459. interactionist (in-ter-ak'shon-ist), n. and a. [interaction+-ist.] I. n. Anatherent of the metaphysical theory of interactionism. C. A. Strong, Why the Mind has a Body, p. 33.

II. a. Consonant to the metaphysical theory of interactionism. C. A. Strong, Why

theory of interactionism. C. A. Strong, Why the Mind has a Body, p. 23. interadventual (in ter-ad-ven'tū-al), a. Of or pertaining to the interval between the first and second advent of Christ. Warfield. interagglutinate (in ter-a-glö'ti-nāt), v. t.; pret. and pp. interagglutinated, ppr. interagglutinating. [inter-+agglutinate.] To causo interagulutinating. interagglutination.

Varieties of bacilli, related closely in morphology and cultural reactions, do not, as a rule, produce serums which inter-agglutinate.

Jour. Exper. Med., Oct. 1, 1901, p. 642.

interagglutination (in"ter-a-glö-ti-nā'shon), n. [inter- + agglutination.] The agglutina-

tion of one variety of cells by the agglutinins

These results will be seen to bear out Cushing's results in his experiments upon Bacillus 0, that inter-agglutinations do not necessarily occur between closely related varieties of bacilli.

Jour. Exper. Med., Oct. 1, 1901, p. 640. interalar (in-ter-ā'lār), a. [L. inter, between, + ala, wing, + -ar³.] Sitnated between the wings.

Thorax. Dark metallic green above, with all the sutures and the interalar space black.

Proc. Zool. Soc. London, 1902, L 86.

interambulacral, a. II. n. In echinoderms, one of the plates which form the skeleton.

The interambulacrals lie in single columns between the ambulacra.

The representation of two metal plates, placed between the terminals of an electrolytic cell in the path of the awnort from which metal is dissolved. of the current, from which metal is dissolved away.

interantennary (in teran-ten a-ri), a. [L. inter, between the antennae arg.] Situated between the antennae.

interapertural (in-terantennae.)

interapertural (in-ter-ap'er-tūr-al), a. [L. inter, between, + apertura, aperture, + -all.] Situated between the apertures: as, the interapertural spaces in the zoaria of the Bryozoa. interarcu alis (in-ter-ār-kṇ-ā'lis), n.; pl. inter-arcuales (-lēz). [NL.] One of the muscles lying between the upper ends of the branchial lying between the upper ends of the branchial

arches.

The interarcuales are divided into two systems

Amer. Nat. Dec., 1905, p. 99

The interarcual of th interassociation (in "ter-a-sō-si-ā'shon), n. In

psychol., reciprocal or mutual association.

The perceptions of the various parts of a letter shoot together into the perception of the whole letter, the part perceptions mutually assisting each other according as from being often presented together, they have habits of interassociation.

Amer. Jour. Psychol., XII. 300.

A family of the Typotheria which contains extinct mammals of moderate size, with complete dentition, from the Santa Cruz Formation (Mioceno?) of Patagonia. Ameghino, 1887. interaural (in-ter-à'ral), a. [L. inter, between, + auris, ear, + -all.] Situated between the

interbed (in-ter-bed'), v. i. and t.; pret. and pp. interbedded, ppr. interbedding. To take or canse to take a position of conformable stratification in a sedimentary series: chiefly used in the passive: as, to be interbedded. interbedding (in-ter-bed'ing), n. In geol., the

process or property of forming a member in a conformably stratified series of rocks.

interbody (in'ter-bod'i), n. [inter-body.]
An amboceptor of normal blood-serum, in contradistinction to those which result on special immunization.

interborough (in-ter-bur'ō), a. [inter- + borough.] Existing or forming a communication

between boroughs: as, the interborough railway

in New York.

Interbrachial membrane, in certain cephalopods, the web-like fold which unites the arms and sometimes reaches nearly to their extremities, as in Amphitretus, (in-tèr-

intercadence kā'dens), n. [inter-+ cadence.] The intercurrence of an extra pulsebeat between two normal pulsations.

intercadent (in-ter-kā'-dent), a. [inter- + cadent), a. dent.] Intercurrent; falling between: said of an occasional pulsebeat coming between and Hass two beats of the normal rhythm.

intercalarium (in "ter-kā-lā'ri-nm), n.; pl. intercalaria (-a). [NL.: see intercalary.] A segment intercalated or inserted between two vertebræ, on either the dorsal or ventral side intercompany (in-ter-kum'pa-ni), a [inter-

of the vertebral column. In the latter case the intercalarium would be homologous with an intercentrum or hypocentrum: In the first instance it would be the equivalent of the interdorsalia of Gadow. Intercalaria occur typically in the vertebral column of sharks. Philos. Trans. Roy. Soc. (London), 1893, ser. B, p. 83.

intercalary, a. 4. In anat., additional; supernumerary; inscrted between other parts, as the cartilages on the dorsal side of the vertebral column in many elasmobranchs.

In all recent forms the neural arch is converted into a closed canal by the insertion of intercalary pieces between the neural processes and the spine.

J. S. Kingsley, Vert. Zool., p. 234.

intercalicular (in "ter-ka-lik' p-lär), a. [L. inter, between, + caliculus, a cup, + -ars.] Situated between the calyees: as, intercalicular germantion in corals. Proc. Zool. Soc. London,

sponges, noting a series of cavities or inter-stices on the sponge-body lying among the tubes or foliæ constituting the skeleton, as in the Mæandrospongidæ.

blood-vessels.

intercarpellary (in-ter-kär'pe-lā-ri), a. [in-ter-+ carpellary.] In bot., situated between carpels.

intercatenated (in-ter-kat'ē-nā-ted), a. ter- + catenate + -ed².] Chained together; linked firmly together: as, intercatenated ideas. perception presented the from heing often presented the from heing of the presented the from heing of th intercathode, interkathode (in-ter-kath'od), n. [L. inter, between, + E. cathode.] That one of two metal plates, placed between the terminals of an electrolytic cell in the path of

steam; a steam-separator. The steam, in its passage through the intercepter, meets a diaphragmilate by which the water is thrown out and is subsequently drawn off by a drain-cock.

interception-band (in-ter-sep'shon-band), In physiol. and psychophysics, a narrow band of color produced, under certain conditions of experiment, by the passage of a pendulum or other light rod across a bicolor disk observed with the resting eye: so called, as opposed to illusion-band, because it is due to the purely geometrical relations of the disk and the in-

tercepting pendulum.

Harvard Psychol. Studies, I. 190.

There is no sharp line of division between the igneous and sedimentary rocks, and along the contact there is no roless interbedding as though sedimentation was at interrupted by lava flows and then again was resumed nuder more favorable conditions.

Amer. Geol., March, 1904, p. 136.

Tinter and Psychol. Studies, I. 190.

Interchanger (in-ter-sep'tor), n. Same as interceptor (in-ter-sep'tor), n. That part of an apparatus for the liquefaction of air wherein the compressed air is allowed to expand and is thus cooled to its point of liquefaction.

intercivic (in-ter-siv'ik), a. [L. inter, between, + civis, citizen, + -ic.] Existing or taking place between citizens of the same place: as, an intercivic contest.

intercollision (in ter-ko-lizh on), + collision.] In phys., a collision between the independently moving particles of a gas or other medium. Elect. Rev., Aug. 8, 1903, p. 172. intercolumniary (in ter-kō-lum'ni-ā-ri), a. [L. intercolumnium, space between columns,

intercommissural (in ter-ko-mis v-ral), a. [inter-h commissural] Situated between commissures: as, the intercommissural recess, a depression between the dorsal and ventral commissures in the lamina terminalis of the reptile brain. Trans. Linnean Soc. London, Zool., July, 1903, p. 471. intercommuner (in "tér-ko-mū'ner), n. 1. In

Scots law, one who intercommunes with a denounced person or a rebel. See letters of intercommuning, under intercommune.—2. One who communicates or conducts negotiations between other parties; an intermediary.

intercommunicative (in ter-ko-mū'ni-kā-tiv), a. [inter-+ communicative.] Inclined to be communicative with each other; disposed toward mutual exchange of opinions, knowledge, or facts.



Interbrachial Membrane. (Amphitretus pelagicus.)

a, funnel; b, pouch in the mantle: c, eyes; d, inter-brachial membrane. (Cooke, after Hoyle.) (From Parke and Haswell's "Zoology.")

+ company.] Existing between, or among, interdependently (in "ter-de-pen'dent-li), adv. interference-bands (in-ter-fer'ens-bandz), n.

intercomparison (in/ter-kom-par'i-son), n. [inter- + comparison.] The act of intercomparing or comparing.

intercondylic (in"ter-kon-dil'ik), a. [inter-+ condyle + -ie.] In anthrop., relating to the distance between two condyles.

interconvertibility (in "ter-kon-ver "ti-bil'i-ti), Mutual convertibility; interchangeableness.

interconvertibly (in "ter-kon-ver'ti-bli), adv.
In a reciproeally convertible manner.
intercooler (in-ter-kö'ler), n. [inter-+ cooler.]
A device for cooling air as it passes from one eylinder of a compressor to the next: similar to a condenser. It usually consists of a cylindrical shell in which are fitted tube-plates and tubes for the

intercortical (in-ter-kôr'ti-kal), a. [L. inter, between, + cortex (cortie-), bark, +-all.]
Within the cortex: as, the intercortical cavities in certain sponges. Proc. Zool. Soc. London, 1902, p. 215.

intercostal, a. 2. In iron ship-building, noting a structural member composed of a number of short pieces fitted in the spaces between a series of other continuous structural members which it crosses: as, an intercostal floorplate, one in which the floor is in short pieces between the longitudinals; an intercostal keelson, intercostal longitudinal, one in short pieces between the frames; an intercostal angle-bar, intercostal seam-strap, one in short pieces between frames or deck-beams, etc.

When the deep vertical transverse plates forming the floors only extend hetween the keelsons, girders or longitudinals, and are attached to them by angle bars, the floors are called intercontal floors... when the keelsons, girders, or longitudinals extend only between the frames and floors, they are called intercontal keelsons, girders, and longitudinals.

Encyc. Brit., XXXII. 591.

intercostally (in-tèr-kos'tal-i), adv. In iron ship-buiding, (worked or fitted) in intercostal pieces. Marine Rev., Nov. 17, 1898.
intercotylar (in-tèr-kot'i-lär), a. [L. inter, between, + NL. cotyle + -ar3.] In anat., lying between two cotylæ; specifically applied to the region between the cup-shaped depressions on the upper end of the tarsometatarsus of a bird which receives the artien. metatarsus of a bird which receives the artien-

intercourse, n.-Intersubjective intercourse. See

intercrinal (in-ter-kri'nal), a. [L. inter, between, + crinis, hair, +-all.] Between hairs; specifically applied to the material cementing or uniting the hairs to form the horns of some

ruminants.

Nitsche has shown that the sheath [horn of the prong-buck] is an aggregation of sparse hairs connected by much intercrinal horn-substance... Proc. Zool. Soc. London, 1902, p. 213.

Intercrural ganglion. Same as *ganglion

intercupola (in ter-kū'pō-lā), n. [inter-+cupola.] Same as *interclome.
intercurrent, a. 3. Noting a pulse in which there is an occasional supernumerary beat.

intercuspidal (in tèr-kus pi-dal), a. [L. inter, between, + cuspis (cuspid-), point, + -all.] Situated between cusps.

interdeal (in-ter-del'), v. i. [inter-v.] To deal together or reciproeally. [inter- + deal1,

interdenominational (in "ter-de-nom-i-na'-sho-al), a. [inter- + denomination + -all.]

Taking place between religious denominations; having the common support of such denominations.

Interdental splint. See *splint. interdepend (in ter-de-pend'), v. i. [i depend.] To depend upon each other. [inter-+

two or more companies.

Within a great corporation proper co-operation allows of many "intercompany" economies.

Electrochem. and Metal. Industry, May, 1905, p. 167.

In a reciprocally dependent way.

interdespise (in*ter-des-piz'), r. t.; pret. and pp.

interdespised, ppr. interdespising. [inter-+ despise.] To desnise reciprocally.

intercompare (in ter-kom-par'), v. t.; pretiated printer compared, ppr. intercomparing [inter-+ compare.] To compare.

The labors of Bessel, Clarke and others in intercomparation geodetic standards.

Science, Jan. 13, 1905, p. 46. one who causes an interdiction, that is, a legal interaction producing the prod restraint upon a person of weak mind who

is liable to be imposed upon. interdiffusive (in/ter-di-fu'siv), a. [inter- +

The opportunities for intercomparison afforded of late Burlington May, 111. 257.

tercondylic (in*ter-kon-dil'ik), a. [inter-terdiffusive+-ity.] The physical constant or condyle + -ic.] In anthrop., relating to the eentimeters per second, at which two fluids diffuse into each other through the unit area of a horizontal plane separating them: as, the interdiffusivity of CO2 and O2 is about 0.140 cm^2

see. Poynting and Thomson, Properties of

Matter, p. 196. interdigit (in-ter-digit), n. [inter- + digit.] The fold between any two adjacent fingers or

interdiscal (in-ter-dis'kal), a. [inter- + discal.] In cutom., situated between the discal spots on the wing of a lepidopterous insect. Annals and Mag. Nat. Hist., May, 1903, p. 504.

interdistichal (in-ter-dis'ti-kal), n. [L. inter, between, + E. distichal.] In the ealyx of the Crinoidea, one of the plates lying in the interradial areas between the distichals of the rays. Seo *distichal.

interdome (in'tèr-dōm), n. [inter- + dome.] In a masonry eupola, the space between the iuner and outer shell; by extension, the space between the inner masonry enpola and the outer dome-like roof of wood or metal, as in St. Paul's Cathedral, London. Also ealled intereupola.

interdorsale (in "ter-dôr-sa'lē), n.; pl. interdorsalia (-li-a). [NL., neut. of interdorsalis, < L. inter, between, + dorsum, back.] One of a pair of cartilages on the dorsal side of the notochord, posterior to the basidersalia: commonly used in the plural.

interelectrode (in "ter-ē-lek'trod), n. [L. inter. between, + E. etectrode.] A metal plate inserted between the terminals of an electrolytic cell.

interest, n.—Law of interest, in psychol. See *law1.
— Reversionary interest, the future interest one has in lands now in the possession of another; also the remainder of an estate after a lesser estate has been taken out of it.

interestuarine (in-ter-es'tū-a-rin), a. [L. in-ter, between, + **astuarium*, estnary, + -ine1.]

interfenestral (in ter-fe-nes tral), a. [L. inter, between, +fenestra, window, +-all.] Situated or placed between the windows or between any two windows: as, an interfenestral panel; the interfenestral space.

interfenestration (in-ter-fen-es-trā'shon), n. [NL., *interfenestratio(n-), < inter, between, + fenestra, window.] The space between two windows; by extension, the treatment of a front so that the windows and the space between them shall be artistically proportioned.

interferant (in-ter-fer ant), n. [Prop. interferent; < interfere + -ant (-ent).] In Amer. patent law, a party who goes into interference. See interference, 4.

interfere, v. i. 5. In base-ball, to obstruct unfairly a runner when he is endeavoring to reach a base; also, so to obstruct a catcher or fielder who is endeavoring to handle or throw the ball.—6. In foot-ball, to interpose between a runner and would-be tacklers in order to assist the former.

interference, n. 6. In base-ball and foot-ball, the act of interfering. See *interfere, v. i., 5 and 6.—Interference comparator. See*comparator, 1.

In opties, bands of color produced by the In optics, bands of color produced by the interference of light-waves. Where the bands are due to diffraction at a straight edge they are straight and parallel; in other cases they may be annular, as in Newton's rings, or hyperbolic, or they may have a variety of other forms determined by the conditions under which interference occurs. Also called interference fringes. See diffraction, 1, and interference, 5.

electrical waves, thus producing the phenomenon of interference.

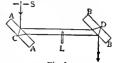
Through interference tubes with two branches only those vibrations are transmitted which are parallel to the plane of the branches.

G. Quincke, in Rep. Brit. Ass'n, 1901, p. 39.

interferential (in ter-fē-ren shal), a. [inter-ference + -ial.] Of or pertaining to the interference of wave-systems, specifically, of light-waves.—Interferential methods, methods specifically for the measurement of small distances, in which the phenomena arising from the interference of light are employed. See *interferometer* and refractom-

interfering-shoe (in-ter-fer'ing-shö), n. A horseshoe designed to cure or prevent inter-ference in a horso; an interference-strap. See interference, 3.

interferometer (in "ter-fe-rom'e-ter), n. [Irreg. ζinterfer(ence) + Gr. μέτρον, measure.] An Sinterfer(ence) + Gr. µĒrpor, measure.] An instrument for the measurement of lengths by means of the phenomena resulting from the interference of two rays of light. The development of the interferometer is chiefly due to Michelson, but the instrument in its modern form is based upon an extension of the principle used by Jamin in his refractometer. The Jamin refractometer was designed for the measurement of the indexes of refraction of transparent hodies by means of the retardation of a ray of light passing through a given thickness of the substance as indicated by its manner of interference with a ray not thus retarded. In this refractometer two plates of parallel glass of equal thickness, silvered on the back, are mounted in a vertical position with their faces parallel as shown in Fig. I. One of these plates, AA, makes an angle of 45° with the axis of the instrument; the second, BB, can be turned about a vertical axis and its distance from AA can be altered at will. A beam of light passes through the slit Sand a portion of it reflected from the first face of AA reaches the other plate BB. That portion of this ray which penetrates the second plate and is reflected from the silvered surface at the back (P) is shown in the diagram. That portion of the inclent ray which is transmitted by the plate AA is similarly reflected from the silvered surface at the back (P) is shown in the diagram. That portion of the inclent ray which is transmitted by the plate AA is similarly reflected from the silvered surface at the back (P) is shown in the diagram. That portion of the inclent ray which is transmitted by the plate AB is similarly reflected from the silvered surface at the back (P) is shown in the diagram. That portion of the inclent ray which is transmitted by the plate AB is similarly reflected from the first surface of that plate. This ray and the one reinstrument for the measurement of lengths by



reaches BB, a portion of it being reflected from the first surface of that plate. This ray and the one relected from the back of BB follow the same path after leaving the second plate. When the plates are parallel the two rays will have followed equal and similar paths and will be in the same phase. If now the plate BB is slightly displaced from its vertical position there will be a difference of phase between the rays and a series of horizontal diffraction-fringes will appear. If a thin plate L of any refracting substance is placed in the path of one of the rays between AA and BB the retardation of the light in transmission through it will produce a shifting of the diffraction-fringes from which the index of refrection of the substance may be computed, if its thickness is known, or its thickness, provided the index is known. The instrument therefore may be used either as a refractometer or an interferometer.—Michelson's interferometer. The principle of this instrument, which is given various forms according to the use to which it is to be put, may be seen from Fig.II. Four plates of plane parallel glass are mounted with their surfaces perpendicular to the bed of the instrument. Parallel rays of light from a source S reach the plate A at an angle S

surfaces perpendicular to the bed of the instrument. Parallel rays of light from a sonree S reach the plate A at an angle of 45°. The back of this plate is covered with a thin film of silver, the density of which is such that approximately half the light is reflected to the plate D while the remainder is transmitted through the plate B to C. C and D are heavily coated with silver on the front face, forming two plane mirrors adjusted so as to return the light falling upon them on the same path. The returning ray from D is in part reflected toward E and the returning ray from D is in part transmitted along the same path. An observer at E, when the instrument is in adjustment, sees a system of bands or fringes due to the interference of these two rays. The plate B, which should be as nearly as possible identical in thickness and optical quality with A, is used to compensate for the difference in the path of the two rays when the distances of C and D from A are equal. To an observer at E, rays turned from the plate D and transmitted by A will be seen to interfere with the rays from C reflected by A, provided the distance traversed by the light in traveling from A to D and back. Any relative change in these distances, comparable in amount to a wave-length of light, will produce a shifting of the interference-fringes in the field of view, and it is by the

observation of this shift, by means of a micrometer eyepiece not shown in the diagram, that measurements of distance by means of the interferometer are made. The extraordinary delicacy of this method, which enables a skilled observer to detect a movement of either of the mirrors C or D amounting to the one hundredth of the mave-length, or about .0000005 centimeter, has led to the ness of the interferometer for refined determinations of various physical constants.

interferric (in-ter-fer'ik), a. [inter- + ferric.] In dynamo-electric machinery, lying between the pole-piece and the iron of the armature of a generator or motor: said of the air-gap of such a machine or of any magnetic circuit.

The whole interferric gap between the iron of the pole-pieces and the iron of the armature may be treated as an air-space.

Encyc. Brit., XXVII. p. 586.

Interfilamentar junction, in the gills of bivalve mol-lusks, one of the horizontal bars of tissue which connect the gill-filaments and cause externally the appearance of

luss, on the gill-filaments and cause excessible gill-filaments gill-filaments and cause excessible gill-filaments gill-filaments gill-filaments gill-filaments gill-filaments gill-filaments gill-filaments gill-

interflange (in'ter-flanj), n. [inter- + flange.]
The distance between the two flanges of a bobbin measured parallel to the axis.

interflow (in'ter-flo), n. [inter- + flow.] The flowing of seas or rivers into each other or between boundaries, as between islands.

interfluence (in-ter'flö-ens), n. [L. interfluere, flow between, + -ence.] A flowing into each other, as rivers; the state of being interfluent.

interfluve (in'ter-flov), n. [L. inter, between, + fluvius, river.] In phys. geog., an upland or group of hills between two neighboring valleys.

interfluvial (in-ter-flö'vi-al), a. [L. inter, between, + fluvius, river, + -all.] 1. Situated between rivers.

A deposit of the flooded rivers during a stage of abundant ice melting, with considerable redistribution over the interfluvial upland areas by winds. Sci. Amer. Sup., Feb. 14, 1903, p. 22679.

2. See the extract.

Accordingly, when referring to non-glaciated regions I shall use the terms "finvial" and "inter-fluvial" and their derivatives as the designations of the contrasted climatic epochs ordinarily known as "glacial" and "interglacial" in Europe and America.

Bull. Amer. Geog. Soc., Nov., 1906, p. 673.

interfoliar (in-ter-fō'li-ār), a. [L. inter, between, + folium, leaf, + -ar³.] 1. Situated between or among the leaves.—2. Same as in-

terlamellar. Encyc. Brit., XXX. 798.
interfurrow (in-ter-fur'ō), n. [inter- + fur-row.] The open furrow between two ridges; a water-furrow or dead-furrow.

The form of the old ridges, and the situation of the inter-furraws, are preserved. Loudon. Encyc. Agr., p. 527.

Interfusion disk. See *disk.

intergenerant (in-ter-jen'e-rant), a. [L. inter, between, + generans (-ant-), ppr. of generare, generate.] Intergenerating; interbreeding.

An intergenerant, or intergenerating group, is a group interimistic, a. 2. Provisional; occurring in of individuals so situated and so endowed that they freely the interim: as, an interimistic truce.

of individuals so states of the cross with each other.

J. T. Gulick, in Trans. Linnean Soc. London, Zool., [1888, p. 200.

intergenerating (in-ter-jen'e-rā-ting), a. Interbreeding; intergenerant.

intergeneration (in-ter-jen-e-rā'shon), n. [in-ter-+ generation.] The interbreeding or crossing of the individuals that compose an intergenerant group.

intergenetic (in-ter-jē-net'ik), a. [inter-+ genetic.] Generated or introduced during the individual life-history, or the ontogeny of the individual, or during that of ancestors. [Rare.]

Recurring to an earlier suggestion we may note that all three of these conceptions are 'intergenetic,' or 'ontophyletic' (the former term being the one which I prefer, and shall use).

J. M. Baldwin, Development and Evolution, p. 11.

intergential (in-ter-jen'shial), a. [L. inter, between, + gens (gent-), tribe, nation, + -ial.] Existing between tribes or nations; international.

Interglacial climate, epoch. See *climate,

interglacialism (in-ter-glā'shial-izm), n. [in- jectionally, terglacial + -ism.] The belief that the glacial interjectory (in-ter-jek'tō-ri), a. [interject + period was made up of glacial and interglacial

interglacialist (in-ter-glā'shial-ist), n. terglaciat + -ist.] One who believes in interglacialism.

in a triglyph, one of the two spaces separating the three grooves.

intergradient (in-ter-grā'di-ent), a. [inter-+ gradient.] In the theory of evolution, said of forms or species that grade or vary into each other, or of grades between two given forms.

We have the evidence of intergradient forms from very wide differences to very small ones.

The Independent, Jan. 26, 1899, p. 259.

intergrafting (in-ter-grafting), n. [inter-+ grafting.] The practice of grafting, as between two given forms or species: usually employed with the idea of reciprocal grafting

intergrow (in-ter-gro'), v. i.; pret. intergrew, pp. intergrown, ppr. intergrowing. [inter-+grow.] To grow together.

intergrowth, n. Specifically-2. In crystal., intercrystallization; the intimate union of two mineral species, often in parallel position, simultaneous crystallization; also, one of the subindividuals involved in a composite growth of this character.—Graphic intergrowth. Same as graphic *texture. intergular (in-ter-gū'lär), a. and n. [inter-+

gular.] I. a. Lying between or just back of the gular shields of turtles.

With the exception of one species, which lacks horny shields on the shell the whole of these tortoises are characterized by the presence of an intergular shield, between the two gulars on the front of the plastron.

R. Lydekker, New Nat. Hist., V. 90.

1. In herpet., a median, unpaired, horny plate covering the anterior end of the plastron in some of the *Pleurodira* or sidenecked turtles.—2. In ichth., a bony plate lying just back of the chin, between the rami of the jaw, as in the fresh-water dog-fish, Amia. interhemal, n.—Aggregated interhemal. Same as *hypural. Starks, Synonymy of the Fish Skeleton, p. 526. interhemispheral (in-ter-hem-i-sfe ral), a. [in-ter- hemisphere + -all.] Same as *interhemispheric. Buck, Med. Handbook, II. 187.—Interhemispheric (in-ter-hem-i-sfe r'ik), a. [interhemispheric (in-ter-hem-i-sfe r'ik), a. [inter- hemisphere]. Situated between

[inter- + hemisphere + ic.] Situated between two hemispheres; specifically, between the two cerebral hemispheres. Buck, Med. Handbook, II. 256.

3t. Something done in an interinterim, n.

This child of fancy that Armado hight,
For interim to our studies shall relate
In high-born words the worth of many a knight
From tawny Spain lost in the world's debate.

Shak., L. L. L., I. 1.

interinsular (in-ter-in'sū-lar), a. [L. inter, between, + insula, island.] Occurring or existing between islands.

interionic (in "ter-ī-on'ik), a. [inter- + ion + -ic.] Acting between ions.

The deviations between the two values are, however, in most cases easily explainable by a consideration of the interionic forces, which prohably exert an effect even at dilutions at which the intermolecular forces are negligible, and, further, of the complex ions which are so often formed in solution.

Nature, Nov. 19, 1903, p. 65.

interisland (in-ter-1'land), a. [inter-+island1.] Between islands; belonging in common to several islands.

She [the "Relief"] was finally abandoned for hospital purposes and turned over to the Quarternaster's Department for use as an *inter-island* transport in the Philippines.

Buck, Med. Handbook, IV. 739.

interjaculatory (in-ter-jak'ū-lā-tō-ri), a. Of the nature of an inserted ejaculation: as, interjaculatory comments.

interjectionalize (in-ter-jek'shon-al-īz), v. t.; pret. and pp. interjectionalized, ppr. interjectionalizing. To turn into an interjection. interjectorily (in-ter-jek'tō-ri-li), adv. Inter-

-ory.] Of the nature of an interjection in either sense; interjectionary.

[in- interjointal (in-ter-join'tal), a. [inter- + joint *signaling.

ter- +-all.] In geol., between joints; occurring interlocutive (in-ter-lok'ū-tiv), a. Relating to interlocution; interlocutory.

interlabial (in-tèr-là bi-al), a. [L. inter, between, + labium, lip, + -all.] Situated between the two lips, or labia, or any two lip-like parts. Buck, Med. Handbook, IV. 321.

interlacustrine (in "ter-lā-kus'trin), a. [L. inter, between, + lacus, lake (see lacustrine).] Situated between two lakes.

The great interlacustrine plateau.

Geog. Jour. (R. G. S.), XV. 179. interlamellation (in-ter-lam-e-la'shon), n. [L. inter, between, + lamella, lamella, + -ation.] The placing of one lamella or layer between others, or the state of being so placed. interlaminated, a. 2. In geol., interstratified.

Igneous rocks everywhere interlaminated with lime-tone. Geog. Jour. (R. G. S.), XIII. 37.

interlatitudinal (in-ter-lat-i-tū'di-nal), a. [L. inter, between, + latitudo (-din-), latitude, + -al¹.] Lying between designated parallels of latitude.

interleav, v. t. A simplified spelling of inter-

interleaved (in-ter-levd'), p. a. Having leaves placed within; specifically, in geol., interstratified in very thin layers or folia. interligamentary (in ter-lig-a-men'ta-ri), a.

Same as *interligamentous. interligamentous (in "ter-lig-a-men'tus), a.

Situated between or among the ligaments interlineally (in-ter-lin'e-al-i), adv. By interlineation.

interlineate (in-ter-lin'ē-āt), v. t.; pret. and pp. interlineated, ppr. interlineating. [ML. interlineare (pp. -atus): see interline1.] To write or print between the lines of; insert between lines; write or print in alternate lines.

interlingual (in-ter-ling'gwal), a. Relating

to two or more languages: as, interlingual alphabet; interlingual geographical data. interlobar (in-tér-lő'bar), a. [inter- + lobe + -ar³.] Situated between two lobes, as of the lung.

interlobate (in-ter-lō'bāt), a. [inter-+ lobe + -atel. The proper form is interlobar.] Situated between lobes; specifically, in geol., lying between adjacent glacial lobes, deposits.

These at length united in one general Ice sheet, but when they retired they assumed again their lobate forms outlined by moraines, and finally allowed an uncovered interlobate area of the high lands about the region of the Upper Mississippi. Science, March 29, 1901, p. 510.

Interlobate moraine. See *moraine.

interlocal (in-ter-lo'kal), a. [L. inter, between, + locus, place, + -all.] Situated between, belonging to, or connecting several places.

interlocally (in-ter-lo'kal-i), adv. In an inter-local position; by way of connecting places or lecalities.

interlocate (in-ter-lo'kāt), v. t.; pret. and pp. interlocated, ppr. interlocating. [inter-+ locate.] To place or locate between (other things).

interlock, v. I. intrans. 2. In geog., to be involved together: specifically applied to the headwaters of two different drainage systems which dovetail together yet flow in opposite courses.

II. trans. 2. To cross-lock or lock in combination; lock so that unlocking can be effected only under certain conditions, or after certain other motions have previously been made.

interlocker (in-ter-lok'er), n. Any mechanical, electric, or pnenmatic device for locking the levers of a railroad switching or signaling system; any device for controlling mechanism designed to perform only one movement at a time to the exclusion of all other movements. The most simple are catches, locks, or other mechanical appliances designed to prevent the movement of any and all other levers except the one in actual use.

interlocking (in-ter-lok'ing), n. The aet of

locking together or in combination, as in a railway-switch and signal system. See interrailway-switch and signal system. locking system of signals, under interlock, and

interlude (in'tèr-lūd), v.; pret. and pp. inter-huded, ppr. interluding. I. trans. To insert between, as an interlude. II. intrans. To act as an interlude; come

between other things.

Some pretty interluding discourse.
Quoted in Southey, Doctor, interchapter xiv.

interlunation (in "ter-lu-na'shon), n. [inter-

intermammary (in-tèr-mam'a-ri), a. [L. inter, between, + mamma, breast, + -ary.] Situated between the mammæ or breasts. Buck, Med. Handbook, I. 78.

intermammillary (in-ter-mam'i-la-ri), a. Same as *intermammary.

intermandibular (in*ter-man-dib'ū-lär), a. [inter- + mandibular.] Lying between the mandibles or rami of the under jaw.

intermarginal (in-ter-mär'ji-nal), a. [inter-+ marginal.] Situated between the margins.

Longer spines with intermarginal plates, purplish and bluish color and larger-sized individuals, are the characters usually distinctive of A. erinaceus.

Science, Jan. 10, 1902, p. 61.

intermarine (in "ter-ma-ren"), a. [inter- + marine.] Situated between seas; carried on between seas or on the sea.

The contention has been raised that large power stations producing electric waves will therefore play havoc with Hertzian wave telegraphy on a smaller scale, such as the ship to shore and intermarine communication.

Pop. Sci. Mo., Nov., 1903, p. 56.

intermaxilline (in-ter-mak'si-lin), n. [inter-+ maxilla + -ine¹.] The premaxillary bone, the anterior of the two large bones which form the upper jaw in fishes. It usually bears teeth in the Acanthopteri. Starks, Synonymy of the Fish Skeleton, p. 516.

intermedial, a. II. n. A fissure in the parietal lobe of the brain. Amer. Anthropologist, Oct.-Dec., 1993, p. 626.

intermediary. I. a.—Intermediary body. Same

shields which form part of some reptiles, lying be nasal shields. Proc. Zoo p. 128.

intermediary. I. a.—Intermediary body. Same

s **amboceptor.

II. n. 2. Same as nerve of Wrisberg (b) (which see, under nerve).

intermediate, a. 2. In musical notation, of sharps or flats, accidental; not in the signature .- Intermediate moraine, yield. See *moraine,

intermediatory (in-ter-mē'di-a-tō-ri), a. Per-taining to or of the nature of an intermediator. intermental (in-tèr-men'tal), a. [L. inter, between, + mens (ment-), mind, + -all.] Between mind and mind. See the extract.

Suppose that you communicate your ideas to me by means of language. Here an event in your mind is followed by an event in mine, and the relation is obviously causal. On such inter-mental causal relations all human intercourse depends.

C. A. Strong, Why the Mind has a Body, p. 242.

intermétallic (in-tèr-me-tal'ik), a. Intermediate as regards two metals; partaking of the nature of two metals; formed by the combination of two metals. Rep. Brit. Ass'n Advancement of Sei., 1900, p. 131. intermittence-tone (in-ter-mit'ens-tōn), n.

See *tone1.

intermittent, n.— Anticipating intermittent, an intermittent malarial fever in which the paroxysms appear at an earlier hour in each recurring period.

intermodification (in-ter-mod "i-fi-kā'shon), n. Reciprocal modification.

From the balance or intermodification between the two.

De Quincey, Logic of Polit. Econ., p. 140.

interment (in-ter-ment'), a. [L. inter, between, + mons (mont-), mountain.] Same as intermontane.

The third, introduced by an uplift of less amount, a relatively brief episode up to to-day, inasmuch as it has permitted only the erosion of uarrow valleys in the floor of the weak-rock intermont peneplains.

B. M. Davis, in Science, March 8, 1901, p. 396.

intermorainic (in ter-mō-rā'nik), a. [inter-+ moraine + -ic.] Situated or existing + moraine + -ic.] Situated or existing internidal (in-ter-nid al), a. [L. inter, be-between moraines; pertaining to the region tween, + nidus, nest, + -all.] Between different nests: as, the relationships of a symbiotic vening between the formation of successive moraines. J. Geikie, The Great lee Age,

intermountain (in-ter-moun'tan), a. Situated between mountains; intermontane.

He has undertaken the study of the anthropology of the Indian races in this intermountain region. Science, June 12, 1903, p. 952.

interlocutor, n. 3. In negro minstrelsy, the intermuscular, a. II. n. One of the ray-like middleman. See middleman, 4. epipleural bones in fishes that are attached to the ribs or just above them. Starks, Synonymy

of the Fish Skeleton, p. 525. intermutant (in-ter-mu'tant), n. [L. inter-, between, + mutans (mutant-), ppr. of mutare, change.] In math., a permutant having the blanks of each set in one column. Cayley. Cayley.

intermutule (in-ter-mū tūl), n. [inter-+ mu-tule.] In classical arch., the space between two

the old and the new moon; figuratively, a blank or dark interval. N. E. D.

Intermammary (in-ter-mam'a-ri), a. [L. inter, between, + mamma, breast, + -ary.]

Intermammary (in-ter-mam'a, rin, a. [L. inter, between, + mamma, breast, + -ary.] At Woosung are now anchored seven Russian colliers, which will doubtless be interned. N. Y. Times, June 7,

internal, a. 6. To be taken internally, as a medicine.—7. Applied to a student who has studied in a college of an examining university, nodule + -ar3.] Situated between two nodules. Buck, Med. Handbook, I. 605. has studied in a college not belonging to that internuclear, a. 2. Situated between the nuinstitution.—Internal armor, a backing for main or clear layers of the retina. has studied in a college not belonging to that institution.—Internal armor, a backing for main or ontboard armor, or for transverse bulkheads which extend from side to side and inclose the battery, protecting it against a raking fire. These bulkheads extend from the water-line to the lower part of the upper deck.—Internal contact, speech. See *contact, *speech.—Total internal reflection. See refraction, 1.

internalist (in-ter'nal-ist), n. [internal + -ist.] Same as *internist.

internalization (in-ter"nal-i-zā'shon), n. Theact of internalizing; the fact or condition of being internalized or made subjective and independent of outside objects.—2. That which is internalized.

internalize (in-ter'nal-iz), v. t.; pret. and pp. internalized, ppr. internalizing. To make internal; invest with subjectivity or with internal internalization between two species or varieties by internal; invest with subjectivity or with intermediate forms.—3. In anat., to form a communication between different structures.

of some reptiles, lying between the nasals or interossicular (in-tèr-o-sik'ū-lär), a. Interosnasal shields. Proc. Zool. Soc. London, 1903, seous.—Interossicular ligament. See *ligament.

nternat (an-ter-na'), n. [F., < interne, an intern. The E. form would be *internate.] The office filled by an intern.

Four years later, he obtained the internat, in which capacity he spent four years more in the hospitals of Paris, after which he was graduated doctor medic. Nature, Jnne 4, 1903, p. 105.

internat. An abbreviation of international.

International Burean of the American Republics. See *hureau.—International code. See *code.—International Polar Commission. See *commission1.

Internationalism, n. 2. [l. c.] Specifically, the principle of forcing a somewhat disorgan-ized or weak country to submit to the combined control or protection of several stronger

The investment proved most remnnerative, and helped very materially to save the country from bankruptcy and internationalism. The danger of heing again subjected to the evils of an international administration was very great, for the London Convention contained a stipulation to the effect that if Egypt could not pay her way at the end of two years, another International Commission would be appointed.

Encyc. Brit., XXVII. 705.

internationalist, n. 3. An upholder of internationalism, in either sense.

internationality (in-ter-nash-o-nal'i-ti), n. The character or quality of being international or of being imbued with international senti- Interparietal shield. See *shield.

internationalization (in-ter-nash on-al-i-zā'shon), n. The act of internationalizing. See *internationalism, 2.

internationalize, v. t. 2. To bring or force (a weak country or territory) under the control or protection of several stronger nations. See *internationalism, 2.

internervular (in-tér-nér'vū-lār), a. [inter-hervule+-ar3.] In entom., situated between the nervules or wing-veins: said of the macu-interpellant (in-tér-pol'ant), n. [F. interpellant (in-tér-pol'ant), n. [F. interpellant (in-tér-pol'ant)] lation of a lepidopter's wing. Proc. Zool. Soc. London, 1897, p. 13.

character between different colonies of insects. such as ants or termites occupying different

internist (in-ter'nist), n. [L. internus, internal, + -ist.] One who treats systemic diseases or those of the internal organs not amenable to operative measures; a physician, as distinguished from a surgeon.

Ophthalmologists of high repute and many internists ('general physicians') of experience and authority.

Science, April 29, 1904, p. 696.

internobasal (in-ter-nō-bā'sal), a. [L. internus, internal, + basis, base, + -all.] In entom., pertaining to the hind border of the wing next the body, in Lepidoptera. Also proximocaudal. Proc. Zool. Soc. London, 1898, p. 428.

internodal. I. a. 3. Lying between (and usually alternate with) the nodal joints: applied to distribute the control of the control

plied to joints or segments comprising the column of the *Crinoidea* (those bearing no lateral appendages or cirri).

II. n. An internodal joint.

internode, n. (c) In zoöl.: (2) The contracted portion of the shaft of a feather between the slight swellings where the barbs are given off. (d) In acoustics, the loop or part of a vibrating string between two nodes.—Internode of Ranvier, the portion of a nerve-fiber between two nodes of Ranvier (which see, under node).

internunciatory (in-ter-nnn'si-ā-tō-ri), a. Same as internuncial.

internuptial (in-ter-nup'shal), a. 1. Relating to intermarriage.—2. Relating to the period elapsing between two marriages of the same

Interocular distance. See *distance.

interopercular, a. II. n. Same as interoper-culum. Starks, Synonymy of the Fish Skeleton, p. 515.

Interorbital vacuity. See *vacuity.

wardness; bring into the perception of the world of thought.

internasal, a. II. n. One of a pair of dermal shields which form part of the head-covering

formal intermediate forms.—3. In anat., to form a communication between different structures, such as blood-vessels.

Interosseous arteries, veins. See *artery, *vein.

seous.—Interositeular tigament. See *tigament. interpalatine (in-ter-pal'ā-tin), a. and n. [inter- + palatine².] I. a. Lying between the palatines: as, the interpalatine vacuity, found in the skulls of many birds.—Interpalatine spine. See ★spine.

II. n. In ornith., the antero-internal angle of the palatine where it rests against the sphenoid rostrum.

interpalmar (in-ter-pal'mär), a. and n. [inter-palmar.] I. a. Lying in the interradial areas between the palmars of the rays (in the calyx of the Crinoidea). See palmar. II. n. An interpalmar plate.

interpalpebral (in-ter-pal'pe-bral), a. [L. inter, between, + palpebra, eyelid, + -al.] Situated between the eyelids. Buck, Med. Handbook, I. 80.

interpanel (in-ter-pan'el), n. In mural decoration, a space between panels. See *interpanelina.

interpaneling (in-ter-pan'el-ing), n. Interpanels collectively; ornamentation between panels, in mural decoration.

The paintings by Natoire of the story of Psyche, rest on the inter-panelling which separates the recesses. Lady Dilke, French Furniture and Decoration of XVIIIth [Cent., p. 17.

interparliamentary (in-ter-par-li-men'ta-ri),
a. Existing between or mutually pertaining to parliaments of various nations, or legislative bodies in general.

interparoxysmal (in-ter-par-ok-siz'mal), a. [inter- + paroxysm + -all.] Occurring in the interval between successive paroxysms.

interpellant (in-ter-pol'ant), n. [F. interpellant, ppr. of interpeller: see interpel.] In Continental politics, a member of a legislative assembly who interpellates or demands an explanation from the government.

interpellator (in/ter-pe-la'tor), n. Samo as *interpellant.

interpenetrant (in-ter-pen'e-trant), a. [in-ter- + penetrant.] Interpenetrating. W. J. Lewis, Crystallography, p. 463.

interpermeate (in-ter-per'mē-āt), v. t.; pret. and pp. interpermeated, ppr. interpermeating. To pass into or through reciprocally; pervade; penetrate reciprocally.

interpetiolary (in-tèr-pet'i-ō-lā-ri), a. Same as

interpilastering (lu-ter-pi and terpilasters collectively, interplait (in-tèr-plāt'), v. t. To braid or plait it together, as locks of hair with ribbon; something else, as locks of hair with ribbon; interrenal (in-tèr-rē'nal), a. and n. [L. inter, between, + ren, kidney, + -al¹.] I. a. Situated within the kidneys or the renal organ. Nature, 18 1902, p. 516.

interplical (in-ter-pli'kal), a. [L. inter, between, + plica, fold, + -all.] Situated between folds or plications: as, the interplical spaces in the gills of lamellibranchs. *Philos.* Roy. Soc. (London), 1903, ser. B, p. 161. Philos. Trans.

interplicate (in-ter-pli'kāt), v. t.; pret. and pp. interplicated, ppr. interplicating. To fold together; fold up between. Cotgrave. interpolative (in-ter'pō-lā-tiv), a. Of the na-

ture of or producing interpolation. interpolator, n. 2. In elect., a form of relay for

the automatic transmission to a submarine eable of signals received through another such eable.

interpolypal (in-tèr-pol'i-pal), a. [inter-+
polyp + -all.] Situated between polyps: as, an
interpolypal surface. Philos. Trans. Roy. Soc.
(Loudon), 1896, ser. B, p. 165.

Encyc. Brit., XXX. 667.

interresistance (in#tèr-rē-zis'tans), n. Mutual
impenetrability: as, the interresistance of the
neighboring partieles of a substance. Encyc.

(London), 1896, ser. 15, p. 100.

interporiferous (in ter-pō-rif'e-rus), a. [in-Brit., XXX. 667.

ter-+poriferous.] Lying between poriferous interrog. An abbreviation (a) of interrogation; areas: applied to the imperforate plates in the test of some echinoids or sea-urchins.

(b) of interrogative; (c) of interrogatively.

interrogant (in-ter'ō-gant), n. An interrogative.

tween the ehecked king and the ehecking interrogational (in-ter-\(\tilde{\rho}\)-ga'shon-al), a. Of the nature of interrogation; interrogative.

interposition, n. 4. In mineral., same as inclusion, 2.

interpretational (in-ter-pre-tā'shon-al), a. Pertaining to or of the nature of interpretation.

interpretive (in-ter'pre-tiv), a. Same as interpretative

interprotoplasmic (in-ter-pro-to-plaz'mik), a. [inter-+ protoplasmic.] Between or connecting the cytoplasmic portions of adjacent or contiguous cells: distinguished from intraprotoplasmic. Pop. Sci. Mo., Dec., 1901, p. 175.

interprotoplastic (in-ter-pro-to-plas'tik), a. Same as *interprotoplasmic.

interprotovertebral (in-ter-pro- $t\bar{o}$ -ver' $t\bar{e}$ -bral), a. [L. inter, between, + NL. protoverte-bra+- al^{1} .] In embryol., occurring between successive protovertebræ, or mesoblastic so-mites in the vertebrate embryo. *Philos. Trans.* Roy. Soc. (London), 1895, ser. B, p. 186.

interpterion (in-terp-te'ri-on), n.; pl. interpteria (-i). [NL., \(\cdot\) inter, between, \(+\) pterion.] In anthrop., the space between the two pteria. Amer. Anthropologist, Jan.-March, 1901, p. 36.

interpterygial (in-terp-te-rij'i-al), a. [L. inter, between, + Gr. πτερύγιον, wing, +-all.] In embryol., lying between the regions that give rise to the paired limbs in the vertebrate embryo: as, the interpterygial myotomes. Pop. Sei. Mo., Oet., 1902, p. 542.

interpterygoid (in-terp-ter'i-goid), a. Lying between the pterygoid bones.—Interpterygoid vacuity. See *vacuity.

interpterygoidal (in "terp-ter-i-goi'dal), a. Same as *interpterygoid.

interpunct (in'ter-pungkt), n. [L. inter, between, + punctum, point.] A mark or point of punctuation. Amer. Jour. Philol., XIX. 92.

interpunctuate (in-ter-pungk'tū-āt), v. t.; pretaud pp. interpunetuated, ppr. interpunetuating. [inter-+ punetuate.] To put points between (words); punetuate.

interquarter (in-ter-kwâr'ter), n. The space between two quarters; specifically, the space between one stud (quarter) in a partition, or the like, and the next.

interradiate (in-terra'di-at), v. i. [inter-+radiate.] To radiate into each other: as, an indiate.] To radiate into each other: as, an unterradiating connection and dependence of the parts. N. E. D.

interradiation (in/ter-ra-di-a'shon), n. The state of interradiating; the interpenetrating with rays of light.

interradium (in-ter-rā'di-um), n.; pl. interradia (-ä). [NL. inter, between, + radius, ray.] That portion of the disk of an ophiuran or brittle-star which lies between adjoining arms.

—2. The space between the radial plates in the ealyx of a crinoid. Also called interray. interray (in'tèr-rā), n. Same as *interradium. interregional (in-tèr-rō'jon-al) a. [inter-+region+-all.] Situated between different re-

gions: as, interregional zones. J. P. Smith, in Jour. of Geol., VIII. 695.

interpilastering (in-ter-pi-las'ter-ing), n. In- interregnal (in-ter-reg'nal), a. [interregn(um) + -al¹.] Relating to or of the nature of an in-

Sept. 18, 1902, p. 516.

II. n. One of two long, slender bodies, lying in the median line of the ureter, which replace the suprarenals in clasmobranchs.

interresist (in ter-re-rist), v. i. [inter-+ re-sist.] To react mutually, offering resistance as the particles of matter do when stress is applied which tends to bring them into closer proximity than that for which equilibrium

In the case of attractive forces we know nothing of their modus operandi except by the analogy of the collision of inter-resisting bodies, which makes us believe that something similar, we know not what, takes place in gravity, magnetism, electricity, etc.

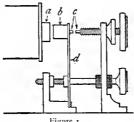
Encyc. Brit., XXX. 667.

neighboring partieles of a substance. Encyc. Brit., XXX. 667.

gator.

the nature of interrogation; interrogative.

interrupter, n. (a) In elect., a device for periodically making and breaking the primary circnit of an inductioncoil. The simplest form of interrupter, and that nsually employed with small coils, is the Neff hummer (Fig. 1). It consists of a small block of iron, b, mounted at the free end of a vertical metallic strip or spring, d. When no current is flowing through the primary coil the position is such that the contact-point c is closed. When current flows through the primary coil, however, the core, a, attracts b and the contact-point are separated. The attracts of the contact-point is are separated. The attracts is renewed, the armature is again attracted, and in this way the spring is maintained in rapid vibration, opening and closing the primary circuit at every oscillation. When it is desired to regulate the frequency of interruption, the Neff hammer is modified by the addition of a vertical rod, attached to the free end of the spring, which carries an adjustable weight, and upon the position of this weight the rapidity of interruption will depend. For large coils requiring heavy currents in the primary circuit, which would soon burn out the metallic contact-points of



currents in the primary circuit, which would soon burn out the metallic contact-points of the interrupter just described, the form of mercury - interrupter devised by Foncault, shown in Fig. 2, is frequently used. It consists of a vertical spring of flat steel, i, fixed below and carrying a cross-arm. To this is attached the armature, b, and the contact-points, c and d, which dip from above into glass cups containing mercury. The height of the mercury is so adjusted that when the interrupter is at rest the contact-point c is slightly submerged. The current in the primary circuit, which flows through the mercury into c, thence through the coil of the small electromagnet, a, causes the latter to attract the armature, b, whereupon c rises, breaking circuit as it leaves the mercury. The spring is then released, contact

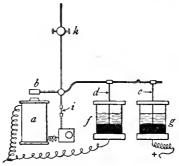


Figure 2 Foucault's Mercury-interrupter.

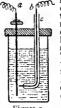
segment.] The space or area between two segments, as in earthworms.

segment.] The space or area between two segments, as in earthworms.

Papille with the arrangement first described were only found in one example; in another, the intersegment bore turpentine, alcohol, or oil fills the upper portions of the mercury cups. In the modern development of the induction-coil, particularly as applied to the production of electric waves and of X-rays, numerous other forms of interrupter have been devised. In one of these, the

intersegmentally

turbine-interrupter, a centrifugal pump forces a jet of mercury against a metal plate, thus furnishing a path for the current. The circuit is made and broken by the intervention of a motor-driven toothed wheel, the speed of which determines the frequency. In other forms of rotary motor-driven interrupters a platinum contact-point is plunged into mercury at each revolution of an eccentric movement attached to the shaft, or a well-insulated commutator is made to revolve in contact with brushes under oil. In the electrolytic interrupter of Wehnett (Fig. 3), a lead plate, a, and a platinum wire, b, the latter entirely incased in a glass tube with the exception of one or two millimeters at the tip, are immersed in an electrolytic cell containing dilute sulphuric acid. When an electromotive force of from 25 to 80 volts is applied, the direction of the current being such that the lead plate is a cathode, the flow of current becomes rapidly intermittent and the cell forms a very effective interrupter. At higher voltages the platinum wire becomes surrounded with gas and the action ceases. The frequency of interruption increases with the voltage and it depends likewise upon the size of the hole. Interrupter, devised by Caldwell, consists of a cell with electrodes of lead hetween which an insulating partition with a small opening is mounted. The flow of current under these circumstances is intermittent, and the frequency of interruption depends upon the size of the hole. Interrupters of the vibrating-hammer type, in which the contact-points is prevented. The suddenness of interruption when no spark is present to carry the current Is moreover advantageons in many lines of work with the induction-coil.—Electrolytic interrupted by the formation of bubbles of gas by electrolysis at a point where the current is made to pass through an electrolyte. The formation of the bubble, the cessation of the current, the escape of



through an electrolyte. The formation of the bubble, the cessation of the current, the escape of the gas, and the reëstablishment of the current can be made



the gas, and the reëstablishment of the current can be made to take place at very short intervals.—Foncault interrupter, see *interrupter (a)—Krille's interrupter, a device for breaking an electrical circuit which is automatically remade after interruption. The bob of a heavy pendulum carries below a plate of mica, which, as the pendulum sulps, cuts through a fine mercury bridge joining two adjacent mercury pools. After the pendulum hapassed, the hridge is remade by the flow of the mercury.—Rosapelly's interrupter, an instrument for recording movements of the larynx. It consists of a small weight on a spring, whose inertia closes an electric circuit when its supporting frame is jarred. Scripture, Exper. Phonetics, p. 267.—String-interrupter, an interrupter for induction coils in which a vibrating string is used for periodically making and breaking circuit.—Turbine-interrupter. See *interrupter (a).—Vapor-interrupter, a mercury are in a vacuum. Hewitt.—Wehnelt interrupter. See *interrupter (a).

interrupter-clock (in-te-rup'ter-klok), n. A eloekwork provided with attachments whereby an electric circuit may

be interrupted at reeurring intervals of time. In Bowditch's inter-rupter-clock, as made by Baltzar, a metal tougne is drawn over a series of pins set in a contact-disk. There are ten sets of pins; and interruptions of the circuit has be effected, according may be effected, according to the position given to the tongue, at intervals of 1, 2, 3, 4, 5, 10, 15, 20, 30, or 60 seconds.

interscapular, n. 2. In the calyx plates of certain Cystoidea, like Caryocrinus, one of the plates of the third eyele representing the interradials of the

Interrupter-clock. Interrupter-clock showing the metal tongue in position upon the contact-disk. A movement of interscendental (in"-the vertical carriage along the rack from right to left, or conversely, brings the tongue into contact with different sets of pins. The pendulum and weight-chains of the clockwork are merely indicated in the figure. The wires of the electric circuit are brought ter-skō-las'tik), a. Beroft to the two binding-posts at the bottom of the figure.

tween schools: as, interscholastic games.
n. [interseet, v.] In

intersect (iu-ter-sekt'), n. geom., a point of intersection.

intersegment (in-ter-seg'ment), n. [inter-+ segment.] The space or area between two

interseminal (in-ter-sem'i-nal), a. [L. inter, between, + semen (semin-), seed, + -all.] Situated between or among the seeds, as the scales in the spadices of fossil cycads.
interseptum (in-ter-sep'tum), n.; pl. intersepta

Same as septum.

(-ta). Same as septum.

intersertal (in-ter-ser'tal), a. [L. intersertus, put between, +-at¹.] In petrog., a texture in igneous rocks produced by the presence of numerous small crystals in spaces between tabular or prismatic crystals of feldspar. It is oftenest found in basalts.

intersesamoid (in-ter-ses'a-meid), a. Lying

between sesamoid bones.

interset, v. t. 2. To diversify or adorn (a thing) by placing or setting objects about or upon it.

A gentle wilderness interset with garden-hidden villas.

T. A. Janvier, Christmas Kalends of Provence, p. 218. intersexual (in-ter-sek'sū-al), a. Existing between the sexes; exerted by one sex upon the

A subtle but potent intersexual influence is among the strongest factors of all adolescent sport.

G. S. Hall, Adolescence, I. 223.

intersow (in-ter-so'), v. t. 1. To sower sprinkle between other things; intersperse: as, to intersow tares with the wheat.—2. To plant (a field or other ground) with seed, corn. etc., scattered at intervals; also figuratively: as, the heavens, intersown with stars.

interspace, n. 3. In osteol., one of the interstices of bone between the Haversian systems.

Rep. Bur. Amer. Ethnol., 1895-96, p. 144.
intersterility (in "ter-ste-ril'i-ti), n. [inter-sterility.] The sterility of individuals when erossed or interbred; mutual infertility. Individuals of different species usually exhibit intersterility, which is often called the sexual bar. Its existence has been held to be opposed to the opinion that species have originated through the survival of the fittest, because a characteristic cannot count in the struggle for existence unless it is transmitted to descendants.

There are many curious phenomena connected with the

There are many curious phenomena connected with the susceptibility of the reproductive functions which make it probable that the common intersterbility of species is an accidental result.

Encyc. Brit., XXIX. 373.

Interstitial cell. See *cell.

interstitium (in-ter-stish'i-um), n.; pl. inter-stitia (-ä). [L.: see interstice.] In church arch., the place where the transept meets the nave and choir, this space often being covered by a tower or cupola; the cross. interstratified, a. 2. Noting volcanic surface-flows which become interbedded between sed-

iments, being thus younger than those below, and older than those above. Gcikie, Text-book of Geol., p. 719.

interstream (in 'ter-strem), a. stream.] Lying between two streams.

interstriation (in "ter-stri-a'shen), n. A long narrow ridge between two narrow grooves or

striæ. [Rare.] Its delicate ridges or interstriations.

Dana, Geology, p. 719.

intersubjective (in-ter-sub-jek'tiv), a. Existing or obtaining between different individual minds: used only in the phrase intersubjective intercourse. See the quotation.

Two forms of experience have emerged in the course of our previous discussion: the experience of a given individual, and Experience as the result of intersubjective intercourse. J. Ward, Naturalism and Agnosticism, II. 152.

intersuperciliary (in-tér-sū-per-sil'i-ā-ri), a. [inter- + superciliary.] In anthrop., located intervallic, a. 2. Pertaining to an interval on the median line between the superciliary in any sense. ridges.

intersystematical (in-ter-sis te-mat'i-kal), a. Situated between systems (of stars). *solitary, 12. Sir W. Herschel.

intertemporal (in-ter-tem po-ral), a. Situated

width. See *width.
intertillage (in-tér-til'āj), n. [inter- + tillage.] In agri., tillage or cultivation between
plants (as eorn and potatoes), in contrast to
tillage of the entire surface when no growing
erop is on it. L. II. Bailey.
intertongue (in-tér-tung'), r. i.; pret. and pp.
intertongued, ppr. intertonguing. [inter- + interveniency (in-tér-vē'nien-si), n. Same as
intervenience.

jections and grooves in tonguing and grooving in carpenters' work.

An intricate series of intertonguing areas.

Amer. Jour. Sci., Feb., 1904, p. 157.

intertonic (in-ter-ton'ik), a. [inter- + tone1 + -ic.] Occurring between two tones or stresses: interventral (in-ter-ven'tral), as, the first i in tes"timo'nial, mer"ito'rious; between, + renter (rentr-), between the second o in monotone, etc.

intertrabecula (in ter-trā-bek'ū-lā), n.; pl. intertrabeculæ (-lē). [NL., < L. inter, between, + NL. trabecula.] In anat., a eartilaginous bryonic skull: present also in the skull of the Intervertebral ring. See *ring1. lamprey, where it is in two portions, termed intervertebrally (in-ter-ver'te-bral-i), adv. In respectively the anterior and pasterior intertra- an intervertebral manner; between vertebre. becula.

intertransversal (in "tér-trans-ver'sal), a. [inter-+ transverse + -all.] Situated between the transverse processes of the vertebræ; noting the intertransversalis musele. See intertransversalis.

intertrappean (in #ter-trap'ē-an), a. [inter-+ trap3 + -e-an.] In geol., ocentring between

sheets of trap.

intertriglyph (in-ter-tri'glif), n. [inter- + tri-glyph.] In a Dorie frieze, the space between any two triglyphs. Also ealled metope, which term, however, is now used chiefly for the block of marble, sometimes sculptured, which is used to fill that space.

intertrinitarian (in-ter-trin-i-tā'ri-an), a. [in-

lying between unpersities.—Intertuberal diameter. See *diameter.
intertubercular (in-tér-tū-bèr'kū-liir), a. [L. inter, between, + taberculum, tubercle, + -ar³.] Situated or occurring between tubercles. Lancet, March 16, 1901, p. 760.
intertwinement (in-tér-twīn'ment), n. The state or action of intertwining; an intertwined collection of the property of the state of the state or action or

intertwist (in-tér-twist'), n. An intertwisted mass; the act of intertwisting or tangling. interungular (in-tér-ung'gū-lār), a. [L. inter, between, + ungula, hoof, + -ar³.] Situated or growing between the hoofs: as, the interpolar charles of above. ungular glands of sheep.

interungulate (in-ter-ung'gū-lāt), a. Errone-ous form for *interungular. interurban (in-ter-er'ban), a. [L. inter, be-tween, + urbs, eity, + -an.] Existing between cities; connecting eities or towns; running or plying between two or more eities or towns: as, an interurban railway.

In the United States the original city lines have been extended into the suburbs, and interurban lines have been built, so that there are continuous electric lines of several hundred miles in length. The interurban service has developed electric railways.

Encyc. Brit., XXVIII. 92.

interureteric (in/ter-ū-rē-ter'ik), a. [inter-+ ureter + -ic.] Situated between the ureters. Buck, Med. Handbook, I. 784.

intervaginal (in-tér-vaj'i-nal), a. [L. inter, between, + ragina, sheath, + -al¹.] Lying between two adjacent sheaths.

interval, n.—Cardio-arterial interval. See *cardio-arterial.—Interval of Sturm, in optics, the distance between the two principal meridians of the maximum and minimum curvatures of a refracting surface. Also called focal interval.—Post-Kansan interval, an interpalcial epoch or period which followed the Kansan ice advance of the glacial period. J. Geikie, The Great Ice Age, p. 757.

in any sense.

intervalve (in'tèr-valv), a. In steam-engines, noting the space which is between the throttle-and slide-valves.

intervalvular (in-tèr-val'vū-lär), a. Lying beintervalvular (in-tèr-val'vū-lär), a. [L. intra, within, + auris, ear, + -al'1.] Situated or occurring intervalvular (in-tèr-val'vū-lär), a. [L. intra, within, + auris, ear, + -al'1.] Situated or occurring intervalval (in-tèr-val'vū-lär), a. [L. intra, within, + articulus, a joint, a

*solitary, 12. St. n. Attended intertemporal (in-ter-tem'pō-ral), a. Situated tween valves.

between the temporal fossæ.—Intertemporal width. See *width.

intertillage (in-ter-til'āj), n. [inter- + til-between blood-vessels or other vascular (in-ter-auricular (in-tra-auricular (in-

tonque, To fit into each other, as do the pro-interventional (in-ter-ven'shon-al), a. [intervention + -ul1.] Of the value of or characterized by intervention.

interventive (in-ter-ven'tiv), a. [intervent(ion) +-ive.] Pertaining to, characterized by, or tending to intervention.

nterventral (in-ter-ven'tral), n. [L. inter, between, + renter (rentr-), belly, +-all (see ventral).] One of a pair of cartilages on the ventral side of the notochord whose development forms the intercentrum or hypocentrum: commonly used in the plural.

Interventricular furrow. See *furrow.

intervesicular (in-ter-ve-sik'ū-lär), a. [L. inter, between, + residula, vesiele, + -ar3.] Situated between little cavities or vesicles; specifically, in geol., noting the walls of the eavities of a pumiceous rock.

intervisibility (in-ter-viz-i-bil'i-ti), possibility or fact of being intervisible or mutually visible.

intervocal (in-ter-vo'kal), a. Same as inter-

intervolute (in "ter-vo-lūt'), n. In arch., in an Ionic or composite capital, the space between the volutes or serolls.

interzonal (in-ter-zō'nal), a. [L. inter, between, + zona, zone, + -all.] Being or lying

Relating to the intestine and the bladder.

intimal (in'ti-mal), a. [intima + -all.] Relating to the intima er lining membrane of a blood-vessel. Buck, Med. Handbook, II. 98.

The intimidative (in-tim'i-dā-tiv), a. [intimidate vined +-ive.] Having power to intimidate: as, an intimidative policy. Giddings, Prin. of Sociol., p. 112.

intimity (in-tim';-ti), n. [F. intimité, < intime, < L. intimus, intimate: see intime.] 1t. Intimate association; intimacy.—2. Intimate quality; inward or inner nature; close seelusion or privacy.

in-toe (in'tō), n. Same as ★hallux valgus.

in-toed (in'tôd), a. $[in^1 + toe + -ed^2]$ Having the toes turned in or inward.

intoxication, n.—Acid intoxication. Same as

intoxicative (in-tek'si-kā-tiv), a. [intoxicate +-ive.] Causing intoxication; specifically, poisonous.

intr. An abbreviation of intransitive.

intra-acinous (in tri-as'i-nus), a. [L. intra, within, +NL. acinus +-ous.] Situated within an acinns, in any sense.

intra-appendicular (in#trä-ap-en-dik'ū-lär), a. [L. intra, within, + appendicula, dim. of appendix, + -ar³.] Situated or occurring within the appendix vermiformis.

Finkelstein has suggested the possibility of the production of a diverticulum from increased intra-appendicular pressure following occlusion of the month of the appendix and consequent collection of secretion.

M. H. Fischer, in Jour. Exper. Med., Jan. 15, 1901, p. 347.

intra-arachnoid (in "trä-a-rak'noid), a. Situated within, or pertaining to the interior of, the arachnoid membrane.

intra-articular (in#trä-är-tik'ū-lär), a. [L. in-tra, within, + articulus, a joint, + -ar3.] Situ-

one of the aurieles of the heart.

intrabiontic (in "trä-bī-on'tik), a. [L. intra, within, + Gr. β ioc. life, + $\delta \nu$ ($\delta \nu \tau$ -), neut. of $\delta \nu$, being.] Of or pertaining to that which

Weismann (trans.), Germ-plasm, p. 107.—Intra-biontic selection.

intrabred (in-trä-bred'), a. [intra- + bred1.] Bred within the limits of the pure stock or race or tribe.

The "purest" race is for me the one which has been isolated, intrabred, and selected for the longest period.

Biometrika, Nov., 1903, p. 511.

intrabronchial (in-trä-brong'ki-al), a. [L. in-tra, within, + bronchia + -all.] Situated or occurring within the bronchial tubes. Jour. Exper. Med., Oct. 25, 1900, p. 182.
intracanalicular (in"trä-kan-a-lik'ū-lär), a. intraligamentary (in"trä-lig-a-men'ta-ri), a. [L. intra, within, + eanalicular, a little chan-lary, within, + eanalicular, a little chan-lary.] Situated within a ligament, specifically the broad ligament of the uterus.

Intracanancum ground some of the ducts.

Jour. Med. Research, Dec., 1907, p. 306.

Holy Scripture.

intracarpal (in-trä-kär'pal), a. [L. intra, within, + NL. carpus, + -al¹.] Situated within the tarsus, or among the bones of the wrist in man. Buck, Med. Handbook, I. 553. in man. Buck, Med. Handbook, 1. 553.

Intracellular pangenesis. See *pangenesis.

intrachordal (in-trä-kôr'dal), a. [intra + chord(u)+-ull.] Occurring or situated within the chorda, or notochord of the vertebrate em-Philos. Trans. Roy. Soc. (London), 1896, ser. B, p. 10.

intracœlial (in-tra-sē'li-al), a. [L. intra, within, + Gr. κοιλία, belly, + -atl.] Situated or occurring within any body-cavity or a ventricle of the brain.

intracolic (in-trä-kol'ik), a. [L. intra, within, + Gr. κόλον, colon, + -ic.] Situated or occur-

ring within the colon.

intracollegiate (in trä-ko-lē'ji-āt), a. [L. inintracollegiate] Taking place or
intramesenterial (in trä-mez-en-tē'ri-al), a.

mesentery + -al¹.] In collenter posed to intercollegiate: as, intracollegiate sports. New York Evening Post, Dec. 22, 1905.

intracorporeal (iu"trā-kôr-pô'rē-al), a. [L. mesenterial space, in coelenterates as the sea-anemones and corals, an endocede. Also called intraseptal space. intra-norainic (in"trā-mô-rā'nīk), a. [intra-norainic (in"trā-mô-rā'nīk), a. [intra-norainic (in"trā-mô-rā'nīk), a. [intra-norainic (in"trā-mô-rā'nīk)] anatomical structure called corpus.

intracorpuscular (in trä-kôr-pus'kū-lär), a. [L. nutra, within, + corpusculum, corpuscle, + -ar³.] Situated or occurring within a corpuscle, especially a blood-corpuscle.

intracutaneous (in "trä-kū-tā'nē-us), a. intra, within, + cutis, skin: see cutaneous.] Lying within the substance or between the layers of the skin.

intrad (in'trad), adv. [L. intra, within, + -ad3.] intranarial (in-trii-nā'ri-al), a. [L. intra, be-In a direction toward the interior of the body. tween, + nares, nostrils, + -ial.] Within the intradermic (in-trä-der'mik), a. [L. intra, within, + Gr. δέρμα, skin, + -ic.] Same as *intracutaneous.

intraduodenal (in"trā-dū-ō-dē'nal), a. [L. intra, within, + duodenum + -all.] Situated or occurring within the cavity of the duodenum. intradural (in-trä-dū'ral), a. [L. intra, within, + NL. dura + -all.] Lying between the layers of the dura mater.

intra-ecclesiastical (in "trä-e-klē-zi-as'ti-kal), ntra-ecclesiastical (Interpretation of the color of the c

occurs or exists within the church.

intra-epiphyseal (in*trä-epi-fiz'ē-al), a. [L. intra, within, + epiphysis + -e-all.] Situated or occurring within the epiphysis: noting resection performed through the epiphysis of a long bone: opposed to extra-epiphyseal resection, in which the division is made through the in, + nidus, nest, + -all.] 1. In neurol., being within a nidus or aggregate of nerve-cells: as, intranidal fibers.—2. In zoöl, being or occurring within a nest or colony of insects: opposed to *internidal.

intrafetation (in tra-fe-ta'shon), n. [L. intra, posed to internidal. within, + fetus + -ation.] The development in trans. An abbreviation of the Latin in transof a fetus or part of a fetus within another situ, in course of transit.

ntrafilamentar (in "trä-fil-a-men uar, a. tra- + filament + -ar3.] Situated within a fila- See *intransigeant.

ment: as, the intrafilamentar septum in the gill- intransigeant (an-tron-se-zhon'), n. [F.: see intransigent.] An intransigentist; specifically, intrafilamentar (in "trä-fil-a-men'tär), a.

intrafissural (in-trä-fish'ūr-al), a. [intra-+ fissure + all.] Sitnated within a fissure, as of the brain. Buck, Med. Handbook, H. 189.

intragastric (in-trä-gas'trik), a. [L. intra, within, + Gr. γαστήρ, stomach, + -ic.] Situ-

intraglacial (in-trä-glā'shial), a. [intra- + glacial.] Situated or occurring within the mass of a glacier; englacial: as, intraglacial drift. Dana, Manual of Geol., p. 958. intraglandular (in-trä-glan'dū-lär), a. [L. intra, within, + NL. glandula, gland, + -ar³.]

Intracanalicular growth is to be noted compressing intralingual (in-trā-ling gwal), a. [L. intra, one of the ducts. within, + lingua, tongue, f -all.] Situated within the tissues of the tongue.

intracanonical (in trä-ka-non i-kal), a. [in-intralocular (in-trä-lok ulär), a. [L. intra, tra-+canon+-ic+-all.] Of or pertaining to within, + NL. toculus + -ar3.] Situated that which is contained within the canon of within the loculi (chambers or cellular spaces) of any structure.

of any structure.

[L. intra, intramammary (in-trä-mam'a-ri), a. [L. inted within tra, within, + mamma, breast, + -ary.] Sitintransparency (in-trans-par'en-si), n. [intransparency] (intransparency) (intranspare

intramatrical, a. (b) Noting that part of a fungus or parasitic growth which lies within the host plant. See *extramatrical.

The connection of the ascus-layer thus formed with the intramatrical mycelium can be seen even when the asci

De Bary (trans.), Compar. Morphol. and Biol. of Fungi,

intramental (in-trä-men'tal), a. [L. intra, within, + mens (ment-), mind, + -all.] Existing within the mind: opposed to *cxtramental.

The intra-mental and the extra-mental objects are not different in kind as the Cartesians supposed, but rather, as Aristotle and the scholastics maintained, they differ only in position and in relational context.

Jour. Philos., Psychol. and Sci. Methods, May 26, 1904.

[intra- + mesentery + -all.] In collenterates, situated within a mesentery or inclosed between the two mesenteries of a pair.—Intra-mesenterial space, in colenterates, as the sea-anemones and corals, an endocole. Also called intraseptal space.

+ moraine + -ic.] Situated within, or relating to the area within, the curve of a lobate moraine. Geikie, Textbook of Geol. (4th ed.), p. 1342.

(4th ed.), p. 1642.
intramyocardial (in trä-mī-ō-kār'di-al), α.
[L. intra, within, + Gr. μνς, musele, + καρδία, heart, + -all.] Situated within the muscular intra partum (in trä pär'tum). [L.] During Buck Med. Handbook, II.

nostrils: usually with some qualifying phrase to indicate whether the anterior openings or the posterior nares are meant.

intranatal (in-trä-nā'tal), a. [L. intra, with-in, + natus, born, + -āl'.] Occurring during

Ante-natal, intra-natal, or neo-natal conditions. Encyc. Brit., XXXI. 304.

intraneous (in-trā'nē-us), a. [LL. intraneus, < intra, within: see intra-. Compare extraneous.]

fetus. Also called fetal inclusion and fætus intransigeance (an-tron-se-zhons'), n. [F.: in fætu. see *intransigency.] 1. Same as *intransi-

among artists.

intransigency (in-tran'si-jen-si), n. In politics, the quality of absolute irreconcilableness; dogged hostility; obstinate refusal to make compromise.

exists or takes place within an organism. ated within the stomach. Athenæum, Sept. intransitable (in-tran'sit-a-bl), a. [in-3 + Weismann (trans.), Germ-plasm, p. 107.—Intra- 26, 1903, p. 419.

Not possible for transit; impassable.

In intransitable gorges of the coast range of mountains. Geog. Jour. (R. G. S.), X. 64.

intransitive, a. 1. In gram.: (b) Noting the case which expresses the subject of the intransitive verb or the object of the transitive verb. (c) In Eskimo gram., noting the thing possessed. Also called objective. Barnum, Innuit Language, p. 12.

intransitivity (in-tran-si-tiv'i-ti), n. [intran-sitive + -ity.] The quality of being intransistate + -tay.] The quality of being intransitive, in any sense. Specifically, in math and logic:
(a) The quality or characteristic of being not transitive, that is, not necessarily transitive; that characteristic of a relation by which A's having it to B, and B's having it to C do not together always imply that A has it to C. (b) The quality or characteristic of being necessarily intransitive; that characteristic of a relation by which A's having it to B, and B's having it to C together always exclude A's having it to C. having it to C.

The treatise proper extends over 39 pages, the successive headings being as follows: . . . Abelian groups, groups of order a power of a prime, Sylow's theorem and its extensions, Hamiltonian groups, transitivity, intransitivity, Science, June 5, 1903, p. 904.

Centrally placed intransparencies, which cover the mail. Encyc. Brit., XXXI, 570. pupil.

intransparent (in-trans-par'ent), a. [in-3 + transparent.] Opaque; not transparent.

This newly-formed tissue [cicatricial in cornea] is always intransparent, and remains so, except in very young children, in whom it gradually, to a great extent, clears up.

Encyc. Brit., XXXI. 570.

Intrannclear cycle or stage, the life-cycle which is passed through by a parasitic micro-organism in the nucleus of one of the cells of its host: opposed to *cytoplasmic wide or stage.

intra-oral (in-trä-ō'ral), a. [L. intra, within, + os (or-), mouth, + -al¹.] Situated or occurring within the cavity of the month. Intra-orbital sulcus. See *sulcus.

intra-osteal (in-trä-os'tē-al), a. Same as intra-osseous.

intra-ovular (in-trā-ō'vū-lār), a. Sitnated within the egg or ovum. Compare *extra-

intraparenchymatous (in trä-par-eng-kim atus), a. [intra + parenchyma(t) + -ous.] Situated within the parenchyma of an organ. Buck, Med. Handbook, II. 109.

intraparochial (in "trä-pā-rō'ki-al), a. [L. in-

intrapericardiac (in"trä-per-i-kär'di-ak), a. Same as *intrapericardial.

Within the intrapericardial (in 'trā-per-i-kār'di-al), a. ying phrase [l. intra, within, + NL. pericardium + -all.] penings or Situated within the pericardium. Buck, Med. Handbook, I. 406.

intraperineal (in trä-per-i-ne al), a. [L. intra, within, + NL. perineum + -all.] Situated within the tissues of the perineum.

intraperiosteal (in "trä-per-i-os'te-al), a. Situated or occurring within or beneath the periosteum.

These weapons with an increasing tendency of intra-periosteal growth reached a large size in width and length and remained permanent structures. Proc. Zool. Soc. London, 1902, p. 218.

intraperitoneally (in-trä-per "i-to-ne 'al-i), adv. Within the peritoneal cavity. Record, March 28, 1903, p. 495. Med.

intrapial (in-tra-pi'al), a. [L. intra, within, + pia (mater) + -all.] Situated or occurring within the meshes of the pia mater.

intraplacental (in tra-pla sen'tal), a. [L. intra, within, + placenta + -all.] Situated within the substance of the placenta.

intrapleural (in-trä-plö'ral), a. [L. intra, within, + pleura + -all.] Situated within the pleural cavity.

intraplical (in-tra-pli'kal), a. [L. intra, within, + plica, a fold, + -all.] Lying within a fold or plication; interlamellar.

Ciliated discs are situated on the sides of long spurs or ingrowths from the interlamellar (intraplical) edge of the

Philos. Trans. Roy. Soc. (London), 1903, ser. B, p. 210. intrapolar (in-tra-pō'lar), a. In elect., lying between the poles: said of the region between the terminals of an electrolytic cell or between the poles of a magnet.

Philos. Trans. Roy. Soc. (London), 1894, aer. B, p. 765.

pologist, Oct.-Dec., 1903, p. 623. intraprostatic (in trä-prostatik), a. [intra-+ prostate + -ic.] Situated or occurring within

the prostate gland.

Intrapulmonary respiration, the respiration of the pulmonate Arachnida, where there is no respiratory motion of the body-wall.

intrapyretic (in'trä-pī-ret'ik), a. [L. intra, within, + Gr. πυρετός, fever, + -ic.] Occurring during the continuance of fever.

intraracial (in-trä-rā'sial), a. Oceur within a race. Compare with interracial.

The Interracial correlation of the mean numbers of stamens and piatils is very much greater than the mean intra-racial correlation between stamens and pistils, being to the latter nearly in the ratio of 12 to 7.

Biometrika, Feb., 1903, p. 152.

intrarectal (in-trä-rek'tal), a. [L. intra, within, + rectum + -all.] Situated within the

intrarachidian (in "trä-ra-kid'i-an), a. [intra-+ rachis (rachid-) + -ian.] Situated within the spinal canal.

intrascrotal (in-trä-skrō'tal), a. [L. intra, within, + scrotum + -all.] Situated within the scrotum.

intraselection (in "trä-se-lek'shon), n. [intra-+ selection.] In biol., a hypothetical struggle for existence between the constituent elements of an organ or organism, with the survival of those fittest for the organ or organism under the conditions in which it is placed.

Weismann'a "Intra-selection" also involves atruggle, in an obscure way.

J. M. Baldwin, Development and Evolution, p. 218.

intraseminal (in-trä-sem'i-nal). a. [L. intra, within, + semen (semin-), seed, + -all.] Lying within a seed; also, admixed with the spermatic finid. Nature, April 3, 1902, p. 519.—Intra-seminal development, the entire series of changes undergone by the embryo in the transformation of an ovule into a mature seed.

intraseptal (in-trä-sep'tal), a. [intra- + septum intraseptal space between a pair of mesenteries in Anthozaa.—Intraseptal space. Same as *intramesenterial space. intraserous (in-trä-se rus), a. [intra- + serum

+ -ous.] Occurring within the serum of the blood.

intraspecific (in trä-spē-sif'ik), a. [L. intra, within, + E. specific.] Relating to characters or processes which have to do with the internal organization of species. Thus evolution is an intraspecific phenomenon and heterism is in-

intrasporal (in-trä-spo'ral), a. Taking place within the spores.

intrastitial (in-trä-stish'al), a. Situated or occurring within the cells or fibers of an organ: opposed to interstitial.

intrastriate (in-trii-strī'āt), a. A term used by G. Elliot Smith to emphasize the distinctive relations of the various occipital sulci of the human and ape brain to the cortical area which contains the stria Gennari.

intrastromal (in-trä-strō'mal), a. [L. intra, within, + NL. stroma + -alt.] Lying within the stroma of any organ or other part.

intrasynovial (in tra-si-nō vi-al), a. [L. intra, within, + NL. synovia + -all.] Lying within the synovial cavity of a joint.

intratellural (in"trä-te-lü'ral), a. Same as

uated or occurring within the testicle.

uated or occurring within the testico.

intratrabecular (in'trä-trä-bek'ū-lär), a. [L. ward.

intra, within, + trabeculæ + ar³.] Being withintra, within, + trabeculæ + ar³.] Being withintra, within + trabeculæ or supporting tissue: as, an \(\lambda intro + versus, \text{ turned inward: see introvert.} \) intratrabecular network of blood-vessels.

intratracheal (in-trā-trā-kō-al), a. [L. intra, introvision (in-trō-vizh-on), n. within, + trachea + -all.] Situated or occur- sinn.] Introspection; inward v ring within the trachea.

intratubal (in-trä-tū'bal), a. [L. intra, within, + tubus + -alt.] Being within a tube: usually noting the Fallopian or Eustachian tube.

intratubular (in-trā-tū'bū-lār), a. [intra-+ intrude, v. t.—Intruded sheet. See ★sheet1.

tubule + -ar3.] Being within a tubule, especially within the renal tubules.

intrusive, a. 3. (b) Specifically, in geol. applied to those igneous masses which have

intrapontine (in-trä-pon'tin), a. [L. intra, intratympanic (in trä-tim-pan'ik), a. [L. inwithin, + pons (pont-), bridge, + -ine¹.] Sit-tra, within, + tympanum + -ic.] Situated or uated within or passing through the pons Va-occurring within the tympanic cavity or drum of the ear.

At this moment . . . the *intra-* and extra-*tympanic* pressures are equalized. Buck, Med. Handbook, I. 619. intraprecuneal (in trä-pre-kū'nē-al), n. A pressurea re equalized. Buck, Med. Handbook, I. 619.

fissure in the precuneal region of the human intra-urethral (in trä-ū-rē'thral), a. [L. in-brain anterior to the cuneus. Amer. Anthrotra, within, + urethra + -al¹.] Situated within the urethra

intravaginal (in-trä-vaj'i-nal), a. [L. intra, within, + vagina + -all.] Situated within the vagina.

intravertebral (in-trä-ver'te-bral), a. [L. intra, within, + vertebra + -all.] Situated or occurring within a vertebra; intraspinal. intravertebrally (in-trä-ver'tē-bral-i), adv. Within the body, or centrum, of a vertebra.

This intravertebrally situated cartilage has been erroneously described as chordal cartilage.

neously described as chordal cartilage.

H. Gadow, Amphibia and Reptiles, p. 12.

Intravital (in-trä-vi'tal), a. [L. intra, within, + rita, life, + -all.] Occurring during life. intra vitam (in'trä vi'tam). [L.] During life. — Intra-vitam staining, the staining of tissues during the life of the organism, in contradistinction to staining of the isolated parts after death. Such staining is more commonly spoken of as vital staining.

in-tree (in'tre), n. [Burm. eng or in + tree.] Same as eng.

intrench, v. t. 5. To incise; deepen the valley of (a stream).

If uplift permits a mature or old meandering river to entrench itself beneath its former flood plain, its new valley will be regularly curved, instead of irregularly crooked, as in its first youth.

W. M. Davis, Elem. Phys. Geog., p. 253.

Int. Rev. An abbreviation of Internal Revenuc. intrigant, u. II. a. Intriguing; plotting; maneuvering.

intrine (in-trin'), v. t.; pret. and pp. intrined, ppr. intrining. [in-2 + trine3.] To unite in a group of three. [Rare.]

That living Light which so proceeds from its Lucent Source that it is not disunited from It, nor from the Love which with them is intrined, through Its own bounty collects Its radiance.

C. E. Norton, tr. of Dante, Paradise, xiii. 84.

intrinsic, a. 5. In pathol., pertaining to the (which see, under camphor). internal parts or to the structures proper of inulaceous (in-ū-lā'shius), a. Belonging or an organ.—Intrinsic pressure, strain, variation. relating to the plant genus Inula, or to the *pressure

intro. An abbreviation of introduction. raseptal (m-tra-sep tail), a. [intra-+septam label.

alti-] Situated within a septum: as, the intro-active (in-tro-ak'tiv), a. [intro- + actraseptal space between a pair of mesentertive.] Acting within or upon itself; loosely, reciprocally active.

introceptive (in-trō-sep'tiv), a. [intro-+ (re)ceptive.] Receiving within itself or its own bounds.

introducer, n. 2. An instrument for introdueing an intubation-tube; an intubator.

introessive (in-trō-es'iv), n. [L. intro, within, + esse, be, + -ive.] In gram., noting the case which expresses motion 'into.' Better called illative.

traspecific diversification. Cook and Swingle. introitus (in-trō'i-tus), n. [L.: see introit.] intrasporal (in-trā-spō'ral), a. Taking place In anat., the entrance leading into a canal or eavity.

introjection (in-trō-jek'shon), n. [L. intro, within, + -jectio(n-), throwing.] The act of throwing within.

intromissible (in-trō-mis'i-bl), a. [L. intromissus, pp. of intromittere, intromit, + -ible.]
That can be intromitted or introduced.

intromissive (in-trō-mis'iv), a. That can intromit or let in (light); relating to intromission.

introrsal (in-trôr'sal), a. Same as introrse. introspectional (in-tro-spek'shon-al), a. Pertaining to or of the nature of introspection. [L. in- introsuction (in-trō-suk'shon), n. [intro-Lying suction.] A sucking inward.

introsuscept (in'tro-su-sept'), v. t. and i. intro, within, + suscipere (pp. susceptus), take

in.] Same as *intussuscept. intratesticular (in trä-tes-tik ü-lär), a. Sit- introtraction (in-trö-trak shon), n. [intro-+ The process or act of drawing in-

sion.] Introspection; inward vision.

introvolution (in trō-vō-lū'snon), n. [intro-+ rolution.] The act of involving, infolding, or inwrapping one thing within another; the coiling of something around itself.

forced their way between older rocks and have never reached the surface: contrasted with *extrusive. See intrusive rocks, under in-

trusive.—Intrusive abeets. See **sheet1.

II. n. In geol., a mass of igneous rock which has forced its way between older walls or strata, but has never reached the surface of the earth. Intrusives occur as batholiths, lac-

coliths, intruded sheets, and dikes.

Believing that assimilation by magmatic action of some kind is responsible for practically all the chambers occupied by those intrusives with which he is more or less intimately acquainted.

R. A. Daly, in Amer. Jour. Sci., April, 1903, p. 272.

intubate (in'tū-bāt), v. t.; pret. and pp. intubated, ppr. intubating. [L. in-2 + tubus, tube, + -ate².] To insert a tube into; specifically, perform intubation of the larynx.

Med. Record, July 25, 1903, p. 129.

intubator (in'tū-bā-tor), n. An instrument for inserting the tube in the operation of intubation.

intuent (in'tū-ent), a. [L. intuens (-ent-), ppr. of intueri, contemplate: see intuition.] Knowing by intuition; intuitive. intuitionalist, n. 2. Same as intuitionist.

Hutcheson, Reid . . . Wilson and Hsmilton . . . were all, more or less distinctively, intuitionalists,

Contemporary Rev., XI. 258. N. E. D.

To incise; cut down or intussuscept (in "tu-sept'), r. t. and i. [L. intus, within, + suscipere (pp. susceptus), take in. Compare *introsuscept.] To take up into y curved, instead of irregularly itself or into something else; invaginate.

A haunting tendency of modern conservatism to make the post and ante-mortem life intussuscept with each other.

Amer. Jour. Relig. Psychol. and Education, May,

[1904, p. 48]

intussusceptum (in "tu-su-sep'tum), n.; pl. intussuscepta (-tä). [NL.] The portion of bowel which is contained within the other in intussusception.

intussuscipiens (in "tu-su-sip'i-ens), n. The portion of bowel which contains the other in intussusception.

Inula camphor. Same as alant camphor

Inula camphor.

tribe Inulex.

inulase (in'ū-lās), n. [inul-in + -ase.] ferment which converts inulin into truitsugar.

inulate (in'ū-lāt), n. [inul-ic + -ate1.] A salt of inulic acid.

Inuleæ (i-nū'lē-ē), n. pl. [NL. (Cassini, 1812), < Inula + -eæ.] A large tribo of composite ⟨Inula + -eæ.] A large tribo of composite plants typified by the genus Inula, the elecampane family. It embraces 166 genera, subdivided into 9 subtribes. Besidea the elecampane and other large yellow-flowered plants it includes the cudweeds and life-everlasting, which have a very different aspect. inulin, n.—Soluble inulin. Same as \star inuloid.

inuloid (in'ū-loid), n. [inul-in + -oid.] A colorless compound, $C_6H_{10}O_5$, differing in properties from inulin only by its greater solu-It is contained in unripe Jerusalem

artichokes. Also called soluble inulin.

inutile, a. II. n. A useless thing.

A "what-not,' whose shelves bore a mock orange, a piece of glass in a curious chunk . . . and other inutiles, which kept their place merely because long occupancy had given them a permanent right of existence.

C. D. Stewart, Fugitive Blacksmith, i. .

inv. An abbreviation (a) of invented; (b) of inventor; (c) of invoice.

invaccination (in-vak-si-nā'shon), n. [in-2+ Inoculation with some other raccination. disease during the process of vaccination.

invaginator (in-vaj'i-nā-tor), n. An instrument used to introvert the tissues in the radical operation for hernia.

invar (in-vär'), n. [invar(iable).] The tradename of an alloy of steel and nickel which, when made with 36.2 per cent. nickel, has a coefficient of expansion for heat which is virtually zero: hence its name. It was discovered by Dr. Guillaume. Sometimes called Guillaume alloy, and also Sorres alloy, from the fact that the investigation of its properties was made at Sevres.

[intro- + vi- invariant. I. a. 2. In phys. chem., having a variance equal to zero. The variance (V) of a chemical system is expressed by the equation $V = c + 2 - \phi$, where e is the number of independent components and ϕ is the number of phases in which the system may exist

II. n. 2. An entity compounded of constituents, some of them subject to change or variation, which, despite this change, remains itself unchanged.— Natural invariant, an invariant constituted by the very nature of the thing to which it pertains: thus, the product of an altitude by its base is a natural invariant for the triangle; the product of an altitude by the area of its base is a natural invariant for gate +-ory.] Of or pertaining to investigais a natural invariant for the triangle; the product of an altitude by the area of its base is a natural invariant for the tetrahedron

invasion, n. 4. In phytogeog., the phenomenon invigilate, v. i. 2. To watch students in an of the movement of plants from an area of one characterinto one of a different character, and their colonization in the latter. It includes, according to F. E. Clements, the ideas both of nigration and of ecesis. (See *migration, 5, and *ecesis.) The same author distinguishes invasions as continuous or intermittent, complete or partial, temporary or permanent. First thus used by Goeze, 1882.

inventorize (in-ven'tō-rīz), v.; prep. and pp. inventorized, ppr. inventorizing. [inventor-y+-ize.] I, trans. To inventory; eatalogue: as, to inventorize the furniture in a house.

II. intrans. To make an inventory. Inverness coat, overcoat, or cape.

inverse. I. a. 3. In logic, with conclusion as

hypothesis and hypothesis as conclusion. If, in the true statement x is y, we simply interchange the subject and predicate, without any restriction, we get the *inverse* statement y is x, which may be false.

G. B. Halsted, Theoret. Elem. of Geom., p. 4.

Inverse point. See $\star point1$.

II. n. 2. In logic, a proposition made by simply interchanging the hypothesis and con-invincible, a.-Invincible ignorance. See *ignoclusion of another, without any restriction .-3. In math., an inverse point, curve, function, ratio, proportion, etc.—4. In rouge-et-noir, the triangular space in which bets are placed when wagering that the first card dealt fer a celor will not be the same color as the one that wins the coup: opposed to *coulcur. See rouge-et-noir.

rouge-et-noir.

inversion, n.—Absolute inversion, the substitution of |a|x| for |x|a, where |x| denotes the absolute value of x.— Center of inversion. See geometrical inversion, under inversion.—Diurnal inversion of the wind. See **eind2.—Inversion of temperature. See **temperature.—Origin of inversion, center of inversion.—Radius of inversion, the side of the square equivalent to the rectangle of the sects from the center of inversion to two inverse points.—Rule of inversion, the rule that if the hypotheses of a group of demonstrated theorems exhaustively divide the universe of discourse into contradictories, so that one must be true, though we do not know which, and the conclusions are also contradictories, then the inverse of every theorem of the group will necessarily be true.—Thermo-electric inversion, the change of direction of the electromotive force of a thermo-couple when the mean temperature of the junctions passes the neutral point of the two metals of which the thermo-couple is made.

inversor (in-vér'sor), n. [inverse +-or1.] That

inversor (in-ver'sor), n. [inverse + -or1.] That which transforms into the inverse.—Peaucellier's inversor, Peaucellier's cell.

invert, v. t. 3. In chem., to convert (canesugar) into a mixture of glucose and fructose. The operation, chemically considered, is a hydrolysis, that is, addition of water. The process is accompanied by a reversal of the direction of deflection of a ray of polarized light by the sugar solution: hence the term.

4. In music: (a) Of an interval, to transpose the lower tone an octave higher, so that it falls (usually) above the higher tone. (b) Of a melody or theme, to take its intervals in order downward instead of upward, thus making a new melody, but one whose relation to the or invokes. first is exact and intelligible. (e) Of a chord, invocative (in-vok'a-tiv), a. [invocate + -ivc.] to arrange its tones in any order in which the root is not in the bass.

Invert. An abbreviation (a) of Invertebrata; (b) [l. c.] of invertebrate.

invertase (in-ver'tās), n. [invert + -asc.] A ferment which inverts higher sugars to lower forms: specifically, a ferment which inverts cane-sugar to dextrose and levulose. Invertase occurs in many yeasts and other fund, in pollen-grains, in the beet-root, in many of the higher plants, and in some of the animal digestive juices. Also invertin. The specific ferment is also termed sucrase. cane-sugar to dextrose and levulose.

Invertebrate determinant. Same as zeroaxial determinant (which see, under determinant).

Inverted converter. See *converter, 3.

invertive (in-ver'tiv), a. [invert + -we.] Capable of producing inversion.

invertor, n. 2. That which turns in: said of certain muscles.

For if either the evertor or *invertor* is out of use the combined action of these muscles (as contrasted with their single action) becomes impossible.

Lancet, July 4, 1903, p. 56.

investigation, n.—Unit of investigation, the simplest form of the subject-matter of a science: a term employed chiefly in sociological discussion.

investigational (in-ves-ti-gā'shon-al), a. [investigation + -all.] Pertaining to or of the nature of investigation.

Investigational spparatus of great importance.
Science, Sept. 29, 1905, p. 387.

tion; given to investigation.

examination-room. See *invigilator. [Eng.] invigilator (in-vij'i-la-tor), n. One appointed to watch students during examination: proctors, examiners, and others are selected for this purpose. [Eng.]

invigorant (in-vig'or-ant), n. [invigor + -ant.] invigorating beverage of some kind; a tonie.

invigorative (in-vig'or-ā-tiv), a. [invigorate + -ive. | Invigorating; imparting vigor.

invinate (in-vī'nāt), v. t.; pret. and pp. invinated, ppr. invinating. [ML. invinare, embody in wine, < L. in, in, + vinum, wine.] To embody in wine: used in reference to the doctrine of transnbstantiation. See *invination. invination (in-vi-nā'shon), n. [NL. *invinatio(n-), < ML. invinarc: see *invinate.] In the eucharistic controversy, the doctrine that after consecration the blood of Christ is locally present or infused in the wine, which remains nnchanged.

II. n. 1. One who is invincible. Specifically-2. A member of an Irish society, organized in 1881, whose avowed object was "to remove all tyrants from the country."

See invirile (in-vir'il), a. [in-3 + virile.] Not manly; effeminate; not virile.

Ovid in Pentus, paling for his Rome Of men invirile and disnatured dames

Ovid in Pontus, paling for his Rome Of men invirile and disnatured dames.

Lowell, Cathedral, 1. 292. inviscation (in-vis-kā'shen), n. [NL. *inviscation(in-vis-kā'shen), n. [NL. *inviscation(n-), \langle L. inviscare, catch with bird-lime, \langle in- + viscum, bird-lime.] The act of smearing or mixing with glutineus matter; specifically, the act of mixing the food with the much property of the mouth.

of Iodine and aqueons ammonia. The substance so produced, however, varies in composition and is probably in the first instance nitrogen tri-loidie(NY3, or rather Ny16), readily changing to compounds containing hydrogen, of which the only one for which the name iodamide should be used is NH21 or N2H412.

iodantifebrin. [3º ō-dan-ti-feb'rin), n. [iod(ine) + antipyrin.] Same as *iodacetanilide.

iodantipyrin (iº ō-dan-ti-pī'rin), n. [iod(ine) + antipyrin.] A colorless crystalline composition and is probably in the first instance nitrogen tri-loidie (NY3, or rather Ny16), or rather Ny16, or rathe inviscation (in-vis-kā'shon), n. [NL. *invis-catio(n-), < L. inviseare, eatch with bird-lime, cous secretion of the mouth.

invital (in-vi'tal), a. [in-3 + vital.] Having no vitality; lacking life or lifelike appearance. in vitro (in vi'trō). [L.] Within glass, that is, a test-tube: said of chemical reactions, bacterial cultures. etc., obtained experimentally in the test-tube as contrasted with those occurring in vivo, that is, within the living bedv.

Serum obtained by Immunising with one race did not necessarily give more than a trace of reaction in vitro and none whatever in vivo when tested with another race. II. E. Durham, in Jour. Exper. Med., Jan. 15, 1901, p. 355.

body. See *in viiio.
invocable (in'vō-ka-bl), a. [NL. *invocabus,
invocare invoke.] That may be invoked or called on supplicatingly.

invocant (in'vo-kant), n. [L. invocans (-ant-), ppr. of invocarc, invoke.] One who calls upon

Invocatory; invoking.

involucrum, n. 3. In pathol., a wall of new osseous tissue inclosing the sequestrum in a case of necrosis.

involute, a. 3. Noting a form of tooth-profile, used in gearing, traced by a point at the end of a tangent as it is unwrapped from a basecircle. The base-eircle is the circle at the root of the teeth. All involute teeth of the same circular pitch will work together. They are much used in cases where the distance between the centers of the two shafts has to be eligibly variable. slightly variable.

involute (in'vō-lūt), v. i.; pret. and pp. involuted, ppr. involuting. [L. involvere (involutis), roll np: see involve.] To return to a normal condition.

The invasion of the non-hairy skin by the trichophyton fungus, all varieties of which cause at the beginning of infection a circular scaly pink patch that spreads peripherally with a pinkish border, and clears up or involutes in the central portion, leaving a faintly, yellowish tinge in its wake, thus forming a ring.

Buck, Med. Handbook, VII. 782.

invest, r. t.—Investing cartilage. Same as articular involuted, a. 2. Having returned to the normal state: noting specifically the interns after mal state: mal state: noting specifically the nterus after pregnancy.-3. Having undergone the retrograde processes peculiar to old age.

involution, n. 7. (b) The atrophic or regressive changes occurring in old age.—8. In biol., the possession by an organism which is adapted to conditions that are simpler than those under which its allies live, of an organization that is simpler than that of its allies, considered as

evidence of inverse or retrograde evolution. cylience of inverse or retrograde evolution. [Rare.]—Hyperbelic involution, an involution which has real double points (or lines).—Involution axis, in projective geom., the bearer of the crosses of coupled tangents of two conic pencils forming an involution.—Involution center, in projective geom., the bearer of the joins of coupled points of two conic ranges forming an involution.—Involution form. See *form.—Parabolic involution, an involution which has coincident double elements.—Point involution, in geom., one in which the elements are points.

involution-spore (in-vē-lū'shon-spor), n. Same

involutoric (in "võ-lū-tor'ik), a. Same as involutorial. - Involutoric transformation, that given

by (x-a)/(x-b) = -(y-a)/(y-b). involv, v. t. A simplified spelling of *involve*. inwrought (in-rât'), p. a. Wrought or worked in or into; having something (specifically, figures or patterns) worked into it.

inyala, nyala (in-yä'lä, nyä'lä), n. [S. African native name.] A South African antelope, Tra-gelaphus angassi, related to the bushbuck or harnessed antelope. The males are little over three feet high at the shoulder, of a bluish gray, with faint white markings.

Io. An abbreviation of Iowa.

Ioa (i-ô'a), n. [NL., < Gr. lôc, an arrow.] A genus of fishes known as darters, inhabiting the fresh waters of the southeastern United

iodacetanilide (î/od-a-set-an'i-lid), n. d(ine) + acetanilide.] A crystalline compound, C₆H₄.I.NH.C₂H₃O, prepared by the action of iodine on acetanilide. Also *iodantifebrin*.

iodamide (i-ō'da-mid), n. A violently explosive black powder produced by the interaction of iodine and aqueous ammonia. The substance

+ antipyrin.] A colorless crystalline compound, C₁₁H₁₁.I.N₂O, obtained by the action of iodine chlorid on antipyrin. Also iodopyrin.

iodated ($1'\bar{0}$ -dā-ted), p. a. [iod(ine) + -ate1 + -cd2.] In chem., charged with iedine as a constituent.

iodation (ī-ō-dā'shon), n. [iodate2 + -ion.] In chem., the process of causing iodine to be taken up as a constituent, as in the production of iodo-benzene from benzene.

iodhydrargyrate (ī "od-hī-drär'ji-rāt), n. chem., a double salt containing mercurie iodide as one component.

in vivo (in vi'vō). [L.] Within the living iodhydrate (ī-ōd-hī'drāt), n. [iodhydr-ic + body. See *in vitro. In chem., a salt of iodhydric or hydriodic acid. Same as hydriodate or iodide.

iodhydric (ī-ōd-hī'drik), a. [iod(ine) + dr(ogen) + -ic.] Same as hydriodic acid. [iod(ine) + hy-

iodhydric (i-ōd-hī'drik), a. [iod(ine) + hydrogen) + -ic.] Same as hydriodic acid.

iodide, n.—Alkaline lodide, a compound obtained by the action of iodine on alkali-metal, as potassium or sodium iodide.—Green iodide of mercury, mercurous iodide, Hg212—Lead iodide, a solid of bright yellow color, little soluble in cold water, more freely in boiling water. Its production by precipitation serves as a test for lead or for fodine.—Mercuric iodide, a substance obtsinable in two conditions which are dimorphous in crystallization, the one red, the other yellow in color. The brilliant scarlet of the former of these makes its production a valuable test for mercury and iodine respectively. The solution of mercuric iodide in an aqueons solution of potassium iodide, with the addition of a caustic alkali, forms the Nessler solution used to detect and determine minute quantities of ammonia, as in the examination of drinking water.—Nitrogen Iodide, a heavy black powder produced by the interaction of iodine and aqueons animonia. It explodes violently by friction or slight heating, being resolved into nitrogen gas and vapor of iodine. It readily undergoes change, with replacement of iodine by hydrogen atoms, and the derivatives so formed are sometimes referred to rather loosely as iodides of nitrogen or iodamides.—Palladious iodide, a substance obtained as a very dark-brown precipitate on addition of a soluble iodide to the solution of a palladious salt. Its production is often used as a delicate test for iodides, as in mineral waters.—Phosphonium iodide, the product of the union of phosphine or phosphureted hydrogen with hydriodic acid (PH3 + HI = PH41), analogous to ammonium iodide, with phosphorus in place of nitrogen.—Potassium iodide, a colorless solid, readily soluble in water and easily crystallized in cubes: manufactured, on a large scale, for use in medicine and photography.—Silver iodide, one of the haloid salts of silver extensively in use by photographers, forming an important part of the sensitive film to be expose in use by photographers, forming an important part of the sensitive film to be exposed to the action of light. It occurs sparingly in nature as the rare mineral lodyrite.— Sulphur iodide, the compound S₂I₂: used externally in medicine to a limited extent.

iodiferous, a. 2. Containing iodine as a con-

iodinated (i'ō-din-ā"ted), a. [iodine + -atel + -cd².] Charged with iodine, either in admixture or chemical combination.

iodine, n.—Churchill's todine caustic. See Church hill's *tineture of iodine. Jodine absorption, the taking up of iodine, usually into chemical combination, as by fats and oils, in which the quantity of iodine taken up by a given quantity of the oil is used as a means of identifying the latter. See Hübl *process.—Iodine candle. See *candle.—Iodine number, the number expressive of the quantity of iodine absorbed by a given amount of a particular fat or oil. See *iodine absorption and Hübl *process.—Iodine entoxid, a compound of two atoms of lodine and five of oxygen (1505). Also known as iodic anhydrid. It is decomposed by heat into iodine and oxygen.—Iodine trichlorid, a compound of one atom of iodine with three of chlorin. It forms lemon-yellow erystals, easily decomposed by heat into chlorin and the more stable iodine monochlorid.—Iodine violet. Same as dahlia, 3.—Iodine water, a solution of iodine in water. When saturated at common temperature it only contains one part of iodine for about 5,500 parts of water, but has a decided brown coler.

iodinize (i'ō-din-iz), r. t.; pret. and pp. iodinizized, ppr. iodinizing. [iodine + -ize.] Same

iodinize (i'ô din-iz), v. t.; pret. and pp. iodinized, ppr. iodinizing. [iodine + -ize.] Same as iodate or iodize.

as todate or tottze.

iodinophilous (î^{*}ō-di-nof'i-lus), a. [iodine + Gr. φιλείν, love.] Readily staining with iodine.

-Iodinophilous vacnole, in sporozoaus, as the Myxobolide, a vactole in the sporoplasm containing a substance which stains reddish brown with iodine and gives some of the reactions of glycogen.

iodiodide (î-ōd-î'ō-did), n. In ehem., same as

*iodo-iodide.

iodipin (î-ō'di-pin), n. A yellow, oleaginous addition-product of iodine and sesame-oil, containing either 10 or 25 per cent. of iodine: used

in syphilis, scrofula, etc.

An element in chemical terms, used in forming names of addition- and substitutioncompounds of iodine which are made by adding iodine solution to other bodies as alkaloids, as iodocinchonine, iodomorphine, iodostrychnine,

iodochlorid (i"ō-dō-klō'rid), n. In chem... compound in which iodine and chlorin are both combined with the same metal or basic radical: as, mercuric iodochtorid (HgICl).

iodo-eugenol (î"ō-dō-ū'jē-nol), n. Same as engenol-iodide.

iodoform, n. This substance, much used in surgery, is now prepared electrolytically from a mixed solution of alcohol with an alkaline carbonate and iodide.

iodogallicin (i"ō-dō-gal'i-sin), n. [iod(ine) + galliein.] A light, amorphous, gray powder, prepared by the action of bismuth oxyiodide on gallicin. It is an antiseptic.

iodoglycerin (i/o-do-glis'e-rin), n. [iod(ine)

iodohematin (i/o-do-hem'a-tin), n. [iod(ine) + hematin.] A substance analogous to hemin, in which hydriodic acid is combined with hematin in the place of hydrochloric acid.

iodohemol, iodohemol (i'ō-dō-hem'ol), n. [iod(ine) + hemol.] An iodine compound of hemol containing 16 per cent. of iodine: used

in syphilis, scrofula, etc.

iodohydrargyrate (ī"ō-dō-hī-drar'ji-rāt), [iod(ine) + hydrargyrate.] In chem., a double iodide of mercury and a more electropositive iodum (i-ō'dum), n. [NL.: see iodine.] The metal: as, (KI)₂.HgI₂, potassium iodolydrargy-iodum (i-ō'dum), n. [NL.: see iodine.] The metal: as, (KI)₂.HgI₂, potassium iodolydrargy-iodum (i-ō'dum), n. [NL.: see iodine.] The metal: as, (KI)₂.HgI₂, potassium iodolydrargy-iodum (i-ō'dum), n. [NL.: see iodine.] The

iodo-iodide (ī/o-dō-ī/o-did), n. $\lceil iod(ine) + io$ dide.] In chem., a compound of iodine with a muc.] In crem., a compound of forme with a basic-radical of which iodine is a constituent. I. O. F. An abbreviation of Independent Order odomercurate (1º0-do-mèr'kū-rāt), n. [io- of Foresters.] iodomercurate (i*o-dō-mer'kū-rāt), n. [io- of Foresters. d(ine) + mercurate.] Same as *iodohydrargy- I. of M. An abbreviation (a) of Instructor of

iodometry (i*ō-dom'e-tri), n. [iod(ine) + Gr. fishes inhabiting the Gulf of Mexico.

-μετρια, ζμέτρου, measure.] In chem., properly, I. O. G. T. An abbreviation of Independent the quantitative determination of iodine, usually by means of a standard solution of a thioion, n. 2. In phys. chem., one of the particles, sulphate or an arsenite, iodine acting in the presence of water as an indirect oxidizing agent. The term is often applied to the same process used in inverse form to determine, by means of a standard solution of lodine, some one of a number of substances capable of undergoing definite oxidation or deexidation. Starch and the Dextrins in Relation to Iodometry.

Science, Sept. 5, 1902, p. 365.

iodonium (ī-ō-dō'ni-um), n. [iod(ine) + -one

10d0hum (1-0-d0 in-uin), n. [ton(tne) + -tone + -tum.] The hypothetical, univalent, basic radical, IH₂. It is analogous to the radical ammonium, NH₄.

10d0phen (i^{*}0-dō-fen), n. [tod(ine) + phen(yl).] Same as *nosophen.

10d0phenin (i^{*}0-dō-fō'nin), n. [tod(ine) + phen(yl) + -tod) + -tod.] A brownish powder or crystalline compound, C₂₀H₂₅I₃N₂O₄, obtained by precipitating an acidulated aqueous solution

solution of iodine in water (Lugol's solution), by adding potassium iodide.

iodopyrin (i°ō-dō-pī'rin), n. [iod(ine) + (anti)-pyrin.] A trade-name for iodo-autipyrin, a substance used medicinally as an antipyretic Ionicism (i-on'i-sizm), n. [Ionie + -ism.] Same

and resolvent.

iodoso (1-ō-dō'sō), n. [iod(ine) + -ose + -o.]

The univalent racical, lO.—Iodoso benzene, an amorphous, explosive, basic compound, C₆H₅IO, prepared by the action of alkali on phenylchloriodonium chlerid, allalClo

iodospermin (ī/o-do-sper/min), n. [iod(ine) + Gr. $\sigma\pi\epsilon\rho\mu a$, seed, + -in².] A substance formed on treating seminal fluid with a modified Lugol's solution (an iodine preparation). The reaction is supposedly due to the presence of choline.

iodosulphate (i"ō-dō-sul'fāt), n. [iod(ine) + sulphate.] An iodine compound or addition-product of a sulphate: as, iodosulphate of

quinine, or herapathite.

iodosulphid (i*ō-dō-sul'fid), n. [iod(ine) + sulphid.] In chem., a compound in which iodine and sulphur are both united to the same metal or basic radical. Also called sulphiodide.

iodotherapy (i''ō-dō-ther'a-pi), n. [iod(ine) + Gr. θεραπεια, medical treatment.] The thera-

now prepared electrolytically from a mixed solution of alcohol with an alkaline carbonate and iodide.

iodoformism (1' $\bar{0}$ -d $\bar{0}$ -form-izm), n. [iodoform iodothyrin (1" $\bar{0}$ -d $\bar{0}$ -thi'rin), n. [iod(ine) + t-ism.] A condition induced by the poisonous action of iodoform.

thyr(oid) + -in².] A complex substance containing iodine, obtained from the thyroid gland, in which it exists in combination with a globulin as thyreoglobulin. Together with another albuminous substance belonging to the nucleoproteids thyreoglobulin forms the colloid substance of the gland. Also thyro-iodine.

+ glycerin.] A solution of iodine and potas- iodous (i'ō-dus), a. [iod(ine) + -ons.] In sham iodide in glycerol. chem., related to, containing, or resembling Iodous oxid and iodous acid are terms which by analogy would be given to compounds containing less oxygen than iodic oxid

or acid, but no such substances are known.

iodoxy (i'ō-dok-si), n. [iod(ine) + oxy(gen).]

The univalent radical, IO₂.

iodozone (i'ō-dō-zōn), n. [iod(ine) + ozone.]

A name given to an imaginary substance assumed to be a compound of iodine with ozone, or an iodine substitution product of ozone.

pharmacopeial name for iodino.

ioduret (î-od'ū-ret), n. [iod(ine) + -uret.] In chem., same as iodide: a form not now in general use.

iodometrical (i"ō-dō-met'ri-kal), a. Samo as loglossus; (i-ō-glos'us), n. [NL., ⟨ Gr. lóς, an arrow, + γλῶσσα, tongue.] A genus of gobioid iodometry (i"ō-dom'e-tri), n. [iod(ine) + Gr. fishes inhabiting the Gulf of Mexico.

bearing electric charges, which carry electric currents through the air or other gas. See ionone (i'o-non), n. [Gr. lov, violet, + -one.] \star electron, 2.

Preston . . . and Runge and Paschen . . . think it possible that atoms of related elements are composed of the same kind of ions, and that the properties of these clements are determined by the arrangement of the ions to the atom.

Energy. Brit., XXXII. 781.

Electronegative ion, electropositive ion. In phys.

Electronegative ion, electropositive ion. In phys. chem., the ion, consisting of an atom or of a group of atoms called a radical, which is produced by the electrolytic dissociation of an electrolyte and which moves toward the positive pole or anode is the electronegative ion or the anion. That which moves toward the negative pole or cathode is called the electropositive ion or cation.—Migration of ions, in phys. chem., the movement of electrically charged ions toward the anode and toward the cathode in electrolysis, which is the means by which an electric current is carried through an electrolyte. The frictional resistance to the motion of bodies as small as ions is enormous, and the velocities produced are small. A fall

of potential of one volt per centimeter causes the ions of hydrogen at 18° C. to move at the rate of less than 12 centimeters an hour, and all other ions move less rapidly. See Hittorf's *phenomenon.

-ion2. In phys. chem., the word ion added, as a suffix, to the abbreviated name of an atom or radical to form a name for the atom or radieal in the ionic state: thus chlorion means an atom of chlorin in the ionic condition; euproion or cuprilon, the ion of univalent and of bivalent copper.

ion. An abbreviation of *Ionic*.
ionic² (i-on'ik), a. [ion + -ic.] In phys. chem., of or pertaining to an ion or the ions which carry an electric current in electrolysis: see Arrhenius's theory of electrolytic or ionic *dissociation.

The frictional resistance of the liquid to the passage of the ions, the reciprocal of which is called the *ionic* fluidity.

J. A. Fleming, in Encyc. Brit., XXVIII. 14.

as Ionism.

ionium (i-ō'ni-um), n. [NL. See *ion, n., 2.]
A supposed disintegration-product of actinium from the disintegration of which radium, in turn, results. See the extract.

It has been found that uranium minerals contain a new radio-active element, to which the name "ionium" has been given. The chemical behavior of ionium is similar to that of thorium, from which it can not be separated by the usual reactions characteristic for thorium. Ionium emits an α radiation having a range of about 2.5cm in air, and probably also a β radiation. Results obtained on the growth of radium in solutions of ionium indicate that it is the immediate substance from which radium is formed. It is therefore undoubtedly a disintegration product of uranium intermediate between uranium X and radium. The relative activity of radium and ionium in minerals is in agreement with this assumption.

B. B. Boltwood, in Amer. Jour. Science, May, 1908, p. 381.

ionizable (i'ō-nī-za-bl), a. [ionize + -able.] Capable of being ionized: used both of electrolytes and of gases. It has been found that uranium minerals contain a new

trolytes and of gases.

ionization (i"ō-ni-zā'shon), n. [ionize + -ation.] In phys. chem.: (a) The electrolytic dissocia-tion of an electrolyte by solution or by fusion. (b) The process by which a gas is converted into a conductor of electricity; the state or condition of being ionized. See *electron, 2, *electron theory.

The very large ionization of mercury vapour is interesting, as this is a menatomic gas; the process of ionization must, therefore, involve much finer subdivision than the splitting of a molecule into atoms,
J. J. Thomson, in Encyc. Brit., XXVIII. 39.

Ionization coefficient. See ★coefficient.

ionize² (1'o-niz), r. t.; pret. and pp. ionized, ppr. ionizing. [ion + -ize.] In phys. chem.: (a) To separate into ious: said of the solvent in which an electrolyte is dissolved.

Sulphuric acid, which in the fairly strong solutions used by Thomson is only about half dissociated, gives a higher value for the heat of neutralization, so that heat must be evolved when it is *ionized*. . . . The problem of the cause of solubility still remains unsettled, but towards the explanation of *ionizing* power some advance has been made. *Energe*. Erit., XXVIII. 15.

(b) To produce ions in (air or other gas): said of Röntgen rays, of cathode and various other rays, of the electric field, of a glowing metal, and of violet light.

This equation has been verified in the case of a gas ion-ized by the Röntgen rays by Rutherford. Encyc. Brit., XXVIII. 26.

ionizer (ī'ō-nī-zer), n. Any device for producing the ionization of a gas or liquid.

ionograph (ī-on'ō-grāf), n. [ion + Gr. γράφειν, write.] An apparatus for recording automatically the state of ionization of the air or of any gas. It consists of an air-condenser, one plate of which is grounded through a high resistance while the other is connected to an electrometer. Sci. Amer. Sup., Dec. 24, 1904, p. 24, 230.

In chem., a hydro-aromatic ketone, made artificially from the citral of lemon-grass and other oils, possessing in a marked degree the odor of violet flowers, and hence used with advantage in modern perfumery.

ionoplasty (1'6-n $\overline{0}$ -plas-ti), n. [ion + Gr. $\pi \lambda a \sigma \tau \delta c$, formed, +- y^3 .] The deposition of metals by means of the cathodic discharge. Jour. of Phys. Chem., Nov., 1904, p. 583.

I. O. O. F. An abbreviation of Independent Order of Odd Fellows.

-iorl. [Also -iour; \(\) I. -ior, in comparatives, as inferior, superior, ulterior, junior, senior, etc. See -or4 and -er3.] A suffix of Latin origin occurring in adjectives and nouns from original

Latin adjectives in the comparative degree, as inferior, superior, interior, exterior, junior, senior, etc.

etc., COF. -cior, -ciur, later -icur, etc.] A suffix, the same as -or2, with a preceding vowel, representing a type derived from Latin -āt-or. Examples are savior, warrior, etc., and currior, curriour, etc., now currier, etc. In some words the termination -ior, -iour has been substituted for a similar suffix of other origin, as in havior, behaviour.

I. O. R. M. An abbreviation of Improved Order of Red Men.

I. O. S. M. An abbreviation of Independent Order of the Sons of Malta.

posits are well developed in Iowa.

ipado, n. Same as *ipadu. ipadu (ē-pā-dō'), n. [Tupi name.] In Brazil,

same as coeal,
I. P. D. An abbreviation of the Latin in præsentia Dominorum, 'in the presence of the
Lords' [of session].

locas, n.—Bastard ipecac, the St. Andrews cross, Ascyrum hypericoides.—False ipecac. Same as American ipecac, under ipecac.—Milk-ipecac, the flowering spurge, Euphorbia corollata.—Spurge-ipecac, white ipecac, the American ipecacuanha. Euphorbia Ipecacuanha.—Wild ipecac, (a) See wild 1. (b) The spreading dogbane, Apocynum androsæmifolium.—Weed-ipecac, Triosteum perfoliatum.

ipecacuanha-wine (ip-ē-kak-ū-an'ā-wīn"), n.
1. A medicated wine made by macerating ipecac in wine.—2. A medicinal wine made by adding 10 parts of fluid extract of ipecac Iridio (ī-rid'i-ō), n. [NL., ζ Gr. lρις (ἰριδ-), the to a mixture of 100 parts of alcohol and 800 rainbow.] A genus of labroid fishes, comparts of white wine: an emetic and expectorant.

ipecacuanhic (ip-ē-kak-ū-an'ik), a. [ipecac-uanha + -ic.] Of or relating to ipecacuanha.— Ipecacuanhic acid, a glucoside, related to tannic acid, found in the dried root of Evea Ipecacuanha.

Ipnopidæ (ip-nop'i-dē), n. pl. [NL., < Ipnops + -idæ.] A family of deep-sea fishes widely distributed.

Ipnops (ip'nops), n. [NL., $\langle Gr. i\pi\nu\delta c$, a lantern, $+ \dot{\omega}\psi$, eye.] A genus of deep-sea fishes of the family Ipnopidx.

 1po (i' pō), n. [NL. (Persoon, 1807), (Macassar ipo, the upas-tree, Ipo toxicaria.]
 1. A genus of dicotyledonous plants belonging to the family Moracee.
 See Antiaris.—2. [l. c.] An arrow poison prepared from upas-sap, Ipo toxicaria, by the Kenyahs in Borneo, who also use it internally as a medicine for malaria.

ipomeic (ip-ō-mē'ik), a. [Ipomæa + -ic.] Pertaiuing to or derived from plants of the genns Ipomæa.-Ipomeic acid. Same as ★ipomic or sebacic

ipomein (ip-ō-mē'in), n. [Ipomæa + -in2.] A colorless amorphous glucoside, $C_{78}H_{132}O_{36}$, found in the root of Ipomæa pandurata. It is nearly related to convolvulin and jalapin. iridio-platinum (ī-rid"i-ō-plat'i-num), n. Also ipomæin.

ipomic (i-pē'mik), a. [Ipom(æa) + -ic.] Same as ipomeic.-Ipomic acid. Same as sebacic acid.

ippi-appa (ip-ē-ä'pä), n. [Jipijapa, a town in Ecuador where fine Panama straw hats are made.] In Jamaica, a name applied to Carludovica Jamaicensis, from the leaves of which hats are braided. For making the hats only the finest straw is selected, the coarser being utilized for brooms and hand-baskets. The older leaves form an excellent and durable thatch for houses. Also called broom-thatch.

ipseity (ip-se'i-ti), n. [L. ipse, oneself, + -ity.] The quality of being oneself or itself;

irascibility.

Iran. An abbreviation (a) of Iranian; (b) of

Brotherhood.

Ire. An abbreviation of Ireland.

irenarchical (ī-rē-när'ki-kal), a. [Gr. εἰρηναρ-χικός, < εἰρην άρχης, irenarch, + -all.] Relating

or pertaining to the aucient peace-officer known

as irenarch, or to his functions.

irenarchy (î'rē-nār-ki), n. [irenarch + -y³.]

The office or position of irenarch (which see).

by the action of alkali on irigenin It crystallizes in needles and melts at 186° C. Also called 1, 2, 5-trihydroxy-2-methoxybenzene. iridal, a. 2. Relating to the iris of the eye.

iridate (ī'ri-dāt), n. [irid-ic + -atel.] In iris is torn away from the ciliary ring. chem., a salt of iridic acid, the hydroxid, iridokeratitis (ir'i-dō-ker'a-tī'tis), n. Ir(OH)₄. Also iridiate.

iridectomize (ir-i-dek'tō-mīz), v. i.; pret. and indecomize (if-rick to-intz), v. i.; pret. at pp. iridectomized, ppr. iridectomizing. [iridectomized, ppr. iridectomizing. [iridectomized, ppr. iridectomized]. To perform iridectomy.

Iowan, a. 2. In geol.. noting an epoch or subdivision of the glacial period of which the deiridial (i-rid'i-al), a. Same as iridaceous. pp. iridectomized, ppr. iridectomizing. [iridectom-y + -ize.] To perform iridectomy.

iridial (i-rid'i-al), a. Same as iridal. iridic¹ (i-rid'ik), a. [Gr. lpig (lpið-), rainbow, iris, +-ic.] Same as iridian.

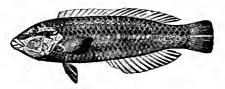
iridic 2 (ī-rid'ik), a. [irid-ium + -ic.] Pertaining to or containing iridious irigenin .- Iridic

acid, a colorless compound, (CH₃O)₂C₆H₂(ÖH)CH₂COOH, obtained, together with iretal, by the action of alkali on irigenin. 11 crystallizes in prisms and melts at 118° C. Also called 4, 5-dimethoxy-3-hydroxyphenyldaetic acid.

called 4, 5-dimethoxy-3-hydroxyphenytacetic acia.

iridico-. A combining form of iridic, used in compound names of double salts in which iridomalacia (iri-dō-ma-lā'si-ā), n. [NL., ζ iridium with apparently tetrad valence is presentid to the iridium with a pres iridico-. ent as a constituent: as, iridico-potassic chlorid, same as potassium chloriridate, K₂IrCl₆.

iridin (i'ii-din), n. [irid-ic + -in2.] A color-less glucoside, $C_{24}H_{26}O_{13}$, found in orris root. It crystallizes in colorless needles.



Iridio radiatus (From Bulletin 47, U. S. Nat. Museum.)

iridio-. A combining form of iridium, used in compound words, signifying the presence of iridium as a constituent: as, *iridio*-platinum, the alloy of 90 per cent. platinum with 10 per cent. iridium adopted as the material for the international standard meter and kilogram. Iridio- or irido- is used more specifically in the names of compounds in which iridium is present with apparently triad valence, as in iridiochlorid of potassium, same as potassium chloridite (K_3IrCl_6) .

alloy of iridium with nine times its weight of platinum. It is remarkably hard, elastic, and susceptible of high polish, and is attacked by very few chemical reagents. Besides its use for international standard weights and measures it has been employed to make telegraph-contact buttons, electrodes to be exposed to acid liquids, and wires to form part of high-temperature pyrometers. Also called platino-iridium.

iridious (ī-rid'i-us), a. In chem., containing irisin (ī'ri-sin), n. [Iris + -in².] A colorless iridium: applied to compounds in which iridium is trivalent, as IrCl₃. Compare rhizomes of the water-lily, Iris Pseudacorus, *iridic2.

+ iridite (i'ri-dit), n. [irid-ium + -ite².] In appearance and consists of microscopic spheres which the heaves, a salt of iridious acid, the hydroxid $Ir(OH)_3$ or $Ir_2(OH)_6$.

and a salt of iridious acid, the hydroxid $Ir(OH)_3$ or $Ir_2(OH)_6$.

and a salt of iridious acid, the hydroxid $Ir(OH)_3$ or $Ir_2(OH)_6$.

Gr. $l\rho\iota\varsigma$ ($l\rho\iota\delta$ -), iris, + $\kappa\epsilon\rho a\ddot{\varsigma}$ ($\kappa\epsilon\rho a\tau$ -), horn (cornea), + -itis.] Inflammation of the iris and cernea.

Iranie.

Ira eye.

iridocyst (ir'i-dō-sist), n. [Gr. lρις (ἰριδ-), iris, + κίστις, bag (cyst).] A cell which, in Sepia and other cephalopods, produces iridescent colors by the diffraction of light.

In addition to the chromatophores, the subepidermal tissues contain other modified connective tissue cells known as *tridocysts*; these cells are so modified as to produce lridescent colors by diffraction of light.

A. E. Shipley, Zool. of the Invertebrata, p. 220.

A colorless compound, $CH_3OC_6H_2(OH)_3$, obtained, together with iridic and formic acids, by the action of alkali on irigenin I tervstal-

iridodialysis (ir"i-dō-dī-al'i-sis), n. [NL Gr. ἰρις (ιρι'-), iris, + διάλνσις, separation.] form of coretomy or iridectomy in which the

as *iridoceratitis.

iridokinesis (ir"i-dō-ki-nē'sis), n. [NL., < Gr. iρις (iριδ-), iris, + κίνησις, motion.] Muscular movement of the iris causing dilatation or con-Muscular traction of the pupil.

iridol (ī'ri-dol), n. [Gr. ἰρις (ἰριδ-), iris, + -ol.] A colorless compound, $H^{0}C_{6}H_{2}$ (OCH_{3})₂ CH_{3} , prepared by the dry distillation of iridic acid. It is deposited in large crystals, melts at 54° C., and boils at 239° C. Also called 4, 5-dimethoxy-3-hydroxytoluene.

iridolin (i-rid'ō-lin), n. [iridol + -in².] A colorless basic compound, $C_{10}H_{9}N$, contained in coal-tar oil. It boils at 252-257° C.

iridomotor (ir"i-dō-mō'tor), a. [Gr. lpic (lpid-), iris, + L. motor, mover: see motor, a.] Relating to mevements of the iris.

iridoptosis (ir"i-dop-tō'sis), n. [NL., < Gr. lpις (lpιδ-), iris, + πτῶσις, falling.] Prolapse of the iris.

monly known as doncellas. They abound in irigenin (i-rij'e-nin), n. [iri(din) + -qen + -in².] A colorless compound, C₁₈H₁₆O₈, formed by the action of acids on iridin. It crystallizes in rhombohedra and melts at 186° C.

186° C.

iris, n. 10. The root of a species of iris cultivated in India and sold in the bazaars of Calcutta to be used, like the Florentine orrisreot, in perfumery and medicine.—11. The iridescence in fractured pieces of rock-crystal. When the fractures are cut out with the upper crystal itself and polished, they show a beautiful play of color. The name is also applied to rock-crystal and the cheaper stones to which color is applied by means of a coating on the back to produce the effect of a play of colors. A similar effect is produced by cementing various colored glasses together and then coating them.

Ouartz crystals are occasionally met with which are

Quartz crystals are occasionally met with which are iridescent within, an effect due to fractures and cavities in the interior. Such crystals are cut and sold under the name of iris. The irised effect is frequently produced by artificial means, usually by heating and then suddenly cooling the spacing. cooling the specimen.

Smithsonian Rep. (Nat. Mus.), 1900, p. 526.

Smithsonian Rep. (Nat. Mus.), 1900, p. 526.

Florentine iris, Iris Florentina. See Iris, 8.—Iris campher, the solid portion of oil of orris, consisting principally of myristicin.—Iris of a lens system, the stop or sperture which limits the divergence of the beam of light entering the system; the sperture of which the entrance-pupil is the image.—Scorpion iris, Iris alata, a handsome blue-flowered species of the Mediterranean region.

iris-coffee (ī'ris-kof"ē), n. The seeds of Iris Pseudacorus, sometimes used as a substitute for coffee.

Irish ague, cross, deer, diamond. See *ague, etc.— Irish lords. See *Hemilepidotus.—Irish penny. See

and in other plants. It closely resembles starch in appearance and consists of microscopic spheres which melt at 218° C. and are not doubly refractive.

the essential element of identity.

Ir(OH)₃ or Ir₂(OH)₆.

ipsographic (ip-sō-graf'ik), a. [L. ipse, oneself, Hidium blue. See *blue, n.

+ Gr. γράφειν, write, + -ic.] Self-registering; self-recording.

Ir. 3. An abbreviation of Ireland.

Ir. 4. Ir. 3. Ir. 3

The nido is exactly analogous to the Japanese Katakana script, in which modified forms of Chinese ideographs are used phonetically to express 47 syllables (the so-called I-ro-fa syllabary), raised to 73 by the nigori and maru diacritical marks.

kauon.

iroko (i-rō'kō), n. [Yoruba name in Lagos.] A valuable timber-tree of West Africa, Chlorophora excelsa, of the mulberry family. Its wood has a finely mottled grain and is much used for building purposes on account of its resisting the attacks of termites.

much used for building purposes on account of its resisting the attacks of termites.

iron, n. 2. (c) In gold, a club with an fron head considerably lofted so as to raise the ball.—A-iron, a compact and extremely hard form of fron made electrolytically, using an electrolyte of ferrous chlorid, ferrous snipliate, or ferrous ammonitum sulphate and an iron anode. It differs from B-A-iron (which see) in that it is harder, more compact, and of a silver-white instead of a grayish color. The use of the terms A-iron and B-iron should be discouraged, since they are liable to be confused with the alpha and beta modification of fron.—Alpha-iron, the allotropic modification of pure iron normal at all temperatures below Arg (760° C.). Alpha-iron is the most magnetic substance known. It crystallizes in the enbic system. On being heated above a temperature of 760° C., it changes into beta-*xiron (which see), with absorption of heat.—Beta-iron, an allotropic modification of iron existing between the temperatures of 760° and 900° C. (Arg and Arg.) Beta-iron is almost without magnetism and crystallizes in the cubic system isomorphically with alpha-iron. On heating above 900° C. beta-iron changes into gamma-iron, with absorption of heat, undergoing also a critical change in electric conductivity.—B-iron, a form of iron produced electrolytically. It differs from A-*iron (which see) by the fact that higher voltage and higher current density are used, and that the electrolyte contains bivalent iron in some complex form, while the anode is made of platinum instead of iron.—Carbide of iron, iron chemically combined with a creation which has been quickly cooled. The effect of this rapid cooling is to retain the whole, or the greater part, of the carbon (amounting to 3 or 4 per cent.) in solution or in chemical combined *carbon.—Chilled iron, castiron which has been quickly cooled. The effect of this rapid cooling is to retain the whole, or the greater part, of the carbon (amounting to 3 or 4 per cent.) in solution or in chemical combin purifying coal-gas, the manufacture of pigments, etc.—
Magnetic iron, magnetite.—Metallic iron, the metal
iron as distinguished from iron ores.—Meteoric iron.
See *meteorite.—Mitis iron, a very pure fron obtained
by meiting the best Swedish malleable scrapf in plumbage
crucibles. It is used for small castings, and about 1 per
cent. of aluminium, in the form of ferro-aluminium, is
added to insure sound casting.—Nitrate of iron, a sait
of iron, ferric eitrate; also, a workmen's name for impure
ferric sulphate made by oxidizing ferrous sulphate or
green vitriof with nitric acid, and much employed as a
dyers' mordant.—Parallel iron, a plane-iron of uniform thickness throughout its length; so called to distinguish it from those that are thicker at the lower end.

Passive iron, fron rendered non-corrosive by being form thickness throughont its length: so called to distinguish it from those that are thicker at the lower end.—Passive iron, iron rendered non-corrosive by being heated or treated with acid.—Pisolitic iron ore, concretioeary iron ore, usually limonite, in individual masses of about the size of a pea.—Pyrolignite of iron. See **exprolignite.—Quevenne's iron. Same as *reduced iron (which see, under *reduce).—Russia iron, a form of sheet-iron which has a smooth, glossy surface and does not rust. It is made in Russia (although limitations are also made in other countries) by a secret process which consists essentially of hammering the sheets when laid in pilea with powdered charcoal between the various sheets. Also called *Russian* iron.—Silvery iron, a fine-grained quality of cast-iron which has a light-gray color when fractured. The color is usually due to the presence of silicon as an alloy.—Strong iron, a name used by British foundrymen for a grade of cast-iron made by melting pigrion and scrap-castings in the cupola. By increasing the proportion of scrap, the tensile strength is raised. The pigrion used must be low in phosphorous, and the scrap must be taken from high-grade strong castings. Such iron will be indented by a hammer-blow without breaking and will have a tensile strength of 20,000 to 24,000 pounds per square inch.—Structural iron, a name applied to a variety of shapes of cross-sections of rolled iron and steel, such as angles, channels, tees, and Z-bars, used in atructural iron (which see, under tron)—White iron. See white iron iron (which see, under tron)—White iron.

ironbark (i'érn-bärk), n. In Australia, certain trees having a solid, close bark, especially species of Eucalyptus. See ironbark-tree.—

Broad-leaved ironbark, Eucolyptus siderophloia, the heavy, light-colored wood of which is especially preferred for spokes, heavy heams, cross-ties, and uses where great strength is required.—Gray fronbark, Eucolyptus crebra. See ironbark-tree.—Leguminous ironbark, a Queensland tree of the bean family, Erythrophleum chlorostachys, the red wood of which is considered the hardest in Australia.—Lemon-scented ironbark, Eucolyptus Staigeriona, the foliage of which yields a large quantity of volatile oil, having the odor of lemons or of the lemon verhena, Lippia citriodora.—Narrow-leaved ironbark. Same as gray *ironbark.

iron-blue (i'ern-blö), n. 1. A blue pigment made from the mineral vivianite.—2. In angling, a name applied to several artificial flics having a steel-blue color.

iron-clad, a. 3. Noting an electrical apparatus or machine in which the iron part of the structure completely or partly surrounds and thereby mechanically protects the electric conductors: as, an iron-clad armature, one having the conductors embedded in slots or holes.

The two-pole ironclad type [of field-magnet], so called from the exciting coil being more or less encased by the iron yoke. Encyc. Brit., XXVII. 584.

Iron-clad inductance, wire coil surrounded by laminated iron to give high self-induction.—Iron-clad motor, a motor in which the iron of the field surrounds and protects the armature field-coils, etc. See cuts of railway motors at *motor.

dextrorotatory oil, [Iris + -one.] A colorless irone (\bar{i} -ron'), n.

CH.CH₂.CH.CH₃

CHC(CH₃)₂CHCH: CHCOCH₃, the odoriferous constituent of orris-root. It boils at 144° C. under 16 millimeters pressure. Also called 3, 3, 5-trimethylcyelohexane (1')-4'butenulone.

iron-fall (i'ern-fâl), n. The fall of a siderolite, or iron meteorite. N. E. D.

iron-free (i'ern-fre), a. 1. Free from or not containing iron. 2. In a metaphorical sense, free from the danger of iron weapons.

ironhead, n. 2. Same as *ironweed, 3.

iron-headed (i'ern-hed'ed), a. 1. Fitted with Irpex (er'peks), n. [NL. (Fries, 1825), & L. an iron head or tip, as a spade or a mail.—2. irpex, hirpex, a kind of harrow.] A genus of an iron head or tip, as a spade or a mill.—2. Determined; stubborn; resolute; hard-headed. ironheart (i'ern-härt), n. Same as pohutu-[Australia.]

iron-holder (ī'ern-hōl"der), n. 1. A holder. made of cloth or other material, with which a hot flat-iron is handled.—2. An iron-stand. iron-hole (i'érn-hôl), n. The hole through which the iron is run out of a blast-furnace,

as distinguished from the *slag-hole.

ironing, n. 2. In metal., the adherence of irradiation, n. 3. In neurol., the diffusion of a imperfectly fused masses of iron to the twyers.

Phillips and Bauerman, Elements of Metalpath of conduction.

Baldwin, Dict. of Philos. lurgy, p. 250.

ironmongery, n. 2. Firearms. [Jocose.] All men have their delicate side, and it was Mr. Allin's to regard the open wearing of one's iron-mongery had form.

A. H. Lewis, Sunset Trail, x. as had form.

iron-pan (i'ern-pan), n. A variety of hard-pan whose particles are cemented by oxid of iron. [Rare.]

iron-red, n. 2. In chem., an oxid of iron, ferric oxid, or colcothar, used as a pigment.

iron-shears (i'ern-sherz), n. sing. and pl. 1.
A machine for cutting iron bars, plates, or rods; a power-shears.—2. Hand-shears for cutting thin sheet-metal or wire.

iron-shot (i'èrn-shot), a. Inclosing grains or streaks of iron, as an iron ore.

iron-stand (i'érn-stand), n. A cast-iron support upon which a hot flat-iron is rested.

iron-steel (i'ern-stel), n. A material made by welding steel surfaces upon an iron back. The latter remains tough when the steel face is hardened, thus giving strength or tonghness combined with a hard cutting-edge. It is used for shears, etc.

ironstone, n.—Ball-ironstone, Same as ★ball1, 27.
—Cleveland ironstone, a kind of elay ironstone (impure iron carbonate) found in the North Riding of Yorkshire, England: used as an ere of iron. Thorpe, Dict. Applied Chem., I. 570.—Ironstone china. (b) Same as white ★granite (which see).

iron-tree, n. 2. A name sometimes given to several species of the genus Metrosideros (which see).—Anstralian iron-tree, any one of several species of the genus Notelean, especially N. longifolia. See Notelea.—Java iron-tree, Metrosideros vera.—Norfolk Island iron-tree. Same as Metratian

iron-turner (ī'érn-tér"nér), n. A person who turns iron or steel in a lathe.

ironweed, n. 1. Also, any of the species of the genus
Vernonia, handsome composite plants of North America
See Vernonia.

able to use the perceptive powers.

irredential (ir-ē-den'shal), a. Pertaining to or advocating irredentism.

2. The blue vervain, Verbena hastata.—3. The black knapweed, Centaurea nigra. Also called ironhead. - Devil's ironweed. See *devil's-

ronwood, n. 2. In Polynesia, Casuarina equi-setifolia, a littoral tree with jointed leafless ronwood, n. branches and very hard and heavy wood: used branches and very hard and heavy wood: used by the natives for making spears. See horse-tail-tree and *agoho.—Ceylon ironwood, the Indian rose-chestnut, Mesua ferrea. See Mesua and nagkassar.—New Zealand ironwood. (a) Same as puriri. (b) A large tree of the myrtle family, Metrosideros lucida, yielding a very hard, strong, red wood, which is used for ship-building, spokes, hubs, and cross-ties for railways.—Queensland ironwood, any one of three trees of northern Australia, Acacia excelsa, a tall tree, the wood of which has the odor of violets; the ridge myrtle, Melaleuca genistifolia; and Myrtus gonoclada, a small tree with angled branches.—Santa Cruz ironwood, Lyonothamus forbundus, a rosaccons tree or shrub found on the islands of Santa Cruz, Santa Catalina, and San Clemente, off the coast of southern California. It sometimes sttains



a, upper part of a flowering branch showing inflorescence and pinnate leaves; b, a simple leaf; c, a fruiting corymb.
 (From Sargent's "Manual of the Trees of North America.")

a height of 40 feet and a diameter of 10 inches. It bears a height of 40 feet and a diameter of 10 inches. It bears very peculiar odd-pinnate leaves, as well as simple ones, and cymose corymbs of white flowers.—Scrub ironwood, a shrub or small tree of Queensland, Myrtus Hilli, yielding close-grained, hard wood of a light-gray color.—Seychelles ironwood, Northea Seychellana, a large tree of the family Sapotacese, which yields valuable timber for building purposes.—Small-leaved ironwood, Mouriri myrilloides, a low tree or shrub of Jannaica, Haiti, and Cuba, belonging to the family Mclastomacese.

hymenomycetous fungi of the family Hydnacce. The sporophore is usually resupinate or pileate and attached at one side, and the teeth are more or less irregular and flattened. About 70 species have been described, occurring on fallen trees and branches.

irradiate, v. t. 4. To subject to the therapeutic action of the Röntgen or other rays.

The patient suffering from malignant disease is irradiated without first submitting to tentative exposures.

Med. Record, Jan. 31, 1903, p. 168.

nervous impulse to parts outside the normal path of conduction. Baldwm, Diet. of Philos. and Psychol., I. 574.—4. In therap., subjection to the influence of X-rays or other form of radioactivity.

Still it seemed to be preferable to extirpate the tumorous portions, as far as it was possible, before resorting to irradiation.

Med. Record, Jan. 31, 1903, p. 169.

5. In anat., the disposition of fibrous or other structures in stellate form. Syd. Soc. Lex.-6. In chem., exposure to radiant light: as, some substances are said to phosphoresce by irradiation.

irrational. I. a.—Irrational equation, number. See ★cquation, ★number.

II. n. 2t. A prime number. -3. In math., an irrational number, that is, the mark of a cut which separates all rational numbers into two classes, the first having no greatest number, the second no least.— Transcendental irrational, a number which cannot be the root of an algebraic equation with integral coefficients. Such are e and π .

irrationalism (i-rash'on-al-izm), n. [irrational + -ism.) The principles of a system of thought opposed to rationalism; irrationality; the quality of not being guided by reason.

irrationalist (i-rash'on-al-ist), n. [irrational + -ist.] One who believes in irrationalism.

irrationality, n. 3. In math., incommensurability.—Algebraic irrationality, irrationality such that the number having it can be a root of an algebraic equation with integral coefficients.

irrationalize (i-rash'on-al-īz), v. t.; pret. and pp. irrationalized, ppr. irrationalizing. [irrational + -ize.] To deprive of rational principles; make irrational.

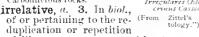
irrecognizant (ir-ē-kog'ni-zant), a. [in-3 + recognizant.] Incapable of recognizing; not able to use the perceptive powers.

or advocating irredentism.

Irregular opening, reflection. See *opening, *reflection.

Irregulares (i-reg-u-la' rez), n. pl. [NL., pl.

of *irregularis*, irregular.] An order of the *Blastoidea* in which one ambulacrum and the corresponding radial are different in form and size from the rest. This order embraces only 3 genera, Eleutherocrinus, Pentephyllum, and Astrocrinus, all rare, from the Devonian and Carboniferous rocks.



Irregulares (Eleuthero-crinus Cassedavi)

of like parts or organs without mutual relation.

irrepressive (ir-ē-pres'iv), a. [in-3 + repressive.] Same as irrepressible. Mrs. Browning, Aurora Leigh, iii.

irrespirate (i-res'pi-rāt), a. [in-3 + respirate.] Not respired. Stud. Yale Psychol. Lab., X. 103. irrespondence (ir-ē-spon'dens), n. [in-3 + respondence.] The state of not responding (to something); lack of respondence or re-

irrestrictive (ir-ē-strik'tiv), a. [in-3 + restrictire.] Not restrictive or subject to restriction. irresultive (ir-ē-zul'tiv), a. [in-3 + result + -ire.] Useless; without result; done in vain. irreticent (i-ret'i-sent), a. [in-3 + reticent.] Having no reticence.

irretractile (ir-ē-trak'til), a. [in-3 + retractile.] Not capable of being retracted or of retracting, as a metal.

irrevertible (ir-ē-ver'ti-bl), a. [in-3 + revertible.] Not reverting, as a lease; not alterable.

Irrg. E. An abbreviation of *irrigation engineer.*
irrigation, n.— Overhead irrigation, a method of applying water by pipes, tinnes, or troughs supported above the surface of the ground.— Sewage irrigation, the use, in irrigation, of sewage or waste water from towns or institutions, the object being the innocuous disposal of the waste water and also its use as a fertilizer.
irrigational (ir-i-gā/shon-al), a. [irrigation + isanomal (ī-sa-nom'al), n. [Gr. τσος, equal, -αΠ] Of or pertaining to irrigation; irrigations having equal anomalies of temperature,

irrigationist (ir-i-gā'shon-ist), n. [irrigation + -ist.] One who is interested, theoretically or isanomalous (i-sa-nom'a-lus), a. [Gr. $l\sigma\sigma c$, practically, in irrigation; a student of irriga-equal, + $a\nu \omega \mu a\lambda \sigma c$, irregular, + -ous.] tion.

irrigative (ir'i-gā-tiv), a. [irrigate +-ivc.] Relating to irrigation or serving to irrigate.

irritability, n. 4. In pathol., morbid responsiveness to stimuli.—Chemical irritability, the property of functional reaction to chemical stimulation on the part of an organ or a cell, as contrasted with mechanical or electrical irritability.

Irritable ulcer. See *ulcer.

a rotationally (11-o-ta shon-ar-1), acc. Not in a rotational way.

irrumpent (i-rum'peut), a. [L. irrumpens (-eut-), ppr. of irrumperc, break in; see irruption.] Irruptive; bursting in. [Rare.]

irrupt (i-rupt'), v. [L. irrumperc (pp. irruptus), break in: see irruption.] I. trans. To break in: see irruption.] I. trans. To break in: see irruption. or force through: generally used as a participial adjective: as, irrupted barriers.
II. intraus. To enter forcibly; rush in: as,

the enemy irrupted into the town.

A northern, and especially Seottish, form of -ish1, as in Scottis (contracted Scots) for Scottish, Inglis for Inglish (English), etc.

is. An abbreviation of island.
I. S. An abbreviation An abbreviation (a) of inside sentinel; (b) of Irish Society.

isabel, n. 2. One of the pigmy pouters: so ealled because of its general color (isabel yellow).

isabelita (iz″a-be-lē'tä), n. Same as isabelite. isabella-moth (iz-a-bel'ä-môth), n. Same as isabella tiger-moth" (which see, under tiger-moth). J. B. Smith, Econ. Entom., p. 266.

isacoustic (i-sa-kös'tik), a. and n. [Gr. iσος, isatinic (i-sa-tin'ik), a. [isatin + -ic.] Perequal, + ἀκουστικός, of hearing: see acoustic.] taining to isatin.

I. a. Of or pertaining to equality of sound: isatinsulphonic (i"sa-tin-sul-fon'ik), a. Perestriation of the stationary as, an isacoustic line or surface.

The isacoustic lines (or lines of equal sound-audibility) are very clongated curves, distorted along the rectilinear band.

Nature, March 17, 1904, p. 478.

Isacoustic curve, a curve passing everywhere through points of equal sound-intensity; specifically, in the acoustics of buildings, a curve indicating the positions in a room in which the hearing is equally good.—Isaconstic surface, a surface passing everywhere through points of equal intensity of sound. Such surfaces are used, in of equal intensity of sound. Such surfaces are used, in architectural acoustics, in determining the proper arrangement of sittings in an auditorium.

II. n. A line or eurve, upon a diagram of acoustic intensities, drawn everywhere through points of equal intensity of sound.

isactinic (ī-sak-tin'ik), a. [Gr. lσος, equal, + ἀκτίς (ἀκτψ-), ray, + -ic.] Having equal intensity of actinic action.—Isactinic line, a line connecting points of equal actinic intensity.

isadelphia (i-sa-del'fi-ii), n. [NL., ⟨Gr. tσος, equal, + ἀδελφός, brother.] A condition in which well-formed twins, capable of indewhich well-formed twins, capable of inde-pendent existence, are united by bands of little or no vital importance.

Isaian (i-ză'yan), a. [Isaiah + -an.] Of or pertaining to the prophet Isaiah.

isametral (i-sa-met'ral), a. and n. equal, $+ \mu \epsilon \tau \rho v$, measure, + -al.] I. a. Having the same abnormal climatic features during any specific season or year or average of years.

II. n. A line connecting stations on the earth so characterized.

 $\begin{array}{lll} \textbf{isamic} & (\textbf{i}\text{-sam'ik}), \ a. & [is(atin) + am(monia) \\ + \cdot ic.] & \textbf{Noting an aeid, } \textbf{C}_{16}\textbf{H}_{13}\textbf{O}_{4}\textbf{N}_{3}, \ \textbf{prepared} \\ \textbf{by the evaporation of ammonium} \\ \end{array}$ isatate. It crystallizes in rhombohedral laminæ of the color of sublimed mercuric iodide, or in ruby-red thick hexagonal prisms, and is readily converted into isamide.

isamide (i-sam'id), n. [isam-ic + -ide¹.] A yellow pulverulent compound, $C_{16}H_{14}O_3N_4$, formed, together with isatic acid, by the evaporation of ammonium isatate.

Irrg. E. An abbreviation of irrigation engineer. isangelical (i-san-jel'i-kal), a. [Gr. irrigation, n.— overhead irrigation, a method of equal, + ἀγγελικός, < ἀγγελος, angel.] ίσος,

We may venture to call this resurrection-hody of the just also an "angelical" or "isangelical hody." Cudworth, Intell. Syst., III. 314. Ischiatic foramen. Same as ilio-ischiadic *for-

places having equal anomalies of temperature, pressure, or other meteorological element.

equal, + ἀνώμαλος, irregular, + -ous.] Having equal anomalies or departures from average values.—Isanomalous line, a line passing through places which have equal departures from the normal.

Maps of isotherms and isonomalous lines for January and July.

Geog. Jour. (R. G. S.), XV. 662.

isanomaly (i-sa-nom'a-ii), n. [Gr. iσος, equal, + ανωμαλία, irregularity.] An equal anomaly or departure from the average.

Irritable ulcer. See *ulcer.
Irrotational ellipsoid. See *ellipsoid.
irrotationally (ir-ō-tā'shon-al-i), adv. Not in a rotational way.
irrumpent (i-rum'pent), a. [L. irrumpens (-eut-), ppr. of irrumperc, break in; see irruption | Irruptive; bursting in. [Rare.]

departure from the average.
isanther (i-san'ther), n. [Gr. loog, equal, + avθηρός, blossoming, blooming.] A line connecting places at which a given variety or species of plant blossoms at the same date.

Quetelet, 1845.

isantheric (i-san-ther'ik). a. [isanther + -ic.] Of or pertaining to an isanther; having the property or habit of blossoming simultaneously.

isapiol (1-sap'i-ol), n. [Gr. loog, equal, Sapiol (1-sap 1-o), n. [Or. 1005, equal, T. E. apiol.] The methylene-dimethyl ether of 2, 3,4,5-tetrahydroxy-1-propen-1'-ylbenzene, CH₂:O₂:C₆H(OH)₂CH:CHCH₃. It is formed by heating apiol with sodium ethylate, and crystallizes in prisms which melt at 44° C.

isat-. A combining form used in chemistry to designate compounds related to isatin and indigo.

isatan (i'sa-tan), n. [isat(in) + -an.] A colorless compound, $C_{32}H_{26}O_6N_4$, prepared by the reduction of isatin, by means of sodium, in acid solution. It crystallizes in small cubes.

isabelle, n.—Manteau isabelle, the trade-name for the reddish layer formed by exposure to the atmosphere on the outside of Marseilles mottled soap. Its production is due to oxidation of the iron which is present in small quantity.

isabelline, σ. II. n. Same as isabel. Proc.

isabelline, σ. III. n. Same as isabel. Proc.

isatim de (i-sat'i-mid), n. [isat(in) + imide.]

A yellow compound, C₂₄H₁₇O₄N₅, formed, together with imasitin, by the action of ammonia on isatin. It erystallizes in rhombic plates.

taining to a sulphonic acid derived from isatin. —Isatinsulphonic acid, a yellow compound, C₈H₄O₉-NSO₃H_{.2}H₂O, prepared by the oxidation of indigosulphonic acid. It forms silky, lustrous crystals.

isatogenic (î″sa-tō-jen'ik), a. [isat(in) + -gen + -ie.] Noting an acid, a highly unstable compound, C_6H_4 CO C — CO_2H , formed by the $\sqrt{2} = 0$

intramolecular rearrangement of orthonitrophenol-propiolic acid under the influence of sulphuric acid.

isatoic (i-sa-tō'ik), a. [isat(in) + -o- + -ic.] Noting an acid, a colorless compound, CO COO

NCOOH, or $C_6H_4 < NHCO$, prepared $C_6H_4 \leftarrow 1$ by the oxidation of isatin, or by the action of

ethyl ehlorformate on anthranilic (orthoam-inobenzoic) acid. It crystallizes in small needles and melts and evolves carbon dioxid at 230° C. Also called anthranilcarboxylic acid. isatropic (i-sa-trop'ik), a. [Gr. ioo, equal, + E. atropic.] Noting three isomeric acids designations.

nated $\dot{\gamma}$, δ , or ε , according to the position of the substituting groups. They are colorless compounds,

HOCOCH-CHC₆H₅, melting at 274°C., 206°C., and 225°C., respectively. They are formed by the prolonged heating of atropic acid, and are somewhat closely related to ecgonine and cocaine. Also called diphenyl-cyclobutane-dimethyl acids.

isatyd (i'sa-tid), n. The preferred form of isathyd.

I. S. C. An abbreviation of Indian Staff Corps. Iscariotism (is-kar'i-ot-izm), n. [Iscariot + -ism.] An act characteristic of Judas Iscariot; treachery or meanness and over-economy, as in the application of charitable or church funds.

ischiac (is'ki-ak), a. An erroneous form for ischiatic.—Ischiac border, the free margin of the ischium. In birds there is a lower ischiac border adjoining the publis, a posterior border, and, in ostriches and their allies, a superior border, ischialgic (is-ki-al'jik), a. [ischialgia + -ic.] Relating to or affected with ischialgia or scitics.

ischiatica (is-ki-at'i-kä), n. [NL., a medial form between ischiadica and its altered phase sciatica: see sciatica.] Same as sciatica.

ischiodidymus (is ki-ō-did'i-mus), n.; pl. ischiodidymi (-mi). [NL., ζ Gr. iσχίον, the hip-joint, + δίδυμος, twin.] A double monster in which union exists in the region of the hip.

ischiofemoral (is"ki-ō-fem'ō-ral), a. [Gr. $i\sigma\chi$ iov, hip-joint, + L. femur, thigh, + -al1.] Pertaining to both the ischium and the thigh. ischiognathite (is-ki-og'na-thit), n. [Gr. iσχίον, hip-joint, + γνάθος, jaw, + -ite².] In crustaceans, the third joint of a gnathite or foot-

ischio-innominate (is "ki-ō-i-nom'i-nāt), a. In anat., relating to both the ischium and the innominate bone .- Ischio-innominate index. See

ischiopagus (is-ki-op'a-gus), n.; pl. ischiopagi (-ji). [NL., ⟨ Gr. iσχίον. hip-joint, + πηγνίναι, fasten.] A double monster united by fusion of the ischia.

ischiopubis (is "ki-ō-pū'bis), n.; pl. ischiopubes (-bēz). [NL., < ischium + pubis.] A bony plate, in the pelvic arch in the extinct stegoeephalian Amphibia, produced by the union of the ischium and the pubis.

ischiosis (is-ki-ō'sis), n. [NL., < ischium + -osis.] Same as sciatica.

Ischnochitonidæ (isk/nō-kī-ton'i-dē), [NL. *Ischnochiton (< Gr. ioχνός, thin, lean, + NL. Chiton, a genus of mollusks), + -idæ.]
A family of mesoplacophorous chitons having the surface of the intermediate valves divided by a diagonal rib. It occurs in the Tertiary rocks and present seas.

ischnophony (isk-nof'ō-ni), n. [Gr. $i\sigma\chi\nu\delta\phi\omega\nu\sigma c$, thin-voiced ($\langle i\sigma\chi\nu\delta c$, thin, + $\phi\omega\nu\eta$, voice), + $-y^3$.] Weakness or feebleness of voice.

ischochymia (is-kō-kī'mi-ā), n. [NL., irreg. ⟨ Gr. iσχευ, hold back, + χυμός, juice (see chymc¹).] Retention of food in the stomach iu eonsequence of arrest of the process of diges-

ischogalactia (is "k̄ō-ga-lak'ti-ਬ̄), n. [NL., \langle Gr. $i \sigma \chi \varepsilon \nu \nu$, hold back, $+ \gamma \dot{\alpha} \dot{\gamma} \alpha \dot{\gamma} \alpha \dot{\gamma} \alpha \dot{\kappa} \tau$ -), milk.] Suppression of the secretion of milk.

ischomenia (is-kō-mē'ni-ā), n. [NL., $i\sigma \chi \epsilon \iota v$, hold back, + $\mu \bar{\eta} \nu \epsilon \varsigma$, menses.] Same as amenorrhea.

ischuric (is-kū'rik), a. [ischuria + -ic.] 1. isoagglutinate (ī"sō-a-glö'ti-nāt), v. t. and i.; Of or pertaining to ischuria.—2. Same as pret. and pp. isoagglutinated, ppr. isoaggluti-

Ischyodus (is-kī'ō-dus), n. [NL., irreg. < Gr. iσχιειτ, be strong, + οδοίς, a tooth.] A genus of extinct selachian fishes, belonging to the family Chimæridæ, which has been found in nearly complete skeletons in the Jurassic slates of Bavaria. They have the upper part of the face covered with a thick layer of dentin and the edge of the month sharp. Both lower and upper dental plates bear four rough tritors.

Ischyromyidæ (is#ki-rō-mī'i-dē), n. pl. A famlschyromyidæ (is ki-rō-mi i-ue), n. pt. Alam ily of small, extinct, rodent mammals whose remains occur in the White River Oligocene.

Alston, 1876.

[Also isocidomal, 1902, p. 858.]

[Also isocidomal, 1902, p. 858.]

iseidomal (ī-sī'dō-mal), a. [Also isocidomal, iseidonal, isocidonal (the original formation being erroneous and thus subject to conjectural emendations); irreg. (Gr. isoc, equal, + eisonal, against cells of animals of the same species, I see, + -all.] Affording an equally good view: applied to a curve or surface passing isoamyl (î-sō-am'il), n. [Gr. isoc, equal, + E. through the various points, in a theater or hall, from which the view of the stage is

CH3>CH.CH2CH2. equally good.

isenergic, a. II. n. In thermodynam., a line which denotes graphically an operation such that the system operated upon neither gains nor loses energy.

isenite (i'sen-it), n. [NL. Iscna, the Eis, a small tributary of the Rhine, Germany, + -ite2.] In petrog., an olivin-bearing amphibole and biotite-andesite with basaltoid character. isoamylate (ī-sō-am'i-lāt), n. [isoamyl + -ate1.] Bertels, 1874.

Isentropic curve. See *curve.

iserite (î'zer-ît), n. [iser(in) + -ite2.] Same as iserin.

is thionic (i-seth-i-on'ik), a. [Gr. looc, equal, + E. cthionic.] Pertaining to an isomeric variety of ethyl-sulphuric acid.—Isethionic acid, a colorless compound, IIOCH₂CH₂SU₂H, Isomeric with ethyl-sulphuric acid, prepared by the action of sulphur trioxid on ether or shoolute alcohol. It is crystalline, evolves water at 20% C., and is also called 1-ethanol-2-sulphuric acid. phonic acid.

Ishmaelitic (ish/mā-e-lit'ik), a. [Ishmaclite + -ic.] Same as Ishmaelitish.

Isidæ (is'i-dê), n. pl. [NL., \(Isis + \)-idæ.] isobar, n. 2. In thermodynam., a line or curve A family of gorgonacean alcyonarians having determined by the equation of state (pv = RT) an axis consisting of alternating horny and calcareous portions. It includes several genera, among them Bathygorgia, Isis, and Mopsea.

isinglass, n.—Bengal isinglass, agar-agar (which isobaric, a. 2. In math., having all terms of see). See also isinglass, 1.

Isis, n. 2. The typical genus of the family Isidæ. Linnæus.

isl. An abbreviation of island.

Islamist (is'lam-ist), n. [Islam + -ist.] An adherent of Islam; an Islamite.

island1. n. 4. In anat., any circumscribed island¹, n. 4. In anat., any circumseribed portion of tissue or aggregation of cells differing in structure from the surrounding parts.—Brazilian island, a height of land in the southern part of the state of Goyaz, Brazil, from which the drainage radiates into several of the great rivers of South America. Geog. Jour. (R. 6. S.), IN. 64.—Continental island, an island adjoining a continent and strictly a part of the same elevated mass, although separated by shallow sea. Dana, Manual of Geol. (4th ed.), p. 22.—Islands of Langerhans, collections of cells in the interstitial tissue of the pancreas, thought to be independent ductiess glands furnishing an internal secretion.—Island of safety or refuge. See *isle of safety.

II a. Isolated: separate.—Island case a

II. a. Isolated; separate.—Island case, a special, isolated ase in which particular specimens for scientific collections are packed for transportation.—Island platform, in railroading, a platform between two tracks: used at way-stations for convenience in transferring passengers and for safety in preventing passengers from crossing the tracks. It is reached from the waiting-rooms by means of bridges over or subways under the tracks, and connecting stairways.—Island universe.

See *universe.

Isle or island of safety, a short platform, generally protected by posts, placed in the middle of a husy street as a convenience and a temporary stopping-place in crossing the street and as a place of safety in avoiding passing vehicles. Also called refuge.

islet, n. 3. An isolated piece of organie tissue; a cluster of cells; specifically, one of the islands of Langerhans.

I. S. M. An abbreviation of the Latin Iesus Salvator Mundi, Jesus Saviour of the World.

I. S. O. An abbreviation of Imperial Service

Order.
80. 2. In the names of chemical compounds, iso-. used to imply 'of equal or like formation' or 'isomeric,' distinguishing a compound from one isomeric with it. Of two such substances, that having the more complex structure or the one discovered later bears the prefix. 8.-42

nating. [Gr. iσος, equal, + E. agglutinate.] To produce isoagglutination in; undergo isoagglutination.

The serum from such blood was also isoagglutinating to some extent, that is, it would agglutinate the red cells of another individual.

Alien. and Neurol., Aug., 1904, p. 386.

isoagglutination (1″sō-a-glö-ti-nā'shon), n. [Gr. iσος, equal, + E. ayglutination.] The agglutination of cells of an animal of one species by the corresponding agglutinins of another

isoagglutinin (i"sō-a-glö'ti-nin), n. [Gr. ίσος, equal, + E. agglutinin.] An agglutinin directed against cells of animals of the same species,

 $_{\mathrm{CH}_{3}}^{\mathrm{CH}_{3}}$ >CH.CH $_{2}$ CH $_{2}$. CH_3

Its derivatives, such as isoamyl alcohol, isoamyl iodide, etc., are prepared from certain portions of fusel-oil.

isoamylamin (i"sō-a-mil'a-min), n. [isoamyl + -in².] A poisonous ptomaine, C₅H₁₃N, probably derived from leucin: found in cod-

The name of a metallic derivative of isoamy alcohol.

isoanemonic (i*sō-an-e-mon'ik), a. [Gr. loo, equal, + E. ancmonic.] Noting an acid, a compound, C₁₀H₁₀O₅, formed, together with anemonin, by the spontaneous decomposition of anemone camphor from Ancmone pulsatilla.

or anemone camphor from Anemone pulsatilla. isoapiol (i-sō-ap'i-ol), n. [Gr. looc, equal, + E. apiol.] A colorless compound, C₆H(CII: CHCH₃)O₂:CH₂(OCH₃)₂, prepared by the action of alcoholic potassium hydroxid on apiol. It crystallizes in large leaves or quadratic plates, melts at 55-56° C., and boils at 303-304° C.

determined by the equation of state (pv = RT) of a system when p has any constant value; a line of equal pressures. E. Buckingham, Theory of Thermodynamics, p. 23.

equal weight.—Isobaric algorism. See *algorism.
II. n. In thermodynam., a line or surface of

equal pressures; an isobar.

The isobarics of evaporation happen to be isothermals—not by reason of anything that can fairly be called physical accident, because it is the conjunction of corresponding critical pressures and temperatures that determines the evaporation always by controlling and steadying the pressure and never by controlling and steadying the temperature.

The Engineer, July 24, 1903, p. 83.

isobase (ī'sō-bās), n. [Gr. iσος, equal, + βάσις, base.] An imaginary line passing through all base.] An imaginary line passing through all points which have undergone the same amount of deformation from their original position. R. D. Salisbury, in Geol. Surv. of New Jersey, 1893, p. 321.



Map of the Great Lakes, showing pairs of gaging-stations and isobases of outlets.

The isobases are marked by full lines; broken lines show the pairs of stations.

isobasial (i-sō-bā'si-al), a. [Gr. $i\sigma\sigma_c$, equal, + $\beta \acute{a}\sigma\iota_c$, base, + $-al^4$.] In craniom, having a skull the basion and opisthion of which are on the same level in relation to the horizontal plane of the skull.

isobath (\bar{i} 'sō-bath), n. [Gr. $i\sigma\sigma_{c}$, equal, + $\beta a\theta\sigma_{c}$, depth.] 1. A line connecting places that have the same depth below sea-level; an isochrone (\bar{i} 'sō-krōn), n. [Gr. $i\sigma\delta_{\chi\rho\sigma\nu\sigma_{c}}$, equal isobathymetric line.—2. An imaginary surin time, $\langle i\sigma\sigma_{c}$, equal, + $\chi\rho\delta\nu\sigma_{c}$, time.] 1.

face passing through all points in a body of water which have the same depth below the

Warm currents follow the trend of deepest isobaths, ice

rent can melt them.

Nature, Oct. 29, 1903, p. 632.

isobathic (ī-sō-bath'ik), a. [isobath + -ic.]

Pertaining to an isobath; indicating equal depths below the surface of a body of water.

Towards the west this wall of limestone does not rise as high above the water, although the adjacent soundings are still so deep that the 100-metre isobathic line approaches to within 200 metres of the shore.

Geog. Jour. (R. G. S.), XXII. 128.

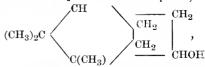
isobathymetric (î"sō-bath-i-met'rik), a. [Gr. $i\sigma\sigma\varsigma$, equal, + $\beta a\theta i\varsigma$, deep, + $\mu \epsilon \tau \rho \sigma i$, measure, + -ic.] Having the same depth below sealevel.

isobiogenetic (1"sō-bī-ō-jē-net'ik), a. [Gr. iσος, equal, + E. biogenetic.] Indicating corresponding weights of two different foodstuffs which have equal dynamogenic and thermogenic values.

The dynamogenic and thermogenic value of the aliment is at the same time its biogenetic value. Two weights of different aliments for which these numerical values are the same are said to be isodynamogenic, isobiogenetic, or isoenergetic weights. They are equivalent from the point of view of their alimentary value.

1. Dastre, in Smithsonian Rep., 1898, p. 543.

isoborneol (ī-sō-bôr'nē-ol), n. [Gr. iσος, equal, + E. borneol. A colorless compound,



prepared by the action of sodium on eamphor. It crystallizes in hexagonal plates, melts at 216 °C., sublimes with extreme case, and resembles borneol in gen-

isobutyl (ī-sō-bū'til), n. [Gr. looc, equal, + E. butyl.] An organic univalent radical,

 $CH_3 > CHCH_2$, occurring in a number of compounds, most of which are prepared from iso-

butyl alcohol, a constituent of fusel-oil.

isobutylate (i-sō-bū'ti-lāt), n. [isobutyl + -ate¹.] A metallic derivative of isobutyl alcohol.

isobutyric (î"sō-bū-tir'ik), a. [Gr. 1000, equal, + E. butyric.] Noting an acid, a colorless compound, (CH₃)₂CHCOOH, found in Ceratonia Siliqua and, combined with alcohol, in erotonoil. It closely resembles butyric acid in general properties, boils at 155° C., and is also called dimethylacetic acid or methyl propanoic acid.

isocephalic (i-sō-sc-fal'ik), a. [Gr. iσος, equal, + κεφαλή, head, + -ic.] Noting a figure-composition, especially a Greek bas-relief, in which the heads are placed nearly on the same horizontal line without considering the proportions of the figures. See isocephaly. isocephalism (ī-sō-sef'a-lizm), n. [isocephal(ic)

+ -ism.] Same as isocephaly.

isocephalous (ī-sō-sef'a-lus), a. [Gr. iσος, equal, + κεφαλή, head, + -ous.] Same as *isocephalic.

isocheim, isocheimal. See isochime, isochimal. isochlor (i'sō-klōr), n. [Gr. iσος, equal, + χλωρός, green (see chlorin).] An imaginary line connecting all places that have the same amount of ehlorin.

The examination for chlorine has gone far enough to The examination for chorine has gone ar enough to indicate the amounts normal in the several great districts of the State, but not far enough to enable us to make an accurate map showing chlorine content of waters. Further analyses will be necessary to make a detailed report, including all the sections and subdivisions of these great natural divisions and isochlor map of the State. State

R. D. Salisbury, in Geol. Surv. of New Jersey, 1900, p. 2.

isocholesterin (i/sō-ko-les'te-rin), n. [Gr. iooc, equal, + E. cholesterin.] In chem., a substance of the class of the alcohols, isomeric with and generally similar to cholesterin or cholesterol, found in admixture with the latter, both chiefly in the form of esters, in woolgrease, fish- and whale-oils, etc. isocholesterol (i"sō-ko-les'te-rol), n. Same

as *isocholesterin.

isochrome (i'sō-krōm), n. [Gr. iσος, equal, + χρōμα, color.] In optics, a curve, in the interference pattern produced when a crystal is viewed in the convergent field of a polarization of the convergence through reconstruction. scope, which passes everywhere through re-gious having the same color; a curve of equal

A line connecting points at which the same events occur simultaneously. Thus the isochrone of travel is the line connecting points attainable by a person riding or an army marching from a given center forward during a given interval of time; the phenological isochrone, the line connecting points at which plants of any species attain simultaneously the same stage of development. of any species development.

Specifically—2. In hydrol., the line bounding an area of watershed whose river-flow will concentrate in a given time at a central point to form a flood.

isochronize (î-sok'rô-nīz), v. t.; pret. and pp. isochronized, ppr. isochronizing. [isochron(ous) + -ize.] To cause to vibrate in equal times: adjust to equality, as to frequency (any periodie operations or cycles).

Isochronous vibration. See **vibration*. tures.—2. Having similar physical properties isoclasite (ī-sō-klas'īt), n. [Gr. *iσος*, equal, at specific low temperatures. + κλάσις, breaking, + -*ite*².] A hydrated eal- isocrymic (ī-sō-krī'mik), a. Same as **isocry*eium phosphate occurring in colorless or snowwhite erystalline and eleavable masses.

Isoclinal line or ray, in geom., a ray from the vertex of an angloid equally inclined to the edges.—Isoclinal plane, in geom., a plane equally inclined to the edges of an angloid.

isocnemic (i-sō-nē'mik), a. [Gr. ίσος, equal, + κνήμη, tibia. + -ic.] In anthozoans, a term used to distinguish a unilateral pair composed of two equal mesenteries: contrasted with *anisocnemic.

In Madrepora and Porites the new mesenteries arise as complete or incomplete hilateral pairs within one or both of the directive entoceles; but in Cladocora, Stephanocemia, Solemostrea, and Oeulina they arise as unilateral isocnemic pairs within one or more exocelic chambers. Annals and Mag. Nat. Hist., Feb., 1903, p. 154.

isocodeine (i so-kō-de'in), n. [Gr. loog, equal, + E. codeinc.] A colorless amorphous basic compound. CH₃O(OH)C₁₆H₁₄ONCH₃, prepared by the action of dilute hydrochloric acid on dihydrothebaine. and melts at 70-80° C. It softens at 55-60° C.,

isocœlous (i-sō-sē'lus), a. [Gr. lσος, equal, + κοϊλος, hollow, + -ous.] In ornith., noting an arrangement of the intestine in which the ascending and descending branches of the second and third loops are in contact, and the descending part lies to the left of the other.

Isocoma (i-sok'ō-mä), n. [NL. (Nuttall, 1841), \langle Gr. $i\sigma\sigma\varsigma$, equal, $+\kappa\delta\mu\eta$, hair. The allusion is to the equal length of the florets in the flower-head, the genus differing in this characteristic from Lessingia.] A genus of dicotyledonous herbaceous or woody plants belonging that the family detarged. The ten return of the constitution of the family detarged. ing to the family Asteraccae. They are rather rigidituited, erect plants with somewhat viscid, entire, toothed, or pinnatifid leaves and a corymbose terminal cluster of rayless heads of yellow flowers. There are shout 11 species, natives of western North America. See Bigelovia and *buck-brush (c).

isocomplement (i-sō-kom'plē-ment), n. [Gr. iσος, equal, + E. complement.] A complement furnished by the same animal, or one of the same species, which yields the amboceptor.

isocomplementophilic (i*sō-kom-plē-men-tō-fil'ik), a. [isocomplement + Gr. φίλος, loving, + -ie.] Having reference to affinity for isocomplements.

isocoria (ī-sō-kō'ri-ä), n. [NL., \langle Gr. $l\sigma\sigma_{\zeta}$, equal, $+ \kappa \delta \rho \eta$, pupil.] Equality in the diameters of the pupils of the eyes.

isocoumarin (î-sō-kö'ma-rin), n. equal, + E. coumarm.] A colorless compound, $C_6H_4\langle \stackrel{CO.O}{CH: \stackrel{.}{CH}}$. prepared by the distillation

of silver isoeoumarin carboxylate. It crystallizes in lustrous plates, melts at 47° C., beils, with some decomposition, at 285-286° C., and is also called isocoumarincarboxylic anhydrid.

isocracy (i-sok'ra-si), n. [Gr. lσος, equal, + -κρατια, < κρατεῖν, rule.] A system of government in which political power is equally vested in all; equality in government.

isocrat (i'sō-krat), n. [isocrat(ic).] An advocate of isocracy. N. E. D.

isocratic (i-so-krat'ik), a. [isocracy (-crat-) + -ic.] Of or pertaining to isocracy; believing in isocracy.

isocratize (I-sok'ra-tiz), v.; pret. and pp. isoc- isodomic (I-so-dom'ik), a. Same as isodomous. ratized, ppr. isocratizing. [isocrat-ie + -ize.] isodomt, a. 2. Having a series of teeth of

I. intrans. To be isocratic.
II. trans. To force (others) to be isocratic or hold isocratic principles.

isocreatinine (î''sō-krē-at'i-nin), n. [Gr. $i\sigma\sigma\varsigma$, equal, $+\kappa\rho\ell\omega\varsigma$ ($\kappa\rho\epsilon\alpha\tau$ -), flesh, $+-in^2+-ine^2$] A yellow basic compound, $C_4H_7ON_3$, obtained from the muscular tissue of the haddock. It

crystallizes in lustrous leaflets which decompose at 230-240° C., without melting.

isocrotonic (i'sō-krō-ton'ik), a. [Gr. iooç, equal. + E. crotonic.] Noting an acid, a col- CH_3CH

orless oil, in , with an odor like butyric H CCOOII

It is found in crude acetic acid from wood, boils at 75-76° C. under 23 millimeters pressure, and is in part converted into crotonic acid by boiling under the ordinary

isocrymal, n. (b) In hydrog., a line joining places where the mean minimum temperatures of the ocean water are the same.

II. a. 1. Having equal degrees of cold or equal low temperatures at any time or under any condition; having equal freezing tempera-

mal.

isocyanate (ī-sō-sī'a-nāt), n. [isocyan-ic + -atel.] A salt of isocyanic acid.

-atel.] A salt of isoeyanic acid.

isocyanic (1*sō-si-an'ik), a. [Gr. isoc, equal, +
E. cyanic.] Noting an acid, a very volatile
liquid, HNCO, formed by heating cyanuric
acid, or by the action of phosphoric anhydrid
on carbamide (urea). It has an intense odor of
acetic acid, the vspor rapidly attacks the nucous membrane of the eye, and the liquid produces painful blisters
on the skin. It quickly polymerizes, even at 0°C., into
cyanelide, and is also called carbominde or carbimide.
isocyanide (i-sō-sī'a-nid), n. [Gr. lsoc, equal,
+ E. cyanide.] Same as *isonitrile.
isocyanuric (i-sō-sī-a-nū'rik), a. [Gr. lsoc,
equal, + E. cyanuric.] Noting an acid, the
same as fulminic acid.

same as fulminic acid.

isocyclic (i-sō-sik'lik), a. [Gr. ἰσος, equal, + κύκλος, ring.] Containing a ring of atoms of one element, especially a ring composed ex-elusively of carbon atoms. It is practically identical in meaning with *carbocyclic (which see).

isocytic (i-sō-sit'ik), a. [Gr. loog, equal, + κύτος, a hollow, a cell.] Pertaining to organisms in which no specialization of cells has taken place, the cells being all equal and similar in size, form, and function. Cook and Swingle.

isocytotoxin (î-sō-sī-tō-tok'sin), n. [Gr. ĭσος equal, + E. cytotoxin.] A cytotoxin which causes the destruction of homologous cells of the same species.

isodemic (i-sō-dem'ik), a. [Gr. iσος, equal, + σ̄μως, people, + -ic.] Of equal density of population.—Isodemic lines, lines drawn upon a map through points at all of which the density of population is the same.

isodiabatic, a. II. n. A curve which represents the isothermal changes of pressure and volume of a substance while the same quantity of heat is being transferred to it or from it.

isodialuric (i-sō-dī-a-lū'rik), a. [Gr. iooc, equal. + E. dialuric.] Noting an organic acid of the nric-acid series, C₄H₄N₂O₄. On condensation with urea it forms uric acid.

isodiazo-. A combining form which has been suggested to designate compounds containing the group RN: NOM where M is an alkali metal and R an aromatic hydrocarbon radical.

isodictyal (i-sō-dik'ti-al), a. [Gr. ίσος, equal, + δίκτνον, net, + -al¹.] Having meshes of uniform size and shape, as a network of fibers in a sponge skeleton.

Skeleton consisting of . . . and a dermal isodictyal network with strands 2-3 spicules thick, with unispiculate strands in the interstices. Proc. Zool. Soc. London, 1900, I. 138.

isodimorphic (ī"sō-dī-môr-fik), a. Same as isodimorphous.

isodipyridine (i-sō-dī-pir'i-din), n. [Gr. iσος, equal, + E. pyridine.] A colorless liquid,

CH——CH

NC₅H₄Č « | , *

N(CH₃)CH

prepared by the gentle oxidation of nicotine. It has a characteristic odor of mushrooms and boils at 280-281° C. Also called nicotyrine, or n-mcthyl-\beta-pyridyl pyrrole.

equal length, as many snakes: used by Cope equal length, as many snakes: used by Cope as a diagnostic character of various genera of isogamic (1-sō-gam'ik), a. [Gr. iooc. equal, + snakes. Compare diagranterian. | Concerning or per-

concentric teeth and soekets which cannot be separated without fracture, as in Spondylus. In Pecten and other less specialized forms the apparatus is not so intricate.

isodontous (ī-sō-don'tus), a. Having all the teeth alike; isodont.

isodulcitan (î-sō-dul'si-tan), n. [Gr. ioog. equal. + E. dulcitan (?).] A colorless amorphous compound, $C_6H_{12}O_5$, prepared by heating rhamnose at 100° C. The reverse change takes place in the presence of water.

isodulcite (1-sō-dul'sīt), n. [Gr. iσος, equal, + E. dutcite.] Same as *rhamnose.

isodulcitic (1"sō-dul-sit'ik), a. [isodulcite + -ic.] Derived from isodulcite.—Isodulcite acid, a colorless compound, CollingOg, prepared by the action of nitrie acid on rhamnose. It forms granular, vitreous, transparent crystals which decompose when gently keated.

isodulcitonic (ī-sō-dul-si-ton'ik), a. [isodulcite -ic.Derived from isodulcite. Same as *rhamnonic.

isodynamic, a. 2. Having the same value in reference to the production of energy: said of different articles of food.

isodynamical (ī/so-dī-nam'i-kal), a. Same as isodynamie.

isodynamogenic (i"sō-dī-na-mō-jen'ik), a. [Gr. isoc, equal, + E. dynamogenic.] Equally dynamogenic: said of the corresponding weights of two different food-stuffs if their dynamogenic values are alike.

isodyne (ī'sō-dīn), a. [Gr. ἴσος, equal, + δύν(α- μ (c), pewer.] Having equal force: specifically applied by Professor Diro Kitao of Tokio, in 1887, to surfaces in the atmosphere at which the movement or force of the wind is equal.

isoeidomal, isoeidonal (ī-sō-ī'dō-mal, -nal), a. See *iseidomal.

isoëlectric (i"sō-ē-lek'trik), a. [Gr. iooc, equal. + E. electric.] In phys. chem., possessing equal quantities of the two opposite kinds of electricity; acted upon by equal and opposite electricity; acted upon by equal and opposite electric attractions.—Isollectric point, in phys. chem, of colloids in solution, the point where the electrolytic motion of the dissolved colloid, which in certain conditions takes place in the direction of the electric current and in other conditions takes place in the opposite direction, is made to vanish, as by the addition of a minute quantity of snelectrolyte. It is supposed that the colloid ean exist in solution only as long as its particlea preserve their electric charges. When an electrolyte is added it is supposed that the particles of the colloid have their charges neutralized by the conjunction with them of the mobile ions of the electrolyte snd coagulation then occurs.

At the isoelectric point, for a distinct small quantity of

As the isoelectric point, for a distinct small quantity of barium chloride or acid, the electric movement vanishes and coagulation or precipitation occurs.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 61.

isoëmodin (î-sō-em'ō-din), n. [Gr. looc, equal, + E. cmodin.] A crystalline compound, C₁₅H₈O₄ related to emodin, contained in buckthorn bark, Rhamnus Frangula. It is laxative.

isoënergetic (ī-sō-en-er-jet'ik), a. [Gr. looc, equal, + E. energetic.] Same as *isobioge-

isoënergic (ī"sō-e-nėr'jik), a. [Gr. Ισος, equal, + ἐνεργός, working (see energy), + -ie.] Of equal energy. The isoenergic lines of a diagram may show changes of any kind except intrinsic energy, which remains constant during the change of the other quanti-

isoephedrine (ī-sō-ef'e-drin), n. [Gr. toos, equal, + E. ephedrine.] A crystalline alkaloid, C₁₀H₁₅NO, isomeric with ephedrine contained in Ephedra distachya. and other species of Ephedra. It is a mydriatic. isoeugenol (ī-sō-ū'jō-nol), n. [Gr. toos, equal,

+ E. eugenol.] A colorless liquid, HOC6H3 (OCH₃)CH:CHCH₂, prepared by the action of potassium hydroxid on eugenol. It boils at 258-262° C. and is used in the manufacture of vanillin. Also ealled 1'-propenylphenyldiol-

(3,4)3-methyl ether. isoform (i'sō-fôrm), n. [Gr. iσος, equal, + E. form(ic).] 1. Same as p-iodoxyanisol, CH₃OC₆ H₄IO₂.—2. An antiseptic powder composed of equal parts of iodoxyanisol and calcium phos-

isogamete (ī-sō-gam'ēt), n. [Gr. iσος. equal, + γαμέτης, spouse: see gamete.] One of two equal cells that unite to form a zygote.

taining to like gametes or germ-cells.

isogen (i'sō-jen), n. [Gr. too, equal. + -γενης, \ γένος, offspring.] A statistical curve of similar birth-rates in a natality-table.

In natality tables, the ages of the father and mother take the place of the longitudes and latitudes in weather charts, and the lines of similar birth rates, or, as I would call them, 'isogens,' take the place of isobars.

Francis Galton, in Proc. Roy. Soc. London, Jan. 18, 1894.

conjugates. See *conjugate.

II. n. 2. pl. Any two straight lines which acid.

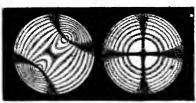
are symmetrical with regard to an angle-bisec- isohydric (ī-sō-hī'drik), a. [Gr. isoc, equal, + are symmetrical with reference to that E. hydr(ogen) + -ic.] In phys. chem., possessangle.

isogonality (î-sō-gō-nal'i-ti), n. [isogonal + The quality of being isogonal. -ity.

isogonic1, a. II. n. In terrestrial magnetism, a line or surface connecting places where the magnetic needles have equal magnetic declinations.

isogonism, n. 2. Similarity in erystalline form; specifically, that existing between the crystals of chemical compounds which are not closely related in composition. See isomorphism.

isogyre (i'sō-jīr), n. [Gr. iσος, equal, + γύρος, circle.] In optics, one of the lines or curves in the interference pattern produced when a crystal is viewed in the convergent field of a polariscope; a line of constant direction of polarization. The principal isogyres are heavy black



Isogvies

markings upon the interference pattern, sometimes in the form of a cross, sometimes appear-

ing as hyperbolæ which pass through the optic axis. P. Drude, Theory of Optics, p. 354. isogyric (ī-sō-jī'rik), a. [isogyre + -ic.] Of or pertaining to isogyres; having constant directhe interference patterns of crystals. See *isogyre. P. Drude, Theory of Opties, p. 352. isohaline (i-sō-hā'lin), n. [Gr. too; equal, + ax; salt, + -ine¹.] An imaginary line connecting all parts of the ocean that have the same salinity.

South of the Tropic of Capricorn the isohalines run nearly east and west, salinity diminishing quickly to the Encyc. Brit., XXXI. 464. isohelic (i-sō-hē'lik), a. and n. [Gr. iroc, equal, + \(\bar{\eta}\)icos, sun, + -ic.] I. a. Having equal amounts of clear sunshine.

Probably, the observations of sunshine are still more complete in the British Isles than in any other country, but Herr Helmuth König, of Hamburg, has found sufficient material for a first attempt to draw 'isohetic' lines for Western Europe.

Geog. Jour. (R. G. S.), X. 306.

II. n. A line connecting points which have equal variability or equal annual amounts of sunshine.

isohemagglutination (i-sō-hem-a-glö-tinā'shon), n. [Gr. iooc, equal, + aiµa, blood, + E. agglutination.] Normal agglutination of the red blood-corpuseles. See the extract.

the red blood-corpnseles. See the extract. The power of the blood serum of certain individuals to agglutinate the red blood cells of certain other individuals has interested clinical pathologists for some time. . . . Whereas the earlier observers of human isohemagylutination asserted that isoagglutinins occurred only in the sera of pathological states, and was of specific and diagnostic importance, the later researches of Landsteiner and others have shown conclusively that the sera of normal individuals quite as frequently clump the corpuscles of other normal or diseased persons.

F. P. Gay, in Jour. Med. Research, Dec., 1907, p. 321.

isohemagglutinate (i-sō-hem-a-glō'ti-nāt), t. i. and t. [See *isohemayglutination.] To produce isohemagglutination.

The isohemagglutinating power of serum resists heating to 56° C. for thirty minutes, although the serum used in these experiments was freshly obtained and not

heated.

F. P. Gay, in Jonr. Med. Research, Dec., 1907, p. 321. isohemolytic (1/sō-hem-ō-lit'ik), a. [isohemolysin (-lyt-) + -ic.] Having reference to the action of an isohemolysin.

isohesperidin (i"sō-hes-per'i-din), π. [Gr. lσος, equal, + Ε. hesperidin.] A vollowish, erystalline glucoside, C₂₂H₂₆O₁₂.2H₂O, said to be present in the bitter-orange peel.

isohomovanillin (1″sộ-hō″mō-vạ-nil′in), n. [Gr. lσος, equal, + δμός, same, + E. vanillin.] A colorless compound,

 $\mathrm{CH_3OC_6H_2}(\mathrm{OH})(\mathrm{CH_3})$ CHO

tallizes in needles and resembles vanillin in

isogonal. I. a. 2. Orthomorphie.—Isogonal isohumic (i-sō-hū'mik), a. [Gr. isog, equal, + E. conjugates. See *conjugate. Having equal negreentages of humic.]

ing equal eoneentration of hydrogen ions.

Some acetic acid is formed, and this process will go on till the solutions of the two acids are isohydric: that is, till the dissociated bydrogen ions are in equilibrium with both.

Encyc. Brit., XXVIII. 14.

isohvet (ī-sō-hī'et), n. [Gr. ίσος, equal, + ἐετός, rain.] Same as isohyetal. Also isohyetose.

The increase of goats, mules, and assess in the drier areas is graphically shown on the maps, and would have been made clearer by a series of isohyets.

Geog. Jour. (R. G. S.), XV. 55.

isohygrometric (īs/o-hī-gro-met'rik), a.

The flora of California may be likened to a checker-board, the lines between the squares representing isohy-grometric and isothermal lines. F. V. Coville, contrib. Nat. Herb., IV. 20.

isohyp (ī'sō-hip), n. [Prop. *isohyps or *isohypse, \langle Gr. isoc, equal, $+i\psi_0c$, height.] A line joining isohypsometric localities.

isohypercytosis (i so-hi-per-si-to'sis), n. [NL. \langle Gr. $i\sigma o c$, equal, $+ i \pi i \rho$, over, $+ \kappa i \tau o c$, a hollow (a cell), $+ \cdot o s i s$.] An increase of the number of leucocytes, with normal percentage relations of the neutrophilie cells as regards the distribution of the different nuclear forms.

isohypocytosis (i*sō.hī-pō-sī-tō'sis), n. [NL., ⟨Gr. isoc, equal, + ὑπό, under, +κίτος, a hollow (a cell), +-osis.] A decrease in the number of leucocytes, with normal percentage relations of the neutrophilic cells as regards the distribution of the different nuclear forms.

isohypsometric (ī/sō-hip-sō-met'rik), a. Having equal, + E. hypsometr-y + -ic.] the same altitude above mean sea-level.

tion of polarization: said of certain curves in iso-iwashi (ē"sō-ē-wā'shē), n. [Jap., \(\cdot iso\), the interference patterns of crystals. See shore, \(+iwashi\), sardine.] A Japanese name \(\pi isogyre\). P. Drude, Theory of Opties, p. 352. of one of the atherine fishes, Iso flos-maris, a little fish of the surf. Also known as namino-hana, 'flower of the wave.

isolactose (i-sō-lak'tōs), n. A colorless sugar, C₁₂H₂₂O₁₁.H₂O, prepared synthetically from glucose and galactose. It is isomeric with lactose and is fermentable.

isolate, a. II. n. In psychol., a feature or quality abstracted by attention from the complex of qualities constituting an object and considered by itself alone; the result of an analysis of a construct.

We may call the process by which we select a certain quality, and consider it by itself to the neglect of other qualities, isolation, and the products of the process we may term isolates.

C. L. Margan, Animal Life and Intelligence, p. 322.

Isolated pawn. See *pawn2. isolation, n. 1. Specifically, removal from communication or contact with others; also, the condition of being so removed. An isolation ward, hospital, or camp is a ward, hospital, or camp in which isolation of the sick or of those who have been ex-

posed to infection is secured. Isolation of Blastomeres.—As long ago as 1869 Haeckel divided the hlastulæ or morulæ of Siphonophora with a fine needle into two, three, or four pieces, and observed that each developed into a complete larva.

Encyc. Brit., XXXII. 212.

2. In psychol., the process whereby one selects a certain quality of an object for consideration, to the neglect of other qualities; selection by attention. C. L. Morgan.

Discriminate isolation, the separation or isolation of a race or variety from its parent stock in such a way as to prevent free intercrossing.—Indiscriminate isolation, the separation of the individuals that compose a species into two or more sets without segregation or the selection of those that differ.

isolationist (is-\(\tilde{0}\)-l\(\tilde{a}'\)shon-ist), \(n\). [isolation + -ist.] 1. One who believes that a new race or variety cannot become fixed or established through natural selection unless its representative individuals are locally or topographically separated or segregated from the reason as an isometric texture in which the crystal eally separated or segregated from the remainder of the species.

This way of accounting for progress in one or more di-rections may prove as inadequate as the one suggested by

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 676. 2. In recent United States polities, an advoeate of the policy of non-interference or non-isometropia (i*sō-mē-trō'pi-ii), n. [NL., \langle Gr. participation in international affairs. isonetropia (i*sō-mē-trō'pi-ii), n. [NL., \langle Gr. participation in international affairs.

prepared by the action of chloroform and alkali isolichenin (i-sō-li'ken-in), n. [Gr. iooc, equal, on the compound CH₃OC₆H₃(OH)CH₃. lt crys- + E. liehenin.] An amorphous water-soluble + E. lichenin.] An amorphous water-soluble earbohydrate contained in Iceland moss, Cctraria Íslandica.

> isolysin (i-sol'i-sin), n. [isolysis + -iu².] A lysin which will cause the destruction of cells of an animal of the same species as the one which furnishes it.

> isolysis (i-sol'i-sis), n. [Gr. iσος, equal, + λίσις, dissolution.] The dissolution of cells λίσις, dissolution.] The dissolution of cells of a given species by the homologous cells of an animal of the same species. Vanahan and Novy, Cellular Toxins, p. 129.

> isolytic (i-sō-lit'ik), a. [isolysis (-lyt-) + -ic.] Causing or having reference to isolysis.

It was found, in fact, that under these circumstances lytic substances are sometimes, though not uniformly, developed. The possibility of the formation of isolytic substances was thus established.

Med. Record, Feb. 14, 1903, p. 247.

songtometric (is on sprometric.) Alike in average conditions of atmospheric moisture. isog, equal, + E. nuggrometric.) I. a. Having the flora of California may be likened to a checker.

II. n. A line joining places which have the same magnetic elements. Terrestrial isomagnetics refer specifically to the earth's surface.

Rücker and Thorpe's next step was to obtain formulæ giving smooth curves of continuous curvature, approximating as closely as possible to the district lines. These smooth curves are called terrestrial isomagnetics; they may be supposed to show what the magnetic elements would be in the absence of disturbances peculiar to special parts of the survey area or its immediately coterminous regions.

Encyc. Brit., XXX. 461.

isomaltose (ī-sō-mâl'tōs), n. [Gr. icoc, equal, + E. maltose.] A substance formed together with maltose from stareh on diastatic digestion. It has been produced synthetically from dextrose, does not ferment, and is isomerie with maltose, $C_{12}H_{22}O_{11}$.

isomeric, a. 3. In petrog., noting phanero-crystalline rocks composed of a single kind of mineral. Brongniart, 1827.

erystalline rocks composed of a single kind of mineral. Brongniart, 1827.

isomerism, n. In the widest sense this term is applied to any two or more chemical compounds having the same percentage composition. Various degrees and kinds of isomerism are distinguished, the primary distinction being between chemical and physical isomerism. Chemical isomerism may be subdivided as follows: Polymerism, which is applied to compounds with the same percentage composition, but with molecular weights differing by some constant value: example, ethylene, C₂H₄, and butylene, C₄H₈, molecular weights 28 and 56 respectively. Polymerism may be either accidental or generic, according to whether the compounds helong to the same or different classes. Metamerism is applied to compounds with the same percentage composition and molecular weight, but containing homologous radicals in the molecule: examples are propylamine, C₂H₂, NH₂, ethylmethylamine, C₂H₃, NHCH₃, and trimethylamine, NCH₃, and isohutane, CH₃, Qth. Position or place isomerism exists in compounds which have the same number of similar atoms in the molecule, but in which the carbon atoms forming the molecule, but in which the carbon atoms forming the nucleus are differently grouped: as, normal butaine, CH₃CH₂CH₂CH₃CH₃, and isobutane, CH₃Qth. Position or place isomerism exists in compounds which have similar nuclei but differ in the relative position of certain substituting atoms or radicals in this nucleus: as, primary or a-propyl chlorid, CH₃CHCCH₃CH₃ Structural isomerism applies to compounds which have the same percentage composition and molecular weight but differ in the arrangement of atoms in their molecules. Physical isomerism eharacterizes compounds which consist of varying aggregations of chemically similar molecules. It was first used of substances which are now termed geometrically isomeric, early stero-isomeric, or optically isomeric. Alloisomerism is a term occasionally applied to geometrically isomerically isomerism thar

isomerization (i-som/e-ri-zā/shon), n. [isomerize + -ation.] In chem., the production of isomeric forms of a given substance or class of substances. [Rare.] Nature, Nov. 13, 1902, p. 48.

as, an isometric texture in which the erystan grains are of nearly the same size.—Isometric contraction. See *contraction.—Isometric line, in thermodynam., a curve showing the relation between pressure and temperature in a body or system the volume of which remains constant. B. Watson, Text-book of Physics, p. 274.—Isometric texture, in petrog. See *anisometric texture.

eye.] A condition in which refraction is the same in the two eyes.

isomorphic, a. 2. In biol.: (b) Different in ancestry, but alike in appearance; heterophyletic; convergent.—3. In group-theory, related, as the group Γ to the group G, so that to every substitution g of G corresponds one substitution g of G, and to the product gg' of any two substitutions of G corresponds the any two substitutions of G corresponds the product) of the two corresponding substitutions of \(\Gamma\).— Multiply isomorphic, said of two groups when \(\Gamma\) is isomorphic to \(G\), but to a substitution of \(\Gamma\) may correspond more than one substitution of \(G\).— Simply isomorphic, said of two groups when \(\Gamma\) is isomorphic to G and, inversely, to every substitution of \(\Gamma\) corresponds but one substitution of \(G\).

isomorphism, n. 2. In biol., the state or condition of being different in ancestry, but alike in appearance. See ★isomorphic, 2 (b).—3. In group-theory, the state or character of being isomorphism. See multiply *tisomorphism, multiple isomorphism, the state of being multiply isomorphic.—Multiple isomorphism, the state of being multiply isomorphic.

isomorphous, a. 2. In math., same as iso-

-ison. [ME. -ison, -isoun, < OF. -aison, -eison, -eson, -ison, < L. -atio(n-) (whence the 'learned' -eson, -ison, < 1. -atto(n-) (whence the "learned" form -atton, which is thus a doublet of -ison), -etio(n), -itio(n).] A suffix, really -son, with an element (-i-) belonging to the stem in some nouns coming from Latin through the Old French. It is equivalent to -ation, -etion, -ition, iu nouns originally abstract. Examples are comparison, fermison, garrison, jettison, orison, venison, warnison. In benison and malison doublets of benediction and malediction, the -i- belongs to the reduced radical. In

isoneph (i'sō-nef), n. [Gr. $i\sigma\sigma$, equal, + perimeter to another. $v\epsilon\phi(\ell\lambda\eta)$, cloud.] A line joining places that isoperimetric (ī-sō-per-i-met'rik), a. Same as have the same percentage of cloudiness; an isoperimetrical. isonephelic line.

isonephrotoxin (i'sō-nef-rō-tok'sin), n. ίσος, equal, + E. nephrotoxin.] A nephrotoxin directed against the renal cells of animals of the same species as the one furnishing the nephrotoxin.

isonicotic (i″sō-ni-kot'ik), a. [isonicot(ine) + -ic.] Noting an acid, a colorless compound, N < CHCH > CHCOOH, prepared from luti-

dine. It crystallizes in groups of slender needles, or, by sublimation, in small plates and melts, in a scaled tube, at 298-298 °C. Also called pyrocinchomeronic acid, or, preferably, 4· or y-pyridinecarboxylic acid.

preferably, 4 or y-pytrainecuroscapic accu.
isonicotine (î-sō-nik'ō-tin), n. [Gr. loog, eqnal,
+E. nicotine.] A colorless compound, C₁₀H₁₄N₂, prepared by the reduction of dipyridyl.
It erystallizes in slender, very hydroscopic needles melting at 78° C.

isonicotinic (ī"sō-nik-ō-tin'ik), a. [isonicotine + -ic.] Same as *isonicotic.

isonitrile (ī-sō-nī'tril), n. [Gr. loog, equal, + E. nitrile.] The name of a class of organic compounds isomeric with the nitriles and eyanides, containing the univalent group NC. They are also called *isocyanides* and, less correctly, carbylamines, and are distinguished by their highly objectionable odor.

isonitro (î-sō-nī'trō), n. [Gr. loos, equal, + E. nitro.] A hypothetical divalent radical,

pounds. They are isomeric with the nitroderivatives and are pseudo-acids.

isonitroso (i"sō-nī-trō'sō), n. [Gr. isos, equal, + E. nitroso.] A hypothetical bivalent radical, > NOH, which occurs in certain organic compounds. These compounds are identical with the corresponding oximes, the only difference being in the mode of formation. Isonitroso derivatives are formed from nitrous acid and compounds containing the group > CH₂; oximes from hydroxylamine and compounds containing the group > CO.

isonormocytosis (ĭ/sō-nôr/mō-sī-tō'sis), [NL., ζ Gr. iσος, equal, + L. norma, norm, + Gr. κύτος, a hollow (a cell), + -osis.] A condition in which there is a normal number of the leucocytes with normal relations of the neutrophilic cells as regards the percentage distribution of the different nuclear forms.

iso-orcinol (ī-sō-ôr'si-nol), n. Same as *isor-

isopag (i'sō-pag), n. [Gr. ἴσος, equal, + πηγνύναι, fix, stiffen, freeze (cf. πάγος, seum).] A line, on a chart, connecting places at which

rivers, harbors, lakes, or the ground are frozen or covered with ice during the same number of days continuously in winter.

isoparthenogenesis (i "sō-pār "then-ō-jen'esis), n. [NL., \lambda Gr. loog, equal, + NL. parthenogenesis.] Parthenogenesis, or development from unfertilized eggs, as part of a normal life-history; normal as contrasted with occasional or exceptional parthenogen-See normal *parthenogenesis.

isopathic (1-so-path'ik), a. [isopath-y + -ic.]

Of or pertaining to isopathy.

isopectic (i-sō-pek'tik), n. [Gr. iσος, equal, +
πηκτός, fixed, stiffened, frozen: see *isopag.]

A line, on a chart, connecting places at which the first ice of winter forms simultaneously.

isopelletierine (1-sō-pel-e-tēr'in), n. [Gr. loog, equal, + E. pelletierine.] A colorless oily alkaloid, C₈H₁₅ON, obtained, together with pelletierine, from the rind of pomegranate root. It boils at 125° C., under 100 millimeters, and has exactly the same properties as pelletier-

ine, except that it is optically inactive.
isopentyl (i-sō-pen'til), a. [Gr. ioog, equal, +
E. pentyl.] Same as *isoamyl.

isopepsin (1-sō-pep'sin), n. [Gr. loog, equal, + E. pepsin.] A supposed modified form of pepsin, effected by heat.

pepsin, elected by hear. isopericelous (i"sō-peri-sē'lus), a. [Gr. $i\sigma\sigma_c$, equal, $+\pi\epsilon\rho_i$, around, $+\kappa\sigma_i\lambda\sigma_c$, hollow, $+-\sigma us$.] In ornith, noting an arrangement of the intestine in which all the loops are left-handed and the third is inclosed by the second.

caparison the termination is conformative. isoperimeter (i'sō-pe-rim'e-ter), n. [Gr. loog, See -son, -tion.

soneph (i'sō-nef), n. [Gr. loog, equal, + E. perimeter.] A figure equal in perimeter to another.

isophenomenal (i/so-fe-nom'e-nal), a. [Gr. Having the same or very similar phenomena; $+ \cdot at^{1}$.] specifically-(a) In phenology, having the same specifically—(a) in prenotogy, having the same dates of sprouting, budding, flowering, fruiting, ripening, etc. (b) In terrestrial magnetism, having the same magnetic declination, inclination, force, secular variation, diurnal variation, etc. (c) In meteor., having the same frequency of cloudy or rainy weather, or similar atmospheric conditions in general mounders.

In prenotogy, having the same isopsychric (i-sō-sī'krik), a. and n. [Gr. iσος, equal, + ψυχρός, cold, + -ic.] I. a. Equal, as to moisture: said specifically of a thermo-dynamic process or state in which evaporation and condensation are both absent or precisely balance one another. Jour. Phys. Chem.,

May 1004 p. 344 similar atmospheric conditions in general.

isophone (ī'sō-fōn), n. [Gr. loog, equal, + E. (tele)phone.] A form of microphonic telephone transmitter.

isophoria (ī-sō-fō'rī-i), n. [NL., ⟨Gr. iσος, equal, + -φορια, ⟨ -φορος, ⟨ φέρειν, bear.] Normality in the direction of the visual axes in the two eyes, the tension of the ocular muscles being

isophotal (i-sō-fō'tal), a. and n. [Gr. $l\sigma o c$, equal, $+ \phi \bar{\omega} c$ ($\phi \omega r$ -), light, $+ -al^1$.] I. a. Of or pertaining to equality of illumination: as, an isophotal line.

II. n. In photom., a line or surface, in a field of light-flux, drawn everywhere through points of equal illumination. Also called isophote. Trans. Amer. Inst. Elect. Engin., July-Dec., 1902, p. 74.

isophote (i'sō-fōt), n. [Gr. $l\sigma o c$, equal, $+ \phi ω c$ $(\phi ω \tau -)$, light.] Same as $\star isophotal$.

 $> N < {\rm OH}_{, {\rm which}}$ eccurs in certain organic comisophotography ($\bar{\imath}$ 'sō-fō-tog'ra-fi), n. Photography of objects in their exact size. Encyc.

> isophthalic (ī-sof-thal'ik), a. Noting an acid, a colorless compound, $C_6H_4(COCH)_2$, prepared by the oxidation of various meta (1.3) dialkyl substituted benzene derivatives. It crystallizes in long hair-like needles, melts above 300° C., and sublimes without decomposition

> isophytotone (ī·sō̄-fī'tō̄-tō̄n), n. [Gr. lσος, equal, + φντόν, plant, + τόνος, tension, stress.] In phytogeog., a line connecting the latitudinal points of the same maximum or minimum temperature and, therefore, according to Pound and Clements (the authors of the term), limiting on either side the zone of the occurrence of plants of like maximum and minimum endurance. Compare life *zone.

Isopiestic line. See *line2.

Isopisthus (ī-sō-pis'thus), n. [NL., \langle Gr. $t\sigma\sigma_{\zeta}$, equal, $+\delta\pi\iota\sigma\theta\epsilon\nu$, behind. The name alludes to the equality of the soft dorsal and anal fins.] isorcin (ī-sôr'sin), n. Same as *isorcinol.

A genus of fishes of the family Scianida, the croakers, found on both coasts of tropical

isoparaffin (ī-sō-par'a-fin), n. [Gr. lσος, equal, isoplere (ī'sō-plēr), n. [NL., < Gr. lσος, equal, + Ε. paraffin.] The class-name of hydrocarbons of the paraffin series which have a branched earbon chain. pressure of a gas or other body the volume of which remains constant; an isometric line. W. Watson, Text-book of Physics, p. 274. isopleth (i'sō-pleth), n. [Gr. iσοπληθής, equal in

number, quantity, or magnitude, $\langle loo_f \rangle$, equal, $+\pi \lambda \bar{\eta} \theta o_f$, fulluess.] A line, on a chart, showing the occurrence of equal quantities, conditions, or frequencies of any phenomenon in its relation to two independent coordinates. This term was first used by Vogler (1880), but the lines themselves had long been familiar.

isopolite (ī-sop'o-līt), a. [Gr. ἰσοπολίτης, a citizen with equal rights, < lσος, equal, + πολίτης,

itizen.] Same as *isopolitical. (isopolitical. (i*sō-pō-lit'i-kal), a. [As isopolitic+-ic+-al².] Relating to the possession of mutual political rights.

isoprecipitin (i"sō-prē-sip'i-tin), n. [Gr. loog, equal, + E. precipitin.] A precipitin which will react with the serum of an animal of the same species.

isoprene (1'sō-prēn), n. A hydrocarbon (C₅-H₈), one of the hemiterpenes, produced in the destructive distillation of india-rubber or gutta-percha, and also obtainable from oil of turpentine. It is a colorless, highly volatile liquid, which has special interest from the fact that it is converted into india-rubber by prolonged contact at ordinary tempera-ture with strong hydrochloric acid or nitrosyl chlorid. Sadtler, Handbook of Indust. Chem., p. 99.

Sadtler, Handbook of Indust. Chem., p. 99.

isopropyl (1-sō-prō'pil), n. [Gr. tooc, equal, + E. propyl.] A hypothetical univalent radical, (CH₃)₂CH, occurring in many organic compounds. Also called secondary propyl.—Isopropyl alcohol, a colorless liquid, CHCHOHCH, prepared by the action of lead hydroxid on isopropyl lodide; secondary propyl alcohol or 2-hydroxypropane. It boils at 82-85° C. and yields acetone when oxidized.

Isopsetta (ī-sop-set'ä), n. [NL., ⟨ Gr. tooc, equal, + ψητα, a flounder.] A genus of Californian flounders.

fornian flounders.

balance one another. Jour. Phys. Chem., May, 1904, p. 344.

Isopsychric curve, in thermodynamics, a curve denoting a process in which evaporation equals and neutralizes condensation.

Curves of constant M2 [mass of vapor] being termed isopsychric curves.

J. E. Trevor, in Jour. Phys. Chem., May, 1904, p. 344.

II. n. An isopsychric curve.

This curve is the locus of the points of mutual tangency of the adiabatics and isopsychrics.

J. E. Trevor, in Jour. Phys. Chem., May, 1904, p. 344.

isopter (i-sop'ter), n. [Gr. $i\sigma\sigma\varsigma$, equal, $+ i\sigma\tau$ $\tau(i\kappa\delta\varsigma)$, of seeing.] A curve denoting the points on the retina of equal visual acuteness.

isopurpurate (i-sō-per'pū-rāt), n. [isopurpuric $+ -ate^1$.] A salt of the hypothetical isopurpuric acid: the potassium salt, $C_8H_4O_6N_5K$, is prepared by the action of potassium cyanide on pieric acid. It forms brown-red rhombic scales with a green luster and explodes at 215°C. or at the ordinary temperature when brought into contact with concentrated sulphuric acid.

isopyc (i'sō-pik), n. [isopyc(nic).] An isopyc-nic line. Also isopyk.

isopycnal (ī-sō-pik'nal), a. and a. Same as *isopycnic.- Isopycnal gradient. See *gradient.

pre- isopycnic (ī-sō-pik'nik), a. and n. I. a. Relating to or indicating equality of density: as, an isopycnic line.

II. n. A line or surface, in a substance or medium, at every point of which the density is the same. Also isopyc.

isopyre ($\tilde{\imath}'s\tilde{\wp}$ - $p\tilde{\imath}r$), n. [Gr. $i\sigma o \varsigma$, equal, $+\pi \tilde{\imath} \rho$, fire.] An impure form of opal occurring in black compact masses, occasionally spotted red like heliotrope: sometimes used as a semiprecious stone.

precious stone.

isopyromucic (i"sō-pī-rō-mū'sik), a. [Gr. iσος, equal, + E. pyromucic.] Noting an acid, a colorless compound, C₅H₄O₃.2H₂O, prepared by the distillation of mucic acid with potassium hydrogen sulphate. It melts at 80–85° C.; when dehydrated, at 90–95° C. Nature, Dec. 17, 1903, p. 168.

isorcinol (ī-sôr'si-nel), n. [Gr. iσος, equal, + E. orcinol.] A colorless compound, CH3C6H3 (OH)₂, H₂O, prepared by fusing toluene-2,4-disulphonic acid with potassium hydroxid. It crystallizes in slender needles, melts at 87° C, boils at 260° C, and has a slightly sweet taste. Also called iso-orcinol, cresorcinol, or y-orcinol.

isorropesis (ī-sō-rop'ē-sis), n. [Gr. ίσος, equal, $+ \dot{\rho}o\pi\dot{\eta}$, downward inclination, balance of the scale.] See the extract.

The make-and-break contact between the oxygen atoms would give marked activity to these atoms. The make-and-break contact between the oxygen atoms would give marked activity to these atoms. Such a process other than tautomerism, where a wandering of a labile atom is suggested, has been named by Stewart and Baly "isorropesis" (equipose), and differs from the former in that the head of its absorption band lies much nearer the red end of the spectrum or almost in the visible violet region.

Pap. Sci. Mo., Feb., 1908, p. 132.

isorropic (i-sō-rō'pik), a. [Gr. iσος, equal, + ροπή, inclination downward, + -ie.] Noting a line or curve which passes through the coplanar points for which the value of a function is the same.

isorubine (ĩ-sặ-rö'bin), n. [Gr. $l\sigma\sigma\varsigma$, equal, + **E**. $rubine^2$.] A basic coal-tar color: same as new*magenta.

isosafrol (i-sō-saf'rol), n. [Gr. iσος, equal, + E. safrol.] A colorless liquid,

 $CH_3CH: CHC_6H_3 \langle \overset{\circ}{Q} \rangle CH_2,$

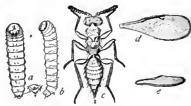
prepared by heating safrol with alcoholic potassium hydroxid. It boils at 246-248° C. isoscope (i'sō-skōp), n. [Gr. iσος, equal, + σκοπείν, view.] An appliance for determining the changes in position of the vertical and horizontal lines in movements of the eyeball.

isoseist (i'so-sist), n. [Gr. ίσος, equal, + σειστός, shaken, ζ σείειν, shake, quake: see seismic.]

1. A line drawn through points that experience an earthquake shock at the same moment; an isoseismal. Rep. Brit. Ass'n Advancement Sci., 1900, p. 64.—2. Any event that occurs simultaneously with a given earthquake shock.

isosmotic (ī-sos-mot'ik), a. [Gr. iooc, equal, + E. osmotic.] In phys., of equal osmotic pressure.—Isosmotic solutions, solutions which hold the same number of nolecules of a dissolved substance per unit volume at the same temperature. Since the laws of gases hold for osmotic pressures, the number of molecules thus contained is that contained in a unit volume of an ideal gas at the given pressure and temperature.

Isosoma, n. 3. [1. c.] An insect which belongs to the genus Isosoma.—Vine isosoma, the grape-seed isosoma, now referred to the genus Ecoxysoma (E. vitis), a phytophagous chalcidid whose larva feeds in grape-seeds.—Wheat isosoma, an American phytophagous chalcidid, Isosoma (Philachyra) grande, whose larva lives in the stems of wheat.



Wheat Isosoma (Isosoma (Philachyra) grande). a, b, larva; c, female; d, fore-wing; c, hind-wing.All enlarged. (Riley, U. S. D. A.)

isospore, n. 3. One of the non-sexual spores, of uniform size, formed by certain rhizopods: contrasted with *anisospore.

isostasy (ī-sos'ta-si), n. [Gr. ἰσος, equal, + στάσις, standing, station.] In phys., balance or equilibrium; the property of attaining a condition of stable equilibrium when under the action of permanent stress.

According to the doctrine of isostasy, which has found much favor with geologists in recent years, the crust of the earth is in a delicately-balanced condition of equilibrium between forces which are tending on the one hand to depress and on the other to clevate it.

R. D. Salisbury, in Geol. Surv. of New Jersey, 1893, In 1892

isostath (i'sō-stath), n. [For *isostathm, < Gr. such as a gas or vapor, where there is no iσόσταθμος, evenly balanced, < iσος, equal, + change of temperature.

grāθμα, rule, plumb, plummet, < ῖστασθαι, isothermic (i-sō-ther'mik), a. Same as isostand.] A line connecting distant points in the earth's atmosphere which have the same buoyancy after allowing for the change in the force of gravitation. Abbe, Preliminary

isostathmic (ī-sō-stath'mik), a. [isostath (isostathm-) + -ic.] Of or relating to isostaths;

having the properties of isostaths; illustrating the course of isostaths at any particular moment.—Isostathmic line, a line of equal atmospheric buoyaney, as distinguished from a line of equal density; namely, the line that divides the lighter air from the heavier air, or the air that must go up from that which must go down in the interchange due to buoyancy.

isostatic, a. 2. Related to or produced in accordance with isostasy.

isostatically (ī-sō-stat'i-kal-i), adv. manner accordant with the principles of isostasv.

The elevation of the land caused an ice-sheet to form gradually over it until the surface was depressed, isostatically, by the weight of accumulated ice and the cooling of the crust itself. Geog. Jour. (R. G. S.), XVIII. 517.

isostere (i'sō-stēr), n. [Also isoster; Gr. iσος, equal, + στερεός, solid.] 1. A line connecting points of equal specific volume in the ocean or atmosphere: the inverse of *isopyc. See *isostath.

He [Professor V. Bjerknes] simplifies the hydrodynamic conceptions by dealing with density directly instead of temperature and pressure, and uses charts of "isosteres," or lines of equal density, very much as was proposed by the present writer in 1889 in his Preparatory Studies, where he utilized lines of equal buoyancy or "isostaths." Cleveland Abbe, in Encyc. Brit. XXX. 719.

2. In chem., a term applied to compounds possessing equal molecular volumes.

isosteric (ī-sō-ster'ik), a. [isostere + -ic.] 1. Pertaining to or of the nature of an isostere. See *isostere, 1.—2. In phys. chem., having equal atomic volumes.

isosterism (i-sos'te-rizm), [isostere + n. -ism.] The property of being isosteric or an isostere, in either sense of that word.

isostylous (ī-sos'ti-lus), α. [Gr. ἰσος, equal, + στὐλος, pillar (style), + -ous.] In bot., same as homostyled.

isotalantosan (ī"sō-tal-an-tō'san), n. ίσος, equal, + raλάντωσις, oscillation, + -an.] In meteor., a line or region of equal annual bility of mean daily temperature. isote (ē-sō'tā), n. Same as *izote.

Isotelus (i-sot'ē-lus), n. [NL., also Isoteles; \langle Gr. $i\sigma o_{\mathcal{C}}$, equal, $+ \tau \ell \lambda o_{\mathcal{C}}$, an end.] A genus of Silurian trilobites closely allied to $\mathit{Ilkenus}$, but having eight thoracic segments.

isotheral, a. II. n. A line joining places on the earth's surface that have the same mean temperature during the summer season.

isotherm, n. 2. In math., a curve representing phenomena which happen at constant temperature.—Dissociation isotherm, the enrye showing the relation of concentration and amount of dissociation st constant temperature.
isothermal. I. a. 2. In crystal., applied to

the lines on a crystal face, or more generally to the surfaces in a crystal, which measure the rate of heat-conductivity, these lines or surfaces being characterized by equal degrees of temperature when heat is applied at a certain point. The isothermal lines on a crystal bear a simple relation to the molecular structure; for example, they are circles on the hase of a hexagonal crystal, but ellipses on a prismatic face.

Isothermal coefficient of compressibility. See *coefficient.—Isothermal combustion, compression, curve, expansion. See *combustion, etc.—Isothermal surface, a surface every point of which has the same temperature. The line of intersection of an isothermal surface and any plane not parallel to it is an isothermal line. thermal line.

II. n. 2. In thermadynam., a line or curve determined by the equation of state (pv = RT) of a system, when T has any constant value; a line of equal temperatures.—3. In spectroa line of equal temperatures.—3. In spectro-photometry, a curve showing the distribution of intensities in the spectrum of a source of light maintained at constant temperature. Also called isotherm.

In diagram A are drawn isothermals, curves of equal temperature in which the abscissæ are wave lengths, the ordinates intensities.

E. L. Nichols, in Amer. Jour. Sci., XVIII. 446.

isothermally (ī-sō-ther'mal-i), adv. In a manner involving no change of temperature: said of any process which involves changes of volume and pressure of a thermodynamic system,

isothermobathic (i*sō-ther-mō-bath'ik), a. [isothermobath + -ie.] Pertaining to or of the nature of an isothermobath.

isothiocyanic (î"sō-thi"ō-sī-an'ik), a. [Gr. $i\sigma\sigma_{\mathcal{E}}$, equal, $+\theta\epsilon\bar{i}\sigma_{\mathcal{E}}$, sulphur, $+\kappa\epsilon\sigma_{\mathcal{E}}$, blue, $+-i\epsilon$.] Pertaining to the isothiocyanates.—Isothiocy-

anic acid, a hypothetical acid, HNCS, the esters of which constitute the mustard oils. Also called thiocarbylamine. isotomic (i-sō-tom'ik), a. [Gr. ίσος, equal, + τουή, a cutting, + -ic.] Cntting a line at points equally distant from its opposite extremities. — Isotomic conjugate. See *conjugate.

- isotomic conjugate. See *conjugate. Isotomia (i-sō-tō'ni-ā), n. [NL., ζ Gr. λσοτονία, equal tension, ζ λσότονος, of equal tension, ζ λσος, equal, + τόνος, tension, tone.] Equality in tension between the different elements of living matter or between two solutions divided by a dialyzing membrane. Isotonia of the blood is the state of equal tension in corpuscles and plasma, by which the integrity of the former is preserved. Isotonia in muscle is exhibited when the muscle shortens on the application of a stimulus, the two ends being approximated; it is destroyed when the extremities are fixed. Isotonia exists in two solutions separated by a porous membrane when no osmosis occurs. See osmose. Med. Record, Aug. 1, 1903. p. 189. 1, 1903, p. 189.

isotonic, a. 2. In phys. chem., possessing or producing equal osmotic pressures; especially, having salts dissolved in such proportion as to occasion no change of volume in red bloodcorpuscles put in contact with the solution. Solutions having less concentration are called hypotonic; those having greater concentration, hypertonic. Poynting and Thomson, Properties of Matter, p. 190.

3. Relating to isotonia.—Isotonic contraction.

isotopic (i-sō-top'ik), α. [Gr. iσος, equal, + rόπος, place, + -ic.] Similarly substituted: used of compounds containing similar atoms or groups in the same position with reference or groups in the same position with reference to some other atom or group, as m-chlortoluene and m-bromtoluene. Cohen and Miller, in Jour. Chem. Soc. (London), 1904, p. 1624. isotoxic (i-sō-tok'sik), a. [Gr. iσος, eqnal, + τοξικόν, poison.] Same as *isotytic. Science, July 3, 1903, p. 9.

isotoxin (i-sō-tok'sin), n. [Gr. iσος, equal, + E. toxin.] A toxin directed against cells of individuals of the same species. Faughan and Novy, Cellular Toxins, p. 144.

ranges of temperature; a line of equal varia-bility of mean daily temperature. Supan. [Sotricha (ī-sot' ri-kā), n. [NL., $\langle \text{Gr.} i\sigma\sigma_{\zeta} \rangle$, equal, $\theta = \theta = \theta$, n. [Same as $\theta = \theta = \theta$]. The typical genus of the family Isotrichidæ. Stein, 1859.

Isotrichidæ (î-sô-trik'i-dê), n. pl. [NL., Isotricha + -idæ.] A family of holotrichous ciliate infusorians, having a more or less plas-tie but not contractile body, the cuticle thick, and the mouth posterior and accompanied by a distinct pharyux. It includes the genera Isotricha and Dasyfricha, parasitic in the digestive tract of ruminants. Also Isotrichina.

isotrimorphic (ī"sō-trī-môr'fik), a. Same as \star isotrimo $ar{r}$ phous.

isotrimorphism (i"sō-trī-môr'fizm), n. [iso-trimorph-ous + -ism.] isomorphism among the members of trimorphous groups.

isotrimorphous (i"sō-trī-môr'fus), a. [Gr. $i\sigma oc$, equal, $+\tau \rho \iota$ -, three, $+\mu o\rho \phi \dot{\eta}$, form, +-ous.] Exhibiting isotrimorphism.

isotropism (ī-sot'rō-pizm), a. Same as isotropic. isotropism (ī-sot'rō-pizm), u. [isotrop-y + -ism.] Same as isotropy.

isotropy, n. 2. In embryol., the property whereby all the parts of the unsegmented egg are alike capable of giving rise to any portion of the embryonic body: opposed to unisotropy. isotropyl-cocaine (ī-sō-trō pil-kō ka in), n.

Same as *truxillinc. isouric (ī-sō-ū'rik), a. [Gr. ἴσος, equal, + Ε. uric.] Noting an acid, a colorless, pulverulent compound, $C_5H_4N_4O_3$. prepared by the interaction of cyanamide and alloxantin. It is isomeric with uric acid.

isovalerianic (i "sō-vā-lē-ri-an'ik), a. Same as *isovaleric.

isovaleric (î"sō-vā-lē'rik), a. [Gr. isoc, equal, + E. valeric.] Noting an acid, a colorless oily compound, (CH₃)₂CHCII₂COOH, prepared from isobutyleyanide or by the oxidation of isoamyl alcohol. It boils at 174° C. and has an odor of valerian. Also called 3-methylbutanoie acid.

isovoluminal (ĭ/sō-vō-lū'mi-nal), n. [Gr. iσος, equal. + L. volumen (volumin-), in modern physical sense of 'volume,' + -all.] A curve or surface of equal volumes upon a thermodynamic diagram or model. Physical Rev., April, 1905, pp. 264, 265.

isoxazole (i-soks-az'ōl), n. [Gr. $i\sigma o c$, equal, + E. o x (ygen) + az (ote) + -ote.] The name

They are anhydrids of the oximes of β -diketones or β -ketoaldehydes, and correspond to the pyrazoles. Many of them have a strong odor resembling that of pyridine.

isoxime (1-sok'sim), n. [Gr. iooc, equal, +

issue, n .-

parative suffix -os, -us (as in min-us, etc.), + ter, a secondary comparative suffix (see -ter).] A termination of several English words from the Latin, representing a comparative formation not felt in English use. Examples are minister, sinister, etc.

-ister². [ME. -istre, COF. -istre, a by-form of -iste (E. -ist), prob. due to conformity with ageut-words in -istre, from L. -ister, -is-ter, as in ministre, \(\(\L. \) minister (see \(\starting{\pm} \)-ister\(\)).] suffix, a variant of -ist, occurring in chorister, itaconic (it-a-kon'ik), a. Noting an acid, a patmister, sophister, and other words now obcolorless compound, HOCOCH:C(CH₃)COOH, solete, as alchemister. It may exist also in the English formation barrister.

istesso (i-stes'o), a. [It. istesso, stesso, the same; \(\) L. *iste ipsus, iste ipse, 'that self': iste, he, that; ipse, he, one's self.] In music, in the expression l'istesso tempo, the same time or pace (as that of some preceding movement). Also called medesimo tempo.

Isthmiad (ist'mi-ad), n. [Gr. ' $1\sigma\theta\mu$ uáç (-a δ -), prop. adj., \langle ' $1\sigma\theta\mu$ ua, the Isthmian games: see Isthmian.] In Gr. antiq., the period of two years between dates of recurrence of the Isthmian games. The Isthmian games were held in the first month of the second and fourth years of each Olympiad.

years of each Olympian.

isthmian, a. II. n. One who lives on an honey.

isthmus, as an Indian of the Isthmus of Italian-May (i-tal/yan-mā'), n. The meadowsweet, Führendula Ülmaria.

isthmic (ist'- or is'mik), a. [Gr. $\langle i\sigma\theta\mu\delta\varsigma$, isthmus.] Same as isthmian. [Gr. iσθμικός,

isthmeplegia (ist- or is-mō-plē'ji-ā), n. [NL., ⟨Gr. iσθμός, isthmus, ridge, + πληγή, stroke.] Paralysis of the soft palate.

isthmus, n. 4. In fishes, the lower part of the septum between the opposing gill-openings. It is supported and stiffened by the urohyal.

Istieus (is-ti-ē'ns), n. [NL.] A genus of Cretaceous teleost fishes of the family Albulidx, having an elongate body with much-extended dorsal fin, small anal fin, and forked It closely resembles the living deep-sea fish Bathythrissa.

fish Bathythrissa.

istle, n.—Jaumave istle, the commercial name of the best grade of Tampleo fiber. It is obtained from the young inner leaves of Agave lophantha, a plant native to northeastern Mexico. The center of production is the Jaumave valley, in the state of Tamanlipas.—Palma istle, a commercial grade of Tampleo fiber, obtained from the inner leaves of several plants known in Mexico as palmas. The plants yielding the most of this fiber are the palma samandoca, Samuela Carnerosana, and the palma pita, Yueca Treculeana. See *palma pita and *palma samandoca.—Tula istle, a commercial grade of Tampleo fiber, so called because produced most abundantly in the vicinity of Tula, in the state of Tamaulipas, Mexico. The fiber is obtained from the inner leaves of the lechuguilla. Agave beckequilla. It is from 12 to 30 inches long and nearly white in color.

istle-machine (is 'tle-ma-shen'), n. Same as

istle-machine (is'tle-ma-shēn"), n. leaf-fiber machine (which see, under *fiber¹).

isuret (ī-sū'ret), n. Same as *isuretine.
isuretine (ī-sū-rē'tin), n. A colorless compound, HON:CHNH₂, prepared by the action of hydroxylamine and hydrocyanic acid. It forms rhombic columnar crystals, melting and partly decomposing at 104-105° C. Also called methenylamidoxime.

Isuropsis (ī-sū-rop'sis), n. [NL., \langle Isurus + Gr. $\delta\psi uc$, appearance.] A subgenus of sharks belonging to the family Samuidx, the mackerelsharks.

Isurus (i-sū'rus), n. [NL., ζ Gr. lσος, equal, + οὐρά, tail.] A genus of the mackerel-sharks, found on both sides of the northern temperate



Isurus dekayi. (From Bulletin 47, U. S. Nat. Museum.)

issue, n.—Failure of issue, See *failure.—Issues on It. An abbreviation (b) of Italy.

sheriffs, in Eng. law, amercements or fines to which sheriffs were subjected for neelect or omission to perform their duties. They were levied and collected out of the issues or profits of their lands; hence the name.

-isster¹. [L. -ister, a comparative suffix, consisting of -is, representing the original comsisting of -is, representing the original comparative suffix of the results of the resul (Vochysia).

itabo (ē-tā'bō), n. [Native name.] In Costa Rica, Yucca elephantipes, a plant with trunk swellen at the base and growing to the height of 8 or 10 meters, with many compact branches and rigid, spreading, linear, minutely denticulate leaves. The flowers are creamy white, growing in a panicle. It is much planted about houses and in the hedges of native gardens. In Guatemala and Honduras called izote.

formed by the hydration of citraconic an-hydrid at 150° C. It crystallizes in rhombic octahedra, melts at 161° C., and is closely related to citraconic and mesaconic acids.

itadibrompyrotartaric (it "a - dī - brom - pī " rōtär-tar'ik), a. Noting a crystalline acid, $C_5H_6O_4Br_2$, prepared by the addition of bromine to itaconic acid. When boiled with water it gives aconic acid.

Italian. I. d.—Italian defense, green, pool, sumac. See *defense, etc.

II. n. 3. A member of a race of honey-bees imported into the United States from Italy and having at least three yellow bands across the abdomen when the latter is distended with

itamalic (it-a-mā'lik), a. [ita(conic)? + malic.] Noting an acid, a hypothetical compound, CH₂OHCH(COOH)CH₂COOH, known only in the form of salts, the calcium salt being prepared by heating calcium paraconate with

water and calcinm carbonate. water and calcium carbonate.

itch, n.—Barbers' itch, ringworm of the beard; tinea sycosis.—Farmers' itch, usually the same as winter itch.—Norwegian itch, an ulcerative disease of the skin, thought by some to he syphilitic, by others lepric; also, a form of scabies caused by the presence of the Norway itch-mite, Sarcoptes scabiei var. lupi Megnin.—Prairie itch, usually the same as winter itch.—Sugarbakers' itch, dermatitis affecting workers in sugarrefineries.—Water-itch, a form of itch affecting the feet of coolies working in the rice-fielda.—White itch, in teather-manuf., an imperfection on skins caused by some skin-disease. C. T. Davis, Manuf. of Leather, p. 96. [Rare.] itch, the field, which itch in the stable field itch. The itch-mite.

itch-tick (ich'tik), n. The itch-mite. itchwood-tree (ich'wùd-trē), n. A forest-tree of the Fijian Islands, Semecarpus Vitiensis, belonging to the sumae family: called kau-karo (itch-tree) by the natives. It has an acrid, poisonous milky juice and produces an eruption on the skin like that caused by Rhus Vernix.

Vernix.
 -ite². (e) In chem., a suffix used not only in the names of salts derived from sulphurous acid, as calcium sulphite, but also in the names of certain substances belonging to the class of sugars, as mannite and ducite, though these latter names are now systematically made to end in -ol (indicating chemical relation to the alcohols), as mannited and ducited: also used without technical precision in names of pharmacentical and commercial products, as glycerite, dynamite, vulcanite, etc.
 -itic. [L. -iticus, Gr. -ιτικός, -ιτ-ι-κό-ς.] A termination of adjactives of Latin or Greek origin or

nation of adjectives of Latin or Greek origin or type, from nouns or adjectives in -ite2, as in anthracitic, dendritic, hematitic, pyritic, etc., and Hamitic, Semitic, etc. It is sometimes used without an intermediate form in -ite.

granitic the termination is -ite1 + -ic.

itin. An abbreviation of itinerant or itinerary. itinerate (ī-tin'e-rāt), q. Itinerant.

-itious². [Also, more prop., -icious; \langle L. -ici-us, -icius (later often written -itius): (a) -icius, -ic-iu-s, from nouns, as ciner-icius, of the nature of ashes, gentil-icius, of the clansmen, tribun-icius, of atribune; (b)-icius, -ic-iu-s, from perfect participles, as advent-īcius, characterized by having come in from without, adscripticius, of the class of the adscripti, comment-icius, conduct-īcius, fact-īcius, fict-īcius, sup-posit-īcius, etc., of an invented, hired, made, feigned, substituted, etc., nature.] A compound suffix in adjectives of Latin origin, as in adscriptitious, adventitious, commentitious, conductitious, factitious, fictitious, supposititious, etc., or formed on the Latin type, as abstractitious, adscrittious, excrementitious, etc. Isvara (is'vä-rä), n. [Skt. isvará (iç-), lit. 'able abstractitious, adscititious, excrementitious, etc. to (do), capable.'] Lord; master: an epithet -itish. A termination of some patrial adjec-

isoxime (ī-sok'sim), n. [Gr. loog, equal, +
E. oxime.] The name given to one of two or
more forms in which some oximes are obtained.

I. S. W. G. An abbreviation of imperial standard wire-gage.

Issue, n.—Failure of issue. See */ailure.—Issues on sheriffs, in Eng. law, amerements or fines to which sheriffs were subjected for neglect or omission to perform their duties. They were levied and collected out of the issues or profits of their lands; hence the name.

Issues or profits of their lands; hence the name.

Issues or profits of their lands; hence the name.

In T. An abbreviation of Inner Temple.

In T. An abbreviation of Inner Te

A compound suffix, composed of elements answering to -ity and -ous, occurring in some adjectives, as calamitous, felicitous, gratuitous, iniquitous, necessitous, etc.

itrol (it'rol), n. [(c)itr(ate) + -ol.] The tradename of silver citrate, a substance used in

medicine as an antiseptic.

itui (ē-tö'ē), n. [S. Amer.] An eel-like fish, of the family Sternopygidæ, found in the fresh waters of South America. itzcuintli (ēts-kö-ēn'tli), n. [Nahuatl.] The

indigenous Mexican dog.
itzli (its'li), n. Same as iztli.
iulid (i-u'lid), n. and a. I. n. A member of

the family Iulidæ or Julidæ. II. a. Of or belonging to the myriapodous

family Iulidæ or Julidæ.

Iulidæ, n. pl. [NL.] See *Julidæ.

Iulus, n. [NL.] See *Julus.
-ium. [L. -ium, -iu-m, orig. *-io-m, = Gr. -tov, 10-v, composed of suffix -io, -yo, + neuter ending -m.] 1. A termination of many English nouns and adjectives from the Latin and Greek. It is usually without significance (in English) as a suffix. Examples are medium, minium, etc. In some words of Greek origin it represents an original diminutive form, as in *cephalium, geranium, megathe-

2. In chem., this suffix occurs especially in the names of the larger number of the metallic elements. The latin names of some of the principal metals end in -um, as argentum, aurum, cuprum, ferrum, ptumbum, etc. In forming names for the metals obtained from potash and sods, Davy, their discoverer, seems to have adopted the termination -ium merely for the sake of euphony. This ending has commonly prevailed in later formations, as cadmium, iridium, lithium, etc.; but lanthanum, molybdenum, platinum, tantalum, etc., occur, and aluminum besides aluminium.

ivain (i'va-in), n. [$iva + -in^2$.] A dark-yellow resinous bitter compound, $C_{24}H_{42}O_3$, obtained from iva, the leaves and stems of Achillea moschata, gathered before flowering.

Tyernian (i-ver'ni-an), a. [L. Iverna, Iuverna, Hibernia, +-an. Cf. Hibernian.] Relating to the supposed pre-Celtic population of Ireland. ivigitite (iv'ig-tit), n. [Iviqt(ut) + -ite².] A kind of potash mica occurring in seams in the cryolite of Ivigtut, Greenland.

ivorine (ī'vō-riu), a. [ivor-y + -ine1.] Like ivory in consistence and color.

ivory¹, n.—Morse ivory, ivory taken from the tusks of the walrus. See morse¹, l. ivory-eater (i'vo-ri-e*tèr), n. Same as *ivory-

rat.

ivory-nut, n.— Caroline Island ivory-nut, the seed of Cαlococcus Amicarum, a vinnate-leaved palm indigenous to the Caroline Islands. The fruit has a hard glossy brown pericarp tesselated with overlapping scales after the manner of that of Raphia and Calamus. The albumen of the seed is hard and ivory-like and is used for making buttons and other objects. Allied species occurring in the Pscific sie Cαlococcus Salomonensis of the Solomon Islands, C. l'titensis of Fiji, and C. Warburgi of the New Hebrides. See *Aapple-nuts.

ivory-nlant, f(vō-ri-nlant), n. Any one of the

ivory-plant (ī'vō-ri-plant), n. Any one of the three species of palms belonging to the genus Phytelephas, especially P. macrocarpa. See Phytelephas and ivory-nut.

ivory-plum (i'vō-ri-plum), n. 1. The creeping wintergreen or checkerberry, Gaultheria procumbens.—2. The creeping snowberry, Chiogenes hispidula.

ivory-rat (1'vo-ri-rat), n. An African squirrel, Xcrus stangeri, named Sciurus eborivorus by Du Chaillu, and known as ivory-eater from its habit of gnawing elephant-tusks.

ivory-saw (ī'vō-ri-sâ), n. A thin saw mounted in a steel frame, similar to a hack-saw, used

for cutting ivory. ivorywood (i'vo-ri-wud), n. The wood of an Australian tree, Siphonodon australe, of the staff-tree family. It is close-grained, firm, and easily worked, and is an excellent wood for the cabinet-maker.

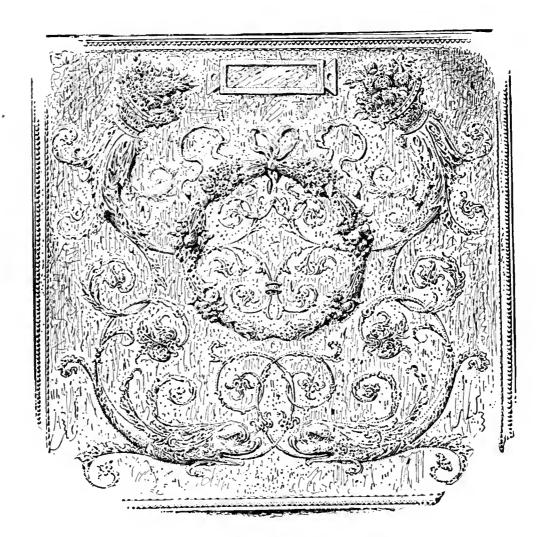
ivy¹, n. 2. In Australia, the cultivated varieties of *Pelargonium peltatum*, commonly known as ivy-leaved geraniums, which are there trained over fences and walls, sometimes to a height of 20 or 30 feet, supplanting the English or common ivy in this use. See iry-leaved *geranium.—Big-leaved ivy, the mountain laurel or calico-bush, Kalmia latifolia.—Boston ivy. Same as Japanese *ivy.—Cape ivy, Senecio mikanioides, ° Called German iey in cultivation. See Senecio, 1.—Climbing try, the poison-ivy, Rhus radicans.—English try, the usual name in America of the common ivy, Hedra Heliz,—Five-fingered ivy, five-leaved ivy, the Virginia creeper, Pathenocissus quinquefolia.—Ground try. See ground-iey.—Ivy canker. See *\text{canker}.—See *\text{canker}.—Japanese ivy, Parthenocissus tricuspidata, a very ornamental vine which clings to walls and climbs freely over houses, churches, etc. Though a native of Japan, it thrives in most parts of Europe and America. In the United States it is often called Boston ivy.—Laurel-ivy. Same as bigleved *\text{ivy.}—Mexican ivy, Rosenbergia scandens, a tender, showy, elimbing plant, often cultivated in gardens. See Cobea.—Native ivy, in Australia: (a) The Macopare Harbor grape, Cadacinum adpressum. (b) The naturalized Cape or German ivy, Senecio mitanioides. See Senecio, 1.—Spoomwood ivy, the sheep-laurel or lambkill, Kalmia angustifolia.—Three-leaved ivy.—See Senecio, 1.—Spoomwood ivy, the sheep-laurel or lambkill, Kalmia angustifolia.—Three-leaved ivy.—See Senecio, 1.—Spoomwood ivy, the sheep-laurel or lambkill, Kalmia angustifolia.—Three-leaved ivy.—See Senecio, 1.—Spoomwood ivy, the sheep-laurel or lambkill, Kalmia angustifolia.—Three-leaved ivy.—See Senecio, 1.—Spoomwood ivy, the sheep-laurel or lambkill, Kalmia angustifolia.—Three-leaved ivy.—See Senecio, 1.—Spoomwood ivy, the sheep-laurel or lambkill, Kalmia angustifolia.—Three-leaved ivy.—See poison-ivy.—West Indian ivy, Macrycravia unshelata, a climbing shrub with thick, leathery leaves and curious long-staked flowers in terminal umbels. See Marcyravia.

Earth with her twining memories seise o'er Their hoty sepulchres; the chainless see, In terminal umbels. See Marcyravia.

Earth with her twining memories seise o'er Their hoty sepulchres; the chainless see, In the plant of the family Located in yes down in the latin fees of commercial importance called iztli de Coarlesson, which in Costa, which bears edible fruit often the plant of the family Locate

Earth with her twining memories wies o'er Their holy aepulchres; the chainless sea, In tempests or wide calms, repeats their thoughts. Lowell, Prometheus, iv.

Ixionian (ik-si-ō'ni-an), a. [Ixion + -ian.] Relating to Ixion, in Greek legend, a king of Thessaly whose punishment in the lower







3. An abbreviation (a) [t. c.] of the Latin judex, judge; (b) of Jupiter; (c) of Justice.—White J, an American nymphalid butterfly, Eugonia jabum: so called from a white mark resembling the letter J on the under side of the hind wings. It occurs in Canada and the northern United States east of the Rocky Monntains, and its larve feed on the birch and willow. It is also

known as the Compton tortoise.



White I (Eugonia j-album).

J. A. An abbreviation of judge-advocate. jab, n. 2. Naut., a net used in catching the fry

of fish. jabiru, n. This name has also been applied to two large, stork-like birds of the Old World, somewhat smaller than the South American jabiru and having the head and neck feethered instead of bare. The African jabiru, Ephippiorhynchus senegalensis, is glossy black above, white below; the primaries are also white. The Australian jabiru, Xenorhynchus australis, is of a greenish black

jabon (hä-bōn'), n. [Cuban use of Sp. jabon, soap.] A serranoid fish, Rypticus saponaceus, found from Florida to Brazil.

jaboncillo (hä-bōn-thēl'yō), n. [Sp. dim. of jabon.] Same as ★jabon.

jabonine (jab'ō-nin), n. [jabo(randi) + -n + - ine^2 .] A colorless oily basic compound, $C_9H_{14}N_2$, prepared by the action of barium hydroxid on pilocarpine or pilocarpidine. It boils at 235–240° C.

jaborandine (jab-ō-ran'din), n. [jaborandi + -inel.] Same as *jaboridine.
jaboric (ja-bor'ik), a. [jabor(andi) + -ic.]
Derived from jaborandi.—Jaboric acid, a solid compound, Cl₃H₂₅O₅N₃, formed by heating pilocarpine, of which it is a condensation-product.

jaboridine (ja-bor'i-din), n. [jabor(andi) + -id + -ine².] An amorphous, poisonous, mydriatic alkaloid, $C_{32}H_{32}O_4N_4$, one of the three found in jaborandi (*Pilocarpus*). Physiologidriatic alkaloid, $C_{32}H_{32}O_4N_4$, one of the three found in jaborandi (*Pilocarpus*). Physiologically it is antagonistic to pilocarpine. Also gaboridine.

Also jackaroo (jak-a-rö'), v. i. [jackaroo, n.] To learn one's business by busin-farming: said of

jabot, n. 2. In entom., the crop of any herbivorous orthopterous insect.

jabul (hä-böl), n. [Sp. spelling for *habul, *habol, < Bisaya habol, *habul, a garment (see def.), a blanket, sheet (habol-habol, a membrane): ef. haból, to weave, haból, a woven piece, thick and coarse.] A garment, worn by Moro women, formed of a long piece of cloth, a word together at the ends piece of cloth, sewed together at the ends, which is wrapped about the body in various ways. [Pĥilippine Is.

jabuticaba $(zh\ddot{a} - b\ddot{o} - t\ddot{e} - k\ddot{a}' b\ddot{a}), n.$ (jabuti, tortoise, +caba, fat.] Any one of three species of myrtaceous trees belonging to the genus Myrciaria, M. Jaboticaba; M. trunciflora and M. cauliflora, yielding edible berries.

jacal (hā - kāl'), n. [Also jacale; < Nahuat! capacity: often a contemptuous epithet. xacalli, a straw hut, < xalli, sand, + calli, jack-card (jak'kārd), n. A hand-instrument house.] A native Mexican house or hut of for carding cotton or wool; a hand-card. C. which the walls are constructed of rows of thin vertical poles, covered and chinked with mud. Also applied to this method of building.

On the western margin of the ruin, and nowhere else within it, there are traces of another kind of construction which was not found elsewhere within the canyon. This method is known to the Mexicans as "jacal," and much used by them. It consists of a row of sticks or thin poles

to another, usually from the mill-pond into the sawmill; a bull-chain.

jacket, n. 8. The loose wrapper of paper which protects the binding of a book.—9. The

set vertically in the ground and heavily plastered with mud. At present not one of these walls remains to a height of 6 inches above the ground, but the lines of poles broken off at the ground level are still visible.

Rep. Bur. Amer. Ethnol., 1894-95, p. 108.

jacaranda, n. 2. [l.c.: Pg. pron. zhäk-ä-rändä'.] A name of certain large Brazilian trees which wield the received.

which yield the rosewood of commerce; also, the wood itself. The trees so called include believed the bignoniaceous genus Jacaranda, Dalbergia nigra, and several species of the genus Machærium of the bean family, especially M. scleroxylon, M. firmum, and M. legale. The last two species are usually distinguished as jacaranda roxa (red jacaranda) and jacaranda preto (black jacaranda). See rosewood, 1, Jacaranda, 1, and Machærium, 1.

jack¹, n. 9. (f) Carangus bartholomæi, a fish found in the West Indies and northward to North Carolina.

in the West Indies and northward to North Carolina.

11. (1) (2) In telephony, a device for making switchboard connections. It consists of an insulated ring, to which one or more springs are attached, which is mounted upon the switchboard frame. Connections are made by inserting in the ring a conical metal plug to which the conductors to be brought into circuit are attached. (m) A device for transmitting motion from a horae-power or treadmill to a machine. (n) Any device consisting essentially of a roller or barrel used as a winch, crab, or hoisting- or hanling-derrick. (o) A machine in which skins are polished under pressure. (p) A device for winding the warp on the warping-beam of a loom.

22. Same as black-jack, 3.—Answering Jack, a jack used by operators in a telephone exchange in answering the calls of subscribers.—Chisel-mouth Jack. Same as *chiselmouth and hardmouth.—Coal-break-ing Jack. See jack!, 11 (i) (1).—Horse-eye jack, a common name applied to certain fishes of the family Carangidæ.—Jack bean. See *bean!.—Jack Frost, frosty weather; freezing cold personified.—Jack's alive (naut.), an old-fashioned seaport dance.—Jack's alive (naut.), an old-fashioned seaport dance.—Jack's strippers, in euchre, two knaves, usually of the same color, so trimmed that they can be withdrawn from the pack (for the purpose of cheating) and placed on the top at will.—Multiple jacks, jacks connected in multiple to each line of a telephone exchange and so placed along the switch-board as to enable any operator to reach any line.—Multiple jacks, jacks connected in multiple to each line of a telephone exchange and so placed along the switch-board as to enable any operator to reach any line.—Natural Jack, in poker, a jack-pot which arises from some circumstance of the play, such as that of no one coming in against the age, as distinguished from jack-pots which are made by the circulation of a buck.—Pendulum Jack, in leather-manuf., a machine with an arm which swings like a pendulum. C. T. Davis, Leather, p. 271.—Pneumaticjack, Narcissus jonquilla.

jack¹, v. t. 3. In leather-manuf., to roll by

means of a roller attached to an arm. Modern

Amer. Tanning, p. 118.

jackaroo (jak-a-rö'), v. i. [jackaroo, n.] To learn one's business by bush-farming: said of an inexperienced greenhorn in Australia who assumes the position and the material and the same as jack fli'er), n. A wheel attached to assume the position and the material and the same as jack fli'er), n. A wheel attached to assumes the position and duties of a jackaroo before taking up a station of his own. See jackaroo, n. [Slang, Australia.] jackass-hare (jak'as-har), n. A book-name

for the jack-rabbit, Lepus callotis.

jack-bird, n. 2. A passerine bird, Creadion cinereus Buller, of the South Island, New Zealand: placed near the starlings.

jack-box (jak'boks), n. A box or frame in which is carried a jack-shaft. Such a box carrying one or more shafts, each supporting a bevel-pinion, is used in the bevel differential gearing of motor-cars or self-propelling fireengines.

jack-boy (jak'boi), n. A boy serving in a low

Vickerman, Woollen Spinning, p. 144.

jack-chain, n. 2. In lumbering, an endless spiked chain which moves logs from one point jacking, n. 2. An extra draft given to the

sheet of cardboard or thick paper which covers the impression surface of a printing-cylinder.-10. The hide or other natural covering der.—10. The filde of other natural covering of various animals, as sheep, seals, fish, etc.—11. The skin of a potato.—To obtain one's jacket, to secure, as an officer, appointment to the horse artillery. [Eng.]

After serving with a field battery for a few years, Lieut. T. obtained his "jacket," and was the beau ideal of a horse-artillery officer. Geog. Jour. (R. G. S.), XL 556.

Magellan tacket (nant.) a heavy, warm watcheap pro-

horae-artillery officer. Geog. Jour. (R. G. S.), XL 556. Magellan jacket (naut.), a heavy, warm watchcoat provided with a hood, and used by officers and men in cold latitudes. It was designed by Captain James Cook of the British navy.—Mask and smoke jacket, a device similar to a diving helmet and jacket, but much lighter, worn over the head and upper part of the body to enable the wearer to enter a place filled with smoke or poisonous gases.—Ragged jacket, a young harp-seal during his first molt. Goode.—Sayre's jacket, a sort of corset made of plaster of Paris, used to support the spine in cases of Potts' disease.—Yellow jacket, a jacket (makwa) of imperial yellow brocaded silk bestowed as a distinction by the Emperor of China on a high official, usually in acknowledgement of some important service rendered. acknowledgement of some important service rendered. See makwa.

See marva.

For these exploits he [Li Hung Chang] was made governor of Kiangsu, was decorated with a Yellov Jacket, and was created an earl.

Encyc. Brit., XXX. 268.

jacket-casing (jak'et-kā"sing), n. In engines, the jacket; the cover which incloses the steam-space about the cylinder of a steam-engine or the water-space about the cylinder of a gas-engine.

jacketing, n. II. a. Surrounding or protecting as a jacket: in phys., said of a layer of insulating material surrounding a calorimeter or other chamber to prevent the inflow or egress

Beyond the point at which the jacketing water is taken M. W. Travers, Exper. Study of Gases, p. 315. off

jacketing-machine (jak'et-ing-ma-shcn"), n. In candy-making, a machine consisting of 'wo hoppers, placed side by side, each containing liquid chocolate or other syrup or candy material and delivering its contents between rolls and through dies, in slender streams, to a and through dies, in siender streams, to a paper-covered traveling apron. One stream is in advance of the other; the second jackets or envelops the first and forms a double stick which is drawn out by the movement of the apron into a long thread which is cut into the required lengths by an antomatic knife. jacket-pipe (jak'et-pip), n. The pipe which conveys steam or water to or from the jacket

of an engine.

jacket-pump (jak'et-pump), n. A pump used to circulate the water in the water-jacket of

Jackfield ware. See *ware².

jack-flange (jak'flanj), n. In pianoforte-making, the projection from the whip to which the

a roasting-jack for the purpose of keeping it turning by the inertia of the wheel.

jack-frame, n. 2. In cotton-manuf., a roving-frame used for fine yarns.—3. A frame for holding a jack or winch.

jack-in-a-basket (jak'in-a-bas ket), n. Naut., a basket or beacon placed on top of a pole to mark a shoal or other danger. Sometimes a tub or a barrel is used instead of a basket.

jack-in-a-box, n. 9. A very small but power-ful serew-jack used by burglars to force locks, particularly to pull the spindle of a combination lock from the door.—10. A device for holding the tool on a planing-machine in position while cutting.—11. In Australia, same as hairtrigger-flower. Also called trigger-plant. See hairtrigger-flower and Stylidium.— Jack-in-a-box motion, an epicyclic train of wheels, an essential feature in the mechanism of a cotton-roving frame for regulating the relative speed of the hobbin and filer. Also called differential, equating, and sun-and-planet motion.

roving (in spinning fine cotton yarn on the mule) near the end of the outward traverse of the spindle-carriage. Nasmith, Cotton Spin-

ning, p. 253.

jacking-motion (jak'ing-mo"shon), u. An operation (ou a cotton-spinning mule) for putting supplementary drawing and twisting into the roving toward the end of the ontward traverse of the spindle-carriage. Nasmith, Cotton Spinning, p. 319. jack-in-trousers (jak'in-trou"zerz), n. The

jack-in-trousers (jak'in-trou"zerz), n. The wild red columbine, Aquilegia Canadensis, jack-ladder, n. 2. Same as *gangway, 4. jack-light (jak'lit), r. i. To hunt game or to fish with a jack-light: same as jack', 2. jack-lighting (jak'li-ting), n. The method or practice of hunting or fishing with a jack-light.

jack-nut (jak'nut), n. One of the nut-like separable portions of the jackfruit. See jack-lree, jack-pine (jak'pin), n. The gray pine, Pinus divaricata.

divaricata.

jack-pot, n. 2. In lumbering, an unskilful piece of work. [Slang.]—3. A pile of logs.—To open a jack-pot, in poker, to announce that the necessary qualification, jacks or better, is held.

jack-press (jak'pres), n. A baling-press for baling in which the pressure is exerted by means of a jack-screw or lever.

jack-pulley (jak'pul'i), n. 1. The belt-pulley on a roasting-jack by which it is made to turn.—2. The principal pulley on a jack-shaft. See *jack-shaft. See *jack-shaft.

jack-rod (jak'rod), n. In ship-building, a long iron rod, supported at frequent intervals by eye-bolts on the surface of structural parts, to which is secured by lashings the edges of awnings, weather-cloths, canvas covers, etc.

jack-rope (jak'rop), n. The wire rope by which the foot of a fore-and-aft sail is secured to the boom. It runs fore and aft through the eyes screwed in on top of the boom, and through small thimbles sewed on the bolt-rope, on the foot of the sail, at

jack-shaft (jak'shaft), n. The first shaft from the prime mover from which the main or line-shaft is driven. It is usually of a short length, and is connected to the turbine or engine by belting, gearing, or by a rope-drive. Elect. World and Engin., June 11, 1904, p. 149.

jack-shafting (jak'shaf"ting), n. *iack-shaft

jack-shark (jak'shark), n. A sailors' term for a shark.

jack-shay, jack-shea (jak'shā), n. In Australia, a tin quart-pot.

Hobbles and Jack Shays hang from the saddle dees. A tin quart-pot, used for boiling water for tea, and contrived so as to hold within it a tin pint-pot.

A. C. Grant, Bush Life in Queensland, I. 209.

jackson (jak'son), v. t. To bother; annoy. [Whalers' slang.]
Jackson beds. See *bed1.
Jackson-vine (jak'son-vin), n. The matrimony-vine, Lycium vulgare,

jack-spaniard, n. 2. In the British West

That long black wasp, commonly called a Jack Spaniard, builds pensile paper nests under every roof and shed.

Kingsley, At Last, v.

jack-spring (jak'spring), n. In pianoforte-making, a spring that pulls the jack back or down after it is released. See cut under pianoforte.

jack-strip (jak'strip), n. A strip of insulating material which forms the support of a group

stain on or in the mouth. E. E. Morris, Austral English.

jack-whip (jak'hwip), n. 1n pianoforte-mak-ing. Same as *khip, 12. See cut under pianoforte.

jacky, n. 2. A familiar name for an enlisted man in the navy, jack-yard (jak'yärd), n.
A light yard used to extend the head of a squareeutgaff-topsail: eommon

eutgan-topsanl: common on English yachts, lt differs from a sprit in that the latter is kept parallel with the topmast, while the jack-yard is carried a-cockbill—the highest end raking toward the stern when the yacht is on the wind. Also known as a gaftopsail-yard.

jacky-breezer



fascicans, supposedly named because it is jag², n. 6. A rustie; a farm-hand: as, a plow abundant and sings in the winter. [New jag. [Dialect, Eng.]] South Wales.]

South Wales.]

jacob, n. 2. A jacobus, a gold coin of James I.

of England.—3. (a)†. A housebreaker who
carried a ladder. (b) A ladder. Grose, Diet.

Vulg. Tongue.—4. A half-witted person.

Faux, Flash Diet.

Jacobian², n. 2. Short for Jacobian curve.

—Jacobian of a net of plane curves. Same as *Hessian of a net of plane curve.

Jacobi's unit of current, unit of resistance.

Jacobitish (jak'ō-bī-tish), a. [Jacobite + -ish.]

Same as Jacobite.

Jacob's-ladder, n. 2. Also, any plant of the genus Polemonium, especially P. cærudeum and P. reptans, (b) The yellow toad-flax or butter-and-eggs, Linaria dens.—American Jacob's-ladder, (a) Polemonium, especially P. cærudeum and P. reptans, (b) The yellow toad-flax or butter-and-eggs, Linaria easting, by easting the metal around it.

Jagging-board (jag'ing-board), n. An inclined board or box for washing ore-slimes.

Jagong (jä'gông), n. [Malay.] Same as maize, 1 and 2.

Jand 2.

Jacob's-ladder, n. 2. Also, any plant of the genus secure or fasten something, the last in a jagged or serrated bar, bolt, or shaft in a easting, by easting the metal around it.

Jagging-board (jag'ing-board), n. An inclined board or box for washing ore-slimes.

Jagong (jä'gông), n. [Malay.] Same as maize, 1 and 2.

Jacqueminot (zhäk-mi-nō'), n. [Named General Jacqueminot (after J. F. Jacqueminot, 1787-1865), a French general.] The name (General Jacqueminot) of a deep-red variety of the rose. Often ealled jack-rose or jack.

Jacques cell. See *cell.

Jacquet's recording chronometer. See *chro-

Jacquet's recording chronometer. See *chronometer.

Jactant (jak'tant), a. [L. jactans (-ant-), ppr. of jactare, boast: seo jactation.] Boastful; given to bragging.

Jactus (jak'tns), n. [L., a throwing, < jacere, throw see jet1.] In law, same as jettison (which see).—Jactus lapilli (Latin, 'throwing of stone', in circil law, a method of preventing the acquiring of title by prescription. The real owner of the land upon which another was building went upon the building and in the presence of witnesses brought for the purpose, threw down a stone upon the land, thus challenging the builder's right.

Hydaspian stage.

Jalap, n.—Cancer jalap. See *cancer-jalap.—False jalap, n.—Cancer jalap. Sem *cancer-jalap, of the southern of the four-o'clock or marvel-o'-levu, Mirabitis Jalapa, (b) Ipomæa Jalapa, (b) Ipomæa Jalapa, of the southern Jalap. Same as manoro'-the-earth—Woody jalap, the male jalap. Same as manoro'-the-earth—Woody jalap, the male jalap.

Jalap, (a) The root of the four-o'clock or marvel-o'-levu, Mirabitis Jalapa, (b) Ipomæa Jalapa, of the southern United States and tropical America. See Mechoacan root, underroot!—Fusiform Jalap. See jalap.—Wild jalap. Same as manoro'-the-earth—Woody jalap, the male jalap.

Jalap, (a) The root of the four-o'clock or marvel-o'-levu, Mirabitis Jalapa, (b) Ipomæa Jalapa, (b) Ipomæa Jalapa, (c) Ipomæa Jalapa, (c) Ipomæa Jalapa, (c) The root of the four-o'clock or marvel-o'-levu, Mirabitis Jalapa, (c) The root of the four-o'clock or marvel-o'-levu, Mirabitis Jalapa, (b) Ipomæa Jalapa, (b) Ipomæa Jalapa, (c) Ipo

jaculator-fish (jak'ū-lā-tor-fish"), n. A fish, belonging to the family Toxotidæ, which has been eredited with the faculty of shooting drops of water at insects on low-hanging branches and thus securing them. has not been confirmed. See archer-fish.

what variable composition associated with nephelite syenite. One variety consists of titaniferous augite, with magnetite, ilmenite, nephelite, and perovskite. Another variety contains a subordinate amount of angite: others are nearly pure ilmenite with scattered crystals of augite. Derby, 1891.

jade1, v. t. 4t. To make a fool of; scorn. 1 do not now foole my selfe, to let imagination iade Shak., T. N., ii. 5. 178.

material which forms the support of a group of jacks upon a telephone switchboard.

jack-the-painter (jak "thē-pān' ter), n. In Australia, a very aerid green tea that leaves a Jadelot's furrows. See *furroe.

jadeitite (jā'dīt-īt), n. [jadeite + -ite².] In putrog., a rock composed of the mineral jadeite. Also called jadeite-pyroxentte.

Jadelot's furrows. See *furroe.

jadoo (jā'dö), n. [Hind. Pers. jādā, Avestan yātu.] In India, magie; conjurers' trieks; an exhibition of apparently supernatural performances.

jadoo-fiber (jä'dö-fī"ber), n. A prepared cocoanut-fiber used in greenhouses for potting plants.

'adoube (zhā-döb'). [F., 'I adjust': see adub.] An expression in chess by which a player notifies his adversary that he is merely j'adoube (zhā-döb'). without intending to play either. Any form

brē zer). n. A dragon-fly.

jacky-winter (jak 'i - jack-yard. jady (jā'di), a. [jade¹ + -y¹.] Vicwin ter), n. A small flycatcher, Micræca tricky; ill-conditioned: said of a horse.

The North Lincolnshire "plough-jags" have gone from house to house this season [1901] fantastically attired for the Plough Monday mummeries.

N. and Q., 9th ser., VII. 322,

J. A. G. An abbreviation of Judge Advocate

jag-bolt (jag'bōlt), v. t. To fasten by the use of a serrated or jagged bolt, as in *jagging (which see).
jagger', n. 4. The rough projection raised by nicking a piece of metal with a chisel; a jag.

Jagging (jag'ing), n. The use of a jag-bolt to secure or fasten something; the insertion of a jagged or serrated bar, bolt, or shaft in a

jahad (jä-häd'), n. See jihad. Jahveism, n. See *Jahvism.

Jacobson's canal, cartilage. See *canat!.

*cartilage.

*cartilage.

*cartilage.

Jacob's-shell (jā'kobz-shel'), n. The seallopshell worn by pilgrims who had visited the shrine of St. James the Greater, whose emblem it is.

Jacob's ulcer. Same as rodent *ulcer.

Jacquard. An abbreviation of Jacquard loom or Jacquard attachment (which see, under loom).

Jainist (ji'nist), n. and a. [Jain + -ist.] Same

Jakutian (ya-kö'ti-an), n. In geol., a stage of the Lower Pelagic Triassic series in India preceded by the Brahmanian and followed by the Hydaspian stage.

Mexico.

A fish, jam¹, v. t. 4. To push (a bill or measure) through the regular routine of a legislative body by the brute force of a majority controlled by 'the machine,' without proper consideration or discussion. [Political slang.]

N. Y. Com. Advertiser, April 11, 1901.

has not been confirmed. See archer-fish.

jaculiferous (jak"ū-lif'e-rus), a. [L. jaculum, durt, + ferre, bear, + -ons.] Bearing prickles or spine-like darts. Syd. Soc. Lex.

jacupirangite (jak"ū-pī-ran'jīt), n. [Jacupiranga, São Paulo, Brazil. + -ite².] In petrog., a group of phanerie igneous rocks of somewhat variable composition associated with

jam2, n. 2. An extra pool in the game of napoleon.

jam² (jam), v.; pret. and pp. jammed, ppr. jamming. [jam², n.] I. trans. To smear or spread with jam: as, a slice of bread thickly

II. intrans. To become jam: thicken to the consistency of jam. [Colloq.]

And I did so want that jam to jam properly.

R. Kipling, Fatima, in Indian Tales, p. 737. jam4 (jäm), n. [Sindhi jām.] The title of cer-

tain native chiefs in northwestern India.

K. S. Ranjitsinhji, the cricketer, had been adopted by the late Jam, but the adoption was set aside, with British sanction, in favour of a son by a Mahommedan mother.

Eneye. Brit., XXXI. 112.

Suddhoo... said that Janoo had told him that there was an order of the Sirkar against magie.... I said that, if there was any jadoo atoot, I had not the least objection to giving it my countenance and sanction, and to seeing that it was clean jadoo—white magic, as distinguished from the unclean jadoo which kills folk.

Kipiling, In the House of Suddhoo, in Plain Tales from the Hills, p. 135.

**Jama* (jä'mä), n. [Hind. Pers. jāmah, jāma.]

Jam. An abbreviation of Jamaica.
jama (jä'mä), n. [Hind. Pers. jāmah, jāma.
Cf. *jam⁵ and pajamas.] In India, a gown, especially one that is long and very full, folded iuto many plaits

Jamaica cucumber, discipline, wood. See *cucumber, etc.
jamaisine (ja-mā'sin), n. Same as berberine.

adjusting one or more pieces on the board jaman (jä'män), n. [Hindi.] The fruit of the jambolana, Syzygium Jambolana.

jambava (jam-bä'vä), n. [Hind. *jambāva, < jambū, jambu.] In India, a liquor prepared from the fruit of the jambu by fermentation.

It is stimulating and tonic in its action and is a favorite beverage with the natives. Med. Haudbook, V. 244. Buek,

jamb-lining (jam'li ning), n. A piece of light woodwork set up against a door-post or the like, one side of it forming the jamb.

jamborine (jam'bō-rin), n. [jambo(lana) + -r-+ -ine².] A white erystalline substance of uncertain composition, said to be contained in the seeds of jambolana (Syzygium Jambolana), jambos (jam'bos), n. [Prop. pl. of jambo, a form of jambu. Hence, NL. Jambosa.] The rose-apple, Caryophyllus Jambos, a tree of East Indian origin, now widely cultivated through-out the warmer regions of the globe for the sake of its fragrant fruit, and also grown as a greenhouse subject. In Mexico and Central America it is called pomarosa. See rose-apple. Jambosa (jam-bô'sä), n. [NL.(A.P. de Candolle, 1828, adopted from Rumphius), \(\lambda jumbos, a European form, properly pl. of \(jambos, jambu, the rose-apple. \)] An untenable uame for \(Caryophyl-

rose-apple.] An untenable name for Caryophyllus, a genus of plants of the family Myrtaceæ. The Malay apple, Caryophyllus Malacensis, the clove, C. aromaticus, and the rose-apple, C. Jambos, are well known species.

| An untenable name for Caryophyllus Myrtaceæ. My friend's son had just been ordained Deacon, or, in the language of the day, 'japanneed.'
| Sporting Mag., XVIII. 283. N. E. D. | Jargonic' (jär-go-nesk'), a. [jargon! + -ic.] | An untenable name for Caryophyllus Myrtaceæ. My friend's son had just been ordained Deacon, or, in the language of the day, 'japanneed.'
| Sporting Mag., XVIII. 283. N. E. D. | Jargonic' (jär-go-nesk'), a. [jargon! + -ic.] | Resembling a jargon; nonsensical: as, a jargonic phrase.

jambosade (jam'bō-zād), n. [jambos, native name.] The rose-apple, Caryophyllus Jambos. Also called jambu and jamrosade.

jambosine (jam' bō-sin), n. [jambosa + -ine²,] A colorless, tasteless, crystalline alkaioid, C_{10} $H_{15}O_3N$, contained in the bark of the root of Caryophyllus Jambos. It is without physiological action.

jamb-stone (jam'ston), n. A block or slab of stone set upright at the side of a doorway or window, so that one of its faces forms the

James (jāmz), n. A sovereign; the sum of twenty shillings. [Slang.]—James Royal (or Ryall), a silver coin of the reign of James VI. of Scotland, having the figure of a sword on one side, and vulgarly called the sword-dollar. Jamieson, Dict. Scot. Language.

form of gin, mounted on a movable framework and used to load logs on sleds and ears by horse-power.

| Japoniant (ja-pō'ni-an), n. [NL. Japonia, Japan, +-an.] A Japanese. Hakluyt.
| Japoniant (ja-pō'ni-an), n. [NL. Japonia, Japan, +-an.] A Japanese. Hakluyt.
| Japoniant (ja-po'ni-an), n. [NL. Japonia, Japan, +-an.] Pertaining or relating to Japan or to Japanese customs.

by horse-power.

jamon (hä-mōn'), n. [Sp. jamon, leg, thigh, ham: see gammon².] 1. A ham; bacon.—2. A guitar. [Southwestern U. S.]

jam-pin (jam'pin), n. A pin driven into a hele which is drilled or cut in a joint, to prevent

which is drifted or cut in a joint, or product one part shifting on the other.

jam-riveter (jam'riv'et-er), n. A pneumatic riveting-hammer when used in a frame: so japonica, n. (catechu). tracted space.

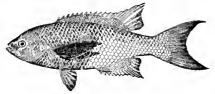
Janella (ja-nel'ä), u. [NL. (Gray, 1838).] The typical and only genus of the family Janellida

Janellidæ (ja-nel'i-dē), n. pl. [NL., ⟨ Janella + -idæ.] A family of pulmonate gastropods consisting of slug-like animals with no lower tentacles and having the shell in the form of an internal plate. It contains the genus Jauella. langada, n. 2. The tibeurbou, Apeiba Tibour-bou: so called on account of the use of its very

jangada, n. light wood for catamarans. See jangada, 1, and *tibourbou.

janiceps (jan'i-seps), n. [NL., L. Janus, Janus, + caput, head.] A joined twin monster the two heads of which face in opposite directions. Janiform (jan'i-fôrm), n. Resembling Janus; two-faced.

janizary, n. 2. A common name of Clepticus



Janizary (Clep.icus parra). (From Bulletin 47, U. S. Nat. Museum.)

parrx, a labroid fish of the West Indian fauna. — Janizary pedal. See pedal.

Jankó keyboard. See *keyboard.

Jansenist, n. II. a. 1. Of or pertaining to the Jansenists.—2. Noting a style in decoration, especially in bookbinding, characterized by extreme plainness: especially adapted to levant moroeco and other materials which pre-

ern Bookbinding, p. 81.

Janus, n. 4. A double monster with the two heads looking in opposite directions. Also heads looking in opposite directions. Also called janiceps.—Janus blue, brown, colors. See *blue, etc.—Janus green. Same as diazin *green.—Janus orange, red, yellow. See *crangel, etc.

Jap. An abbreviation (b) of Japan.
japaconine (jap-a-kō'nin), n. [japacon(it)ine.]

A pale-yellow amorphous alkaloid, C₂₆H₄₁O₁₀-N(?), prepared by heating japaconitine with sheak-big patching paragraphs.

alcoholic potassium hydroxid.

apaconitine (jap-a-kon'i-tin), n. [Jap(anese) + aconite + -ine².] A colorless, toxie, crystalline alkaloid, $C_{66}H_{88}O_{21}N_2$ or more probably $C_{34}H_{49}O_{11}N$, found in Japanese aconite (kuzaran) from dentity Lucarian Lagrangian uzu) from Aconitum Japonicum. It melts at 184-186° C. and closely resembles aconitin in many respects.

Japan cedar, moth. See *cedar, *moth¹. japan, v. t. 2. To invest with the black coat of a clergyman; ordain. [Slang.]

japanesquery (jap-a-nes'ke-ri), n. [Japanesque + -ry.] Japanese style; the Japanese spirit or genins.

Japanism, n. 2. A Japanese idiom, eustom, peculiarity.-3. Fondness for Japanese

things or customs.

Japanize (ja-pan'īz), v. t.; pret. and pp. Japanized, ppr. Japanizing. [Japan + -ize.] To make conformable to Japanese ideas or customs, render Japanese.

Japanize (ja-pan'īz), v. t.; pret. and pp. Japanized, ppr. Japanizing. [Japan + -ize.] To jargonization (jär-gon-i-zā'shon), n. [jargonize + -ation.] The using of a jargon; the act of turning into a jargon.

toms; render Japanese. Japanologist (jap-a-nol'ō-jist), n. [Japanology yy + -ist.] A student of Japanology.

Japanology (jap-a-nol'ō-ji), n. [Japan + called natrojarosite and piumovyarosite respectively.]

Japanology (jap-a-nol'ō-ji), n. [Japan + called natrojarosite and piumovyarosite respectively.]

Japanology (jap-a-nol'ō-ji), n. [Japan + called natrojarosite and piumovyarosite respectively.]

Japanology (jap-a-nol'ō-ji), n. [Japan + called natrojarosite and piumovyarosite respectively.]

Japanology (jap-a-nol'ō-ji), n. [Japan + called natrojarosite and piumovyarosite respectively.] toms, art, etc.

James-Lange theory. See *theory.

Jamin's tube. See *tube.

jammer (jam'er), n. In logging, an improved form of gin, mounted on a movable frame
lumber of gin, mounted on a movable frame
see theory.

Japhetite, Japhethite (jā'fe-tīt, -thīt), n. A descendant of Japheth, the son of Noah.

japish (jā'pish), a. [jape + -ish¹.] Like a buffoen or jester; inclined to jokes or trieks.

japonic² (ja-pon'ik), a. [japonica, n., 3.] ting an acid, a black compound, $C_{12}H_5O_5$ (?), formed by the oxidation of eatechin.—Japonic earth. See *earth1.

3.

Japonism, n. [F. Japonisme, ⟨ Japon, Japan, + -isme, E. -ism.] Same as Japanism.

Japygidæ (ja-pij'i-dē), n. pl. [NL.. \langle Japyx (Japyy-) + -idæ.] A curious family of thysanurous insects of the suborder Cinura, having the mouth-parts free and the anal end of the body provided with a pair of forceps. They are slender in form and resemble young earwigs. They are found in moss and in shady places at the edges of woods. The type genus Japyx is the only one known. Japyx (jā'piks), n. [NL., \leqslant Gr. 'lārv\(\xi\), son of the mythical Dordeline and founders \(\xi\). Length of the mythical Dordeline and founders \(\xi\).

the mythical Dædalus, and founder of Japygia (Italy).] The typical and sole genus of the thysanurous family Japygidæ.

jaquemase (jak'wē-mās), n. A reducing ferment obtained from Eurotium Orizæ,

jar¹, v. t. 4. To drill by impact or percussion; use an impact drill or drill-jar upon.—5. To shock or surprise (one) with some sudden or extraordinary remark, statement, or fact. [Humorous.]

jar 1 n. 6. A tool, used in drilling wells in rock, consisting of two long and flat links capable of sliding the one within the other, in order that the drill-bit may be loosened on the up stroke in case it has beeome jammed in the lock.

lock.

jar³, n.—Graduated jar, in chem., a glass jar, usually a tall cylinder of moderate diameter, with its internal capacity and the subdivisions thereof etched upon the outside, used in measuring off definite volumes of a liquid.—Nessler jar, in chem., a cylindrical jar of light glass with a flat bottom, usually about nine inches high and one inch in diameter, used in the determination of ammonia by means of the Nessler reagent, and in general for the comparison of two or more liquids as to the depth of color presented by them in consequence of the presence of various quantities of the same coloring-substance.—Specles jar, a glass jar of cylindrical shape and with a wide mouth, usually made of rather light glass and furnished with a tin-plate cap or cover, used by druggists and apothecaries to hold solid materials, chiefly dried herbs, roots, etc.

sent beantiful surfaces. W. Matthews, Mod- jararaca (jä-rä-rä'kä), n. [Tupi jararaca, also jiraraca, geraraca, a large serpent.] A venomous snake, Trimesurus jararaca, which inhabits a large portion of Brazil south of the Amazon. It reaches a length of six feet and is of a gray color with darker eross-bands.

jarave (hä-rä'vä), n. [Tarascan.] A national dance of the Tarascan Indians in Mexico. C. Lumboltz, Unknown Mexico, 11. 382.

jardinière, n. 3. A mixture of vegetables stewed in their own sauce; also, various vegetables used together as a garnish.—A la jardinière, served with a few vegetables, as peas, two or three slices of carrot, etc.: said of a roast.

jarganee (jär-gä-nē'), n. [Origin not ascertained.] A sea-shore worm used for fish-bait.

jargonaphasia (jär"gon-a-fā'ziā), n. [NL., < E. jargon¹ + NL. aphasia.] A defect of speech in which several words are run into one so as to be unintelligible. Buck, Med. Handbook, I. 414.

[Japan-jargoning (jär'gon-ing), n. A confused chat-Japanese tering or gabbling; a twittering of birds.

jargonium (jär-gō'ni-um), n. [NL.: see jargon².] A supposed new chemical element announced as associated with zirconium in

jarosite, n. Varieties of this mineral in which the potassium is replaced by sodium and by lead have been called natrojarosite and plumbojarosite respectively.

jaroul, n. See jarool. jarul, n. See jarool.

jarvey. (jär'vi), v. i.; pret. and pp. jarveid, ppr. jarveying. [jarvey, n.] To drive along, like a hackney-coachman or jarvey.

jarvil (jär'vil), n. Same as chervil.
jas (zhäs), n. [F. jas, in sense defined, also the stock of an anchor, < Pr. jas, jatz, lit. a layer or bed, < jazer, lie, < L. jacere, lie.] A storage reservoir or basin constructed on the coast of a tidal sea, into which sea-water flows at high tide and is concentrated by evaporation furnish the feed for the vats or basins in which salt is made. Encyc. Brit., XXI. 229.

jasmine-wood (jas'min-wid), n. Diporidium Mauritianum, a tree of the family Ochnaceæ, occurring on the Island of Mauritius; or its wood. So called from the fragrance of its showy white flowers.

jasmone (jas'mōn), n. [jasm(ine) + -one.] A ketone, C₁₁H₁₆O, found in jasmine-oil. It boils at 258° C. and has, when diluted, an odor like that of jasmine.

jasper (jas'per), v. t. [jasper, n.] Same as jasperiz.

jasperoid (jas'pėr-oid), a. [jasper + -oid.] Same as jaspoid.

The Townsend ridges are described as a long narrow jaw-clutch (ja'kluch), n. A device for joining line of outcropping jasperoid rocks.

Geog. Jour. (R. G. S.), XV. 648.

the end of one shaft to the

jaspilite (jas'pi-līt), n. [Gr. $ia\sigma\pi\iota\varsigma$, jasper. + $\lambda\iota\theta\circ\varsigma$, stone.] In petrog., originally an acid igneous rock more silicions than rhyolite; as now used, in the Lake Superior region, a rock consisting of bands of red chert and hematite.

jasp-opal (jasp'ō"pal), n. Same as jasper-opal. jassid (jas'id), n. and a. I. n. An insect of the homopterous family Jassidæ.

II. a. Of or belonging to the Jassidæ.

jassoid (jas'oid), a. and n. I. a. Of or belonging to the homopterous superfamily Jassoidea.

II. n. One of the Jassoidea.

Jassoidea (ja-soi'dē-ā), n. pl. [NL., \(Jassus \) clutch; g, arm for throwing clutch in or out. unite the two shafts. + -oidea.] The homopterous family Jassidæ jaw-fish (jâ'fish), n. A name of fishes of the

jatahy (zhä-tä-hē'), n. [Brazilian.] Same as

jati (jä'tē), n. [Malay jāti, in põhon jāti, teaktree, and kāyu jāti, teak-wood.] The East Indian teak, Tectona grandis. See teak and

jatoba (zhä-tō-bä'), n. [Brazilian.] Any one of several Brazilian species of large leguminous trees belonging to the genus Hymenæu, especially H. stilbocarpu. They yield resins similar to that obtained from the more northern H. Courbaril. See Hymenæa. Called also jætahy.

jatropha-oil (jat'rō-fä-oil), n. An oil, resembling easter-oil in composition and properties, obtained from the seed of Jatropha Curcus (Curcus purgans) and J. multifida. Alse known

as curcas-oil and purqueira-oil.

jatrophic (ja-trof'ik), a. [Jatroph(a) + -ic.]

Relating to the plant genus Jatropha, especially to J. Curcas or to its medicinal seeds.

cially to J. Curcas or to its medicinal secus.

jaun² (jâu), n. [Beng. yān (pronounced jān), jaw-twister (jâ'twis"ter), n. A jaw-diedact.

Hind. yān, a vehiele, < Skt. yāna, a vehiele, < jay², n. 1. In England the name is locally given to birds that are not jays at all, including the Cornish chough and the mislethrush, Turdus visciorus. walk.] A small palanquin-carriage such as is used in Calcutta by business men in going to their offices.

My work . . . was sedentary, save for an occasional run in an office jaun to the Customhouse or elsewhere.

E. Braddon, in Blackwood's Mag., Oct., 1893, p. 499.

E. Braddon, in Blackwood's Mag., Oct., 1893, p. 499.

jaundice, n. 3. Same as *grasserie.—Catarrhal jaundice, jaundice occurring as a symptom of catarrhal inflammation of the hile-ducts.—Hematogenous jaundice, a yellowish coloration of the skin due to blood-changes and not to the presence of bile-pigments in the tissues.—Hepatogenous jaundice, jaundice resulting from disease of the liver.—Malignant jaundice, acute yellow atrophy of the liver.—Obstructive jaundice, jaundice due to impediment to the flow of bile in the ducts.—Simplejaundice. Same as catarrhal *jaundice.jaundice.root. (iän/dis-röt). n. The orange-jaundice-root. (iän/dis-röt). n.

jaundice-root (jän'dis-röt), n. root, Hydrastis Canadensis.

janne antique (zhon on-tek'). [F., 'old yellow.'] A variegated and crystalline terra-cotta, seen in vases. The colors are black and rich saffron. Meteyard, Hand-book of Wedg-wood Ware, Glossary.

jaune brilliant (zhōn brē-yon'). [F., 'brilliant yellow.'] A trade-name for cadmium sulphid used as a pigment. Also known as cadmium yellow.

jaune clair (zhōn klar'). [F., 'clear yellow.'] A elear yellow or canary-color seen in Sèvres porcelain.

Jav. An abbreviation of Javanese.

Java wax. Same as fig *wax. javali (hä-vä-le'), n. [Also juvari; S. Amer.] The South American peccary, Dicotyles labiatus.

Javan, a. II. n. A native of Java.

javanine (jav'a-nin), n. [NL. javan(ica) (see def.) + -inc².] A colorless alkaloid contained in the bark of Cinchona Calisaya javanica. It

erystallizes in rhombic plates.

javelin-fish (jav'lin-fish), n. A fish, Pomadasys hasta, of the family Hæmulidæ, found along the East African coast and through all the Indian seas.

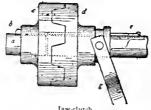
javilla (hä-vē'lyä), n. [Another spelling of Sp. habilla.] In Panama, same as *habilla,1. jawi, n.—Big jaw or lump jaw, actinomycosis in cattle. Buck, Med. Handbook, I. 97.—Phossy jaw, necrosis of the jaw in phosphorous poisoning.

A case of death from phosphorus poisoning that occurred at the Poplar and Stepney Sick Asylum, due to a recent attack of "phossy jaw."

Lancet, June 18, 1904, p. 1763.

jaw-chuck, n.—Independent jaw-chuck, a chuck in which the jaws for holding the work do not move radially

together as in the self-centering chuck, hut are movable and adjustable independently.—Inside jaw-chuck, a the jeers are made fast. See jeer². See jeer². Within radially outward to grip hollow cylinders on their jeer-block (jēr'blok), n. A block which forms part of the jeer-fall. See jeer² and *jeer-full.

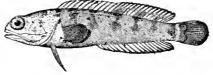


a. shaft carrying fixed collar c: b, key of collar moving axially on shaft, or entered from rotating by feather c: f, shaft to be driven by the engagement of the clutch; g, arm for throwing clutch in or out.

end of another. end of another. It consists of a pair of collars one of which is keyed to the end of each shaft. One of the collars is free to slide axially on its shaft, the other being fixed. When the movable piece slides toward the ether, tongaes on one enter jaws on

shaft to the

family Opisthognathidæ, small fishes found near



Jaw-fish (Opisthoguathus macrognathus). (From Bulletin 47, U. S. Nat, Museum.)

the rocky bottoms of tropical seas and rethe rocky bottoms of tropical seas and remarkable for the great length of the upper jaw. ieijunitis $(j\bar{e}-j\bar{o}-ni'tis)$, n. [NL., $\langle jejunum+jaw-hole, n$. 2. An opening in the ground; the entrance to a cave or cavern. Whithy Glossary. [Prov. Eng. and Sc.]

Same as exterior of the holy into the joinnum. jaw-hole, n. 2. An opening in the ground; the

jawing-tacks (ja'ing-taks), n. pl. Same as

jaw-me-down (jâ'mē-doun"), n. A domineering arguer. [Naut. slang.]

4. In angling, a variety of artificial fly dressed with blue jay feathers.—California Jay, Aphelocoma californica, a species much like the Florida jay, but lighter below.—Siberian jay, Perisoreus infaustus, a bird allied to the Canada jay or whisky-jack of North America, and the only jay belonging to a genus common to the Old and New Worlds.

jay-bird, n. 2. A stupid person; a country simpleton; a hay-seed: same as jay2, 3 (b). [Slang.]

From the land of logs and peaches
Came a callow jay-bird dressed
In homespun coat and breeches
And a gaudy velvet vest.
Eugene Field, in Chicago Dally News, July, 1886.

The orange- jayhawk, v. t. 2. To strip one 4-foot length jelly (jel'i), v. I. trans. To make a jelly of; of bark from (a tan-bark oak), leaving the tree reduce to the consistence of jelly.

J. C. An abbreviation (a) of Jesus Christ; (b) a jelly.
of Julius Cæsar; (c) [l. c.] of the Latin jurisconsultus, jurisconsult; (d) of justice elerk.
See Sida, 1.
ielly-nut (iel'i-nut), n. An unripe cocoanut in

J. C. D. An abbreviation of the Latin Juris Civilis Doctor, Doctor of Civil Law.

J. D. An abbreviation (a) of Junior Deacon; (b) of the Latin Juris Doctor, Doctor of Law. jeanette-twill (jā-net'twil"), n.

icuncttc. jean-twill (jān'twil), n. Same as jean, 2.

jean-twill (jān'twil), n. Same as jean, 2. making puddings, etc. jebaru (zhā-bā-rō'), n. [Brazilian.] Epcrua jelly-press (jel'i-pres), n. A device, worked purpurea, a large leguminous tree ef northern by land, which presses the juice from fruits purpurea, a large leguminous tree of northern by hand, which presses the juice from fruits Brazil, congeneric with the wallaba of Guiana. The natives use the tough bark in the manu-jelous, jelous, jelousy. Simplified spellings of jealous, in the manu-jelous in jelous in jelou facture of certain musical instruments.

Jebb process. See *process.

jebel (jeb'el), n. [A European rendition of Ar. jabal, a mountain.] Mountain; mount: a term occurring in some geographic names of Arabic origin. It is concealed in Gibraltar.

jecolein (jek-ō-lē'in), n. [L. jec(ur), liver, + oleum, oil, + -in².] One of the fatty principles centained in cod-liver oil.

jecorin (jek'ō-rin), n. [L. jecur (jecor-), liver, + in².] An organic substance possibly derived from protagen, containing both sulphur and phosphorus. It is found in nerve-tissue, in the liver, in muscle-tissne, and in the blood. It reduces cupric oxid in alkaline solution.

jeel² (jēl), n. [Manx jeeyl, jeeill, jeell, Ir. dioghbail, Gael. diobhail, damage, loss, digbail, diminution, < Ir. Gael. di-neg. + gabhail, taking (see garcl¹).] Damage; trouble.

jeer-capstan (jer'kap"stan), n. A capstan placed amidships between the foremast and mainmast for general use, as for stretching rope, etc.

jeer-fall (jer'fâl), n. A rope rove through the jeer-blocks which together form the jeers.

jeetee, n. Same as jetec. jeffing (jef'ing), n. [jeff'1, v.] chance played by type-setters. A game of See jeff 1, r. Jeffreysia (je-frē'zi-ä), n. [NL. (Forbes, 1850).] The typical genus of the family Jeffreysiidæ.

Jeffreysiidæ (jef-rē-sī'i-dē), n. pl. [NI., Jeffreysiidæ (jef-rē-sī'i-dē), n. pl. [NI., Jeffreysia + -idæ.] A family of tænioglossate gastropods, ef the order Prosobranchiata. They have the muntle with two pointed ciliated appendages in front, the tentacles also ciliated, eyes sessile and situated far behind the base of the tentacles, marginal teeth sometimes absent, and the shell small, thin, and pellucid. The family contains the genera Jefreysia and Dardania, marine forms living on algæ. iehad (jē-hād'). n. See iihud.

jehad (jē-hād'), n. See jihad.

jeju (zhā-zhō'), n. [Tupi (southern Brazil) jeju (Marius, 1863).] A food-fish belonging to the family Characinidæ, found in the rivers of South America.

The "jeju" and agulha, which are valued as food fishes.

Rep. U. S. Nat. Mus., 1901, p. 190.

jejunectomy (jē-jö-nek'tō-mi), n. [NL. jeju-num + Gr. exrouii, excision.] Excision of a portion of the jejunum.

exterior of the body into the jejunum.

jelab, jellab (je-läb'), n. [Ar. jallabīya, a long blonse, connected with jallābī, imported, jalba, a fereign country, \(\sigma jalaba, \) impert.] A cloak with a hood worn by men in Morocco. Also jelib.

jelba (jel'bä), n. [Appar. ⟨ Ar. jalba, foreign country: see *jelab.] A large ceasting-vessel of the Red Sea.

jelloid (jel'oid), a. and n. [jell(y) + -oid.] I. a. Having the property of jelly; similar to I. a. a jelly, II. 1

A medicated tablet or lozenge of n. gelatin.

jelly¹, n. 4. A jellyfish, as Aurelia or Cyanca.

—Mineral jelly, a soft semisolid product from petroleum, the best free from crystalline parafin, extensively used as a basis for salves and ointments. It is prepared by different processes, and sold under various tradenames, as vaseline, cosmoline, etc. Also called petroleum jelly.—Royal jelly, the especial food with which queen larve are fed by the worker honey-bees. jelly¹, n.

II. intrans. To solidify or congeal; become

jelly-nut (jel'i-nut), n. Anunripe ecceanut in which the kernel is still so soft that it can be scraped out in the form of a custard or jelly. See cocoa I

jelly-powder (jel'i-peu"der), n. 1. A form of gelatin dynamite.—2. A powdered preparation of gelatin, of various flavors, used in

jealousy

Jemmy Donnelly (jem'i den'el-i). Any one of three large, valuable timber-trees of Queensland, Myrsinc variabilis, Euroschinus fulcatus of the eashew family, and Eucalyptus resinifera.
The last is also called Jimmy Low and forest mahogany. See ironbark-tree. [Colloq., Australia.

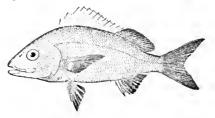
Jemmy Jessamy (jem"i jes'a-mi). A dandy; a fop. Also used attributively. See Jessamy, n.

Jena glass. See *ylass.

je-ne-sais-quoi (zhė-n(e)-sā-kwo'), n. [F., 'I know not what.'] A something one can not describe; usually, something too attractive to be expressed.

jeniguana (hā-nē'gwā-nā), n. [Cuban Sp. henguanu, from a native West Indian name (Pichardo).] A hæmuloid fish, Hæmulon me-lanurum, reaching a length of about one foot, found in the West ludies and southward.

Cuban Sp. jeniguano (hā-nē'gwä-nō), u.



Jeniguan (From Bulletin 47, U. S. Nat. Museum.)

club-head, after striking the ball, digs into heniquano (Pichardo).] A West Indian fish, Bathystoma aurolineatum.

Jenkins (jeng'kinz), n. [A common English surname used (like Brown, Jones, or Robinson)
as a generic name for an otherwise anonymous person.] The imaginary uame of a reporter of "society news" and social gossip.

Jenkinsia (jeng-kin-zi-ā), n. [NL., named stroolling P. Loubins and used on the Egyptian coast for earrying and social gossip. person.] The imaginary name of a reporter of "society news" and social gossip.

Jenkinsia (jeng-kin-zi-ä), n. [NL., named after Oliver P. Jenkins, an American ichthy-

southern coasts of North America.

jenkinsite (jeng'kinz-it), n. [Named after J.

Jenkins of Monroe, New York.] A ferriferous
serpentine, near hydrophite, occurring as an
incrustation on magnetite in Orange county,

"The jocular uproar or noise made in a
printing-house by compositors on any extraor-New York.

Jennerian (je-ne'ri-an), a. Relating to Edward Jenner (1749-1823), the discoverer of the pro-

Jennerization (jen"e-ri-zā'shon), n. [Jennertion of an infectious disease; vaccination, recently, the inoculation of cattle with tubercle bacilli from the human being, for the purpose of inducing a modified form of tuberculosis as a protection against the more violent form peculiar to cattle.

The probability of the purpose of inducing a modified form of tuberculosis as a protection against the more violent form peculiar to cattle.

The probability of the purpose of a cattle which originated in the island of Jersey, in the English chanuel, and is noted for the yield of milk. Jerseya are the smallest of dairy cattle, with rounded bodies, slender, rather short

Jennerize (jen'e-riz), v.t.; pret. and pp. Jennerized, ppr. Jennerizing. [Jenner (see *Jennerian) + -ize.] To vaccinate or inoculate,

nerian) + -zc. 1 To vaccinate or inocurace, in the manner practised or initiated by Edward Jenner. See *Jennerization.

jennet¹, n. 2. The female ass; a jenny.

Tegetineier and Southerland, Asses and Mule

Breeding, p. 146. jenny, n. 5. A locomotive-crane; a self-propelling crane used for carrying heavy weights.—
6. Compasses with one end bent inward.—7. A stroke in English billiards, originally a losing hazard made from balk into a middle pocket, the object-ball being near the pocket, but below it: now applied to any acute-angled pocketing placed from balk to a ball outside, and thence into any of the four pockets beyond balk.—Silver jenny, a common name of Eucinostomus gula, a fish of the family Gerridæ, found from Carolina

jentacular (jen-tak'ū-lār), a. [NL. *jentacularis, < L. jentaculum, an early breakfast, < jentare, breakfast: see *jentation.] Relating to breakfast.

jentation (jen-tā'shon), n. [LL. jentatio(n-), (jentare, breakfast, appar. contracted from *jejunitare, (jejunus, fasting. Cf. dine, dinner.] Breakfast.

jeopardy (jep'ir-di), v. t.; pret. and pp. jeopardied, ppr. jeopardying. [jeopardy, n.] To jeopardize: as, he jeopardied his fame. jepard, jepardy. Simplified spellings of jeopard, jeopard,

jequitiba (zhā-kē-tē-bā'), n. [Brazilian.] Any one of several species of large Brazilian trees belonging to the genus Cariniana, of the family Lecythidaceæ; especially C. Brasiliensis and C. exectsa. They yield an astringent bark useful

in bowel complaints, and a highly prized hard, tough, durable wood.

Jerahmeelite (je-rä'mē-el-īt), n. [Jerahmeel + -ite².] One of the descendants of Jerahmeel hard. meel, the brother of Caleb (1 Chron. ii. 9), living on the southern border of Judah: prob

gia cuniculus, found in Tasmania.

Australia. The best-known species is H.

jerfar (jer'far), n. A fish, Gymnarchus niloti-cus, found in the Nile, the only representativo of its family, remarkable for the cellular structure of its air-bladder, which resembles that

of certain ganoid fishes and probably functions similarly as an imperfect lung.

jerib (je-rēb'), n. [Pers. Hind. Ar. jarīb.] A

Persian measure of surface equal, in various localities, to from 1,000 to 1,066 square zar or

from 1,294 to 1,379 square yards.

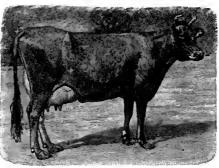
jerk¹, n. 6. In golf, a stroke in which the club-head, after striking the ball, digs into

passengers and freight.

ologist.] A genus of herrings found on both jerrawicke (jer'a-wik), n. [Origin obscure.] southern coasts of North America. A name formerly given in Australia to beer or enkinsite (jeng'kinz-it), n. [Named after J. alo made in that country. E. E. Morris, Aus-

printing-house by compositors on any extraor-dinary occasion. [Printers' slang.]





Jersey Cow.

legs, small, broad head, and small, waxy horns, often crumpled. The color is variable, preferably fawn with dark legs; but there are pure-bred animals of various shades of yellow, brown, tan, mouse-color, light red, and even black.—Blue jersey, a sailor.

[Jerahmeel jersey-blue (jer'zi-blö'), n. An American of Joreh, breed of large-sized fowls which resemble the langshan, but are of a bluish color, with the hackle- and sickle-feathers nearly black.

ably an Amalekite or Edomite tribe which Jerseyman (jer'zi-man), n.; pl. Jerseymen afterward was absorbed by Judah. (-men). An inhabitant of the State of New jerboa-kangaroo (jer'bō-ä-kang-ga-rö"), n. Jersey. Jerusalem com. See *kanteer. Jerusalem com. See *kanteern.

corn. See *Kafireorn.
jervic (jer'vik), a. [jerv(ine) + -ie.] Same as

jerboa-mouse, n. 2. The North American jumping-mouse, Zapus hudsonicus. jerboa-rat (jėr'bō-ä-rat"), n. A common name for the small rodents of the genns Hapatotis, posed gypsum. jervog., a bed of decomposed gypsum.

found in Tasmania and the desert regions of jessakeed (jes'a-kēd). n. [Ojibwa jessakkid.] A seer and prophet whose functions are those of a shaman: used to designate a particular class of shamans of the Ojibwa.

The birch-bark records of the society, and the mnemonic songs on birch-bark, employed by the Mide' priests, as well as those of the Jessakki'd and the Wabeno', which represent two other grades of Shamans.

Smithsonian Rep., 1890, p. 48.

jessamin, n. A simplified spelling of jessamine. jestful (jest'ful), a. [jest1 + ful.] Jesting; joking; given to jesting.

Jesuit, n.—Jesuits' bark. (b) The high-water shrub, Iva frutescens.

Jesuitize (jeg'ū-it-īz), v.; pret. and pp. Jesuitized, ppr. Jesuitizing. [Jesuit+-izc.] I. trans. To Jesuit.

II. intrans. To speak or act as a Jesuit.

Jet ware. See *ware2.

jet-black, a. II. n. A deep black color; speet-black, an acid coal-tar color of the disazo type, derived from disulpho-azo-benzene-alpha-naphthylamine. It dyes wool a deep bluish black in a mildly acid or neutral bath.

— Diamine jet-black Cr, OO, RB, and SS, direct cotton coal-tar colors. They dye unmordanted cotton a jet-black in a sait bath.

jet-burner (jet'ber"ner), n. A hollow iron or steel easting pierced on its upper surface with a number of small holes. A mixture of air and vapor comes through these and forms jets of combustible vapor or gas, which, meeting additional air from tubes in the center of the groups of small holes, gives complete combustion and a blue flame.

Jennerian (je-ne'ri-an), a. Relating to Edward Jenner (1749-1823), the discoverer of the protective value of vaccination, or to vaccination or other similar methods for the prevention of infectious diseases.

Jennerization (jen''e-ri-zā'shon), n. [Jenner-tion of an infectious disease; vaccination; retion of an infectious disease; vaccination

reading or typographical error for icterus, as used in botany. The mistake was made by Bischoff and copied by Lindley and others. See icterus, 2.

jet-pile (jet'pīl), n. A wooden or iron pile that can be set in position by means of a jet of water: so named to distinguish it from one of water: so named to distinguish it from one driven into place by means of a pile-driver. The pile to be set in sand, either above or below the surface of the water, is placed upright, with the point resting on the sand. A length of gas-pipe is placed close beside the pile, the upper end being connected to a hose. When a powerful stream of water is forced through the pipe, the jet of water escaping at the lower end stirs and loosens the sand, and the pile, no longer supported by solid sand, sinks slowly downward by its own weight, the pipe sinking at the same time. When the pile is deep enough, the stream is cut off, and the sand compacts around the pile, holding it firmly in place. A less powerful jet loosens the pipe, and it can be withdrawn and used again. Iron piles are sunk by forcing the water through the hollow pile, the jet escaping from the point or toe of the pile. This process of pile-sinking is called jet pile-driving.

jet-propeller (jet'prō-pel"cr), n. A device on an air-ship or a vessel for throwing a jet of air or water in a direction contrary to that in which it is desired to propel the vessel. The fluid is taken in at the forward end of the vessel and thrown out at the other end, the reactive energy of the jet being thus utilized to drive the vessel ahead.

jet-propulsion (jet'prō-pul"shon), n. The act or process of propelling a vessel or an air-ship by the reaction of a jet of water or air which is set in motion by machinery contained in the vessel.

2. Same as filter-pump.

jet-pump, n. 2. Same as filter-pump.
jet-slug (jet'slug), n. A kind of slug.
jet-valve (jet'valv), n. 1. A starting-valve
in an injector or inspirator.—2. The valve

controlling the water-jet in a jet-condenser.

jeu de règle (zhè de rà'gl). [F., 'play of rule.']

In écarté, a hand on which it is right to stand,
or play without proposing; also, one with
which it is right to refuse, or play without giving cards.

jew-balance (jö'bal"ans), n. The name given by sailors in the Mediterranean to the hammer-headed shark.

jewed (jöd), a. Having a jewing, or jewwattle, at the base of the lower mandible, as some breeds of domesticated pigeous.

jewel-cup (jö'el-kup), n. The agate fixed in the center or the compass-card. It has a depression or socket which rests upon the upright pin in the center of the compass-bowl and on which the card re-

Jewelers' gold, grain. See $\star gold$, $\star grain1$.— Jewelers' lathe, vise. See $\star lathe1$, $\star vise1$.

jewel-house, n. 2t. A house or place in which treasures or jewels are kept; hence, a treasury.
— Master of the jewel-house, an official who had charge of all the plate used for the table of the king or of a great

jewely, a. 2. Covered or adorned with jewels. jewfish, n. (h) In New South Wales, a name of two or more species, all fishes of large size, as Sciæna antarctica and Glaucosoma hebraicum. Sciæna antarctica is the kingfish of the Melbourne market. Sciæna is called dewfish in Brisbane. It belongs to the family Sciænidæ. E. E. Morris, Austral English.

jewhood (jö'hud), n. Judaism; the state or condition of being a Jew. Carlyle.

Jewish fasts, festivals. See *fast3, *festival.

Jewism, n. 2. A characteristic of the Jews or of their method of speech; a Jewish idiom.

jew-lizard (jö'liz"ard). n. A large lizard. Amphibolurus barbatus, of the family Agamidæ.
It is found in Australia, where it is known
also as the bearded lizard from the frill of spines beneath the throat.

jew-monkey (jö'mung"ki), n. A name for two very different species of monkey, one, Pithecia chiropotes, from northern South America, and the common macaque, Macaeus eynomulgus, of southern Asia: supposed to be given on account of the beard.

given on account of the beard.

Jews'stone, n. 3. Crystallized iron pyrites or pyrite, early used as a gem.

jew-wattle (jō'wot'l), n. Same as jewing.

The next important point is the beak wattle, which should appear (in the Dragoon) on the upper mandible alone, lower or jew wattle being a fault. Book of Pigeons. jezail (je-zīl', or -zāl'), n. [Also jizail, juzail; ⟨ Pers. jazā'il.] A long and heavy musket fired from a rest, used by Asiatic tribes. It is of the same character as the jingal.

All night the cressets glimmered pale On Ulwar sabre and Tonk jezail, Mewar headstall and Marwar mail, That clinked in the palace yard.

R. Kipling, The Last Suttee, st. 2.

Nublee Baksh Punjabi Jat found a hide-bound flail, Chimbu Singh from Bikaneer oiled his Tonk jezail. R. Kipling, What Happened, st. 8.

Jezebelian (jez-e-bel'ian), a. Having the character of a Jezebel; impudent; wieked. Jezebelish (jez'e-bel-ish), a. Same as *Jeze-

jeziah (jez'yā), n. [Pers. Ar. jizyah.] A polltax imposed by Mohammedan law on non-Mohammedan subjects; specifically, that ex- jiboo (ji-bö'), v. t. In lumbering, to remove a acted by the Mogul emperors in India. N. E. D. grab from (a log). acted by the Mogul emperors in India. N. E. D. grab from (a log).

J. G. W. An abbreviation of Junior Grand boa-constrictor. [Tupi (Martius).] The Warden.

jharal (jä'ral), n. [E. Ind.] The East Indian thar, Hemitragus jemlaicus, one of the wild goats.

jhobu (jō'bö), n. [A Tibetan name.] A small breed of cattle, used as beasts of burden in Tibet: a local name adopted by various writers.

indet: a local name anopted by various writers.

A cross-breed of horned cattle called jhobu.

Geog. Jour. (R. G. S.), XV. 153.

jhow (jou), n. [Anglo-Ind., < Hindi jhau, < Skt. jhawuka.] The Indian tamarisk, Tamarix Indiea, a shrub or small tree found throughout India in the marshes of rivers and chorse the concept. It was a light and in the second throughout Indian the marshes of rivers and along the sea-coast. Its wood is used principally as fuel and the smaller twigs are used for thatching and basketry.

JHVH. See Jchovah.
jib¹, n. 2. The boom of a derrick; the inclined strnt in a derrick, which can be swnug in a vertical as well as a horizontal plane.—Flying-jib halyards. See *halyard.—Jib-and-staysail-jack, a sallors name for a nervous, fussy officer who keeps the watch unnecessarily on the move trimming and making and shortening sail.—Up jib! (naut.), a command to start off.

As soon as I told him that, he up jib and went off.

Dialect Notes, II. vi.

jibaro (hē'bā-rō), n. [Also gibaro; W. Ind. Sp. jicotera (hē-kō-tā'rā), n. [Mex. Sp.] The ibaro, rustic, savage, wild; from an aboriginest of a jicote. jibaro, rustic, savage, wild: from an aboriginest of a jicote.
nal word; ef. Taino zibao, mountain region.] jiff? (jif), n. Short for jiffy: as, he was off in One of the poorer class of native peasantry in a jiff.

Porto Rieo. F. A. Ober, Our West Indian Seighbors, p. 231.

jibah (jib'a), n. Same as jubbah.

jiffle (jif'l), v. i.; pret. and pp. jiffled, ppr. jiffling. [Imitative variant of shuffle.] To shuffle with the feet. [Prov. Eng.]

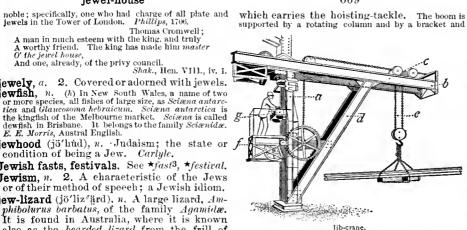
jibber2 (jib'er), r. i. See gibber1. ibbong, n. Same as *geebung.

jib-boom, n.—Flying-jib boom, the light spar that rests on the jib-boom and that is rigged out shead of the latter.—Jib-boom guys. See *\pi\(y\)!

jibby-horse (jib'i-hôrs), n. A showman's horse covered with gandy trappings.

jib-crane (jib'krān), n. A crane having a borgantal borgantal which travels a trafley

jib-crane (jib'krān), n. A crane having a horizontal boom on which travels a trolley



a, mast pivoted below and above; b, jib or boom supporting trol-ley; c, trolley traversing jib; d, strut; c, hoisting-chain and block; f, motor; g, controller for handling hoist, traverse of trolley, and wing-gear of mast.

counterweights, or is pivoted to a fixed column. Many types are in use, operated by hand or by electric or pneumatic motors.

jib-foresail (jib'for sal), n. The first head-sail forward of the foremast on a fore-and-aft vessel, which sets on the forestay.

jib-headed (jib'hed ed), a. Having, as a sail, its head shaped like that of a jib, namely, pyramidal or like an inverted V. All head-sails and gaff-topsails are jib-headed, with the exception of the English style of square-headed gaff-topsail. See *jack-

jib-header (jib'hed″er), n. A sail whose head is shaped like the head of a jib. See ★jibheaded.

jib-iron (jib'ī"ern), n. Naut., the thimble in the clue of a jib.

jib-machine (jib'ma-shēn"), n. In mining, a machine for cutting coal, in which the frame earrying the cutting-tools is mounted on the end of a jib, so that it may be swung around and worked at various angles.

jib-netting, n.—Flying-jib netting, a safety netting rigged under the flying-jib boom.

jiboggan (ji-bog'an), n. [From a variant form of the Algonkin original of tologgan.] A large sled on runners. [New Eng.]

jib-post (jib'post), n. The post of a jib-erane derrick; the vertical member which sup-

ports the arm or jib of a crane or derrick. • jib-traveler (jib'trav"el-èr), n. Naut., the large iron ring to which the tack of a cutterpacht's jib is made fast. This ring encircles the bowspit, and is run in and out on that spar by means of an outhaul and an inhaul respectively. The jib is always set flying, the halyards and sheets being hooked in and anhooked as the sail is set and taken in.

jicama (hē'kä-mä), n. [Nahuatl xicama, or xicamatl.] In Mexico, a name applied to several edible roots, especially to that of the yam-bean, Caeara erosa, a leguminous plant with a sweetish, turnip-like root, which may be eaten either raw or cooked. This plant is now widely spread throughout the tropics.

seroll-saw.

Nahuatl xicalli, the calabash-tree.]

1. Same as calabash-lree. Compare *higuera.—2. Same as calabash, 1.—3. In metal., a small bowl used in testing silver amalgam.

Phillips and the seroll-saw.

jiguagua (hē-gwä'gwä), n. [W. Ind. Sp., from an aboriginal name.] A West Indian name of Caranx hippos, a carangoid fish found on both coasts of tropical America.

jilt, n. 2. Same as gillet. Scott, Old Mortal-

Bauerman, Elements of Metallurgy, p. 743.

jicote (hē-kō 'tā), n. [Mex. Sp., < Nahuatl xicotli.] The name given in Mexico to any stinging burrowing bee.

a jiff.

shuffle with the feet. [Prov. Eng.]

jig, n., 6. (d) An appliance used in the manufacture of articles on the interchangeable system, whereby exact uniformity of dimension is secured. The blank to be operated on is attached to the jig, and the latter compels all holes to come at determinate distances, and all profiles to measure alike when machining is completed, without calibration and measurement. (e) Naut., a tackle made fast to one end of the throat and peak halyards so as to get an extra purchase after the regular hauling part has been belayed.—Collom jig, in mining, an ore-jig in which the plungers are depressed by the blows of a heavy

cast-iron rocker: much used in the Lake Superior copper region.—Harz jig, in mining, the side-piston jig which had its development in the Harz mountains of Germany.—Krom jig, in mining, an air-jig in which the separation of minerals of different specific gravity is effected by pulsating blasts of air.

jig, r. t.—To jig up (naut.), to set up with the jig: said of the throat and peak of a sail.

jiga (jē'gä), n. [Given as from "Chinese jiga, mimie me."] The name in China for any wasp which stores up caterpillars as food for its young. Cambridge Nat. Hist., VI. 92.

jig-backed (jig'bakt), a. Having a erooked or twisted back.

It was discovered that, from a wrench, she [a mare] was also jig-backed. Sporting Mag., VIII. 262. N. E. D.

jig-brow (jig'brou), n. In mining, an underground railroad operated by gravity: same as jig, 6 (b). [Eng.]

jig-drilling (jig'dril"ing), n. The process of drilling holes the location of which is determined by a jig or templet. The holes may be located very accurately in this manner, and any number of pieces can be drilled with the holes in the same relative position.

jig-dyer (jig 'dî "er), n. A dyeing-maehine largely used for dyeing cloth a solid color in the open or full width. It consists of a dye-vat above which are two rolls upon which cloth may be wound. The cloth passes through the dye liquor back and forth from one roll to the other until the dyeing process is completed.

jig-filing (jig'fi'ling), n. The process of filing to a definite size or outline by the use of a jig

or templet.
jigged (jigd), a. Made in a jig; hence, accu-

Jigged (1994), n. Another in a Jig; hence, accurately made. See $\star jig$, 6 (d).

Jigger¹, n. 2. (m) A clutch for attaching mine-cars to a haulage rope, consisting of a vertical rod with sidehooks which hold by biting the rope as the rod turns. Earrownan, Glossary.

7. An illigit $\star till$ —8. A leaded book or

7. An illicit still .- 8. A leaded hook or gang of hooks used without bait for eatehing fish by jigging. See jig, 6(e).—9. A machine used for dyeing cloth. See $\star jig$ -dyer.—10. In golf, a club with an iron head, between a mashy and a mid-iron, used for approaching. -11. In wireless teleg., a small transformer used for regulating and maintaining the difference of potential between the termina's of a coherer.—12. In the Royal Mint, a small weight which it is necessary, in certain cases, to add to a given number of coins to make an exact pound in weight. W. J. Hosking, Royal

Mint. N. E. D.

jigger^I, v. t. 2. To pull (a log) by horsepower over a level place in a slide.

jigger-block (jig'er-blok), n. A block having the strap, whether of rope or metal, continued out so as to furnish a convenient means of securing it.

jiggering (jig'er-ing), n. In ceram., the process of making plates and saucers, and other flat-ware, on the jigger. See jigger¹, 2 (e). jigger-sail (jig'er-sail), n. A sail that sets on

a jigger-mast. jigger-tackle (jig'er-tak"1), n. Naut., a handy-

billy used about decks; a watch-tackle.
jigging (jig'ing), n. The sifting, dressing, or
sorting of ore by means of a jigging-machine. jiggle, r. II. trans. To jerk or joggle slightly. jiggle (jig'l), n. A slight joggle; a quick jig-

gling movement. jig-saw (jig'sâ), v. t. To cut with a jig- or seroll-saw.

jilt, n. 2. Same as gillet. Scott, Old Mortal-

ity, viii.

jim-bang (jim'bang), n. Same as *jing-bang.

jim-binder (jim'bin"der), n. Same as *binder,

jim-crow, n. 2. In mining, a erowbar having at one end a claw similar to a hammer-claw. jimjam, n. 3. pl. Oddities; fads.

jimmy-legs (jim'i-legz), n. A eant name for the master-at-arms in the United States navy. Jimmy Low (jim"i lô'). The timber-tree ealled forest-mahogany, Eucalyptus resinifera. and *Jemmy See Eucalyptus, ironbark-tree, Donnelly. [Colloq., Australia.]

Jimmy Squarefoot (jim"i skwar'fut). A sailors' name for the devil; the nautical Lueifer or Satan.

in (jin), n. [Perhaps another use of gin^2 (a machine).] A tall pole used in connection with rope and tackle to raise heavy objects. jin (jin), n. machine).]

(jin'ä), n. [Skt.] jina Buddha, or a Jain saint.

jing jing), r. [lmitative, like ring2, ting, chink, ete.] I. intrans. To ring.
II. trans. To ring or jingle.

jing (jing), n. [jing, v.] A short, sharp ring, jing-bang (jing bang), n. [Also jim-bang; an invented term.] 'Shebang'; concern; thing: used only in the phrase, 'the whole jing-bang. [Slang.]

jingle, n. 6. A two-wheeled ear (like the Irish jingle) used in some parts of Australia. E. E. Morris, Austral Euglish.

jingle-bell (jing'gl-bel), n. In the engine-room of a steamboat, a bell hung upon a the pilot-house. When rung, its jingling sound signifies that all is clear or 'full speed ahead,' or, after entering a slip or dock, that the boat is fast.

[Also jin-jitsian; klafter, or 1.42 acres.]

jingle-jangle (jing'gl-jang"gl), v. i. To make

a jingling sound.

jingling (jing'gling), u. 1. A continued ringing; a lively noise of bells, or the like clinking.—2. A game in which the players are blindfolded and try to eatch one, called the 'jingler,' who is not blindfolded and who jingles a bell to attract their attention and, if skilful, to divert it. Also called jingling-match. jingling-match (jing'gling-mach), n. as *jingling, 2.

Jingo (jing'gō), v. t. To force to a certain course of action by the influence of the Jingo spirit, that is, an aggressive bellicose patriotism.

Jingoist (jing'gö-ist), n. and a. I. n. Same as

II. a. Resembling or having the qualities of

Jingoism.

jink² (jingk), n. [Imitative; ef. jing, chink, etc.]

The sharp jingle of coins; hence, coin itself; ehink. [Slang.]

jinker, n. 2. pl. An Australian contrivance much trunks of trees. It consists of two pairs of wheels with their axietrees joined by a long beam, under which the trunks are suspended by chains. Its structure is varied io town for moving wooden houses. Called in England a whim. E. E. Morris, Austral English. jinket (jing'ket), r.i. [Imitative of quick motion; cf. jink.] To frolic and romp; fling or dance about.

Individual soni or principle of life.

jivan-mukti (jē'van-mök*tē), n. [Skt. mukti, ¿jīvana, life, + mukti, ¿jīvana life, + mukti, ¿jīvana, life, used in the bush for moving heavy logs and

dance about.

jinny, n. 3. The traveler on the arm of a erane which the bight of the chain and the

hook-block of the erane depend.
jinny-road (jin'i-rôd), n. In mining, a jig; a
gravity-road in a coal-mine.

jinny-spinner (jin'i-spin"er), n. A sailors' name for the cockroach found on board ships. job's n. jinrikisha (jin-rik'i-sha), v. i. To go about in job to ex a jinrikisha.

jin-sen (jin-sen'), n. The camp fan, an old type of tlat feather fan used in Japan. C. M.

Salwey, Fans of Japan, p. 20.

1. A kind of grass used in Ecuador for making 1. A kind of grass used in Education hats.—2. A hat made of the jipi japa grass.

The hate are not of the best grade. The name is from the control of the best grade. These hats are not of the best grade. The name is frequently given to all the straw hats more commonly known as Panama hats.

known as Panama hats.

Ecuador is the real home of the hats wrongly designated under the name of "panama."... Everywhere in Latin America the hat is known under the name of jipijapa, in honor of the city where its manufacture was first started. It is only in Europe or outside of the producing countries that this hat receives the name of a city which does not make it. The finest hats are made in Jipijapa and at Monteristi, in the province of Manahi, Ecuador, this industry being one of the greatest resources of the country.

Amer. Anthropologist, Jan.-March, 1901, p. 2005.

[ignilite (Fig. 15, 24.75) a. Tychpurd graphagilit in the province of the country of the province of the greatest resources of the country.

Amer. Anthropologist, Jan.-March, 1901, p. 2005.

[ignilite (Fig. 15, 24.75) a. Tychpurd graphagilit in indumnal (job man), n. A job-master. [Eng.]

jiquilite (hē-kē-lē'tā), n. [Nahuatl xiuhquilitl, job-man (job'man), n. A job-master. [Eng.] (xihuitl, turquoise, + quilitl, plant.] In job-monger (job'mung"ger), n. Same as Mexico and Central America, the indigoleast Indiaglory Apiliand I timetonical in job-monger (job'mung"ger), n. Same as what's Indiaglory Apiliand I timetonical indigoplants Indigofera Anil and I. tinetoria.

jirble (jer'bl), r.; pret. and pp. jirbled, ppr. jirbling. [Imitative.] I. intrans. To spill over, as liquid from an unsteady vessel, with apparently some reference to its gurgling sound: as, a jirbling tub.

II. trans. To pour out (a liquid) with an unsteady hand: as, he jirbles out a dram. N, E, D,

jirga, jirgah (jēr'gā), n. [Afghani?] A council job-printing (job'prin"ting), n. The custom of elders or head men among the Afghans.

A jirgah is a friendly meeting in council of the headmen of different class for the purpose of discussing intertribal affairs.

Geog. Jour. (R. G. S.), XII. 361.

The overcomer: a **jiudo** (jö-dō'), n. [Also ju-do; \langle Jap. jiu, jū, \langle Chin. jcu, jou, soft, + dō, \langle Chin. tao, wav.] ike $ring^2$, ting, chink, A modern modification of \star jiu-jutsu (which

Some confusion has arisen over the employment term "jiudo." To make the matter clear I will state that jiudo is the term selected by Professor Kano as describing his system more accurately than jiu-jitan does. Hancock and Higashi, The Complete Kano Jin-Jitsn,

[1905, p. xi.

The art of jiu-jitsu, so C. K. Moriya, the editor of the Japanese Times, said last night by way of introduction to an exhibition of native athletes at the Columbia University gymnasium, is some 350 years old, but the more modern development of jiu-do has been worked out within

jiu-jutsu (jö-jut'sö), n. [Also, less correctly, ète.), an art, a trick, a mystery, a precept.] The system of wrestling practised in Japan. In its latest developments it has become an elaborate system of physical training directed particularly to the practice of certain holds and 'tricks' by which an adversary may be thrown or overeome.

Associated with sword-play was an art variously known as shinobi, yawara, and jujutsu, names which imply the exertion of muscular force in such a manner as to produce a maximum of effect with a minimum of effort, by directing an adversary's strength so as to become auxiliary to one'a own.

Encyc. Brit., XXIX. 707.

jiva (jē'vā), n. [Skt. jīvā, akin to L. vīvus, living: see vivid.] In Hindu philosophy, the jiva (jē'vā), n.

individual soul or principle of life.

individual soil of principle of the. [Skt. jīvan- jockey-cap (jok'i-kap), n. A cap with a long mukti, \(\) jīvana, life, \(+ \) mukti, \(\) release, deliverpeak, worn by jockeys. ance, beatitude. In Hindu philosophy, a jockeyship, n. 3. The practice of deceiving release from evil obtained by means of true in horse-dealing; hence, in trade, trickery;

A contraction of junction.

dance about.

jinkle (jing'kl), v. i.; pret. and pp. jinkled,
ppr. jinkling. [Imitative; ef. * jinket.] To
move with quick, nimble action; dart and
swerve.

jinkle (jing'kl), v. i.; pret. and pp. jinkled,
jo3 (jō), n. [Jap. jō, < Chin. chang, a measure
of ten Chinese feet.] A Japanese measure of
length legally established as 9.94 English feet.
The cloth measure of the same name is said to be a fourth part longer. Hering, Conversion Tables, p. 34.

joan, n. 2. [cap.] A familiar name for a country girl.

Now can I make any Joan a lady.

Shak., K. John, i. 1. 184. ob², n.—A put-up job, a hoax or cheat, arranged beforehand: as, the old woman's blindness was a put-up job to excite pity. [Colloq.]—To do one's job or to do the job for, to kill or ruin one. [Slang.]—To put up a job on one, to cheat or hoax by some prearranged scheme. [Colloq.]

jobbernollism (job'er-nel-izm), u. act or speech, characteristic of a jobbernoll. jipijapa (hē-pē-hā'pā), n. [Yunca Indian, in act or speech, characteristic of a jobbernoll. Ecuador; the name of a town in Ecuador.] jobbing-house (job'ing-hous), n. A mercantile house that buys in bulk from the importer or manufacturer and sells to the retailer.

is fre- jobbing-plate (job'ing-plāt), n. The trade-mouly name for gold, silver, and other metals when rolled into thin plates for jewelers' use.

job-press (job'pres), n. A small printing-handles.

jog, r. t.—To jog the loo, (naut.) to work the pump-handles.

jog, n. 5. In mining, a short post or piece of structed for the world printing. structed for the rapid printing of the small eards and pieces of paper used in mercantile work.

job-printer, n. Specifically-2. A type-setter who composes eards, circulars, posters, and joggle, n. commercial forms with types made for that purpose.

ary work of a job-printer, such as the printing of cards, handbills. bill-heads, posters, ete. The term is also applied to pamphlet-catalogues, illustrated or in colors.

Job's coffin (jobz kof'in). A popular name for the constellation Delphinus or the Dol-A popular name phin.

jobsmith (job'smith), n. · A smith who does jobs of all kinds.

Job's-tears, n.—Wild Job's-tears, the Virginia false gromwell, Onosmodium Virginianum, so called from the shining nutlets.

jocalia (jō-kā'li-ä), n. pl. [ML.: see jewel.] In law, jewels; more especially, ornaments belonging to a married woman as her separate property, which, if not in keeping with her station in life, could be seized to satisfy her debts.

the last quarter-century.

N. Y. Evening Post, Feb. 8, 1906. joch (yōèh), n. [G., lit. yoke: see yoke.] An Austrian land-measure, equal to 1,600 square

trails behind, to stop the descent of the cars if the rope breaks. [Scotch.]

Jock², n. 3. A nautical name for a Scotch

seaman.

jockey, n. 9. Same as *jockey-weight.

Along the bar runs a rubbing "jockey," which is worked to and fro by the regulator lever and a counter-weight.

Elect. H'orld and Engia., Dec. 19, 1903, p. 1017.

Dumb jockey, a device for breaking cotta to the bit and for training them to carry the head high. It consists of an X-shaped frame, two arms of which extend down the animal's sides and are secured by girths; the upper arms have loops and buckles for receiving the reins.

jockey, r. t.—To jockey a yard, to sit on the yard of a vessel with one's legs dangling on either side, jockey-bar (jok'i-bär), n. The broad, flat top

jockey-bar (jok'i-bär), n. The broad bar of a kitchen-grate. [Prov. Eng.]

The table was laid with cups and saucers, the kettle was singing on the jockey-bar, and Auntie Nan herself, was fluttering about with : the light gaiety of a ut with : . . the light gaiety of a Hall Caine, The Manxman, ii. 1. blrd.

jockey-boot (jok'i-böt), n. A top-boot at one time worn by jockeys. Also called jockey. N E D

sharp practice.

jockey-weight (jok'i-wat), n. A weight which is slid along a beam in a testing- or weighingmachine, to obtain accurate adjustment, or to secure finer readings than will be given by balance-weights.

balance-weights.

jocko, n. Originally adopted by Buffon as the proper common name for the chimpanzee, it has become the favorite nickname for any of the smaller monkeys and the original use of the word has been forgotten. The name is a sophistication of a West African name, Buffon's jocko standing for enjocko, and that for West African engeco, ncheko, nskiego, enche-cko, etc., a chimpanzee.

jocu (hō-kö'), n. [W. Ind. Sp. jocú, from an aboriginal name.] A local name of Neomænis jocu, a lutianoid fish of the West Indies.

jocundry (jok'un-dri), n. [joeund + -ry.]

Cheerfulness; jocularity; a jocund action.

And favour our close Jocondrie,
Till all thy Dues be done and nought left out.
Milton, Corrections of Comus. N. E. D.

joe-bush (jō'būsh), n. In the Bahamas, Jaquinia Keyensis, a common shrub growing upon coral limestone, and also found on the Florida keys. Compare jocwood.

joepye-weed, n.—Spotted joepye-weed. Same as spotted *eye-bright.

joey, n. 3. A young kangaroo. [Australia.] In the case of the larger kangaroos, the young, or Joey, which may be the size of a hare before it finally leaves the pouch, must be a very serious burden to the female when at speed.

Knowledge, May, 1905, p. 106.

4. 'A hewer of wood and drawer of water.' E. E. Morris, Austral English. [Australia.]

joey (jō'i), v. t. [joey, n., 4. Cf. kids, v., to hoax.] To insult (a person) by the cry of 'joey.' [Slang, Australia.] E. E. Morris, Austral English.

timber placed between two others to keep

them apart; a studdle. [Eng.]
joggle, v. t. 3. In iron ship-building, to make a
joggle in (a plate or bar).
joggle, n. 4. In mech.: (a) A pin or tenon

projecting from a casting to hold it when set in place. (b) A raised rib or ridge on which rests a plummer-block or other bearing. -5. In iron ship-building, a setting back of part of a plate or of a bar to obtain a flush surface where other parts cross, or to enable it to fit around a projection, as a butt-strap.

joggling-board (jog'ling-bord), n. A plank, ruspended between supports at each end, npon which one sits and 'joggles' up and down for amnsement or exercise. See the extract.

A "jogqling-board" is the latest contrivance for exercise that has made its appearance in these parts and it is liable to become the poor man's horse. . . [It is a hardwood board some 20 feet long, with solid supports at each end that allow the board to move freely and yet keep it from becoming detached. One sits on the board, waves his arms up and down and then "joggles," the board sending him up and down as on a horse.

Kansas City Daily Star, Aug. 18, 1904.

joggling-machine (jog'ling-ma-shēn"), n. A power machine () og Img-ma-shen", n. A steel plate. (See * joygle, n., 5.) It consists of two massive rollers, one above the other, on parallel axes. Fach roller has two diameters, the large part of the top roller being over the small part of the hottom roller, and vice versa. The rollers being suitably adjusted, the edge of the plate is passed between them, thus pressing a joggle into the edge as the plate is rolled through.

A more recent appliance for reducing weight [of the butt-strap] is the joggling-machine.

Encyc. Brit., XXXII. 593.

joggly (jog'li), a. Shaky; joggling. jog-trot (jog'trot), v. i. To go at a jog-trot or monotonous pace.

jog-trotty (jog'tret"i), a. Of a jog-tret, casygoing, monotonous character.

"And how do you get on, Richard?" said I.

"Oh! well enough!" said Richard... "It's rather
jog-trotty and humdrum. But it'll do as well as anything
else."

Dickens, Bleak House, I. xvii.

John Day beds. See ★bed1.

John Doe proceedings. See *proceeding.

John-dory, n. 2. A name given in New South
Wales and Tasmania to Zeus australis, of the family Zeidæ. It is nearly the same as Zeus faber, the John-dory of Europe. Also called bastard dorey, boar-fish, and dollar-fish. E. E. Morris, Austral English.

John Gilpin jug. See *jug¹.

John-mariggle (jon"mar'i-gl), n. Same as

ten-pounder, 3.
johnny, n. 5. [cap.] A hanger-on about a theater.

He was for years a Johnny In the green room.

Daily Newspaper.

Johnny Crapaud, a name (meaning 'Johnny Toad') sometimes given to a French seaman.—Johnny Fresh, a member of the ship's company who is making his maiden voyage.—Johnny Newcome. Same as *Johnny Fresh.—Johnny on the spot, one who is always up to time or never caught napping. [Colloq.]

The Reader, May, 1904, p. 602.

johnny-cake, n. 3. In Australia, a cake baked

on the ashes or cooked in a frying-pan. E. E. Morris, Austral English.

Johnny-jump (jon 'i-jump), n. The shooting-

star, Dodecathcon Meadia.

Johnny-jumper (jon'i-jum'per), n. Same as jointer-plane (join'ter-plan), n. Same as Johnny-jump-up. Both names are loosely applied to violets in general plane, joint-ill (joint'il), n. A pyemic inflammation in the plane in the

johnny-smoker (jon'i-smo'ker), n. The long-plumed purple avens, Sieversia ciliata, of North America: so called from the smoke-like aspect of the plumose styles in the fruit.

Johnsonella (jon-sō-nel'ā), n. [NL. (Wight, 1905), a diminutive of Johnsonia.] A genus of monocotyledonous plants of the family Liliaceæ. See Johnsonia.

Johnson grass. See *grass. johnsonite (jon'son-it), n. Same as *masrite. Johnson's mixture, powder. See *mixture, powder.

johnstrupite (jon'stru-pit), n. [Named for F. Johnstrup of Copenhagen.] A fluosilicate containing titanium, the cerium and yttrium metals, calcium, and other elements. It occurs in brownish-green monoclinic crystals and is found in southern Norway.

John's-wort, n.-False John's-wort, the pineweed or orange-grass, Sarothra gentianoides.

join, v. t. 7. To draw, as the sect of which A

and B are the end points.

"Join FC." Custom seems to allow this singular expression as an abbreviation for "draw the straight line FC," or for "join F to C by the straight line FC."

Todhunter, Euclid, p. 254.

To join up, to join; join together.

Where gaps occur between different surveyed blocks, these have been joined up by triangulation.

Geog. Jour. (R. G. S.), XIII. 59.

join, n. 2. In geom., the straight determined

by two points. 1. A line determined by two points on it is called a 'straight' 2. On any two points can be put one, but only one, straight, their 'join.'

Merriman and Woodward, Higher Mathematics, p. 70.

join. An abbreviation of joincry. joint, n. 5. In racing or betting slang, an out-

side boek-maker's paraphernalia of list-frame, umbrella, etc., some of which are joined together in movable pieces. N. E. D.—Bell-and-spigot joint. See $\star bell$.—Bonded joint, a rail-road-joint having a metal bond designed to unite the ends of the rails when they form an electric circuit as in block-storaling—Cardan toint a universal idnit one which those of the elbow. E. C. Sanford, Exper. Psychol. and-spigot joint. See *kell.—Bonded joint, a rail-rad-joint having a metal bond designed to mite the ends of the rails when they form an electric circuit as in block-signaling.—Cardan joint, a universal joint; one which permits of motion about two axes at right angles to each other.—Chamfered joint, a joint in carpentry or cabinet- or pattern-making in which the two elements to be joined are cut and finished so that the joint is at an angle with the face or edge of the piece.—Charcot's boint, same as Charcot's **arthropathy.—Chopat's Joint, in anat, the joint between the two rows of tarsal ones.—Contypiol joint. Same as **condigatrhorsis.—Hysterical joint, in anat, the joint in which one of his is made to fit inside of another, as a common soil-pipe leaded joint, in joint in which one of his is made to fit inside of another, as a common soil-pipe leaded joint, in joint in which the opin is inside the proposed to flange-pinit.—Insulated joint, in railroading, a joint in which a non-conducting material of the rails and non-conducting guards and washers under t

Joint action. See *action. Joint cost. See *cost2. joint-bolt (joint'bolt), N. I

In carebuilding, any screw-bolt employed to bind together timbers that meet at a right angle. One form of it is

that meet at a right angle. One form of it is called a lug-bolt (which see).

joint-collar (joint'kol"är), n. A flanged collar used for making a joint; a flanged coupling.

joint-coupling, n. 2. A shaft-coupling which permits the shafts to be more or less out of line; a flexible coupling joining two shafts. See flexible coupling, under coupling.

jointer!, n. 3. In the West Indies, Piper generalization a shrub with much swallen pades or

nieulatum, a shrub with much swollen nodes or joints, and which sometimes forms almost impenetrable thickets.

of the joints of young animals which occurs within the first month after birth and is usually connected with disease of the navel. The microbes from the infected navel pass into the system through the veins, causing local in-flammation and abscesses in and around the

jointing (join'ting), n. Joints collectively, as in geology.

joint-pin (joint'pin), n. A pintle; the pin which is rove through the eyes of a hinge to connect the two parts.

joint-pine (joint'pīn), n. See *pine¹.

joint-plane (joint'plān), n. The surface of rock exposed on one side of a joint; also, the assumed plane followed by a joint in development. The latter use is figurative, since the surface is never a mathematical plane.

Messrs, Cole and Lampingh then show that the caves depend for their form on the point-planes in the massive linestone, and that they were excavated by solution in pre-Glacial times.

Nature, Dec. 24, 1903, p. 189.

guide a mason in laying up material; a ruler or straight-edge so used.—2. Same as jointing-rule.

joint-runner (joint'run"er), n. In plumbing, a short piece of rope saturated with wet clay and fastened round a cast-iron pipe just at the joint where two pipes are to be calked with load. It serves as a guide and dam for the hot lead which is poured into the bell of the pipe to make the joint. Joint-runners are also made of asbeatos.

joint-rust (joint'rnst), n. A disease of grassstems due to the fungus Epichloë typhina. See *Epichloë.

psychol., an articular sensation; a sensation proceeding from the sense-organs distributed

The joint-sensations of the fingers are less fine than those of the elbow. E. C. Sanford, Exper. Psychol., p. 32.

7. Fine; pretty; great; big: used vaguely, often irenically: as, that's a jolly way of doing things; what a jolly fool he looked! a jolly shame. [Colloq.]

II. n. 1. Good-natured bantering talk in-

tended to cheer a person or to induce him to comply with the wishes of the speaker .- 2. A cheer: a hurrah.

On a suggestion to give him a jolly . . . they cheered

the hero loud and long.

Nayhew, Great World of London, p. 46. N. E. D. A sham bidder at an auction: a confederate of cheats.-4. A British slang name for a marine: not used with reference to United States marines.

''e, "I'm a Jolly — 'Er Majesty's Jolly — soldier an sallor too!" Sez 'e.

'E isn't one o' the reg'lar Line, nor 'e isn't one o' the R. Kipling, Seven Seas, p. 152,

Royal jolly, a royal marine.—Tame jolly, a militiaman. [Eng.]
jolly¹, v. i. 2. To make a false offer or bid at

an auction.

II. trans. 1. To ridicule; make fun of; chaff. -2. To be jolly or good natured to (a person), with the idea of cheering him up or of getting something out of him; flatter. Slang, in both

jolly² (jol'i), n. [jolly¹, a. It is a kind of synonym of jigger, as a 'lively, quick-moving thing.'] In ceram., a machine used for making plates; a variety of the jigger. See the extract.

A "jolly" is a somewhat similar contrivance, consisting of a revolving disk or wheel on which the mould is placed. This is used principally for making plates, saucers, and articles termed "flat ware," its speed being regulated by a lever pressed by the foot of the workman.

E. A. Burber, Pottery and Porcelain of the 1". S., p. 7.

jolly³ (jol'i), n. [Short for jolly-boat.] A jolly-

jolly-jumper (jol "i-jum' per), n. Naut., a name for the fancy light sails which, according to tradition, were carried on very lotty ships, and were set above the moon-sails and

imestone, and that they were excavated by solution in pre-Glacial times.

Nature, Dec. 24, 1903, p. 189.

joint-rule (joint'röl), n. 1. Arod with the joints of brickwork or stonework marked on it, to waters in laying up material: a ruler waters of New Zealand and Tasmania. It spawns in the sea. The young form the white-

bait of New Zealand.
jolter (jöl'ter), v. I. trans. To jolt; trans-

port with jolts.

II. intrans. To be transported with jolts.

jolter-headed (jöl'tèr-hed'ed), a. [jolterhead + -ed².] Having a stupid head; stupid; doltish.

Joly steam-calorimeter. See *calorimeter. Jonah, n. 2. In games of charce, a player who can never win anything; a very unlucky person.

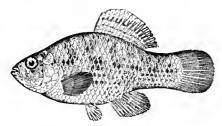
John Bull interests you at home, and is all your subject. Come and see the *Jonathanization* of John. *Emerson*, in Corres. of Carlyle and Emerson, 11, 235.

jonkheer (yongk'har), n. [D., the original form of jonker, whence E. younker, q. v.] In South Africa, a young gentleman; a country squire; specifically, a member of the Volksraad.

jonquil. 4. A light-yellow color much favored in the French mural decoration of the eighteenth century.

joran (zhō-ron'), n. [Swiss F., < Jorat (G. Jurten), name of a mountain-chain adjacent to Lake Geneva.] The descending mountainwind blowing toward Lake Geneva during the night, but rarely reaching the surface of the Analogous winds are experienced on the shores of the deep-lying finger-lakes of

David S. Jordan, au American ichthyologist.]



Jordanella floridæ. (From Bulletin 47, U. S. Nat. Museum.)

in fresh waters of Florida.

Jordania (jôr-dā'ni-š), n. [NL., named after David S. Jordan, an American ichthyologist.]

Jordaniinæ (jôr-dā-ni-ī'nē), n. pl. [NL., \langle Jordania + -inæ.] A subfamily of cottoid

Jörden beds. See ★bed1.

jorobado (hō-rō-bā'dō), n. [Sp. 'humpbacked,' Sjorobo, humpback.] A common name applied to both Vomer setipinnis and Sciene vomer, fishes of the family Carangide.

joseite (hō-sā'īt), n. [Sp. Pg. José (see def.) + -ite'.] A bismuth telluride related to tetradymite. It is found near San José, Minas tetradymite. Geraes, Brazil.

Josephia (jō-se'fi-ä), n. [NL. (Robert Brown, 1809), named in honor of Sir Joseph Banks (1743-1820), a distinguished patron of botany.] A genus of dicotyledonous shrubs belonging to the family Proteaccæ. See Dryandra.

Josephine (jō'ze-fin), a. Portaining to Joseph which he introduced. See *Josephinism.

Josephinism (jô'ze-fin-izm), n. [Josephine + The policy of ecclesiastical reform in-

josephinite (jō'ze-fin-īt), n. [Josephine (see def.) + -ite².] An iron-nickel alloy (Fc₂Ni₅), similar to awaruite, which forms the metallic portion of pebbles found in placer gravel in Josephine and Jackson counties, Oregon.

josh (josh). r. t. [Prob. in allusion to Josh for Joshua, regarded as a homely name.] To chaff; make fun of.

"That something must be daring, startling, essentially histrionic, and calculated to make the Parisian 'badaud'—read 'booby,' unless the more up-to-date 'josser' be preferred—show his teeth."

Westminster Gazette, Dec. 1, 1898, p. 2.

Joturus (jō-tū'rus), n. [NL., < W. Ind. Sp. joware, jowari (jou-ā'rē), n. [Anglo-Ind., joturo, also hoturo, the name of this fish at < Ilind. jowari.] Same as *jowar. Havana.] A genus of fishes of the family jower (jou'er), v. i. [Also jour, jowr; vaguely Mugilidæ, living in streams of tropical Amerimitative.] 1. To scold grumblingly; growl.

Jonah (jō'nā), r. t. To play the part of a Jonah to; spoil the luck of; bring ill luck to.

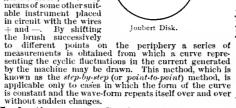
Jonah-crab (jō'nā-krab), u. A large crab, ('aucer horadis, found off the Atlantic coast of North America.

Jonathanization (jon'a-than-i-zā'shon), u.

The process of making (John Bull) similar to Brother Jonathan: Americanization. [Nonceword.]

John Bull interests you at home, and is all your sub
Jonah to; spoil the luck of; bring ill luck to, method, of alternating currents and of similar periodic phenomena. It consists of a disk or collar of insulating material with a narrow radial sector of metal. The disk is mounted upon the shaft of the machine or generator for which the type of the wave-form of current is to be determined; or in some cases it is driven synchronously with the machine by means of a separate motor. An adjustable brush, b, makes contact with the metallic sector, a, once in every revolu-

a, once in every revolu-tion, and the instantanetion, and the instantaneous electromotive force for the portion of the cycle corresponding to the position of the brush is measured by means of a condenser and ballistic galvanometer, or by means of some other suit



The shores of the deep-lying inger-takes of New York State.

Jordanella (jôr-da-nel'ä), n. [NL., named for jough (jōch), n. [Manx jough = Gael. Ir. deoch, David S. Jordan, au American ichthyologist.]

Olr. deug, a drink.] Drink.

The tragical purpose usually lasted him over the short mile and a half . . . [to] the 'Three Legs of Man,' and then it went down with some other troubles and a long pint of Manx jough. Hall Caine, The Deemster, xv.

joulad (jo'lad), n. [$joulc + -ad^2$.] Same as

joule, 2. [Rare.]
joule, n. 2. A practical unit of work or energy equal to 107 ergs, 0.10197+ kilogram-meters, 0.2388+ calories, or 0.7376+ foot-pounds. It was formally adopted as a unit by the International Congress in Chicago (1893) and was legalized in the United States in 1894.

joulean (jou'le an), a. Relating to the ratio of the units of heat and of work known as a joule

A genus of fishes of the family Paciliidae, found Joule effect, Joule-Thomson effect. See *ef-

An abbreviation (a) of journal; (b) of jour.

Jordania (jôr-dā'ni-ā), n. [NL., named after David S. Jordan, an American ichthyologist.]

A genus of cottoid fishes found on the northwestern coast of the United States.

Jordania (jôr-dā-ni-ī'nē), n. pl. [NL., < Jordania + -inæ.] A subfamily of cottoid fishes found on the northwestern coast of the United States.

Jörden beds. See *bed1.

Journal, n. - Yellow Journal, a newspaper which is devoted to sensationalism; specifically, one which seeks to increase its circulation by appealing to the tastes, morals, and morbid curiosity of the lowest or least intelligent portion of the community.

journal, v. t. 2. To enter in a journal.

journalese (jêr-na-lēs'), n. [journal + -csc.]

A style of writing fit only for rapid newspaper works a style abounding in prefentions words

work; a style abounding in pretentious words

An unknown hand threw in a copy of a Kansas paper containing some sort of an interview with Harvey.... The joyful journalese revealed that it was beyond question their boy, and it soothed Mrs. Cheyne.

R. Kipling, Captains Courageous, ix. journalistics (jer-na-lis'tiks), n. The things pertaining to journalism; the profession of journalism

ionrnalism.

ourneyman, n. 3. In astron., a secondary clock in an observatory: used, generally, as journeyman, an intermediary in the comparison of standard Josephine (jō'ze-fin), a. Pertaining to Joseph elocks: more fully, journeyman clock. N. E. D. II. of Austria, or to the ecclesiastical reforms journey-worker (jer'ni-wer'ker), n. A journey-worker nevman.

> journey-workman (jėr'ni-wėrk"man), Same as *journey-worker.

-ism.] The policy of ecclesiastical reform introduced into Austria by Emperor Joseph II. [Jovellana (jō-ve-lā'nā), n. [NL. (Ruiz and judged Israel at that time. Judges iv. 4. Pavon, 1798), named in honor of the Spanish states government and independence of Rome. [Josephine (see losephinite (jō'ze-fin-it), n. [Josephine (see losephinite lariaceæ.

Jovellania (jō-ve-lā'ni-ä), n. [NL.] A genus of Paleozoic nautiloid cephalopods having curved shells with subtrigonal cross-section.

Jove's-beard (jovz'berd), n. Same as Jupiter's-beard, especially the fungus Hydnum Rarba-Joris.

Josser (jos'ér), n. [Origin obscure.] A booby, See the extract.

"That 'something must be daring, startling, essentially histrionic, and calculated to make the Parisian 'badaud' preferred—show his teeth."

"The Indian millet, Andropogon Sorghum. Also called juar.

-2. To speak in a muttering dialect.

bonfire to celebrate some joyful day or occur-

J. Prob. An abbreviation of Judge of Probate. jua (zhō'ā), n. [Brazilian.] A small Brazilian tree of the buckthorn family, Zizyphus Joazeiro. Its fruit is edible and forms an impor-tant fodder for eattle in times of drought, and its root-bark is used medicinally.

juar (jö-far'), n. [Hind.] Same as *jowar.
jubilancy (jö'bi-lan-si), n. Same as jubilance.
jubilarian (jö-bi-lā'ri-an), n. [As jubilary +
-an.] One who celebrates his jubilee or fiftieth year in some state of life or profession; specifically, a priest, a monk, or a nun who has passed fifty years in the sacerdotal office or the monastic life.

jubilated (jö'bi-lā-ted), a. In the Rom. Cath. Ch., having celebrated a jubilee or fiftieth year in the religious life.

jubilatory (jö'bi-lā-tō-ri), a. [jubilate + -ory.] Jubilant

jubilean (jö-bi-lē'an), a. [L. jubilæus, jubilee, + -an.] Relating to a jubilee; resembling the celebrations of a jubilee.

jubilee, n.—Diamond jubilee, the celebration of the sixtieth year; specifically, in Eng. hist., the celebration in 1897 of the sixtieth year of the reign of Queen Victoria.—Silver jubilee, the celebration of the twenty-fifth anniversary of an event, especially of a wedding. jubilize (jö'b'i-liz), v. i.; pret. and pp. jubilized, ppr. jubilizing. [L. jubilum, shout, or E. jubilee, + -ize.] To rejoice; exult; celebrate a jubilee.

jubilee.

jud. An abbreviation of judicial.

Judas-color (jö'das-kul"or), n. Red or yellowish red: a name derived from the early belief that Judas Iscariot had red hair. See Judascolored.

There was a little pragmatical exciseman, with a hungry face, sharp nose, red eyes, and thin, coarse, straggling hair of a yellow cast (what was formerly called Judas-colour), whom he pronounced to have been a terret in his last stage.

Southey, Doctor, exxvii. stage.

Judeo-German (jö-dē"ō-jèr'man), a. and n. German with Jewish elements. See Yiddish.

The great majority of Jews are unacquainted with Hehrew, which is a dead language; they speak, according to the country they inhabit, particular kinds of jargon, the most common of which is the Judeo-German.

Deniker, Races of Man, p. 424.

aud sudden colloquialisms and making crude judex (jö'deks), n. [L., a judge: see judge, n.] hids for popularity.

An unknown hand threw in a copy of a Kansas paper

A judge (in various phases); specifically, (a) a civil judge; (b) an ecclesiastical judge; (c) a civil judge; (b) an ecclesiastical judge; (c) a juror.—Judex ordinarius, in civil law, a judge who has jurisdiction in his own right and not by appointment of another.—Judex pedaneus, in civil law, an inferior judge or magistrate appointed to hear small causes or such particular suits as might be assigned to him.—Judex quæstionis, in civil law, a judge or magistrate having criminal jurisdiction under the direct supervision of the pretor.—Judex selectus, in Rom. law, the judge selected by the pretor to try criminal cases.

Judg. An abbreviation of Judges.
judge, n. 9. In angling, the name of an artificial fly.—Judge's certificate. See *certificate.

ficial fly.—Judge's certificate. See *certificate. judge, v. t. 6. To govern or regulate by right of authority, as the judges of Israel who held office between Joshua and the kings.

Now Dehorah, a prophetess, the wife of Lapidoth, she judged Israel at that time.

Judges iv. 4.

judgmatically (juj-mat'i-kal-i), adv. With a judicious manner; in the manner of a judge. [Colloq.]

judgment, n.—Foreign judgment, in law, the judgment of a court of a different and independent jurisdiction, whether in the same country or territory, or not.—Free judgment, in exper. psychol., judgment by absolute impression, without the intervention of a process of comparison.

parison.

Both introspection and the numerical results in our work point to the form of discrimination which we may term free judgments (as opposed to 'bound'),—the kind commonly given in ordinary life, when we speak of 'a heavy book' or 'a tall man,' etc.

Amer. Jour. Psychol., XII. 69.

Amer. Jour. Psychot., All. 68, Judgment book, in law, a book, required to be kept by the clerk of a court, which contains an index of the judgments filed in the court.—Judgment nisi, in law, a judgment entered upon the record of a suit which is to become absolute unless some condition required by law be complied with, or unless an order to the contrary be made by the court within a specified time.—Judgment



judgment

of ouster, in law, a judgment in quo warranto proceedings which determines a right to a public office and puts out as incumbent who holds the effice without right.—
Judgment recovered, in law, a plea in bar of an action that a former judgment has been entered in which the plaintiff's rights have been once judicially determined.—
Last judgment, in theol., the judgment expected at the last day (doomsday), when all mankind shall appear at the judgment-seat of God, the good be chosen, and the evil be condenned to punishment.—Perceptual judgment, the judgment that a present percept has a perceived character.—Reliability of judgment, in Stumpf'a psychophys., the degree of confidence that may be placed by others in the truth or accuracy of a judgment as expressed. Objective reliability is identical, according to the form of the judgment, either with degree of probability or with degree of accuracy, that is, of approximation to truth. It is conditioned upon two general factors: sensitivity, the degree in which sensation corresponds to exciting stimulus; and subjective reliability, or the reliability of judgment in the apprehension of sensations as such, without regard to their correct reference to external objects. E. B. Titchener, Exper. Psychol., II. ii. p. leixi—To perfect judgment, to record or enter judgment and docket the record.

Judication (jö-di-kä/shon), n. [L. judicatio(n-), indication [jö-di-kä/shon].

judication (jö-di-kā'shon), n. [L. judicatio(n-), \(\)judicare, judge.] The action of judging;

indgment

judicator (jö'di-kā-tor), n. [NL. judicator, \(\) L. judicare, judge.] One who judges; a judge.

judicatores terrarum (jö'di-kā-tō'rēz te-rā'-rum). [L., 'judges of lands.'] Iu Eng. law, certain tenants who. by a custom in Chester, held their tenures by performing judicial neid their tenures by performing judicial duties. From their judgment a writ of error could be obtained from the Court of Chancery, and in ease of error au order from the latter court was given for its correction. The judicatores terrarum then had one month in which to reconsider the matter, and if during that time they failed to reform the judgment, the matter came by writ of error to the King's Bench. If the King's Bench held the judgment erroneous, the judicatores terrarum forfeited £100 to the king, seconding to the custom. judicatorial (i0"/di.kā.tō'ri.al). a. [I.I. indi-indicatorial]

judicatorial (jö"di-kā-tō'ri-al), a. [LL. judicatorius, judicatory, + -all.] Pertaining to a judicator

Judicial documents. See *document.

judiciality (jö-dish-i-al'i-ti), n. [judicial + -ity.] Judicial character.
judicialize (jö-dish'al-īz), v. t.; pret. and pp.

judicialized, ppr. judicializing. [judicial + -ize.]
To arrive at a correct judgment upon; treat in a judicial manner.

judicio sisti (jö-dish'i-ō sis'tī). [L., 'to ap pear for trial': see *judicium and sist.] In Scots law, an undertaking, or security, in which the surety becomes responsible that the principal will abide within the jurisdiction of the court and appear for trial (judicio sisti) when required. In the usual form the principal was bound to appear and answer any suit that should be brought within six months.

judicium (jö-dish'i-um), n. [L., a trial or sentence by a judge, a judgment, \(\begin{align*} judex, a judge: see judicial.\end{align*} In Rom. law, a proceeding to obtain the decision of a judge upon an issue of law.—Judicium capitale, in Eng. law, sentence of death.—Judicium Del. Same as judgment of God (which see, under judgment).—Judicium partum judgment of one's peers, in Eng. law, trial by jury.—Judicium vitæ amissionis.

Same as *judicium capitale.

Judicium vitæ amissionis.

Same as *judicium capitale.

Judy-cow (jö'di-kou"), n. A ladybird. [Loeal,

juey (hô'ā-ē), n. A large land-crab, Cardisoma guanhumi. [Porto Rico.]

guantum. [Forto theo.]

jug'i, ...—A. R. jug, a salt-glazed stoneware vessel, hearing the letters A. R. (Anna Regina) in a medallion on the front, made in England and Germany during the reign of Queen Anne.—C. R. jug, a salt-glazed stoneware vessel, hearing the letters C. R. (Carolus Rex) in a medallion on the front, made in England during the reign of Charles IL—Elisworth jug, a pitcher made in Trenton, New

IL—Elisworth Jersey, in 1861, with relief decorations illustrating of Colonel E. E. Ellsworth at Alexandria, Virginia, at the commencement of the Civil War.—G. R. 1ug, a salt-glazed stonsware vessel, bearing the letters (i. R. (Georgius Rex.), usually accompanied by accompanied by a crown, made in England and Ger-many during the reigns of George I. and George II.— Hound - handle

jug a pitcher or jug of Rock-ingham or brown-Hound-handle Jug. of about 1850. glazed pottery, in the Pennsylvania Museum, Philadelphia.

scenes in relief and a handle in the form of a dog with forefeet resting on the top; first made at the Jersey City

Pottery from a model by Daniel Greatbach, and later re-Pettery from a model by Daniel Greatbach, and later reproduced at several other American potteries. Also called huntingjug (which see).—John Gliplin jug, a jug, produced about 1835 in England, with embossed designs illustrating Cowper's hallad of John Gliplin.—Tam o' Shanter jug, a pitcher or jug with relief designs illustrating Burnis's poem "Tam o' Shanter," first produced at Hanley, England, in 1835. They were made in various sizes and in at least two colors, gray and light blue.—W. R. jug, a salt-glazed stoneware vessel bearing the letters W. R. (Withelmus Rex.), in a medallion on the front, made in England, Holland, and Germany during the reigns of William III. and William IV.

the world, also jagat, \(\sigma\) Skt. jagata, the world. An act of worship by a Brahman supposed to give him preternatural power.

jugal. I. a.—Jugal bar. Same as zygoma.—Jugal cup. See *cup.

II. n. 2. Same as suborbital (b). Starks,

Synonymy of the Fish Skeleton, p. 520.
jugale (jö-gā'lē), n. [NL.: see jngal.] 1.
Same as jugal point (which see, under eraniometry).—2. In ichth., a dermal bone situated in front of the eye and connected with the

Juice-root (jös'rút), n. Samo as Spanish juice (which see, under juice).

gatus, yoked: see jugate, a.] A suborder of lepidopterous insects proposed by Comstock to include the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind connected by his have the fore and hind wind connected by his have the fore and hind wind connected by the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind connected by the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind connected by the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind connected by the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind connected by the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind the families Hepialidæ and Mieropterygidæ, which have the fore and hind wind the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the fore and hind with the families Hepialidæ and Mieropterygidæ, which have the families Hepialidæ and Mieropterygidæ, which Jugatæ (jö-gā'tē), n. pl. [NL., fem. pl. of ju-actus. voked: see jugate, a.] A suborder of

eonnected by a jugum or yoke.

jugate, a. II. n. One of the Jugatæ.—Littlewinged jugate, any member of the lepidopterous family
Micropterygidæ of Comstock's suborder Jugatæ.

jugate (jö'gāt), v. t.; pret. and pp. jugated, ppr. jugating. [L. jugare, yoke: seo jugate, a.] To join or yoke together; eouple together. Bailey, 1721.

juge d'instruction (zhüzh dań-strük-syon').
['Judge of instruction,' that is, a magistrate who eolleets and formulates the preliminary information.] In French law, an officer appointed to receive the complaints of parties injured by eriminal offenses, and thereupon to summon and examine witnesses and draw up the forms of accusation.

pachycephalus, belonging to the family Tetra-odontidæ, found from the West Indies to Brazil.

A IISH, Lagoeephalus jujuism (jö'jö-izm), n. [juju + -ism.] The system of beliefs and practices relating to the juju. jug-fish (jug'fish), n. A fish, Lagoeephalus

Juggernaut (jug'èr-nât), v. t. To erush as if by Juggernaut.

juggins (jug'inz), n. [A homely use of a homely English surname.] A dull fellow; a chump.

jugglement (jug'l-meut), n. [juggle1 + -ment.] Jugglery: a particular instance of jugglery.

jug-handled (jug'han'dld), a. Placed, like the handle of a jug, on one side; hence, one-sided. [Slang.]

French writers realize that the alliance with Russia is a jug-handled arrangement by which France holds the handle and Russia obtains all the outpouring.

The Forum, Jan.-March, 1904, p. 342.

Juglandales (jö-glan-dā'lēz), n. pl. [NL. (Engler, 1892), \(Juglans \) (Jugland-) + -ales.] An order of dieotyledonous plants containing the single family Juglandaceæ (which see).

juglandic (jö-glan'dik), a. Noting an acid, same as *juglone.

juglandine (jö-glan'din), n. [L. juglans (jugland-), walnut, + -ine².] A compound, supposedly an alkaloid, contained in the green shell or leaves of the walnut-tree. It rapidly turns brown on exposure to the air and consequently is used as a hair-dye. It is also employed in medicine for used as a hair-dye. It is also employed certain cutaneous and scrofulous diseases

2. A name sometimes given to juglone. juglolidine (jö-glol'i-din), n. [L. jugl(ans), walnut, +-ol+-id+-ine².] A colorless erys-

talline compound, $C_6H_3 \stackrel{CH_2CH_2CH_2}{\searrow} N_5$

prepared by the action of aniline on 1,3-ehlorbrompropane. It melts at 40° C., boils and partly decomposes at 280° C., and is unstable. The vapor causes sneezing.

juglone (jö'glōn), n. [L. jugl(ans), walnut, + -one.] A yellowish- or brownish-red compound, HOC₁₀H₅O₂, prepared by the oxidation of a-hydrojuglone from the green parts of the walnut-tree; a-hydroxynaphthoquinone, nuein, or regianin. It erystallizes in needles or prisms and melts at 151-154° C.

juglonic (jö-glon'ik), a. [juglone + -ic.] Noting an acid, a yellow crystallino compound, $H\overset{\circ}{O}C_6H(NO_2)_2(C\overset{\circ}{O}\overset{\circ}{O}H)_2$, formed by the action

of nitric acid ou juglone. Also called dini-

of nitrie aeid on juglone. Also ealled dinitrohydroxyphthalic acid.

jugomaxillary (jö-gō-mak'si-lā-ri), a. [L. jugum, yoke, + maxilla, maxilla, + -ary.]

Same as malarimaxillary. Syd. Soc. Lex.

jugonasal (jō-gō-nā'zal), a. [L. jugum, yoke, + nasus, nose, + all.] In anthrop., relating to the jugal points and the nose.—Jugonasal arc, jugonasal cord, the arc and cord passing over the nose from one jugal point to the other. jugulate, v. t. 2. To arrest suddenly, as the progress of a disease, by therapeutic measures. jugum, n. 3. In the Brachiopoda, such as Spiriter, Cyrtina, etc., a part of the shelly internal supporting skeleton which joins the bases of the two spirally coiled ribbons or bases of the two spirally coiled ribbons or spiralia.—4. A small lobe projecting backward from the basal inner margin of the fore wing in the Jugata, which extends under the eostal margin of the hind wing, holding the pair together.

juice-canal (jös'ka-nal"), n. See *canal1.

They are painted on smooth grounds, with a thick juicy impasto, detail being indicated rather more freely than in his second manner.

C. J. Holmes, in Burlington Mag., IV. 73.

juju (jö'jö), n. [West African; perhaps not native, but a repetition of the Pg. deus, God (ef. joss).] Anything supernatural or mysterious, and an object of religious fear or veneration; a charm; a fetish; also, an object of the property servance of mysterious significance like the taboo: used in relation to the religious ideas of the negrees of West Africa.

Their ideas are considerably more advanced than those of the West Coast of Africa generally. There are no juju-houses on the plateau [Nyassa-Tanganyika plateau], no juju ceremonics, no priests nor medicinemen.

Geog. Jour. (R. G. S.), XIII. 588.

jujuist (jö'jö-ist), n. [juju + -ist.] An ad-

herent of jujnism.

juke-neckit (jök'nek*it), n. [A Se. form of 'duck-necked.'] In golf, a modern elub with a neck shaped like that of a duck. W. Park, Game of Golf, p. 39.

Jul. An abbreviation of July.

Julian, a. 2. Iu geol., noting a group of the pelagic Triassie system in Europe and Asia, forming the middle part of the Carinthian stage preceded by the Cordevolian group and followed by the Tuvalian. In the Mediterranean Triassie province it is represented by the Raibl beds.

II. n. The Julian group.

II. n. The Julian group.

Julidæ (jö'li-dē), n. pl. [Nl... \lambda Julus + -idæ.]

A family of myriapods of the order Diplopoda, having from 30 to 70 or more rings. The body is more or less eylindrical and smooth, with a glistening surface. The legs are numerons and short. The menders of this family are sluggish in movement, and when disturbed or at rest coil the body in a spiral. They feed largely upon earthworms, snalls, and other small creatures, and sometimes damage garden and field crops. Their eggs are deposited in the ground. They are known also as cutworms or gally-worms. Sometimes written Iulidæ. Iulida

Jul. Per. An abbreviation of Julian period. Julus (jö'lus), n. [NL (Linnœus, 1748), prop. Iulus (cf. L. iulus, eatkin), < Gr. iov?o;, down.] An old genus of myriapods, typical of the family Julidæ, eontaining many of the forms known as wireworms. Soe uneworm, 2.

jumble-sale (jum'bl-sāl), n. A sale of secondhand articles of every description for the benefit of the poor; a runmage sale.

jumbo¹, n. 2. Any large, eumbersome machine; in particular, a home-made windmill built for lifting water for irrigation on the Great Plains.

jumbo² (jum'bō), n. [Also jumby; short for mumbo-jumbo.] In the West Indies, same as mumbo-jumbo. In the form jumby it is used in various compounds.

yarrous compounds.

jumboism (jum'bō-izm), n. [jumbo¹ + -ism.]

Admiration of bigness, or for things or enterprises remarkable only for their size. [Colloq.]

jumbuck (jum'buk), n. [A native Australian name, thus explained: "The word 'jumbuck' for sheen appears originally as jimba jambook for sheep appears originally as jimba, jomboek, dombock, and dumbog. In each case it meant

sand is about 10 to 12 feet in diameter. It is essential that it be held firmly and fearlessly by a sufficient number of strong men. Firemen are drilled in its use.

Encyc. Brit., XXVIII. 405.

E. E. Morris, Austral English).] A sheep.

[Colloq., Australia.]

jumby (jum'bi). n. Same as *jumbo².

Jumby beans. See *bean¹,

jumby-bead (jum'bi-bēd)

jumby-bead (jum'bi-bēd), n. See *jumbo².]
1. In the West Indies, a seed of the bead, necklace-, or jumby-tree, Ormosia monosperma. These seeds are nearly globular, half an inch in diameter, very hard, and in color a brilliant scarlet with a large black spot. They are the largest of the various kinds of coral beans often brought by travelers from the West Indies.—2. Same as jumble-bead.

jumby-tree (jum'bi-trē), n. [See *jumbo².]
The bead- or necklace-tree, Ormosia mono-sperma, of the West Indies, which yields red and black seeds called jumby-beads. *jumby-bead and coral bean, under bean1

jumentous (jö-men'tns), a. [L. jumentum, a beast of burden, + -ous.] Relating to or characteristic of a beast of burden: applied to

characteristic of a beast of burden; applied to urine having a peculiar odor.

jump', r. I. intrans.—To jump to a concluston, to arrive at a conclusion illogically and without consideration; frequently, to arrive at an erroneous conclusion.

II. trans. 9. To estimate in the gross, as weight.—10. To get on or off (a train or boat in motion) by jumping: as, he jumped the express as it left the station. N. E. D.—11. In marraing to drill by means of a jumper or In quarrying, to drill by means of a jumper or In quarrying, to drill by means of a jumper or hand-drill.—To jump a ship, to desert from a vessel.

To jump on or upon, to attack violently, suddenly, or with vituperation. [Slang.]—To jump the masts, of a vessel, to lose its spars, as in a heavy sea, or upon striking the bottom with great force.

jump!, n. 6, pl. Nervous twitching of the body; delurium tremens.—To make a pter-head jump, to desert a ship as soon as it hauls alongside a dock.

jump-drill (jump'dril), n. A form of drill for boring into rock of which the bar is lifted by two men and then forced downward, so that it

two men and then forced downward, so that it has a jumping motion. The bar is often made more massive by a lump or enlargement of section above where it is expected to enter the ground: used in rough work, or where straight holes are not essential.

work, or where straight holes are not essential.

jumper¹, n., 5. (f) In telephony, a piece of wire or other conductor used to make temporary connection between points on the switchboard of an exchange. (g) In elect, a temporary slaunt or short-circuit put around a source, lamp, or receptive device on a series-connected circuit, to enable it to be readily removed or repaired.

Houston, Elect. Dict.

8. One who is registered and votes fraudulently in several places. [Pelit. slang.]

There are more 'jumpers' than there were two years go. These 'jumpers' vote in widely separated parts of he city.

N. Y. Tribune, Oct. 27, 1903. the city.

9. One who is affected with the jumping-discase.—Ranking jumper, a wood-shod sled upon which tan-bark is hauled.

jumper-stays (jum'per-stāz), n. pl. Extra stays leading from the lower mastheads to the

stays leading from the lower mastheads to the sides of a vessel, where they are set up with tackles. Also known as prerenter stays. jumping (jum'ping), n. In ceram., the staining of the glaze on the under parts of pieces of ceramic ware: a potters' term. This effect is sometimes noticed on pieces decorated with they blue color. flow-blue color.

jumping-beetle (jum'ping-be"tl), n. The flea-beetle; specifically, the turnip flea-beetle of England, Phyllotreta nemorum.

jumping-disease (jum'ping-di-zēz"), n. A nervous affection occasionally observed, especially in woodsmen in Maine, sufferers from which involuntarily jump, regardless of where they are or where they may land, as in response to a sharp command.

jumping-hare, n.—Cape jumping-hare. Same as jumping-hare, Pedetes cafer.

jumping-jack (jum'ping-jak), n. A toy consisting of a human figure which is caused to jump, dance, or go through various contortions, by pulling a string attached to its limbs.

jumping-Johnny (jum'pirg-jon'i), n. A machine for cutting rolled metal bars or plates into equal lengths. It has an automatic stop which comes back to its place quickly after being displaced to allow a piece to be taken from the machine. [Eng.]

jumping-net (jum'ping-net), n. A stout net usually about 12 feet in diameter, having a heavy cord or rope around its edge: used for catching people who fall or jump from burning buildings.

hammering it in the direction of its length dian species having a short tail and very even spots.

jump-jointed (jump'join "ted), a. Flushjointed: said of a carvel-built vessel.

jump-spark (jump spark), n. An electric spark which jumps a gap in a previously open circuit: frequently used for igniting the charge in an internal-combustion engine.

jump-stroke (jump'strok), n. 1. A stroke in billiards by which the ball is caused to jump or rebound. There are two ways of accomplishing this: one is by thrusting the cue-tip under the ball, which in effect is lifted rather than bounced at the outset, though it will jump later; the other is by a downward blow of the cue, held obliquely, which drives the ball against the bed, whence it rebounds once or oftener. Indention of the cloth is a probable penalty. The stroke is now seldom used. is now seldom used.

2. In *croquet*, a stroke, played in sending a ball through a wicket at an oblique angle, by which the ball is made to strike the further wire of the hoop.

An abbreviation of junction.

juncite (jung'sīt), n. [Juneus + -itc².] A fossil plant supposed to belong to the rush, Jun-

sil plant supposed to belong to the rush, Juncus, or closely resembling it.

juncol, n. 1. Several species of these little birds are now recognized, in place of the so-called varieties.—Pinksided Junco, Junco annectens, a species which has pinkish sides: from the mountains of Colorado, Idaho, etc.—White-winged Junco, Junco aikeni, a rather large species from Colorado, having the wings marked with broad, white bars.

junco² (hön'kö), n. [Mex. Sp. use of Sp. junco, jungle-rice (jung'gl-rīs), n. See *ricc¹. a rush: see junk¹.] A thorny shrub or small tree, Kæberlinia spinosa, of southwestern Texas jungle-wood (jung'gl-wud), n. [East Indian name.] Same as sai. and northern Mexico, with numerous almost leafless branches, the branchlets ending in spines.—Junco family, the plant family Kaberlinia-cex. See $\bigstar Kaberlinincex$.

Juncoides (jung-koi'dēz), n. [NL. (Adanson, 1763), (Juncus + -oides, having a resemblance to the genus Juncus.] A genus of monocotyledonous plants of the family Juncaceæ. See Luzula.

junction, m.—Interlamellar junction, in the gills of bivalve mollusks, one of the vertical bars of tissue which extend between the two lamelle and divide the intervening space into distinct compartments called the watertubes, and which also cause the appearance of vertical

junction-box, n. 2. In cleet., the appliance used to connect underground or concealed electric conductors.

junction-plane (jungk'shen-plan), n. A surface produced by the contact of contrasted geological formations.

The Scottish thrust-planes are eroded like ordinary junction-planes between strata.

Geikie, Text-book of Geology, p. 1370.

junction-valve (jungk'shon-valv), n. An ordinary steam- or water-valve which joins two pipes.

juncture, n. 4. In geom., either the instantaneous union of a collection of objects which are just moving in coincidence of place, thereafter to be for some lapse of time one object, or the instantaneous loss of one or more dimensions by the gradual shrinkage of a body, this smaller dimensionality lasting through a period of time.—Degenerative juncture, that mode of juncture which consists in the diminution of the dimensionality of a moving object, as when a filament shrinks to a particle and remains such.—Ordinary juncture, that mode of juncture which consists in the arrival at a common place of two or more objects.

June-beetle, n. Same as Junc-bug.

June-bug, n.—Western green June-bug, Allorhina mutabilis, a species resembling the southeastern Junebug, A. mitida, and occurring in the southwestern United States where it sometimes does considerable damage to ripe peaches.

let, Viola Canadensis, which blooms in June. June-grass, n.—Prairie June-grass, a bunch-grass, Kwleria cristata, which ranges from Pennsylvania to Texas and California, and is also found in the Old World. It is of some value for grazing, especially on account of its enrilness, and on irrigated ground it makes excellent hay. See Kwleria.

Jungermanniales (jung-ger-man-i-ā'lēz), n. pl. [NL. (Engler, 1892), < Jungermannia + -ales.] An order of cryptogamic plants of the class Hepaticæ, coextensive with the family Jungermanniaceæ, and therefore including both the anacrogynous and the acrogynous scalemosses. It embraces 134 genera, of which 18 belong to the $\bigstar Anacrogynæ$ and 116 to the $\bigstar Acrogynæ$ (see these terms). In Schiffner's revision, adopted by Engler, the genus Jungermannia is no longer recognized, being divided up among a large number of genera belonging to different tribes, but especially to the tribes Lejeuneeæ and Leydlanieæ. and Frullaniese.

jungle-fowl, n.—Gray jungle-fowl, Sonnerat's jungle-fowl, Gallus sonnerrati, a species which has the neck-hackles black, edged with gray, each with a spot at the end resembling a spot of yellow sealing-war: found



Sonnerat's Jungle-fowl (Gallus sonnerrati).

in western, southern, and central India.— Javan junglefowl, G. varius, a very dark species, with the edge of the comb entire and a single wattle on the under side of the throat—Sonnerat's jungle-fowl. See gray *jungle-india.

jungle-hen (jung'gl-hen), n. Same as jungle-

name.] Same as saj.

Junimist (yö'ni-mist), n. [Rum. Junimea, name of a literary society, + -ist.] In recent Rumanian history, a member of the party of young conservatives. moderately liberal in views and an offshoot from the old censervatives. The name is derived from Junimea, a literary association.

Another party [in Rumania] which now attracted considerable attention was that of the Junimists, or Young Conservatives. The name was taken from a literary society formed in Jassy in 1874 by Messrs P. Carp, Rosetti, and Maiorescu, and transformed into a political association in 1881. Their programme for home affairs involved the amelioration of the position of the peasantry and working classes, whose progress they considered had been oversion of the communal law in the sense of decentralization.

Encyc. Brit., XXXII. 324.

juniorate (jö'nyo-rāt), n. [ML. junioratus, the nior, a junior; see junior and -tte³.] The status of a junior; specifically, in the Society of Jesus, a two years' course devoted to the review of classical studies preparatory to entering upon the course of philosophy; also, the house where such a course is given.

the house where such a course is given.

juniper, n. 2. The American larch, Larix laricina.—3. The black spruce, Picca Mariana.—Alligator-juniper or checkered-bark juniper, the thick-barked juniper, Juniperus pachyphlæa, found in high altitudes from Texas to Arizona and Mexico. The names allude to the checkered bark, which is sometimes nearly four inches thick.—California juniper, Juniperus Californica, of California and Nevada.—Checkeredbark juniper. Same as alliqator-tyuniper.—Creeping juniper. (a) The savin or shrubby red cedar, Juniperus Sabina. (b) The ground-hemlock, Taxus Canadensis.—Drooping juniper, Juniperus flaccida, of southwestern Texas and northeastern Mexico, which has long, slent, drooping branches.—Juniper bay. See *bay2.—Juniper swamp. See *juniper-swamp.—Native juniper. Juniperus Virginiana.—Western juniper, Juniperus occidentalis, the common juniper of the western United States, especially of mountainous districts and foot-hills, attaining its maximum development in the Sierra Nevadas at from 6,000 to 10,000 feet altitude.

juniperin (jö'ni-pèr-in), n. [juniper + -in².]

June-flower (jön'flou''er), n. The Canada vio-let, Viola Canadensis, which blooms in June. A black resinous compound obtained from juniper berries.

juniper-pug (jö'ni-per-pug), n. A British col-lectors' name for a European geometrid moth, Tephroclystia sobrinata.

juniper-swamp (jö'ni-per-swomp), n. In the southeastern United States, a swamp, or more commonly an area in a large swamp, in which the white cedar, Chamæeyparis thyoides, there called juniper, is the dominant tree. In the Dismal Swamp these areas are distinguished from the *gum-swamps. See juniper.

juniper-water (jö'ni-per-wâ"ter), n. An aromatic cordial flavored with juniper-berries.

juniper-worm (jö'ni-per-werm), n. The larva of an American geometrid moth, Syssaura infensata, which feeds on the foliage of the juni-

junk-board (jungk'bord), n. A elose-textured kind of millboard. A heavy and

Owing to the weight of the junk-board, and the extreme irregularity of form of certain discs, it is better to let the disc rotate in the horizontal plane.

E. B. Tütchener, Exper. Psychol., I. ii. 350.

Junker calorimeter. See *calorimeter. junket², n. 1. (b) Milk artificially eoagulated with rennet.

junk-hook (jungk'huk), n. A hook used for extracting the junk from the head of a whale. junk-wind (jungk'wind), n. A south or south-west monsoon wind of Siam, China, and Japan, favorable for sailing junks.

Junonia (jö-nō'ni-ä), n. [NL. (Huebner, 1816?), < L. Juno: see Juno.] A genus of butterflies of the family Nymphalidæ, of wide geographic distribution, occurring in India, Africa, China, the West Indies, and North and South American China, the West Indies, and North American China, the West Indies, and the West Ind ica. The commonest species in the United States is J. cænia, which occurs also in Central America.

junr. An abbreviation of junior.

jupe, n. 2. A skirt: generally used in fashion

iuramentado (hö#rä-mān-tä'dō), n.; pl. juramentudos (dos). [Sp., ppr. of juramentar, make oath, \(\) juramento, \(\) L. juramentum, an oath: see \(\)juramentum.] One who has taken an oath; specifically, a Mohammedan Malay or Moro who has sworn to die in killing as many persons, especially Christians or enemies, as he can. Jour. Amer. Folk-lore, July-

mes, as he can. Jour. Amer. Poin-core, July-Sept., 1902, p. 147.
juramento (hö⁴rä-mān'tō), n. [Sp., ⟨ L. juramentum, an oath: see *juramentum.] An oath

or declaration under oath.

swear: see jurat¹, jury.] In ciril law, an oath, —Juramentum calumniae l'oath of calumny, in civil and canon law, an oath required of parties to an action, and of the storneys of the parties, that in prosecuting or defending the action they are not influenced by malice, but believe in the justice of their cause.

**Comparison of the comparison of the juramentum (jö-ra-men'tum), n.

jurata (jö-rā'tā), n. [ML.: see jury.] In old

Eng. law, a jury. juratorial (jö -rā-tō' ri-al), a. [As juratory + -all.] Pertaining to a jury: as, juratorial privilege

Jura-Trias (jö'rä-trī'as), n. In geol., a rock series which is regarded as representing, in part or whole, deposits of both Triassic and Jurassic time (as in the case of the Red or Newark sandstones of the Connecticnt valley, New Jersey, Pennsylvania, and southward), or in which the distinction of age is obscure (as in the Burrum and Ipswieh formations of Queensland).

[A back-formation from juror.] inre (jör), v. t. A mocking word in the passage quoted, conveying a vague threat.

Yen are Grand Jurors, are ye? We'll jure ye, l' faith. Shak., l. Hen. lV, il. 2.

An abbreviation of jurisprudence. jurnal, jurnalism, jurnalist. Simplified spell-

ings of journal, journalism, journalist.
jurney, n. and v. i. A simplified spelling of

jurubeba (zhö-rö-bā'bä), n. [Braz.] Solanum paniculatum, a medicinal plant of the nightshade family, much used in Brazil, especially for affections of the liver and spleen.

Jury, h.—Common jury. See trial jury, under jury.
—Hung jury, in law, one that fails to agree upon a verdict.—Jury of the vicinage, a jury drawn from the county where the trial is to be held. In former English law it meant a jury drawn from the immediate neighborhood, hence its name.—To poll a jury, to call upon each juror individually to know it the verdict given by the foreman is the verdict of each one.

jury-rudder.

The skipper winked his Western eye, and swore by a China storm:—

to a plaster jacket and supporting a sling in which the head rests by the chin and occiput: Just. An abbreviation (u) of Justice; (b) of employed to relieve the spine of the weight of the head in earies of the cervical or upper dorsal vertebræ.

jury-sail (jö'ri-sāl), n. A temporary sail which fills the place of one that has been blown away or damaged; a sail that best suits eertain conditions that are out of the ordinary. jury-wheel (jö'ri-hwēl), n. A eireular revolving box in which the names of persons subject to be drawn to serve as jurors are placed to be mingled and then drawn out by Îot.

jus2, n.-Juris et de jure, in law, of right and by right. A presumption juriset de jure, in take, of right and by right.

A presumption juriset de jure is a conclusive presumption of law or fact.—Jus abutendi ['right of using up'], in Rom. law, the right of absolute dominion over property.

Jus actus ['right of driving'], in Rom. law, a servitude by which a right of passage for carriages or cattle over of law or fact.—Jus abutendi ['right of using up'], in Rom. Row, the wight of absolute dominion over property.—Jus actus ['right of driving'], in Rom. law, a servitude by which a right of passage for carriages or cattle over the servient estate was given.—Jus ad rem, in civil law, the right to a thing. It exists only relatively, and can be exercised only through another, as distinguished from jus in re, in which dominion over the thing is such that the right can be absolutely exercised without reference to snother.—Jus Elianum, a hody of laws, published about 200 B.C. by Sextus Ælius, consisting of three parts: the first two related to the law of the twelve tables and their interpretation and the third was a description of forms of procedure.—Jus æquum, in Rom. law, equitable law, as distinguished from the jus strictum.—Jus anglorum, in Eng. law, the laws and customs of the West Saxons during the time of the heptarchy.—Jus aqueductus, in civil law, a servitude or easement by which the owner of the dominant estate had the right to receive water over the land of the servient estate.—Jus aquehaustus, in Rom. law, a servitude which was given the right to water cattle on another's land or to draw water from another's well.—Jus bellum dicendi, in international law, the right of declaring war.—Jus civile, in Rom. law: (b) The local law of Rome. (c) Private as distinguished from public or international law.—Jus civile, in Rom. law: (b) The local law of Rome.

Jus civitatis, in Rom. law: (a) File licitaneship with all its prerogatives and privileges. (b) The law of a particular state as distinguished from the jus yentium, or easement by which the owner of the dominant estate has a right to have the waters which fall upon it conducted over the land of the servient estate.—Jus deliberandi, in law, right of deliberation; a time given to an heir in which to have the waters which fall upon it conducted over the land of the servient estate.—Jus deliberandi, in law, right of deliberation; in law as excitude or easement by whic to administer his wife's goods and the rents of her heritage during coverture. (b) In common law, the rights of
a husband.—Jus Papirianum, a collection of royal
laws said to have been in torce in early Roman times during the reigns of Romulus, Numa, and other ancient kings.
—Jus protegendi, in civil law, a servitude or easement
by which a part of the roof or structure of one house was
made to extend over that of another.—Jus quiritium, in
Rom. law, the right of a Roman citizen to own property.
—Jus relicts, in Scots law, a wife's right, upon her husband's death, to one third of his personalty if he has issue
and to one half if he has none. Compare *jus relicti.—
Jus relicti, in Scots law, a husband's right, upon his
wife's death, to one third of her personalty if she has issue
and to one half if she has none.—Jus singulare a law
applicable to an individual case or class of cases. It is an
exception to the ordinary law, and when beneficial to particular classes of persons is called a privilege. If it confers a particular right upon a particular person, it is called
a special law.—Jus utendi, in law, the right of using the
property of another without materially altering or destroying it, as distinguished from *jus abutendi.

jusi (hö'sē), n. Same as *husi.

jusi (hö'sē), n. Same as *husi.

jury-coat (jö'ri-kōt), n. A substituted coat, or juslik (yöz'lik), n. [Turk. *yuzliq, \langle yuz, one one nsed for the occasion. See jury-mast, jury-rudder.

juslik (yöz'lik), n. [Turk. *yuzliq, \langle yuz, one hundred, + -liq, an adj. suffix.] A Turkish coin: (a) the white juslik, of the value of 100 paras; (b) the jellow juslik or 100-piaster gold piece; the lira Turea.

'They ha' rigged him a Joseph's jury-coat to keep his Jus. P. An abbreviation of Justice of the Peace. honour warm.'

R. Kipling, The Three Captains, in Barrack-room Ballads, [p. 134.]

[p. 134.]

| Jussion (jv.sh'on), n. [L. jussio(n-), order, order, order, command.] Ordering; eommanding; eommand.—Letters of jussion, letters sent by the king of France ordering the Parliament to register ordinances.

Justinian.

justice, n.—Distributive justice, in law, that which governs the distribution of rewards and punishments, assigning to every man the reward his merit deserves or assigning to every man the reward his merit deserves or proper punishment for his crimes: in contradistinction to commutative justice, or justice in barter and exchange generally.—Justice of oyer and terminer, a justice of the court of oyer and terminer, see court of oyer and terminer, under oyer.—Justices of the pavilion, in Eng. law, justices of a certain piepowder court established by the Bishop of Winchester at the fair of St. Glies Hills during the reign of Edward IV.—Preventive justice, in law, justice administered with a view to preventing a wrong or crime, as by injunctive relief, putting under bonds to keep the peace, etc.

justice—weed (jus'tis-wed), n. Iu mining, a eheck weighman acting on behalf of the miners, Barrowman, Glossary. [Scotch.] justice—weed (jus'tis-wed), n. Either of two

American species of Eupatorium, E. leucolepis and E. hyssopifolium.
justifier, n. 2. In printing: (c) The wooden

wedge once used in old forms of hand-press to keep together parts about to separate.

justify, v. t.— Justifying velocity. See *velocity. justo (zhös'tō), n. [Pg.] A gold coin of John II. of Portugal (1481-95), apparently equal to from 540 to 600 reis. The name was suggested by the reverse legend "Et justus ut palma florebit."

Jus justo-major (jus'tō-mā"jor), a. [Short for NL. pelvis æquabiliter justo-major, 'a pelvis uniformly larger than normal.'] In obstet., a term employed to denote a pelvis of normal shape, but the diameters of which are greater than normal.

justo-minor (jus'tō-mā"nor), a. [Short for pelvis æquabiliter justo-minor, a pelvis uniformly smaller than normal.'] In obstet., a term employed to denote a pelvis of normal shape but unusually small.

jute², n.—China jute, the fiber of Abutilon Abutilon, cultivated in China. See American jute, under jute².
 Juvavian (jö-vā'vi-an), a. and n. [G. Juvaviseh,

(ML. Juvavum or Juvavia, name of Salzburg.]
Taking name from the old Juvavum. See the Taking name from the old Juvavum. See the etymology.—Juvavian province, in geol., a province of the Alpie Trias occupying the northeast slopes of the Alpie Trias occupying the northeast slopes of the Alpie Trias occupying the northeast slopes of the Alpie and extending into Hungary. It is characterized by its extensive ammoneid cephalopod fanna, comprising species of many genera.—Juvavian stage, in gool., a stage of the upper pelagic Triassic system in Europe and Asia, preceded by the Carinthian and followed by the Rhætic stage, and forming the earlier part of the Bajuvarian series. It is represented in Europe by the Juvavian Halstatt limestone and the Dachstein limestone, and in India by the zones of Clydonautilus griesbachi and Steinmannites undulostriatus and the beds with Spiriferina griesbachi. ariesbachi.

juvenilia (jö-ve-nil'i-ä), n. pl. [NL. prop. neut. pl. of juvenilis, juvenile.] Things done (especially written) in youth; juvenile writings or works of art. Athenæum, June 24, 1905, p.

juxta-articular (juks"tä-är-tik'ū-lär), a. In

the immediate neighborhood of a joint.

juxtabasal (juks-tā-bā'sal), a. Near or next
to the basal parts.

Juxtaposed twin. Same as contact-twin. See

juxtapositive (juks-tä-poz'i-tiv), a. and n. In gram., noting a syntaetie ease expressing position by the side of an object. A. S. Gatschet, Gram. of the Klamath Lang., p. 470.

juxtapositer (juks-tā-poz'i-tèr), n. An attaehment to the speetrophotometer, designed by Milne, for bringing together, along parallel paths, the two beams of light the speetra of which are to be compared.

iuxtaspinal (juks-tä-spi'nal), a. Alongside the spinal column or a spinous process anywhere. juxtaterrestrial (juks"tä-te-res'tri-al), a. Near the land: said of the ocean-bottom.

Under the most favorable conditions, therefore, the organic remains actually preserved will usually represent little more than a mere traction of the whole assemblage of life in these juxta-terrestrial parts of the ocean. Grikie, Text-book of Geol. (4th ed.), p. 828.

J. V. D. Same as J. U. D.





3. As an abbreviation: In elect., of kuthode (cathode, which see) and kathodic (cathodic).—4. In math.: (b) [cap.] The Lemoine point in geometry.—6. In mineral., the middle letter of the general symbol hkl, given to the

as a symbol of electrostatic capacity, but C is now almost universally adopted for this quansignate magnetic susceptibility. (c) A symbol for absolute temperature.

drew (Russia).

kabaya, n. See cabaya. kabiki (kä-bē'kē), n. [Philippine name.] In the Philippine Islands, Minusops Elengi, a tree having sweet-scented flowers, which retain their oder when dried and from which a seent is prepared by distillation. The wood is hard and heavy and of a pinkish-red color, and the bark is bitter and is used medicinally. The berries are sometimes eaten by the natives, and the seeds yield an oil which in India is used for cooking. See Minusops.

kabuto (kä-bö-tō') n. [Jap., a helmet.] The pet-helmet of old Japanese armor. kachina (kä-chē'nä), n. Same as *katcina.

kackle (kak'l), v. t.; pret. and pp. kackled, ppr. kackling. [Origin unknown.] To secure ppr. kackling. [Origin unknown.] To secure (rigging) against chafing by making fast one end of a rope, then hitching alternately right and left.

kæmpferid (kemp'fē-rid), n. [Kæmpferia + -id¹.] A sulphur-colored bitter principle, $C_{16}H_{12}O_6$, H_2O , entained in galangal-root, radix galanga. It crystallizes in flat needles, radix galange. It crystallizes in flat needles, melts at 221-222° C., and sublimes with some decomposition.

kaffeeklatsch (kä'fā-klāch), n. [G., < kaffee, eoffee, + klatsch, < klatschen, chat, chatter.]
An afternoon party in Germany at which coffee er tea is drunk; an 'aftereeon tea' iu Germany.

German married women are fond of meeting in knots of three or four in the afternoon at each other's houses for the purpose of enjoying a social cup of coffee. To these innocent gatherings their unfeeling liege lords have given the name of kaffeeklatsch.

J. M. Hart, German Universities, p. 162.

Kafir. I. n. 5. pl. The stock-exchange term for South African mine shares. [Eng.]

II. a.—Kafir butter. See *butter!.—Kafir chest-nut. Same as wild chestnud, under chestnut.—Kafir cotton. See *cotton!.—Kafir piano. Same as zanze.

Kafir-corn, n. See Indian millet, under millet, and sorghum, 2. In the semi-arid regions of western Kansas and in other places Kafir-corn has become of great agricultural importance on account of its ability to resist drought. Some varieties—for example, red Kafir-corn—are adapted to use as forage; others, particularly that known as Jerusalem corn, furnish grain.

Kafir-plum (kaf'er-plum), n. Either of two spiny South African shrubs of the family Flacourtiacex, Dovyalis rhamnoides and rotundifolia, yielding edible, pulpy fruits

which make good preserves.

Kafir-thorn (kaf'er-thôrn), n. The tea-tree, Lycium Afrum. See Lycium. The African

kaguan (kä-gwän'), n. [Native name.] The native name of the flying-lemur or colugo, Galeopithecus, adopted as a book-name.

Kagura (kä'gö-rä or käng'ö-rä), n. [Jap.] One of the oldest dances of Japan, which is still to be seen in certain temples. The dancers wear curious gowns and masks. The step is solemn, dignified, and slow, and set to sweet music. It is supposed to be the dance by which the snn-goddess was lured from the cave in which she had seeInded herself. C. M. Solwey, Fans of Japan, p. 71.

(d) kagurazame (kä-gë-rä-zä'me), rabuka.

kagyos (käg'yōs), n. [Tagalog kagyos.] In the Philippine Islands, the pigeon-pea, Cajan

face of a crystal in the system of Miller. See *symbol!, 7.—7. In phys.: (a) The symbol usually employed for moment of inertia. The letter K is used by some writers Sec., 1897, vol. xviii., p. 63.] The proboseismonkey, Nasalis larvatus: adopted as a bookname.

(b) A symbol usually employed to de- **kahawai** (kä/hä-wi), n. [Maori.] A fish, Arripis te magnetic susceptibility. (c) A symbol salar, the salmon of Australia and New solute temperature. Zealand.

K. A. An abbreviation of Knight of St. An- kahikatoa (kä-hē-kä'tō-ä), n. [Maeri name.] The New Zealand tea-tree, Leptospermum scoparium, a large, heath-like shrub or small tree belonging to the myrtle family. See tea-

kahikomako (kä-hē-kō'mä-kō), n. [Maori.] A small New Zealand tree, Pennantia corymbosa, of the family Olacaceæ. It has simple, alternate, leathery leaves and fragrant white flowers. The wood is used by the Maoris for kindling fires by friction. kahuna (kä-hö'nä), n. [Hawalian.] A priest or medicine-man.

kai (kī), n. [Maori.] Food. [Australia and New Zealand.] E. E. Morris, Austral English. kaid (kä-ēd'), n. [Ar. qāid: see alcaid.] In northern Africa, the head or chief of a tribe, or the governor of a town or local district.

kaik (kä'ik), n. [Maorikaika (southern dialect), kainga (northern dialect), a place of abode, a village, = Tengan kaiaga, a place where food has been eaten, a table, a manger; connected with Maori and Tongan kai, food: see *kai.]

kaimeh (kä'i-me), n. [Turk. qāimeh, < qāim, habits the island of Molokai. upright, firm.] Turkish paper money; notes of the Ottoman Bank. kakistocrat (ka-kis'tō-krat), n. kakistocrat (ka-kis'tō-krat), n.

kainga (kä'in-gä), n. S Morris, Austral English. Same as *kaik. E. E.

kainosite, n. See *cenosite.

kaique, n. See caique1.

kai-ri (kī-rē'), n. [Jap., < kai, sea, + ri, mile.]
The Japanese name for the nautieal mile (6,080 English feet).

kairocoll (ki'rō-kol), n. [Gr. καιρός, the right time, + κόλλα, glue.] A colorless compound, $C_{11}H_{11}NO_2$, prepared by the action of tetrahydroxyquinoline on chloracetic acid. crystallizes in long, slender needles and melts at 66° C.

kairolin (kī'rē-lin), n. A colorless liquid, C₉-H₁₀NCH₃, prepared by the action of methyl iedide on tetrahydroquineline; methyltetrahydroquineline. It boils at 242-244° C. under 720 millimeters pressure, and is used in medicine as a febrifuge.

cine as a febrifuge.

kaisergelb (kī'zėr-gelp), n. [G., 'imperial yellew.'] One of the modern coal-tar products used as a yellew dye on cloth and to a larger extent on leather. It is the sodium or ammonium salt of hexanitrodiphenylamine. Also known as aurantia. Thorpe, Dict. Applied Chem., 11. 377.

kaiserroth (kī'zėr-rēt), n. [G., 'imperial red.'] A coal-tar derivative used in dyeing red. It belongs to the class of phthaleins, and is the sodium salt of dinitro-dibromilnorescein. Also known as earlet and safrosin.

eosin scarlet and safrosin.

kaiserschwarz (kī'zer-shvärts), n. [G., perial black.'] A black dyestuff consisting of logwood extract exidized by boiling with salts of copper, iron, or chromium, and exalic acid, There are several preparations sold under this name, varying in detail as to the process used in making them. Also known as indigo substitute and noir impérial.

kaiserzinn (kī 'zer-tsin), n. [G., 'imperial tin.'] A pewter-like material that takes a high pelish. It is used for making utensils, kaiserzinn (kī 'zėr-tsin), n.

dishes, and ornaments.

kaitaka (kä-i-tä'kä), n. [Maeri.] A mat of fine texture made by New Zealanders and often worn by them as a cloak. E. E. Morris, Austral English.

kaivel (kā'vel), n. [Variant of cavel2, kevel2.]
A lot. See cavel2, and the extract.

The fishermen of northeast Scotland, when they return after a successful haul, divide the spoil into as many shares as there are men in the boat, with one share more for the boat. Each man then procures a piece of wood or stone, on which he puts a private mark. These lots are put in a heap, and an outsider is called in who throws one lot or kainel upon each heap of fish. Each fisherman then finds his kainel, and the heap on which it lies is his. This system of "casting kainels," as it is called, is certainly of great antiquity.

Encyc. Brit., XXXIII. 899.

kaiwhiria (kä-i-whē'ri-ä), n. [Maori name.] In New Zealand, an evergreen shrub or small tree, Hedycarya arborea, belonging to the family Monimiaceæ, with opposite leaves, axillary panicles of diocions flowers, and fruit in the form of red drupes. The wood is finely marked and is suitable for veneering.

kaka-bill (kä'kä-bil), n. Same as parrotbeak. See *kowhai.

kakaguate (kä-kä-gwä'tā), n. In Gnam, same cacahuate.

kakahuete (kä-kä-hwā'tā), n. In the Philippine Islands, same as *cacahuate.

kakalaioa (kä-kä-li-ō'ä), n. [Hawaiian, lit. 'thorny.'] A native name in Hawaii for the nicker-tree, Guilandina Crista. See *bayaqkambing.

kakariki (kä-kä'rē-kē), n. A Maori name, adepted to seme extent for a small green parrot of the genus Platycercus. P. novæhollandiæ

with Maori and rongan kar, root.

A Maori village. [New Zealand.]

kaikai (kä'i-kä'i), n. [A repetition of Maori kakawahie (kä-kä-wä-hē'ā), n. [Hawaiian.]

kai, food.] Feasting. [Colloq., Australia and One of the honey-snekers, Oreomyza flammea, peculiar to the Sandwich Islands, which in-

kakistocrat (ka-kis'tō-krat), n. [kakistocracy (-crat-).] One of the governors in a state ruled by a kakistocracy.

Kakiyemon (kä'kē-yā-mōn), n. The name of a Japanese artist, Sakaida Kakiyemon, of Arita, about the middle of the seventeenth century: applied to a characteristic style of decoration on Japanese porcelain, consisting of a few simple metives, such as flowers, twigs of trees, and a couple of small birds, scattered sparingly on the white ground, and painted in enamel colors, usually red, green, and blue. This style was later employed at Chantilly, Chelsea, Bow, Worcester, and elsewhere.

kakke (käk'kā), n. [Jap.] Same as bcriberi. kakkerlak (kä'kèr-lak), n. [Also kakerlak, kakerlac; < D. kakkerlak, G. kakerlak (F. kakerla, cancrelat, eockroach, kakerlaque, chacre-las, albino), said to be of S. Amer. origin, but perhaps representing a perversion of the original of Sp. cucaracha, E. cockroach. The sense 'albino' seems to be an allusion to the cockroach's shrinking from the light.] 1. A cockroach. Cassell, Nat. Hist., VI. 132. N. E. D. -2. An albino.

kakkerlakism (kä'kėr-lak-izm), n. luk + -ism.] Same as albinism. Buck, Med. Handbook, I. 165.

continued fever, with progressive anemia, prostration, and dropsy.

Kala-azar has for a number of years been one of the riddles of tropical medicine. There have probably been few diseases so frequently investigated during so short s

kan

period in which such varying conclusions have been arrived at by those who have been occupied with the work of investigation. Jour. Trop. Med., Jan. 1, 1903, p. 8.

kalaite, n. See calaite.
kalamalo (kä-lä-mä'lö), n. [Hawaiian kalamalo.] A Hawaiian grass. Same as *emoloa.
kaliborite (kal-i-bō'rīt), n. [kalium + boron
kaliborite (kal-i-bō'rīt), n. [kalium + boron
+ -ite².] A massive borate of magnesium and

| A massive borate of magnesium and | | kalamansanai (kä'lä-män-sä-nī'), n. [Also ealamansanai: < Tagalog calamansanay.] A name in the Philippine Islands of several valuable timber-trees, especially of Terminalia Calamansanay, of the family Combretaceae, with simple pointed leaves clustered at the ends of the branches, spikes of inconspicuous flowers, and winged, nut-like fruit. The wood is close-grained, hard and brittle, and of a color varying from light pink to dark red, often variegated in shades of red. It is susceptible of high polish and is valued for floors by the natives, who, as a rule, take great pride in having fine polished doors in their houses. Though common in sev-eral provinces, it is not often found in the markets of Manila.

kalamein (kal-a-mē'in), n. [calam(ine) (G. kalmei) + -e-in.] "A compound of tin, antimony, bismuth, lead, and nickel used in the manufacture of a particular form of galvanized iron. **kalamias** (kä-lä-mē' äs), n. [Tagalog name.] Same as *kamias.

kalamismis (kä-lä-mēs' mēs), n. [Tagalog kalamismis.] A twining, herbaceous, trifoliate bean, Botor tetragonoloba, having a tuberous root and legumes with four longitudinal ruffled wings. The tender, green, succulent peds are cooked as a vegetable in the Philippine Islands and the island of Guam. In India they are pickled and the seeds are also eaten. Also ealled seguidillas.

kalantas (kä-län-täs'), n. [Also calantas; < Tagalog calantas.] In the Philippine Islands, Toona Toona, a valuable timber-tree with fragrant red wood often ealled eedar on account of its color and odor. The wood is soft and easily worked, and resembles manogany in texture, though much lighter in weight. It is very durable is not subject to the attacks of termites, and is chiefly used for eigar-boxes, chests, and fine interior woodwork, and sometimes by the natives in the construction of canoes

See toon 3.

kalapia (kä-lä-pē'a), n. [Also calapia; a Philippine name; ef. Tagalog calap, the name of a tree.] A name in Mindanao of several trees of the family Sapotacex, especially of Payena Leerii and Palaquium Celebicum, which yield a milky latex from which gutta-pereha is made. See gutta-putih.

kalchoid (kal'koid), n. [An erroneous form for *chalcoid, < Gr. χαλκοειδής, like copper, < χαλκός, copper, + είδος, form.] An alloy of copper, zinc, and tin, intermediate between brass and brenze.

kale, n .- Thousand-headed kale or cabbage, a much-



Thousand-headed Kale. Much reduced.

branched and leafy form of cabbage with many subvarie-

ties, valued in Europe for feeding stock. kalekah (kä-lē'kä), n. [Skt. ka, the letter K, the first letter of the Sanskrit alphabet, + lekha, stroke, line, written document.] A name for

the Sanskrit alphabet.

kale-time (kāl'tīm), n. The hour for dinner.

[Scotch.]

Kaleyard school, a recent school of fiction which comprises works describing, with a sufficient use of dialect, the lives of the homely people of Scotland. The name alludes to the Scottish song, "There grows a bonnie brier-bush in our kailyard," from which John Watson ("Ian MacIaren") took the title of a series of short stories ("Beside the Bonnie Brier Bush"), in 1894.

kaleyarder (kāl'yār-der), n. One of the writers of the *kaleyard school (which see).

kalgoorlite (kal-gör'līt), n. [Kalgoorlie (see def.) + -ite².] A supposed telluride of gold,

has been questioned.

petassium: probably identical with *heintzite. kalios (kä'lē-ōs), n. [Also calios; a native name.] In the Philippine Islands, Streblus asper, a small tree of the nettle family, widely distributed in the eastern tropics. It has a milky lates, rough, alternate, oriaceous leaves (sometimes used in place of sandpaper for polishing), and small edible yellow fruit. In the Philippine Islands it is of no economic importance, but in Siam it is one of the principal paper-yielding trees. See Streblus and paper-tree, 4.

kallaite (kal' \bar{a} - $\bar{i}t$), n. [callai(s) + -ite².] Same as turquoise.

kallilite (kal'i-lît), n. [Gr. καλλι-, beautiful, + 22thoc, stone. A translation of G. Schönstein: see the definition.] A sulphebismuthid of niekel, NiBiS, which occurs in bluish-gray metallie masses at the Friedrich mine near Schönstein, Germany.

kalo (kä'lō), n. [Hawaiian kalo = Samoan talo = Maori taro = Fiji dalo, etc.] Samo as

kalog (kä'log), n. [Prob. native Alaskan.] A sculpin, Myoxocephalus polyacanthocephalus, of the North Pacific.

Kalosanthes (kal-ō-san'thēz), n. [NL. (Haworth, 1821), ζ Gr. καλός, beautiful, + ἀνθος, blessem.] A genus of dieotyledonous plants of the family Crassulaceæ. See Rochea.

kalotrope (kal'ō-trōp). n. [Gr. $\kappa a \lambda \delta \varsigma$, beautiful, $+ \tau \rho \delta \pi o \varsigma$, a turning.] A form of thaumatrope for the projection of various effects due to persistence of vision.

kalumban (kä-lum'bān), n. [Tagalog name.] Same as *balokanug.

kalumpang (kä-lum'päng), n. [Philippine Sp. calompang, calumpang, calumpan, < Tagalog
*calumpang = Bisaya calumpang.] In the Philippine Islands, Stereulia fortida, a tree with horizontal wherls of branches and digitate horizontal whorls of branenes and digitate leaves. It obtained its specific name from the disgnsting odor of its flowers. These are followed by scarlet pods, or follicles, usually radiating in flves from a common center and split open on one side so as to show the black seeds, which are very oily. They are sometimes eaten when green, and when ripe are roasted and eaten like chestnuts. The wood is soft and easily carved. It is sometimes used in construction, but is not durable. See stavevood, 2, and Stervulia. 1.

kalumpit (kä-lum-pēt'), n. [Also calumpit; 'hilippine Sp., from a native name.] In the Philippine Islands, Terminalia Bellerica, a tree belonging to the Combretaceæ, and yielding edible almend-like nuts. See belleric, ink-nut, and murobalan.

Kama (kä'mä), n. [Skt. Kāma.] In the Hindu Puranas, the god of love; in later Hindu writings, sensual desire.

kamachiles (kä-mä-chē'lās), n. [Mex. Sp. guamuchil, a name of the species in Mexico.] In Guam and the Philippines, Pithecolobium dulce, a Mexican tree introduced into those islands for the sake of its edible pods and ef its bark, which yields 25 per cent. of tanuin. Also camanchile. See *guamuchil.

kamagon (kä-mä-gōn'), n. [Also camagon, Bisaya camagang.] In the Philippines, Diospyros discolor, a valuable timber-tree the heart-wood of which resembles ebony in hardnear-wood of which resembles coopy in hard-ness and texture. It is found in the markets in the form of logs 9 feet and upward in length and 12 faches in diameter. The wood is hlack with yellow streaks, dense and brittle, taking a fine polish, and is highly prized for cabinet work. The tree has simple afternate leaves, small 5-parted flowers, and large hairy fruit, usually con-taining 8 oval compressed hard seeds.

kamalayka (kä-mä-lä'i-kä), n. A waterpreef shirt made of intestines of seal or walrus. [Arctie Alaska.] Jour. Amer. Folklore, Jan.-Mareh, 1903, p. 26.

kamalin (kam'a-lin), n. [Fermation not obvious.] A resinous substance found in the rhizome of the male fern; one of the active principles to which the vermifuge action of the raw product is supposedly due.

kamangsi (kä-mäng-sē'), n. [Philippine Sp. camansi, camangsi, \(\) Bisaya camansi.] A ferm of the breadfruit, Artocarpus communis, growof the breatrint, Artocarpus communs, growing in the Philippine Islands. It has lobed leaves two feet long and heads of fruit larger than a man's head, containing numerous edible, chestnut-like seeds. The tree yields a milky latex which is used medicinally as an application to nicers; also for economic purposes. From the fleshy, club-like male inflorescence sweetmeats and preserves are made.

silver, and mercury from Kalgeorlie, West kamanja (kä-män'jä), n. [Ar. kamanja.] A Australia. The homogeneity of the mineral rude viol common in Mohammedan countries.

thas a small body made of a halved cocoanut-shell covered with snake-skin, a long turned wooden neck with an ornamented head, a slender metal foot, and two or three strings. It is nsually rested on the ground and played from a sitting position. The kamanja and the rebab are sometimes confused, since one form of the latter resembles the former.

kamarezite (kam'a-re-zīt), n. [Kamareza in Greece, + -ite².] A hydrous copper sulphate allied to langite: found near Laurium, Greeee.

kamau (kä'mou), n. [Appar. Hawaiian.] Phwornis myadestina, one of the shrikes peculiar to the Sandwich Islands.

kamazite (kam'a-zīt), n. Same as kamacite

Kamchatka salmon-trout. salmon-trout.

**Kame moraine, terrace. See **moraine, **terrace. kamias (kä-mē-äs'), n. [Tagalog **kamias.] In the Philippine Islands, the bilimbi, **Averrhoa Bilimbi, a small tree belenging to formil harmonism telephone.

the sorrel family, having pinnately compound, sensitive leaves, clusters of crimson flowers, and pleasantly acid fruit, with the flavor of sorrel, which is eaten in the form of preserves. Also called kalamias. See bilimbi and Averrhoa.

kami-dana (kä"mē-dā'nā), n. [Jap. kami, god, + tana, shelf.] In Japan, in the Shinto cult, a 'shelf' of white unpainted and unvarnished wood attached to a wall as a sort of a household shrine. It contains several strips of paper, each inscribed with the name of a god, including one with the name of Amaterasu, the sun-goddess, the principal deity of the Shintoists. Among Buddhists the corresponding 'shelf' is called Butsu-dana or Buddha-shelf.

Next to the uji-gami comes the kami-dana or shrine in which are worshipped the Penates. Every Japanese, with the exception of the more bigoted members of the Euddhist sects called Nichiren-shiu and Ikkô-shin, possesses such a shrine in his house.

Trans. Asiatic Soc. Japan, 111. App. i., p. 92.

kamik (kä'mik), n. [Eskimo kumik.] Eskime boots of sealskin or caribou-skin reaching up to the knee or to near the hip.

Kamloops trout. See *trout¹.

kammatograph (kam' a-tē-grāf), n. [Irreg. formed from the name of the inventor L. Kamm + Gr. γράφειν, write.] In photog., a form of einematograph in which the negatives, numbering about 600, are taken on a revolving circular glass plate 12 inches in diameter. A transparent positive from this enables the eperator to project the pictures.

The photographs are taken at intervals, varying according to the rapidity of the movements of the plants during several days and sometimes weeks; they are then shown on the screen in the kammatograph, which is a kind of kinematograph, and thus the movements of many days can be followed in a few seconds.

**Lancet*, June 25, 1904, p. 1815*

kämmererite (kem'e-rer-ît), n. See penninite Kampecaris (kam-pek'a-ris), n. [NL., ζ Gr κάμπη, a caterpillar, + καρίς, a shrimp.] A genus of large myriapeds occurring in the Old Red Sandstone of Scotland. Their body-segments possess two dersal and two ventral plates, with two polices of least with two pairs of legs.

kampherol (kam'fe-rol), n. [G. kampher, kampfer, eamphor, +-ol.] A yellow coloring matter.

 $(\dot{H}\dot{O})_{2}C_{6}H_{2} < \begin{matrix} 5.1' \\ O.CC_{6}H_{4}O\dot{H} \\ & \parallel \\ COCOH \end{matrix},$

contained in Java indigo. It can be made synthetically, and is also called I, 3, 4'-trihydroxyflavonol.

kampilan, n. See *eampilan.

kamptoderm (kamp'tō-derm), n. [Gr. καμπτός, flexible, + δέρμα, skin.] Same as tentaeular sheath (which see, under tentaeular).

kamuning (kä-mö'ning), n. [Philippine Sp. camuning; given as a Tagaleg name.] In the Philippine Islands, Chalcas paniculata, a shrub or small tree belonging to the Rutaceæ, with eluctors of from the chalcas paniculata. with clusters of fragrant white flowers and odd pinnate leaves. Its wood is close-grained, hard, and of an ocher-yellow color, with undulating lines and gray streaks. It is very highly prized by the Moros, who use it for making handles for their krisses and bolos. See *Chalcas.

[D. kan, a ean, etc.: see can2, kan⁴ (kän), n. [D. kan, a ean, etc.: see can², n.] 1. In Helland, the name given to the

liquids.—2. In Java, a measure equal to 0.35 of a United States gallon.

K. A. N. An abbreviation of Knight of St. Alexander Nevski. [Russia.] maxwells or e. g. s. units.

kanāe (ka-nā'ē), n. [Maori kanae = Mangarevan kanae, name of a fish, Tahitian and Hawaiian anae, the mullet.] A fish, Mugil kap: see K, and *kaph2.] The Greek letter κ: represented in English by k, and sometimes by e. cephalus, of the family Mugilidæ, found in New Zealand waters: also, less frequently, Mugil perusii and Agnostoma forsteri.

kanaff (kän'āf), n. [Native name in Caucasus.]
See Dekhan ★hemp.
kanaut² (kā-nāt'), n. [Pers. kānāt, pl. of kān, a mine. a quarry (a tunnel).] The name applied to the Persian artificial subterranean channels formed by tunneling in water-bearing gravel or drift, for the purpose of intercepting and securing water for water-supply or irrigation.

It is on the gravel slopes that the principal trade routes run, and it is in them that are tunnelled the "kanauts" or "karezes," the artificial subterreanean channels from which the water-supply for towns and for irrigation is largely derived.

Nature, Aug. 28, 1902, p. 420.

kangaroo, n. 3. An early form of 'safety' bicycle which had a large wheel in front and a small one in the rear, the forks being con-uected by a curved backbone, as in the ordi-uary 'high' bicycle, but with the saddle back of the large wheel. It was propelled by treadles connected to cranks on the front axle by connecting rods. This allowed the weight of the rider to be kept always back of the center of the front wheel.

pl. In stock-exchange slang, West Aus-4. pt. In stock-exchange stang, west Ausbralian mining shares.—Antilopine kangaroo, a book-name of Macropus autilopinus, one of the larger kangaroos. Also known in books as the osphranter.—Dorea or Doreas kangaroo, any kangaroo of the genus Doreopsis, a group characterized by having the hair on the nape directed forward. They are of moderate size, have various anatomical peculiarities, and are found in New Guinea. See cut under Doreopsis.—Forest-kangaroo, the great kangaroo, Macropus major. Also known as forester.

kangaroo (kang-ga-rö'), v. [kangaroo, n.], 1. kangaroo (kang-ga-rö'), v. [kangaroo], 1. k

as jorester.

kangaroo (kang-ga-rö'), v. [kangaroo, n.] I.

intrans. 1. To leap as a kangaroo, either
literally or figuratively.—2. To hunt the
kangaroo. E. E. Morris, Austral English.

II. trans. To whip with a kangaroo-skin

whip-lash.

kangarooer (kang-ga-rö'er), n. One who hunts kangaroos.

hunts kangaroos.

kangaroo-fly (kang-ga-rö'fli), n. A name given in Australia to a small biting fly said to belong to the genus Cabarus.

kangaroo-grass, n. 2. Any one of several species of Australian grasses belonging to the

genus Themeda, especially T. triandra, a tall perennial grass, valued for fodder.

kangaroo-hop (kang-ga-rö'hop), n. An affected gait. [Australian slang.]

The young lady that affects waterfalls, the Grecian bend, or the kangaroo hop.

Spectator (Melbourne), May 22, 1875, quoted in E. E. [Morris, Austral English.

kangarooing (kang-ga-rö'ing), n. The chase of the kangaroo.

In chasing kangaroos, or, as it is technically termed, kangarooing, large powerful dogs are used.

Mrs. Meredith.

kangaroo-net (kang-ga-rö'net), n. A net made by Australian aborigines to catch the kan-garoo. E. E. Morris, Austral English.

Kan., Kans. Abbreviations of Kansas.

kannume (kä-nö'me), n. [Ar.] A fish, Mormyridæ, found in the Nile. It was an object of veneration to the ancient Egyptians.

Also called pirita.

Karelian (ka-rē'li-an), a. and n. [NL. *Ka-relian (G. Karalier, n. pl.), < Finn. Karjaläiset (karja, flock, herd).] I. a. Of or relating to

kanoon, n. See kanun.

Kansan (kau'zan), a. and n. I. a. 1. Of or pertaining to the State of Kansas.—2. In geol., noting an epoch or subdivision of the glacial period of which the deposits are found in Karsas. in Kansas.

II. n. A native or inhabitant of the State of Kansas.

Kantem, n. See *cantem.

kapa (kā' pā), n. [Hawaiian kapa,= Marquesan, etc., tapa.] 1. Same as tapa (which see).—2. In Hawaii, cloth of any kind; clothes generally.

erally. Kapelimeister music, music written according to rule, but without originality or genius. Kapenaar (kä-pe-när'), n. [Cape D., < kaap, cape.] In South Africa, among the Dutch, a white person dwelling in Capetown; in the Netherlands, a white person dwelling in Cape

English k or e. Its numerical value is XX. kapp (kap), n. [From Gisbert Kapp, a designer of electrical machines.] In elect., an obsolete

kapparah (ka-pä'rä), n.: pl. kapparoth (ka-pä'röt). [Heb. (Yiddish kappore), < kappar, forgive, cover over, atone. The phrase is kapparoth (Yiddish kappores) shlogen (G. schlagen, beat), lit. 'beating the atonement.'] A Jewish custom by which, on the eve of the Day of Atonement, a fowl (a cock for a man and a hen for a woman), after several passages from the Scriptures treating of atonement, confesthe Scriptures treating of atonement, contession, and prayer have been repeated, is moved around the head three times. The folowing declaration is then repeated: "This is my substitute, this is my commutation, this is my atonement. This eock goeth to death, but I shall be gathered in and walk into a long and happy life and into peace." The fowl is then killed. This custom is discarded by the reformed Jews, but is still in vogue among the strictly orthodox prophers of the symmetric. members of the synagogue.

kapta (kap'tä), n. [Lappish ?] A reindeer-skin worn by the Laplanders.

kapu (kä'pö), n. [Maori kapu, the hollow of the haud, a curved adz.] An adz used in New Zealand.

Karaitism (kā'rā-īt-izm), n. Same as Kara-

colorless glucoside contained in the kernels of karaka-tree berries. It forms pearly lus-

trous crystals, melting at 90° C.

trous crystals, meiting at 90° C. conjugation. Karyapsis comes between plas-karamu (kä-rä-mö'), n. [Maori.] Any one of several species of Australasian trees and shrubs belonging to the genus Coprosma, especially c. lucida. See orangcleaf, *coffec-bush, and the star-shaped cluster of chromosomes in the

Karatsu pottery. See *pottery. karbi (kär'bi), n. [Native Australian.] A small stingless bee, probably Melipona carbonaria, about $\frac{3}{5}$ of an inch in length, which builds its comb in the shape of a spiral staircase. It fights desperately with its mandibles $\frac{1}{5}$ that is a karyonitoplasm. (kar'i-ō karyonitoplasm. (kar'i-ō karyonitoplasm. (kar'i-ob a-sis), n. [NL., (Gr. kapvov, nut, nucleus, $\frac{1}{5}$ $\frac{1$ and is apparently of a very fierce disposition.

and is apparently of a very herce disposition. Cambridge Nat. Hist., VI. 63.

kareau (kä-rā-ou'), n. [Maori kareao, < kare, a whip-lash, + au, cord.] In New Zealand, Ripogonum scandens, a climbing shrub of the smilax family, the slender wiry stems of which form interwoven thickets in the forest. The long underground rootstocks of this plant have been used as sarsaparilla by the settlers, and the stems as cord and for weaving baskets.

the Karelians.

II. n. 1. One of the eastern divisions of the Baltic Finns.—2. The language of these eastern Finns.

Karian, a. and n. Same as Carian.

karimata (kä-ri-mä'tä), n. [Jap.] In old Japanese armor, a bifurcated arrow, some-times combined with an apparatus for giving the weapon a whistling sound in the air.

kariskis (kä-ris'kis), n. [A Philippine name, prob. < Tagalog and Bisaya caliskis, a scale, to scale off. The small leaflets fold together in an imbricating manner when asleep.] In mic nucleolus which serves as a temporary rethe Philippine Islands, the silk-tree, or pink siris, Albizzia Julibrissin, the bark of which is

Karoo beds. Same as Karoo series (which see,

liter when used as a measure of capacity for liquids.—2. In Java, a measure of capacity equal to 0.35 of a United States gallon.

kapp (kap), n. [From Gisbert Kapp, a designer beds of South Africa, believed to represent beds of South Africa, believed to represent the oldest known mammalian. The only species is K. browni.

karoro (kä'rō-rō), n. [Maori.] One of the smaller black-backed gulls, Larus antipodum, which occurs on the coast of New Zealand.

karri (kä'rē), n. [Aboriginal Australian.] ln Western Australia, a gigantic tree, Eucalyp-In Western Austrana, a gigantic tree, Eucalyptus diversicolor. It attains an average height of 200 feet, and several feet from the ground a diameter of 4 feet. The wood is red, hard, heavy, strong, tough and wavy in the grain, which makes it difficult to work, but it is much used for paving blocks, and the tall, straight trunks make good masts. See karri wood, under wood!

karst (kärst), n. [Cf. Lith. karsti, Lett. kārst, grow old: Pol. karslak, a stunted tree.] A region whose surface features are produced by the solvent action of water on limestone.

the solvent action of water on limestone. Also used attributively.

The author [Dr. Cvijic], who is well known for his useful monograph on the phenomena of the "Karst."

Geog. Jour. (R. G. S.), XIII. 427.

The character of the country around these parts of the lake [Prespa] resembles that of the Dalmatian islands, while the lake itself is of the nature of a "Karst" lake.

Geog. Jour. (R. G. S.), XV. 174.

A shirt of ders.

the hollow of used in New me as Kara
raka, = Manse of trees.]

must lævigata, ange-colored

A shirt of ders.

kartel (kär'tel), n. [Cape D., prob. < Pg. catel, catle, catre, little bed, said to be < Tamil kattil, a bedstead.] A wooden hammock used in an ox-wagon. [South Africa.]

karunda (kä-run'dä), n. [Hindi.] A low, spiny bush of the dogbane family, Arduina cately bush of the dogbane family, Arduina cately bush of the dogbane family. These are pale-green when young, white and pink when approaching maturity, and nearly black when ripe. The unripe fruit is astringent and is then only made into pickles, while when ripe it has a made into pickles, while when ripe it has a pleasant acid taste and is always eaten uncooked.

karyapsis (kar-i-ap'sis), n. [Gr. $\kappa \acute{a}\rho vor$, a nut, a nucleus, $+ d\psi (c)$, a joining.] The fusion of the nuclei of conjugating cells, viewed as marking a stage in the process of sexual conjugation. Karyapsis comes between plas-

C. lucida. See orangeleaf, *coject-ousla, and the star-snaped einster of chromosomes in the karyokinetic spindle: opposed to *cytaster. See *aster¹, 7, with cut.
 karamushi (kä″rä-mö′shi), n. [Jap.] Same as *amie.
 karanja (kä-rän′jä), n. [Bengali, ⟨Skt. ku-runja.] Same as *kurung.
 Karatsu pottery. See *pottery.
 Karatsu pottery. See *pottery.

cleus is as large as in ordinary nerve-cells or at any rate larger than that of a neuroglia cell. See *caryochrome.

In New Zealand, hing shrub of the iry stems of which the forest. The of the iry stems of which the forest. The of the splant have f this plant have f.

karyohyaloplasm (kar″i-ō-hi'a-lō-plazm), n. [Gr. κάρνον, nut, nucleus, + ὑάλος, glass, + πλάσμα, anything formed.] Same as *karyo-lymph or *karyenchyma.

karyolyma (kar-i-ō-lī'mā), n.; pl. karyolymata (-mā-tā). [NL, ζ Gr. κάρνον, nut, nucleus, + (appar.) λύμα, a pledge (a thing to be released), taken in sense of λύσς, loosening.] The karyokinetic or mitotic figure in cell-division. Auerbach, 1876.

karyolymph (kar'i-ō-limf), n. [Gr. κάρνον, nut, kernel, + L. lympha, water: see lymph.] The liquid contents of the cell-nucleus, as distinguished from the less liquid or more stable linin reticulum, chromosomes, and nucleoli. Also called karyenchyma.

pository for a chromosome in the eggs of some

sometimes used by the natives to produce a dark dye: the wood is used for furniture. See silk-tree and siris.

Karyo microsoma (kar"i-ō-mī-krō-sō'mā), n.; pl. karyo microsoma (cma-tā). [NL., Gr. κάριον, a nut, kernel, + μκρός, small, + σὄμα, body.]

Karoo beds. Same as Karoo series (which see,

Colony.

Karoo beds. Same as Karoo series (which see, which see, under karoo).

Karoo beds. Same as Karoo series (which see, which see the see that see the see that see that see the see that see

somes supposed to constitute the karyoplasm of the cell, as the cytomicrosomes are sup-

mucleus.

karyomitome (kar-i-om'i-tōm), n. [Gr. κάρεον, nut, nucleus, + μίτος, thread: see *mitome.] In cytol., the fibrillar net or reticulum
standard of measure.] A measure of length
which extends through the nucleus of the cell
which extends through the nucleus of the cell
used in northern Africa and in Arabia. In
which extends through the nucleus of the cell
used in northern Africa and in Arabia. In

Wathertogene (kathem-brion'ik), σ. [kuthembryonic (ka-them-brion'ik), σ

*karyomitomé.

Karyomitoplasm (kar "i-ō-mī'tō-plazm), n. Gr. κάρνον, nut, nncleus, + μίτος, thread, + πλάσμα, anything formed.] In cytol., the substance of which the karyomitome, or nuclear reticulum, consists: opposed to *karyolymph or *karyenchyma.

karyomitotic (kar"i-ō-mī-tot'ik), a. Of or per-

karyon(kar'i-on), n. [NL, also*caryon(caryo-), katacrotic, a. Same as catacrotic. katadicrotic (kat-a-dī-krot'ik), a. Same as catacrotic cell-nucleus.] The cell-nucleus cell-nucleus.

karyophan (kar'i-ō-fan), n. One of the nucleus-like granules in the microsomes of the strand of contractile substance in the stalk of Vorticella and other related infusorians.

karyoplasmic (kar"i-ō-plaz'mik), a. Of or pertaining to the karyoplasm, or nuclear plasm of the cell

karyorhexis, karyorrhexis, n. See *caryorrhexis.

karyosoma (kar"i-ō-sō'mä), n.; pl. karyosomatu (-ma-tä). [NL.] Same as *karyosome (kar'i-ō-sōm), n. [NL. karyosoma, ζ Gr. κάρνον, nut, nucleus, + σ̄ωμα, body.] 1. A nucleolus-like mass of chromatin in the cellnucleus: distinguished from the plasmosome, or true nucleolus. -2. A chromosome. -3. A micronucleus of the Infusoria.

karyostenosis (kar"i-ō-stō-nō'sis), n. [NL., ζ Gr. κάρνον, nnt, nucleus, + στένωσις, narrowing: see stenosis.] Amitosis, akinesis, or direct cell-division, as distinguished from mitosis or karyokinesis: so called because the nucleus divides by simple constriction without forming a spindle. See *amitosis, with cut.

karyostenotic (kar'i-ō-stē-not'ik), a. Of or pertaining to karyostenosis, or amitotic celldivision.

karyota (kar-i-ō'tā), n. pl. [Gr. καρνωτός, having nuts (as a tree or a cup), ζκάρυον, a nut, nucleus.] A general term for nucleated cells, as opposed to akaryota, or non-nucleated cells. Flemming, 1882.

karyotheca (kar"i-ō-thē'kä), n. See *caryo-

kaseelee (ka-sē'lē), n. [E. Indian.] The blackbellied darter, or snake-bird, Plotus melano-guster, found on the coast of southern Asia and also in the Philippino Islands.

kaselle (ka-sel'), n. [NGr. κασίλλα, a box, case, trunk, compartment, < It. casella, a small room, closet, compartment, dim. of casa, a house: see casemate and casula.] A compartment or cell beneath the floor: used in reference to stone receptacles or cists which were found in the Minoau palace at Cnosus in Crete and probably were used for treasure. Nature, Aug. 21, 1902, p. 392.

kashern (kä'shern), v. t. [Yiddish kashern, koshern, with G. inf. ending, < Heb. kashar. Compare kosher.] To make fit or clean according to the precepts of the rabbis. For example, to prepare meat and cleanse it from blood, blood being strictly forbidden to the Jew (Lev. xix. 26 et passim). To kashern utensile, tables, etc., before Passover festival is to scrub and wash them with boiling water if they have been used during the year with hamets or leavened food. Also koshern.

Kashmiri (kash-mē'ri), n. [Hind. and Kash-mir Kashmiri, from Kashmir, Kashmir, Cash-mere.] The principal Indian (Aryan) dialect spoken in Kashmir.

[Aram. Heb. kasha, kashya (käsh'yä), n. hard, difficult, severe, etc.] A word which occurs frequently in the Talmud, when a point under discussion cannot be solved, or when there is an objection to a proposition. The word in modern Jewish usage signifies Thus the four questions a child asks his father at the seder service on Passover eve are called kashuas.

body.] One of the minute granules or micro- kasidah (ka-sē'dā), n. [Pers. Ar. qasidah, an ode.] A form of Persian poetry composed in distichs. Burton.

of the cell, as the eytomicrosomes are supposed to make up the cytoplasm.

Karyomite (kar'i-ō-mīt), n. [Gr. κάρνον, nut, mucleus, + μίτος, thread.] One of the threads which constitute the reticulum of the cellnucleus.

Kaskaskia group. See *group!.

karyomiton (kar-i-om'i-ton), n. [Gr. $\kappa\acute{a}\rho vov$, kasube (kä'sū-bā), n. A ray or skate, Raja nut, nucleus, + $\mu\acute{a}\tau \circ \varsigma$, thread.] Same as kcnojei, of the family Rajidæ, common in Japan. kat2 (kät), n. [Ar. khat.] Same as kuftu. See Catha.

kata-. The increased use of this spelling, instead of cata-, in scientific terms is due in great part to the mechanical copying of German forms. Uniformity requires cata- in the English forms.

Waters and on ooth coasts of America.

Kathetostomatinæ (kath-e-tos"tō-ma-tī'nē), $n.\ pl.\ [NL... < Kathetostoma(t-) + -inæ.]$ A sub-family of uranoscopid fishes.

katabolite (ka-tab'ō-līt), n. [Better catabolite, ⟨ catabol-ic + -ite2. 1 A resultant of catabolic

kataforite, n. See *cataphorite. katalase (kat'a-lās), n. [katal(ysis), catal(ysis), + -ase.] An intracellular oxidizing ferment.
-Blood katalase. Same as *hemase.
katamorphism (kat-a-môr'fizm), n. [Gr. κατά,

down, + μορφή, form, + -ism.] In geot., any change in the texture of rocks produced by fracturing and granulation, with recrystallization, whereby rocks become finer-grained and foliated, as the production of gneisses and schists from the production of gnelsses and schists from gramites. Chambertin and Salisbury, 1904. According to Van Uise, katamorphism is that phase of metamorphism in which simpler compounds result from the alteration of more complex ones. He includes under such changes weathering and cementation, accompanying oxidation, hydration, and carbonation, chiefly of silicate anamorphism.—Zone of katamorphism, the outer zone in the solid earth "in which the alterations of rocks result in the production of simple compounds from more complex ones. It is subdivided into an outer belt of weathering and an inner belt of cementation." Yan Hise, U. S. Geol. Surv. Monographs, XLVII. 43.

katana (kä'tä-nä), n. [Jap.] A Japanese sword which, in its modern form, has a single edge and is slightly curved toward the point.

kataphoresis, n. Same as *cataphoria. kataphoria, n. Same as *cataphoria. kataphorite, n. Same as *cataphoria. kataphorite, n. Same as *cataphorite. kataplexy, n. Same as eataphory.

katapositive (kat-a-poz'i-tiv), n. [kata-+ positive.] In photog., a positive on an opaque base, in contradistinction to a transparency or diapositive. Wall, Diet. of Photog., p. 424. katatonic (kat-a-ton'ik), a. Pertaining to or

affected with katatonia; profoundly melan-cholic. G. S. Hull, Adolescence, I. 301.

katatrepsis (kat-a-trep'sis), n. [NL., \langle Gr. $\kappa a \tau \dot{a}$, down, $+ \tau \rho \dot{\epsilon} \psi c$, $\langle \tau \rho \dot{\epsilon} \pi \epsilon \nu$, turn.] The movement of certain insect embryos which brings them to the ventral surface of the yolk after they have left this to develop for a time within the yolk or on its dorsal surface. Wheeler, 1893.

katatype, n. Same as *catatype.

katcina (kä-chē'nä), n. [An official spelling, in the method used by the Bureau of American Ethnology, of what would be more properly *katchina or *katshina; a Hopi (Moki) word.] 1. Among the Hopi, a supernatural being regarded as a clan ancestor, and impersonated in certain ceremonials by masked men wearing totemic designs characteristic of the clan.

Inasmuch as these tihus represent Katcinas and as these Katcinas play a very important part in the religious life of the Hopi the importance of a collection of this magnitude, carefully arranged and labelled, can not he overestimated. Even more difficult than these tihus to obtain are the masks which are worn by the Hopi as they personate deities in the Katcina dances.

Science, Feb. 8, 1901, p. 222.

2. A masked man who impersonates the clan ancestor .- 3. A figure or image made in imitation of one of the masked impersonators.

kath (kath), n. [Hindi katha.] In northern India, a gray, crystalline substance prepared from a concentrated decoction of the wood of Acacia Catechu, by placing in it a few twigs and allowing the decoction to cool. The and anowing the decection to cool. The states twigs are removed and the crystalline sub- **katzev** (kat'zef), n. [Yiddish.] A butcher, stance collected. It is a refined form of See *shohet. stance collected. It is a refined form of eatechu, consisting of almost pure catechin, kau-karo (kou-kä'rō), n. [Fijian kau, tree, and is eaten by the natives in their pan, im- + kuro, itch.] See *itchwood-trec.

parting with the lime the red color to the teeth and lips. Compare eatechu, *khirsal, and pan5.

kathembryo (ka-them 'bri-ō), n. [Gr. κατά, down, + εμβρουν, embryo.] A stage in the embryonic polyzoan characterized by a complicated degenerative metamorphosis and leading from the typenoty to the phylembryo

Kathetostoma (kath-e-tos'tō-mā), n. [NL., ζ Gr. κάθετος, lit. down, perpendicular, + στόμα, mouth.] A genus of fishes belonging to the family Uranoscopidæ, found in Australian waters and on both coasts of America.

n. pl. [NL., $\langle Kathetostoma(t) + -inw.$] sub-family of uranoscopid fishes.

kathodic, a. 2. Same as *cuthodic, 2.

kati (kä'tē), n. [Malay kātī.] Same as catty.

katipunan (kä-ti-pö-nän'), n. [Also catipunan. Tagalog entipunan, catiponan.] Among the Filipinos, a secret society: sometimes one formed for a political purpose.

A scoret organization known as the Katipunan was therefore started to secure reforms by force of arms. Each member enrolled was bound by the ancient "blood compact."

Encyc. Brit., XXXI. 669.

katmon (kät-mön'), n. [Also eatmon; \ Sisaya catmon.] A handsome evergreen tree, Dillenia Philippensis, with large, coriaceous, sharply serrate leaves, and fine large flowers composed of an imbricating calyx, five white petals, and numerous yellow stamens arranged masses. The carpels cohere at the axis and are inclosed when ripe by the enlarged and thickened sepals which overlap, forming a large globose fruit. This is pleasantly acid and is used by the natives for seasoning in place of lemons or vinegar. The wood is used for cabinet-work.

katoikogenic (kat"oi-kō-jen'ik), a. [Gr. κατά, down. + oixoc, house, + -yevyc, -producing.] Of or pertaining to eggs which have little foodyolk and complete their development in the follicle in which they were formed. [Rare.]

There are two types of development among scorpions which Laurie describes as apoikogenic and katoikogenic.

Natural Science, Oct., 1896, p. 232.

katun (kä-tön'), n. [Maya.] In the ancient calendar of the Maya Indians, a period of

twenty years.

Moreover, in A 3 we find the Katun sign with the number 1, which may be a declaration that the date is in a first Katun or beginning Katun, for 1 see no reason why the beginning Cycle, Katun, Tun, Uinal, and Kin should not have been called the first.

G. B. Gordon, in Amer. Anthropologist, Jan.—March, 1902, [p. 135.

(käkaturai tö'rī), n. [Also caturai, katu-dai; a Philippine name.] In Guam and the Philippine Islands, Aguti grandiflora, a small tree of the bean family, of East Indian origin, having pinnate leaves, large papilionaceous flowers, and long, slender, sickle-shaped pods. The flowers, tender young leaves, and green pods are eaten as pot-herbs and salad, but are lax-ative if partaken of too freely. The leaves are used for



Katurai (Agati grandiflora). One third natural size.

forage, and in India the astringent bark is used as a remedy in smallpox and other eruptive fevers. See pea-tree, 2.

katydid, n. 2. Same as *logging-wheels.—Cranberry katydid, an American locustid, Scudderia texensis, especially abundant in the cranberry-bogs of New Jersey, where it eats into the berries and devours the seed

Kaulfussia (koul-fös'i-ä), n. Lsenbeck, 1820), named in honor of G. F. Kaulfuss (died 1830), a German botanist.] 1. An untenable name for Charicis, a genus of kedlock (kedlok), n. 1. The charlock, Brasplants of the family Asterucew.—2. [h. c.] A sica arvensis.—2. The white mustard, Sinapis hardy annual. Charieis heterophylla, eonsider-albut, ably grown in flower-gardens for its many keek, n. 2. One who keeks or peeks; in the blue, red, or purple heads. It is native to South Africa. In catalogues the plant is known as *Kaulfussia* amelloides, with Latiu-named varieties.

kaulosterin (kå-los'te-rin), n. [Gr. καυλός, stalk, + E. (chole)sterin.] A variety of cholesterin found in plants.
 Kaunitz (kou'nits), n. 'The bureau à cylindre,'

or roll-top desk, supposed to have been invented by Prince Wenzel Anton you Kaunitz, minister of Maria Theresa to France about 1750, and frequently called by his name.

kauon (kä'ö-ön), n. [Bisaya eaong.] In the Philippine Islands, the sago-palm, Saguerus pinnatus, which yields toddy and a fiber. Also called pugahan. See arcng (with cut), ejoo, gomuti, 1, and *cabo-negro.

kavain (kä'vä-in), n. [In G. spellings kawain, kawahin; ⟨ kava + -in².] A colorless com-

$\operatorname{CH}_2 \langle \overset{\circ}{O} \rangle \operatorname{C}_6 \operatorname{H}_3 \overset{1}{\operatorname{CH}} : \operatorname{CHCOCH}_2 \operatorname{COOCH}_3,$

contained in kava root, Piper methysticum. It erystallizes in small, silky needles and melts at 137° C. Also called methysticin or methyl methysticinate.

kava-ring (kä'vä-ring), n. A eeremonial feast at which kava is drunk.

at which kawa is drunk.

kawaka (kä'wä-kä), n. [Maori.] The New
Zealand or eypress-eedar, Liboccdrus Doniana.

See New Zealand ★cedar.

kawamutsu (kä-wä-möt'su), n. [Jap. kawamutsz, ⟨ kawa, river, + mutsz, name of a fish.]

A shiner or minnow, Zacco temmincki, of the
funily (wariida, found in the weters of family Cyprinidæ, found in the waters of Japan.

kawata (kä-wä'tä), n. [Jap., < ka, plant, + wata, lint, = lint-plant.] The cotton-plant. kawauke, n. See *wauke.

kawika (kä-we kä), n. [Fijian.] The native name for the Malay apple, Caryophyllus Malac-censis. See *ahia and Malay apple, under Mulay.

kayak (ka'yak), v. i. [kayak, n.] To hunt or travel in a kayak.

Eskimo kayaking near Amadjuak Bay, Baffinland, Geog. Jour. (R. G. S.), XVIII. 42,

kaziasker (kä-zē-äs'kèr), n. [Turk. qāzī-'asker, lit. 'judge of the army': qāzī, judge (see kadī), +'asker, army (see lascur).] One of the two chief officers of the Turkish ulema who have

equal jurisdiction, one in Europe, one in Asia.

K. B. An abbreviation (c) of Knight Bachelor.

K. B. E. An abbreviation of Knight of the Black Eagle (Prussia).

K. C. An abbreviation (a) of King's College; (b) of King's Counsel; (c) of Knight of the Crescent

K. C. H. An abbreviation of Knight Com-

mander of (the Order of) Hanover.

K. C. I. E. An abbreviation of Knight Commander of (the Order of) the Indian Empire.

K. C. M. G. An abbreviation of Knight Commander of St. Michael and St. George (Ionian Laboration)

Islands).

Islands).
K. C. S. An abbreviation of Knight of Charles III. of Spain.
K. C. S. I. An abbreviation of Knight Commander of (the Order of) the Star of India,
K. C. T. An abbreviation of kathodal elosure tonic. Danglison,
K. C. V. O. An abbreviation of Knight Commander of the (Royal) Victorian Order.
K. D. An abbreviation of Knight of the Danne.

K. D. An abbreviation of Knight of the Danne-brog (Denmark). K. D. G. An abbreviation of King's Dragoon

K. D. T. An abbreviation of kathodal duration tetanus.

K. E. An abbreviation (a) of Knight of the Eagle (Prussia); (b) of Knight of the Elephant (Denmark).

Keb. An abbreviation of Keble College, Oxford.

kebob, v. t. Same as cabob.

ked² (ked), n. [A variant of eade¹.] A sheep-tick, Melophagus orinus; a sheep-louse.

keddah (ked'ä), n. Same as *kheda.

[NL. (Nees von kedjeree, n. 3. Cold flaked fish treated and built with a keel, as distinguished from a honor of G. F. served with a sauce, and rice cooked in center-board boat. highly seasoned stock.

clothing trade, one who spies out the newest keel-piece (kēl'pēs), n. One of the timbers designs from rival dealers and reports them or sections which compose the keel of a boat. to his employer.

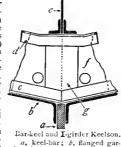
keekwilee-house (kēk'wi-lē-hous"), n. nook jargon, keekwilee, keekwillie, low, below, < Chinook proper gegwalih, below.] An underground house of the Indians of the interior of British Columbia and of Washington. Rep. Brit. Ass'n Advancement of Sci., 1900, p. 485.

Brit. Ass'n Advancement of Sci., 1900, p. 485.

keel¹, n. 2. In iron ship-building, owing to the facility with which the plates and bars can be combined in a variety of shapes, the forms of keels are very numerous. There are two principal classes, the bar-keel (also called hanging keel), which projects below the hottom, and the flat-plate keel, which forms part of the bottom surface. The ordinary bar-keel is formed of lengths of heavy iron or steel bars scarfed together at the ends. The garboard-plates are flanged down against the sides of the keel-bar and the whole is riveted together. See cut.)

The side-bar keel consists of a central vertical keel-plate extending up to the

of a central vertical keel-plate extending up to the top of the frame-floors, which are secured to the keel-plate by short anglebars on each side. Below the bottom of the frame, on each side of the vertical keel, are heavy iron sidebars, and flanged down against them are the garboard-plates as in the ordinary single bar-keel. In modern war-ships and large merchant steamers the flat-plate keel is used almost exclusively. (See



a, keel-bar; b, flanged gar-boardplate; c, frame-bar; d, reverse frame-bar; c, keelson composed of a vertical plate with double angle-bars at top and bottom; f, floor-plate; g, butt-strap uniting floor-plates.

the nat-plate keel is used butt-strap uniting floor-plates, almost exclusively. (See cut.) The keel consists of an outer flat keel-plate, an inner flat keel-plate, a vertical keel-plate, upper keel angle-bars, uniting the vertical keel to the flat keelson-plate, and lower keel angle-bars, uniting the vertical keel to the flat keel plates.

tical keel to the flat keel-plates. The vertical keel-plate in war-ships is fre-quently lightened with large holes. In medium-sized merchant vessels there is but a single flat, keel-plate inflat keel-plate in-stead of an inner and outer plate, but the general construction is

construction is otherwise the same. In some ships there is a comparatively narrow flat plate attached to the outside of the flat week plate collect

Keel of a Large War-ship with a Double
Bottom and Center-line Bulkhead.

a. outer flat keel-plate; b. inner flat keel-plate; c., vertical keel-plate; d., flat keelson-plate; c., garboard-plate; b., inner-bar; b., upper keel angle-bars; b., inner-bar; b., in the flat side horizontal, stiffener of center-line bulkhead; n., bracket floor-plate; d., center-line bulkhead; n., bracket plate on stiffener; o. lower angle-bars on center-line bulkhead; n., bracket plate on stiffener; o. lower angle-bars on center-line bulkhead; n., bracket plate on stiffener; o. lower angle-bars on center-line bulkhead; plate; m., stiffener of center-line bulkhead; n., bracket plate on stiffener; o. lower angle-bars on center-line bulkhead; plate; m., stiffener of center-line bulkhead; n. bracket plate on stiffener; o. lower angle-bars on center-line bulkhead; n. bracket plate on stiffener; o. lower angle-bars on center-line bulkhead; n. bracket plate on stiffener; o. lower angle-bars other types of keel were used. See *box-keel. A dish-keel is one in which the horizontal keel-plate has a U- or trough-shaped cross-section. A bilge-keel may be made of a projecting bulb-plate secured to the outside plating by angle-bars, the interior of the V-shaped cross-section formed of plates riveted together at their outer edges and secured at their inner edges to the outside plating by angle-bars, the interior of the V-shaped space heing filled with wood. See also *doeking-keel.

8. In arch., the projecting arris of an edge-molding - I-

8. In arch., the projecting arris of edge-molding.—Inner keel, in iron ship-building, same as flat-plate keelson (which see, under *keelson, 2). keel-band (kel'band), n. A strip of iron, used principally on rowboats, which extends from the top of the stem to a short distance back on the keel, to prevent the stem from chafing and to give additional strength.

keel-bill (kēl'bil), n. The large West Indian ani, Crotophaga ani, one of a peculiar group of cuckoos having a very high, sharp-edged of preparing fine ore-slime in a keeve. bill. See ani.

keel-boat (kel'bot), n. 1. A cargo-lighter built with a keel and decked over; a flatbettomed freight-vessel with no power of propulsion.—2. Same as keel, 6.—3. Any boat

keel-line (kēl'līn), n. 1. The line of a vessel's keel.—2. The lacing which secures a bonnet

to the foot of a sail.

keelman, n. 2. The skipper of a keel-boat or
barge used around Newcastle, England.

keel-plate (kēl'plāt), n. See *keel, 2.

[Chi- keel-rabbet (kēl'rab"et), n. A groove cut in low, < each side of the keel of a vessel for the purpose of receiving the edges of the garboardstrakes, or lowest lines of planking.

keel-riveter (kel'riv"e-ter), n. A hydranlic or pneumatic machine for riveting together the various parts of an iron or steel keel.

keel-rope (kel'rop), n. A rope or small chain rove through the limber-holes to clear the latter of dirt, being pulled back and forth, and thus to allow the bilge-water to circulate along the keel.

keelson, n. 2. In iron ship-building, a longitudinal reinforcement of plates and bars in the interior of the vessel above the framing the interior of the vessel above the framing in the bottom. The center-line keelson, or center-keelson, is immediately over the keel, and is frequently built in combination with it. The simplest form is a girder entirely on top of the frames riveted to the reverse bars. The girder is formed of various combinations of plates, bull-plates, and angle-bars. A box-keelson is one in which the plates and angle-bars are combined in a form of rectangular cross-section. A flat-plate keelson is formed by a flat plate laid on top of the frames and riveted to them and to the vertical keel-plate. There may be additional reinforcements of bars above the flat-plate keelson, or there may be a center-line bulkhead above it. (See cut at *keel1, 2.) An intercostal keelson is one built up of a series of intercostal plates between the frames, the npper edges of which project above the reverse frame-bar and are riveted to a line of continuous plates and bars above the frame. A side-keelson is one in the bottom on either side hetween the center-line and the turn of the bilge. A bilge-keelson is one just below the turn of the bilge near the heads of the floors.— Middle-line keel-aon, the longitudinal girder in the bottom of a vessel, fitted in the line of the keel.

keelson-capping (kel'son-kap"ing), n. The timber bolted on top of the main keelson: generally referred to as a rider.

keel-staple (kēl'stā"pl), n. A large staple used to fasten the false to the main keel. keen¹, a. II. n. The angle to which the wire tooth of eard-clothing is bent between the foundation material and the point.

foundation material and the point.

keep, v. I. trans. 22. In printing, to save (composed type) from distribution; also, to follow rigidly the capitals or other peculiarities of (manuscript copy).—To keep away (naut.), to put the helm up; to alter the course of (the ship) so as to avoid another vessel or some danger.—To keep cases, in faro, to keep account of the cards as they come from the dealing-box, so that it shall be known when any card is a case. When this record is kept on a sheet of paper it is called 'keeping tab on the game.' See *case2, 19, and faro.—To keep her own, said of a vessel when her speed sagainst a current is equal to the velocity of the stream; to maintain position.—To keep her own way, to maintain her way through the water after her propelling force, of either sail or steam, has been withdrawn; said of a ship.—To keep in. (d) in printing, to space (words) thinly, so as to keep the sea, to hold mastery over the sea; to control the navigation of the sea.

II. intrans. 6. In crickel, to act as stumper or wicket-keeper. [Colloq.]—To keep off, to direct a vessel's head more away from the wind.

keep, n. 10. In mech.: (a) A cover to protect a part of a machine from injury. (b) A chock; a stop; a block to prevent a piece from moving. (c) On a locomotive, a part of the axlebearing which is fitted below the journal of

(c) On a locomotive, a part of the axlebearing which is fitted below the journal of the axle and serves to hold an oiled pad against it to furnish constant lubrication.

*keeper, n. 6. (k) A keep; a cover; a protector. See

*keep, 10 (a). (l) A pawl; a stop; a catch.

7. In crickel, a wicket-keeper or stumper.

7. In cricket, a wicket-keeper or stumper. [Colloq.]—Reeper of the exchange and mint. Same as master of the mint (which see, under mint!). keep-ring (kep'ring), n. A ring for holding something in place; specifically, a ring which serves to keep a locomotive- or ear-journal from getting out of the box, and also holds an cil red excitent the journal oil-pad against the journal.

keer-drag (ker'drag), n. A drag-net in which the meshes of the bag are very small: used for

Keewatin (kē-wā'tin), n. A name proposed in 1886 by A. C. Lawson for a series of pre-Cambrian schists near the Lake of the Woods, Ontario. An. Rep. 6 Canada, 1885, I. 5cc. An. Rep. Geol. and Nat. Hist. Surv.

kef (kāf), n. [Ar. kef, a variant pronuncia-tion of kaif (kāf).] Same as kaif. kemngeh (ke-män'ge), n. Sec *kamanja. kef (kāf), n.

kefir (kef'èr), n. [Also kefyr, kephir; of Caucasian origin.] An effervescent drink prepared from the fermented milk of cows: used by the natives of the northern Caucasus region, and now extensively used elsewhere as per cent. of free lactic acid and from 1 to 3 per cent. of alcohol. The original ferment per cent. Or alcohol.

Small pebble-like or seed-like masses, occurring in the Cancasus region, . . . used for the fermentation of milk into a substance called kefir, the equivalent of konnyss.

Buck, Med. Handbook, V. 302.

Buck, Med. Handbook, V. 302.

Kefir grains or granules, the name, in the dried state, of a fungus-like growth found on the branches of bushes below the snow-line in the Cancasus, used as the original ferment in making kumiss. It is a mixture of several micro-organisms — a kind of yeast capable of producing alcoholic fermentation, a bacterium producing laetic acid fermentation, and another body which acts on casein so as to render it imperfectly coagulable. When dried the whole mass forms yellowish grains about as large as peas: these are soaked in water before adding them to the milk to be fermented.—Water kefir, kefir made from water and sugar instead of milk: a popular hygienic tonic and appetizing drink for soldiers. The kefir is not a good germ enlurre medium, and is therefore more healthful than the water from which it is made. The formula is two liters of water to one liter of kefir grains and lifty grams of brown sugar. It is stirred in an open pitcher, and after three days stirred again and bottled, the corks being fastened as in champagne bottles. After being bottled for three days it is drinkable. The kefir grains can be used again and acain, and if well dried can be put a way to keep for months. Army and Navy Jour., May 6, 1899, p. 850.

keg-lard (keg'lärd), n. Lard put up in kegs

to keep for months. Army and Navy Jour., May 6, 1899, 859.

keg-lard (keg'lard), n. Lard put np in kegs for sale: usually understood, in a commercial sense, to be a more fusible material than bladder-lard and of an inferior quality.

See heard the two of the Kennebunk and other rivers). A variant form, Kennebecker, assumes an origin in the Kennebecker, described in the right of the Kennebunk and other rivers). A variant form, Kennebecker, assumes an origin in the Kennebecker, assumes assumes an origin in the Kennebecker, keg-lard (keg'lärd), n. Lard put np in kegs *bladder-lard, 2.

keg-spring (keg'spring), n. A wire spring so coiled as to be full in the center like a

kehoeite (ke'hō-īt), n. [Named (1893) after Mr. Henry Kehoe, who first observed it.] A Mr. Henry Kehoe, who first observed it.] A hydrous phosphate of aluminium and zine found in South Dakota. It occurs in white, massive, amorphous forms with galena.

kelene (kë'lën), n. [Formation not evident.] Pure methyl chlorid, CH₃Cl, used as an anesthetic in place of ether and chloroform: a trade-name. kelep (kel'ep), n. [Guatemalan Indian.] A

carnivorous ant, Ectatomma tuberculatum, which preys on the cetton-boll weevil and other insects and which has been imported into Texas.

kelleg (kel' eg), n. Same as killock, 2. R. Kipling, Captains Conrageous, iii. [New

Kelep (Ectatomma tuberculatum).
About twice natural size.

kellup-weed (kel'up-wed), n. The oxeye-

kellup-weed (kel'up-wēd), n. The oxeyedaisy, Chrysanthenum Leucanthemum.

kelp², n. 2. The ash left from the burning of seaweed, which up to the close of the eighteenth century formed the chief source of supply of carbonate of soda in western Europe, is now valuable almost solely as a source of iodine. The word 'kelp'applies to this material as prepared on the Atlantic coast of Scotland and Ireland. Fare is the same from the Spanish coast.

keln-orgh (keln'krah) ** A spiden same

kelp-crab (kelp'krab), n. Epialtus productus, found along the coast of California.

kelper (kel'per), n. Same as kelpic.

kelp-fish, n. 3. A name applied to a number of other, unrelated fishes living among the kelp, as rock-fish is applied to those living in rocky places. In Australasia: (a) The butter fish, Coridodax pullus, of the family Labridæ. (b) The ground-mullet, Odax baleatus, of the family Labridæ. (c) Chironemus marmoratus, of the family Cirrhiidæ. (d) The spotty, Pseudolabrus bothryocosmus.

kelp-hen (kelp'hen), n. The weka rail, Ocydromus troglodytes, of New Zealand: named from frequenting the sea beach in search of food. See Ocydromus, 1.

kelp-shore (kelp'shor), n. Same as shore¹, 2. kelpware (kelp'wār), n. The bladder-wrack or black tang, Fucus vesiculosus.

Keltologist, etc. See *Celtologist, etc. kelvin (kel'vin), n. A name proposed, in honor of Lord Kelvin, for the kilowatt-hour which is the British Board of Trade unit of work. Kelvin's law. See *law1.

kemp², n.—Flat kemp, a wool-fiber that is partly kemp, kempy (kem'pi), a. [kemp² + y¹.] Having a solid, non-cellular structure, as some fibers of wool or cotton. Hannan, Textile Fibres of Commerce, p. 87.

ken¹, v. i.—To ken to the terce, in Scots law, to assign dower to a widow; to ax the precise lands to which a widow was entitled, consisting of the terce or third of the husband's estate.

kena (kā'nā). n. [Also quena; Aymará and Quichua of Bolivia and Peru.] A small flute of reed or cane, blown from the end: a common musical instrument of the Indians.

Kendal cotton. See ★catton1.

Kendal green (ken'dal-grēn'). A green dye obtained by mixing woad with the yellow dye obtained from the flowers of the dyer's-broom, Genista tinetoria.

kendir (ken'dêr), n. [Kirghiz name in Turkestan.] A plant of the dogbane family, Apocynum renetum, which yields a strong fiber, used by the natives of Turkestan for fishinglines, rope, and twine.

kennebecker (ken-e-bek'er), n. [Kennebec(k) + -er. See *kennebunker.] Same as *kenne-

kennebunker (ken-e-bungk'er), n. A valise for clothes which Maine lumbermen take with them into the wood ('up the Kennebunk' and

kennel-book (ken'el-bùk), n. A publication in which is given the pedigree and record of dogs. Compare herd-book and stud-book.

kenner (ken'er), n. One who knows or kens. kennet (ken'et), n. One who knows or kens. kennet³ (ken'et), n. [Late ME. kannette; prob. < OF. *eanette, *kenette, in central OF. chenette, dim., < L. canus, gray.] An old fabric of coarse texture; a kind of gray cloth. kennick (ken'ik) ** [Giyen se Giyenterre]

massive, amorphous forms with galena.

keir-house (kēr'hous), n. The house or building in which the keirs are located.

kelene (kē'lēn), n. [Formation not evident.]

kennig³ (ken'ius), n. [Iccl. keuning, a distinctive protical proposition of Gipsy tinkers. C. G. Leland.

kennig³ (ken'ius), n. [Iccl. keuning, a distinctive protical proposition of Gipsy tinkers. C. G. Leland. tinctive poetical name; also a mark of recognition, a doctrine, a teaching, \(\langle \text{kenna}, \) know, recognize, call, name: see \(ken1, \text{v}, \) and \(kenning1. \)] In Old Norse, Anglo-Saxon, and other old Teutonic poetry, a distinctive poetical name, usually periphrastic in form, used in addition to, or substituted for, the usual name of a thing or person. Such terms form a usual name of a thing or person. Such terms form a usual ornament of Anglo-Saxon verse, as in 'Beowulf,' 'Exodus,' etc. Examples are 'whale-road,' and 'gannet's bath' for 'the sea,' 'ward of the bone-house' (that is 'keeper of the breast'), for 'heart' or 'mind.'

kenning-glass (ken'ing-glas), n. An old name for a spy-glass.

kenogenic (ken-ō-jen'ik), a. [Also cenogenic; congenic (ken-o-jen'ik), a. [Also eenogenic; kerato-iridocyclitis (ker"a-tō-ir"i-dō-si-klī'- ζ Gr. καινός, recent, + -γενης, -producing.] Of tis), n. Same as *cerato-iridocyclitis. tory of an organism, as distinguished from its tory of an organism, as distinguished from its

past or ancestral history; kenogenetic. [Rare.]

- Kenogenic variation. See **eariation.

kenoticism (ke-not'i-sizm), n. [kenotic + -ism.] The doctrine of the kenosis of Christ, that is, of the limitations implied in the incarnation. See kenosis.

kenotism (ke-nō'tizm), n. [kenot(ie) + -ism.] Same as *kenoticism.

kenrei (ken-rā'), n. [Jap., < ken (Chin. hien, prefecture), + rei (Chin. ling, direct, lead).]
The governor of the administrative division of Japan known as a ken. See ken6.

Kensington stitch. See *stitch.

kentallenite (ken-tal'en-it), n. [Kentallen, Scotland, + -ite².] In petrog., a phanerocrystalline rock composed of orthoclase and limesoda-feldspar in nearly equal proportions, together with augite, biotite, and olivin; a olivin-monzonite. Hill and Kynaston, 1900. an

Kenticism (ken'ti-sizm), n. An expression characteristic of the Kentish dialect. Pegge. Kentish cousins, distant eonsins or relatives.

kentledge, n. 2. In the British service, condemned shot, shell, and similar unserviceable articles—Kentledge articles.—Kentledge goods, such heavy parts of a ship's eargo as may be used for ballast.

ship's cargo as may be used to bound kentrogon (ken 'trō-gon), n. [Gr. κέντρον, a point, + γόνος, generation.] In rhizocephalic transfer in which the alous crustaceans, a larval stage in which the

parasite attaches itself to the host by an antenna, throws off its whole trunk, leaving only its head, and undergoes other modifications including the formation of a hollow arrow-like process or borer through which tho parasite enters the body-cavity of the host,

kent-tackle (kent 'tak "1), n. Same as cant-

kenyte (ken'īt), n. [Mt. Kenya, East Africa, + ite², spelled perversely -yte.] In petrog., a volcanic rock resembling pantellerite but more

voicame rock resembling pantellerite but more basic. It is porphyritic, with phenocrysts of sodanicrocline; ground-mass glassy or hyalopilitic; subordinate minerals agirite, angite, and olivin. Gregory, 1900. Keokuk group. See *group1. kephalin, n. Same as *eephalin. ker.. An unstressed introductory syllable, perhaps better written ka- or ke-, used in some dialectal words, without meaning in itself but serving to introduce an emphatic extress cas in serving to introduce an emphatic stress, as in kerslap, kerelunk, kerplunk, kerwhack, etc. It probably originated in the involuntary utterance which often precedes a sudden physical effort, as in striking with an ax or hammer or paving-rammer

keracele (ker'a-sēl), n. Same as *keraphyllo-

keraphyllocele (ker-a-fil'ō-sēl), n. [Gr. $\kappa \epsilon \rho a c$, horn, $+ \phi i \lambda \lambda \rho v$, leaf, $+ \kappa i \beta \lambda \eta$, tumor.] A sharply defined horn tumor projecting from the inner surface of the wall of a horse's hoot and appearing at the plantar surface as a semi-circular thickening of the white line.

kerasin (ker'a-sin), n. Same as *eerasin2. keratectomy (ker-a-tek'tō-mi), n. Same as \star eerateetomy.

keratiasis (ker-a-tī'a-sis), n. Same as *eera-

keratin (ker'a-tin), n. Same as ceratin. keratinization (ker/a-tin-i-zā'shon), n. Same

as *eeratinization. keratinize (ke-rat'i-nīz), v. i. Same as *cera-

keratinoid (ke-rat'i-noid), n. Same as *eeratingid.

keratinose (ke-rat'i-nōs), n. Same as *eerati-

keratitis (ker-a-tī'tis), n. Same as ceratitis. kerato-angioma (ker"a-tō-an-ji-ō'mä), n.

Same as *angioceratoma. keratoconus (ker"a-tō-kō'nus), n. Same as \star ceratoconus.

keratode (ker'a-tōd), n. Same as ceratode. keratoderma, keratodermia (ker'a-tō-dèr'-mä, -mi-ä), n. Same as *ceratoderma. keratohyalia (ker'a-tō-hì'a-lin), n. Same as

*ceratohyalin.

keratohyaline (ker "a-tō-hī'a-lin), a. Same as \star ceratohyaline.

keratoid (ker'a-toid), a. Same as ccratoid. keratoiditis (ker-a-toi-dī'tis), n. Same

 \star cerato-iritis. keratolysis (ker-a-tol'i-sis), n. Same as \star_{eera} -

keratoma (ker-a-tō'mā), n. Same as *ccratoma. keratomalacia (ker "a-tō-ma-lā'si-ā), n. Same as *ceratomalacia.

keratome (ker'a-tom), n. Same as ccratome. keratometer (ker-a-tom'e-ter), n. Same as

A spider-crab, **kenotist** (ke-nō'tist), n. [kenot(ic) + -ist.] **ceratometer. keratomycosis (ker"a-tō-mī-kō'sis), n. Same as **ceratomycosis. as *ceratomycosis.

keratophyre (ker'a-tō-fīr), n. [Gr. $\kappa\epsilon\rho\alpha\zeta$ ($\kappa\epsilon\rho$ - $a\tau$ -), horn, + E. (por)phyr(y).] In petrog., dense, compact porphyry, composed of alkalifeldspars and diopside. A variety containing quartz is called quartz-keratophyre. Gümbel, 1874.

keratoplasty (ker'a-to-plas-ti), n. Same as ceratoplasty.

keratoscope (ker'a-tō-skōp), n. [Also cerato-scope; ζ Gr. κέρας (κερατ-), horn, + σκοπεῖν, view.] A device for determining the presence of irregularities in the anterior surface of the cornea.

*ceraunograph.

keraunoid (ker'â-noid), a. [Gr. κεραννός, thunderbolt, +-oid.] In petrog., noting bifurcate microlitic crystals of augite, feldspar, or other minerals. Washington, 1896.

keraunophobia (ke-ra-no-fō'bi-ā), u. Same as clamation; preaching; specifically, Christian ketol (kō'tol), n. [ket(one) + -ol.] The name

keraunoscopeion (ke-râ "nō-skō-pē'on), n. Same as ceraunoscope.

keraunoscopy (ke-râ-nos'kō-pi), n. Same as *ceraunoscopy.

Kerberos (ker 'be-ros), n. [Gr. Κέρβερος.] Same as Cerberus.

kerchief-plot (ker'chif-plot), n. A garden-plot no bigger than a handkerchief.

Gentle breezes bring
News of winter's vanishing.
And the children build their bowers,
Sticking kerchief-plots of mould
All about with full-blown flowers.
Wordsworth, To the Same Flower [Small Celandine], st. 3. Gentle breezes bring

kerchunk (ker-chungk'), adr. [ker-+chunkl.] With a sudden heavy blow or thump. [Slang

or colloq., U. S.]

 \mathtt{Kerf}^2 (kerf), $v.\ t.$ [$kerf^2$, n.] To cut (a strip or bar of wood) with one or more kerfs for the kerf2 (kerf), v. t. purpose of bending it.

kerflummux (kėr-flum'uks), v. t. and i. [ker-+ flummux.] To 'flummux' completely. [Slang or colloq., U. S.]

Kermanji (kėr-män'je), n. The language of

Kermanji (kėr-män'je), n. The language of the Kurds; Kurdish. kermes, n. 3. Short for kermes-mineral, or, more properly, mineral kermes. kernbut (kėrn'but), n. [Kern, a river in California, + but(tress).] A name suggested by A. C. Lawson for a peculiar topographic form in the Kern River valley, California, - a buttress projecting from one side of a cañon and crowding the river against the opposite wall. crowding the river against the opposite wall. From the fact of their being buttresses of a peculiar type recognized for the first time in Kern Canon, the feature is called a kernbut.

Bulletin Geol. Dept. Univ. of California, 1904, III. 332.

kern-curve (kėrn'kėrv), n. In projective geom., the conic of reference whose every tangent is

dual to its own contact-point.

kerned (kernd), a. [keru¹ + -ed².] Said of a printing-type that has a small projection beyoud its body, as the knobs at the ends of

f and J.

kernel¹, n. 4. (b) An enlarged lymphanic gland.—6. In metal., a nucleus of a double sulphid of copper and iron obtained in roasting cupriferous iron pyrites. The kernels are separated by hand from the lumps of pyrites and are melted for copper. Phillips and 485.

separated by hand from the lumps of pyrites and are melted for copper. Phillips and Bauerman, Elements of Metallurgy, p. 485.

— Waxing kernels. (b) Swollen tonsils.

kernel-roasting (ker'nel-rōs#ting), n. The process of roasting cupriferous iron pyrites for the extraction of copper. See *kernel1, 6. Phillips and Bauerman, Elements of Metallurgy.

lurgy, p. 485.

kern-soap (kern'sop), n. Soap separated from the original solution by the addition of salt or a strong brine: same as curd soap (which sec, under soap). Sci. Amer. Sup., May 20, 1899. kern-stone (kern'ston), n. A coarse-grained

sandstone.

Kerosene emulsion. See *emulsion. kerosene-engine (ker'ō-sēn-en"jin), n. An engine using kerosene as a fuel; strictly, an internal-combustion engine using kerosene-oil as a source of hydrocarbon fuel.

kerosolene (ker' \hat{o} -s \hat{o} -l \hat{e} n), n. [keros(ene) + -ol+-ene.] A trade-name for petroleum ether which at one time was proposed for use as an anesthotic.

kerplunk (ker-plungk'), adv. [ker- + plunk.] With a sudden 'plunk' or plunge. [Slang or colloq., U. S.]

Kerr effect, Kerr's constant. See *effect,

Kerry² (ker'i), n. A breed of small, active, black cattle having its origin in the southwest of Ireland: of considerable value for dairy purposes.

kerseymere-twill (ker'zi-mēr-twil"), n. A four-harness twill-weave: same as *cassimere-

kershaw, n. Same as *cushaw.

kerwallop (ker-wol'op), adv. [ker-+ wallop1 and wallop2.] With a sudden wallop or onrush. [Slang or colloq.]

kerygma (ke-rig'mä), n. [Gr. κήρυγμα, < κηρίσσειν, herald, proclaim: see eaduceus.] A pro-

preaching.

keryktics (ke-rik'tiks), n. [A bad form (with a worse one, kerysties) for what would be reg. a worse one, kerysties) for what would be reg, *kerykies, or rather *eerycies, pl. of *cerycie, < Gr. κηρυκικός, adj., < κήρυξ (κηρυκ-), a herald.] That department of practical theology which treats of the science of preaching. It includes missionary preaching and preaching to believers, as differentiated from homiletics, which deals only with the latter. Baldwin, Diet, of Philos. and Psychol., L 160.

kerystic (ke-ris'tik), a. [A bad form, intended to be formed from Gr. κηρύσσειν, proclaim, herald, ζκῆρυξ, a herald.] pertaining to preaching.

kestrel, n.—Nankeen kestrel, the Anstralian spar-row-hawk, Tinnunculus cenchroides; so named on ac-count of its yellowish color, which suggests that of nankeen.

hankeen.

keta (kë'tä), n. A vernacular name in Kamchatka of the dog-salmon, Oncorhynchus keta.

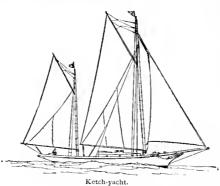
The fish is one of the smaller of the Pacific salmon and is found from San Francisco to Kamchatka, ascending all streams in the fall and spawning at no great distance from the sea

streams in the lan and spanning from the sea.

ketate (kë'tāt), n. [ket(one) + -atel.] The name of a class of organic compounds contain
V OR The graph of the land of the la ing the complex X > C < OR. They are also kettle-broth (ket'l-brôth), n. See the quotation. called ketone ethers.

ketazin (ke-taz'in), n. [ket(one) + az(ote) + $-in^2$.] The name of a class of organic compounds containing the complex $R \to C:NN:C \to R''$. They are crystalline

ketch-yacht (kech'yot), n. vessel with two masts and three fore-and-aft



sails, the mainsail being smaller than the foresail, and the one head-sail (the jib) setting on a short bowsprit.

ketine (ke'tin), n. [ket(one) + -ine².] 1. The name of a class of organic compounds con**ketine** ($k\bar{e}'tin$), n. taining the complex

$$N < CH \cdot CH > N$$
.

They are prepared by the reduction of nitroso-ketones, closely resemble the pyridine bases in general properties, and are also called *pyrazins* and *aldines*. See **aldine2.

2. A colorless, crystalline, basic compound,

$$N < C(CH_3).CH > N,$$
 $CH:C(CH_3) > N,$

found in commercial fusel-oil and prepared key!, n. 3. (k) In printing, the circular ratchet by the action of ammonia on glycerol, that closes or uncloses patent quoins of iron. by the action of ammonia on glycerol. It crystallizes in lustrous plates or rhombohedra, melts at 15°C, and boils at 15°C. Also called 2,5-dimethylpyrazin, dimethyldiazin, glycoline, and dimethylaldine,

ketipic (kē-tip'ik), a. Noting an acid, a colorless amorphons compound, HOCOCH₂CO-COCH₂COOH, prepared by the action of diethyl oxalate on two equivalents of ethyl dichloracetate. It decomposes at 150° C., without melting, into carbon dioxid and diacetyl. Also called diacetyl-dicarboxylic acid.

keto. A combining form used in organic chemistry to indicate the presence of the ketone group R' > CO.

kerslap (kėr-slap'), adv. [ker-+slap1.] With a sudden slap or loud slapping blow. [Slang or colloq., U. S.] kerslop (kėr-slop'), adv. [Var. of kerslap.] kerslop (kėr-slop'), adv. [Var. of kerslap.] kerslop (kėr-slop'), adv. [Var. of kerslap.] kerslop (kėr-slop'), adv. [Var. of kerslap.]

ketohexose (kē-tō-hek'sōs), n. [kcto(ne) + Gr. $\dot{\epsilon}\dot{\xi}$, six, + -ose.] A ketone-alcohol containing 6 atoms of carbon, a member of one class of the glucoses. Fruit-sugar or levulose is the most familiar example of such a subof a class of organic compounds containing the group

 $_{\mathrm{R'}}^{\mathrm{R}} > \mathrm{COC}(\mathrm{OH}) < _{\mathrm{R'''}}^{\mathrm{R''}} \cdot$

They are also called ketone alcohols. **ketole** (kē'tōl), n. Same as indol.

ketone, n.—Ketone blue. See *blue.—Pimelic ketone. Same as *cyclohexanone. ketose (kē'tōs), n. [ket(one) + -ose.] A classname applied in organic chemistry to sugars,

such as fructose, containing a ketone group.

ketoxime (ke-tok'sim), n. [ket(one) + oxime.]
A class-name applied in organic chemistry to compounds of ketones and hydroxylamine, containing the group R > C:NOH.

kettle-boiler (ket'l-boi#ler), n. An obsolete type of steam-boiler the general form of which was spherical like that of a kettle, with a flat bottom over the fire.

kettle-bottom (ket'l-bot"um), n. 1. Naut., a vessel having a flat floor.—2. A hill the outline of which suggests an upturned kettle. [Rare.]

'Kettle-broth' . . . consists of pieces of stale bread liberally moistened with boiling water, and besprinkled with salt and pepper.

Eleanor G. O'Reilly, Sussex Tales, IL 187. N. E. D.

kettled (ket'ld), a. In geol., worn into potholes or 'giant-kettles.'

and stable and are prepared by the action of kettledrum (ket'l-drum), r. i.; pret. and pp. hydrazine on ketones.

kettledrummed, ppr. kettledrumming. To drum (ou the kettledrum); sound like a kettledrum.

kettle-maw (ket'l-mâ), n. Same as angler, 2. kettle-net (ket'l-net), n. Naut., a net for catching mackerel.

catching mackerel.

Ketton-stone (ket'on-ston), n. In petrog., an oblitic limestone found at Ketton, England.

ketuba (ke'tö-bä), n. [Heb., < katab, write.]

Among the Jews, a written marriage contract.

The phraseology of the document follows a set form, the particulars relating to dowry and marriage settlement varying in individual cases. The language is always Aramaic. After the date, the names of the contracting couple and those of their parents are fully given thua:

"N, son of N, of the city of N, said to the virgin N, daughter of N, 'Be thou my spouse according to the law of Moses and Israel, and I will labor, honor, nourish, and support thee according to the custom of Jewish men who labor, esteem, nourish, and support their wives truthfully." Then follow the particulars of amount, etc. (200 sus to a virgin and 100 sus to a widow), the husband binding himself to pay that amount in full "from the best part of his possessions, . . even from the garment upon his shoulders." The document is signed by the bridegroom and two witnesses, and is then read by the rabbi, in the presence of all concerned, at the marriage ceremony.

Keupermergel (koi'per-mer-gl), n. [G., 'Keupermarl.'] In geol., a subdivision of the Triassic system iu Germany which attains a thickness of 1,000 feet. It is underlain by the Lettenkohle and overlain by the Rhætic, and is the middle division of the Kenper.

kevel⁴ (kev'el), n. [Also keval, kevil; origin obscure.] Alocal name in Derbyshire, England, for the calcareous gangue of lead ore (galena).

keweenawite (kē'wē-nā-īt), n. [Keweenaw + -ite².] An arsenide of copper and nickel, (Cu,Ni)₂As, found in Keweenaw county, Michigan.

key1, m. 3. (k) In printing, the circular ratchet that closes or uncloses patent quoins of iron.

—11. A wooden pin for fastening hides together while they are being limed. Modern Amer. Tanning, p. 207.—Cross keys, in her., keys borne crosswise as in the papal arms: a frequent sign in Europe.—Gold key, the office of groom of the stole.—Key of the sea, the pelican's foot shell, Aporthais pespelecan's. See cut mider Aporthais.—Keys of the weather, the twelve days of Yuletide (December 25-January 3), popularly considered as the keys to the weather of the coming year, month by month.—Reverse keys, wedges or keys used for driving apart or separating two pieces of a machine. They are made of two steel plates, one of which has a projection on one side and the other a recess in one edge of the same length as the projection on the first key. They are frequently used for forcing tapered rods out of their sockets.—Ringing-key, in telephony, a key by which an operator makes the necessary connections to send calling-current and operate the bell of any subscriber: frequently combined with a listening-key, in which case the device is called a listening-and-ringing key.—St. Peter's keys, the emblem of the papal authority and of the spiritual power of binding and loosing; the cross keys in the papal crown. See power of the keys, under key1.—Secondary key, in music. Same as relative or parallel key.—Split key, a split pin; a pin made of half-round wire which has a loop for a head and the ends of which can be easily spread apart to prevent its falling out.—Stepped key, a key which has a eparate and movable bits: used with permutation locks. permutation locks.

key1, r. t.—To key up, to drive in the keys (in the sense of wedges) so as to change the shape of the structure. Thus, to key up an arch is to drive in the last stone (compare keystone), so that the whole arch will hold itself off the centering, which may then be struck key-loads.

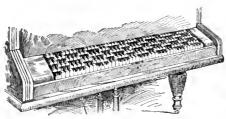
key-loader (kē'lō'der), n. In the making of khat (kät), n. See kafla. pianofortes or organs, a workman who inserts khatri (kat'ri), n. [Hind. khatrī, < Skt. kshatriya.] A member of the second or military the key-loads.

key-loads (kē'log), n. In lumbering, a log which caste among the Hindus. N. E. D.

keyboard, n. 1. Pedal keyboards in the organ are called radiating when the keys are made to converge somewhat below the player's seat, like the ribs of a fan, and concave when the general level of the inner keys is lower than that of the outer ones. In the best organs the pedal keyboard is both concave and radiating.

2. The set of keys for operating the letters of

a type-writing or type-setting machine.—Jankó keyboard, a form of pianoforte keyboard, invented in 1882 by Jankó, then ef Berlin. It consists of six rows, or three double rows, of peculiarly rounded keys, closely



Janko Keyboard

terraced so that the player may pass readily from one to another or use two rows at once. The three double rows are duplicates of each other, and are connected with the same levers: they are provided simply to give the maximum ease of shifting and combining. Each double row is arranged thus:

C: D: F: G: A B

C: D: E: F: G: A B

The keys corresponding to the black keys of the ordinary keyboard are distinguished by black bands. The utility of the invention lies (a) in its compactness, an octave being about equal to a sixth in the ordinary keyboard, so that intervals longer than an octave may be spanned; (b) in its adaptability to the hand, so that by shifting from row to row the shorter fingers can be favored; (c) in the fact that the fingering for every tonality is the same, thus facilitating transposition and the playing of pieces in 'remote' keys; and (d) in facilitating special effects, like the glissando.—Universal keyboard, a particular arrangement of letters on the keyboard of a type-writer, adopted by most of the manufacturers in the ideal keyboard.

Another arrangement is called the 'ideal keyboard.'

key-center (ke sen ter), n. In the keyboard kg. An abbreviation (a) of keg; (b) of kilo-of a pianoforte or organ, the center of a key gram. or digital: used as a point of reference in

measurements, **key-chuck** (kē'chuk), n. A jaw-chuck the screws of which are actuated by a key-wrench. A jaw-chuck the key-clog (kē'klog), n. A wooden clog, or a K. G. H. An abbreviation of Knight of the metal strip or plate, attached to a key to prevent it from being everleshed a last when the strip of Hanover. vent it from being overlooked or lest.

key-coupler (ke'kup'ler), n. In organ-build-ing, a coupler between two keyboards or between octaves on the same keyboard, when the coupled keys actually move. See coupler (a). key-frame (ke'fram), n. In the organ and the pianoforte, the board underneath and supporting the keys. See cut under pianoforte.

key-gage (ke'gāj), n. A plate-gage, either male or female, used for checking the width of keys and key-seats, the female or receiving gage being notched the exact width of the key and its mate being the exact width required for the keyway.

key-hammer (ke'ham'er), n. A hand-hammer used for driving keys or wedges.

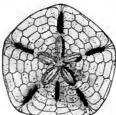
Keyhole nebula. See *nebula.

keyhole-urchin (kē'hōl-er"chin), n. Any flat

sea - urchin having keyhole - like openings through the test, as Scutella and Mellita.

key-horizon (kē'hōrī zon), n. An easily recognized geological surface which serves as a plane of reference from which measurements can be made.

By connecting the points of equal elevation a contour map of the key horizon was constructed.



Keyhole-urchin (Scutella sex-foris). Test from the apical side (original). (From l.ang's "Comparative Anatomy.")

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 339.

key-lead ($k\bar{e}'$ led), n. In the organ and the pianoforte, a small piece of lead let into a key-tail Same as calif.
to insure the prompt rise of the key when it is khalil (kä-lel'), n. Same as chalil. released. See cut under pianoforte.

is so caught or wedged that a jam is formed kheda (ke'da), n. [Alse keddah, < Hind. kheda,

and held by it. **key-model** (kē'mod'el), n. The model of a vessel cut from a block composed of various layers of wood fastened together by wooden

key-money (ke'mun"i), n. Money exacted from a coming tenant before the keys of the house khediviate (ke-de vi-at), n. [khedive + -i-+

are delivered to him. [Eng.] **key-move** (kē'möv), n. The first move in the solution of a chess problem or end-game study, as intended by its author. Another such move, not intended by the author, is called a cook.

key-plan (kē'plan), n. A diagrammatic or khersal, n. See *khirsal. abridged plan giving simply the emplacement khirsal (ker'sal), n. [Also khersal, khairsal; of the chief points of interest. It may be a key

E. Indian: cf. Hind. khair, the tree Acacia or index to more elaborate plans.

key-plate, n.—**Drop key-plate**, a key-plate having a pivoted cover or guard over the keyhole.

key-recorder (kē'rē-kôr"der), n. A clock combined with a time-registering mechanism op-Khlisti, n. Same as Khlistie. erated by pressing numbered keys. Engin. Mng., July, 1904, p. 618. key-seater (kē'sē'ter), n.

A machine for cutting a keyway or slot for a spline. Portable machines designed to cut a keyway in a piece of shafting, while in position, are essentially small milling-machines operated by hand or by a motor, or by means of flexible shafting, and having narrow-face cutters for milling out the slot-ting-machine or draw stroke shapera. Also called keyvaya cutter.

Keyser cup. See ★cup.

key-stringed (ke'stringd), a. Of musical instruments, having strings and played by means of a keyboard.

key-tube ($k\bar{e}'t\bar{u}b$), n. 1. A tube in a lock designed to support the key.—2. The hollow shank or stem of a pipe-key.

K. F. An abbreviation of Knight of Ferdinand

K. G. C. An abbreviation of Knight of the Golden Circle (United States). K. G. C. B. An abbreviation of Knight of the

Grand Cross of the Bath.

kgm. An abbreviation of kilogrammeter, the

gravitational unit of work.

K. G. V. An abbreviation of Knight of Gus-

tavus Vasa (Sweden). K. H. An abbreviation of Knight of (the Order of) Hanover.

khaki. I. a. 2. Made of the cloth known as khaki (without direct reference to color).

The deacended in a new khaki auit of a delicate olivereen. R. Kipling, Arrest of Lieut, Golightly, in Plain [Tales from the Hills, p. 124.

11. 0. account of its neutral color and other convenience. 11. W. 1. On account of its neutral color and other conveniences, khaki is now used extensively for uniforms in the British and United States armies, especially while they are engaged in active operations in the field. It was originally a cotton twill, but it is now also made of wool and of various colors.

2. A soldier clad in khaki. Hence—3. The

cause and the policy represented by the khaki-elad military forces operating in South Africa in 1899-1902, and support of the British government in its war policy at that time: as, to vote *khaki*, that is, to support the government and its measures in carrying on the Boer war.—4. The bonds issued by the British government in raising money to continue the Boer war.

The market does not know whether the new war loan,

Khakis, will be offered at 97, 98, 99, or 100.

B'estminster Gazette, March 9, 1900. N. E. D.

khakied (kä'kid), a. Clothed in khaki. Daily Express (London), June 26, 1900.

This is steeped in the big khal at Ishapur, and during the fermenting stage mosquitoes are generated very plentifully.

Jour. Tropical Med., June 15, 1903, p. 200.

khalifa, khalifah (kä-le'fä), n. [Ar. khalifa.]

Khamitic (ka-mit'ik), a. Same as Hamitic. keyless (kē'les), a. [keyl + -less.] Having khandjar, khanjar (kan'jär), n. Same as handjar, khanjar (kan'jär), n. Same as handjar.

(Skt. ūkheta, hunting.] In India, a snare, in the form of an inclosure, in which adult wild elephants are captured.

The custom in Bengal is to construct a strong enclosure (called a *keddah*) in the heart of the forest.

Sir J. E. Tennent, Ceylon, 11. 342.

-utc³.] The office, dignity, or government of the khedive; the dominions of the khedive.

An account is given of the reforms instituted during the Khediviate of Ismail Pasha.

Encyc. Brit., XXVII. 703.

Catechu.] Nearly pure catechin found in pockets of the wood of Acacia Catechu, the East Indian tree yielding catechu, and used by the natives in betel-chewing.

khoja (kō'jā), n. [Alse khodja, khodgea, eojah, hoja, hojah, hodja, etc., < Turk. khawāja, pren. kōhja, khāja, = Hind. khuājah, in popular pronunciation khājā, < Pers. khawāja, pron. khājah, a rich merchant, a gentleman, a man of distinction, in Turk. also specifically a teacher, a scribe.] 1. In Persia, a gentleman; a man of distinction.—2. In Turkey, specifically, a teacher in a school attached to a mosque.

key-seating (kē'sē'ting), n. 1. A key-seat; khubber (kub'èr), n. [Also khuber, khabbar, a keyway.—2. The process of cutting a key-seat.] khubber (kub'èr), n. [Also khuber, khabbar, khabbar, cutting a key-seat.] Information; intelligence; report.

Khussak beds. See $\star bed$ ^I.

Ki. An abbreviation of Kings.

kiang², n. See *kyang.
kibble² (kib¹), v. i.; pret. and pp. kibbled, ppr. kibbling. [kibble², n.] To hoist ore or refuse in a mine-bucket or kibble.

kibosh (ki-bosh' or ki-bosh'), n. [Also kybosh, kye-bosh; origin obscure, but prob. a spontaneous emphatic word of purposely indefinite character, \(\lambda ki_r, ka_r, ker_r, \) a vague introductory syllable (see \(\frac{ker_r}{ker_r}, \) + \(\frac{kosh}{kosh}, \) an emphatic syllable (prob. sometimes associated with the historical word \(bash, \) nothing, stuff, nonsense, a word of Turkish erigin which came into English use at about the same time). As the word never had a definite meaning, it served as a convenient substitutionary word where emphasis was to be conveyed or precise words were lacking at the moment. Compare the similar vague substitutionary uses of thing, jig, bob, thingumbob, stuff, etc.] 1. Something indefinite; a thing of any kind not definitely conceived or intended: as, I'll give him the kibosh. [Slang.] N. and Q., 9th ser., VII. 277.—2. The thing in question; the stuff: as, that's the proper kibosh. [Slang.] Hence, specifically—3. The stuff used in filling cracks or giving finish or shadow to architectural sculptures, namely, Portland cement.

"Where a the kybosh?"... is a query ... constantly overheard where architectural aculptors are at work.

N. and Q., 9th ser., VII. 277.

4. Wages; money. Eng. Dial. Dict. (s. v. kybosh). [Cornwall.]—5. Affectation; display; pretense. Eng. Dial. Dict. (s. v. kybosh). [Cornwall.]—6. Stuff; nonsense; rubbish; bosh. [Slang.]—To put the kibosh on. (a) To subject to the thing vaguely threatened, that is, to put an extinguisher on; finish off; do for (a person); put to silence. (Slang.] silence. [Slang.]

"Hoo-roar," efaculates a pot-boy in parenthesis, "put
the kye-bosk [read kyebosh?] on her, Mary!"
Dickens, Sketches by Boz, Seven Dials.

It was attending one of these affairs which finally put the 'kibosh' on mc. C. Roberts, Adrift in America, i. (b) To put the finishing touches on; perfect (one) in his trade. N. and Q., 9th ser., VII. 277. (c) Intransitively, to do one's best. [Slang.]

Express (London), June 26, 1900.

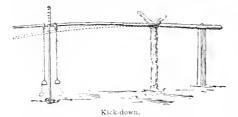
khal (käl), n. [Hindustani khālā, a creek, inlet, rivulet, watercourse.] A creek, pool, or tank.

to do one s cest. [Stang.]

kibosh (ki-bosh' or kī-bosh'), v. t. [kibosh, n.] 1. To finish off; kneck out; squash completely; end. Eng. Dial. Diet. [Slang.]—2. To throw kibosh, or Portland cement, upon (carved stonework) with a blowpipe and a brush, so as to enhance the shadows. N. and

Q., 9th ser., VII. 277. kick, v. I, trans. 6. In cricket, to cause (the ball) after pitching to rise higher than usual: said of the bowler, and also of the ground or the wicket.—To kick down, to bore (a well) hy a drill worked as follows: A wooden casing is sunk in

the ground or rock for a few feet and the boring-tool works inside of and is guided by this casing. The tool



is suspended from the free end of a horizontal hickory pole which is supported only at one end. One or more stirrups are suspended by ropes from the pole near the drill, and each operator places a foot in a stirrup. The tool is moved or kicked down by the pressure of the operators' feet and rises by the spring of the hickory pole. The tool is rotated somewhat at each stroke by the operators.

It integers 6. In existent to rise ofter being

II. intrans. 6. In ericket, to rise after being bowled higher than usual from the pitch; bump: said of the ball.

kick, n. 11. In archery, the unsteady metion of an arrow at the beginning of its flight caused by the faulty drawing or loosing of the bow.—12. In elect., a high-voltage cur-rent or discharge of short duration appearing in inductive electric circuits when the conditions of the circuit are changed, especially when it is opened.—Free kick, in foot-ball, a kick nade when the opponents are restrained by rule from advancing upon the kicker.—Kick of the runder (naut), the jerk of the runder.—Kick of the thunder coronal downward, push due to the hypothetical sudden expansion of the rapidly ascending air within a thunder cloud, in meteor, the sudden continuous as the period of the rapidly ascending air within a thunder cloud. To this kick the sudden temporary rise of pressure recorded on bargrams is attributed, as is also the outhlowing squall-wind.—Kick of the wheel (naut), the jerk of the wheel due to a sharp movement of the runder-head caused by the action of the scu on the runder.—Place kick. Usually, in a place kick, a player lies at full length on the ground, holding the ball and pointing it as directed by the kicker, who gives a signal for it to be placed on the ground and immediately kicks it before the opponents can advance to block the kick. Ordinarily at yr at goal, after a touch-down, is made by a place kick. Ordinarily at yr at goal, after a touch-down, is made by a place kick. Ordinarily at yr at goal, after a touch-down, is made by a place kick. Ordinarily at yr at goal, after a touch-down, is made by a place kick. Ordinarily at yr at goal, after a touch-down, is made by a place kick. Ordinarily at yr at goal, after a touch-down, is made by a place kick. Ordinarily at yr at goal, after a touch-down (kik'doun), n. The apparatus used kick-down (kik'doun), n. The apparatus used kick-down. See to *kick down.

**Actional continuous proposition for which saidney. The winder continuous and event was made a kill-time, or the sciency-pick (kid'ni-pēs), n. A cam having an outline something wors than folly wholesome, seemed to him kidney-pice (kid'ni-pēs), n. A table, the kidney-pice (kid'ni-pēs), n. A table, the kidney-pice (kid'ni-pēs), n. A table, the kidney-pice (kid'ni-pēs), n. A sam having-atiline said vide the proposition o in inductive electric circuits when the condi-

launeh.—4. In erieket, a ball which kicks or bumps, that is, which rises higher than usual after pitching.—5. Iu poker, a eard held up with a pair, usually an ace or king.—6. The reversing gear of some direct-acting steam and hydraulic pumps.

kicking-coil (kik'ing-koil), n. In eleet., a re-

kicking-colt (kik'ing-költ), n. The spotted touch-me-not or jewel-weed, Impatiens biftora. Also called kicking-horses.

kicking-horses (kik'ing-hôr"sez), n. Same *kicking-celt.

kicking-jacket (kik'ing-jak"et), vice to prevent a horse from kicking. It consists of two wide straps which pass over the horses rump, one at the crupper, the other at the loin, connected at the ends by straps secured to rings at the ends of the main straps, to which are also attached two looped straps at each end. The loop-straps buckle around the shafts.

kick-out (kik'out), n. In foot-ball, a drop kick,

kick-plate (kik'plāt), n. A broad metal plate placed at the bottom of a door to protect it against injury

kick-wheel (kik'hwēl), n. A primitive form of the potters' wheel operated by the foot of the workman.

In 1863 a great demand sprang up [in the Southern States] for earthen jars, pitchers, cups and saucers, and the fire-brick works were partially transformed into a manufactory of such wares, which were produced in large quantities by negro men and boys, who employed the old-fashioned "kick-wheel" in their manufacture.

E. A. Barber, Pottery and Porcelain of the U. S., p. 250.

kid1, n. 7. pl. In astron., a pair of small stars the constellation Auriga, represented as kids held in the hand of the charioteer.— Underssed kid, light goatskin finished on the flesh side, usually intended for gloves.

kid-brush (kid'brush), n. A soft brush used

kidder² (kid'er), n. A fence of stakes in a river used as an obstruction to vessels; also,

tangling fish.

kidder-net (kid'ér-net), n. A fish-net stretched

between stakes in a river. kiddly-benders (kid'li-ben"derz), n. Same as kittly-benders. Also tiddly-benders and tids.

kiddush (kid'ösh), n. [Heb., \langle kadash, sanctify.] In Jewish use, a form of sanctification tity.] In Jewish use, a form of sanetification of the Jewish sabbaths and festivals. At the end of the evening prayer on Friday, the hazzan, or reader of the synagogne, 'makes kiddush,' that is, he says a blessing over a cup of wine. The same ceremony is performed at home by the master of the house, who recites the last two words of verse 31 of the first chapter of Genesis and the following three verses (Gen. ii. 1-3). He then says a blessing, sips a little of the wine, and passes the cup to the other members of the family.

kid-finished (kid-fin/sht), a. Dressed and finished so as to be soft and pliable.

ished so as to be soft and pliable.

kid-kill (kid'kil), n. Same as *kill-kid. kidney, n. 5. In min., a concretion shaped like a kidney.

The coal has been intensely crushed and affected, probably by a shearing movement of the inclosing sandstone, so that the bed is not well defined, but the coal was found in lenses and kidneys often as large as 8 feet thick and 13 feet lenses.

Amyloid ktdney, a kidney which is undergoing lardacceous or waxy degeneration.—Hind ktdney, the posterior portion of the vertebrate kidney; in amniote vertebrates, the metanephros, or true kidney.—Wandering kidney.—Same as floating kidney (which see, under kidney).—Waxy kidney.

Same as amyloid *kidney.

Same as amyloid *kidney.

Same as amyloid *kidney.

kieye, n. [Amer. Ind.] A fish, Argyrosomus hoyi, of the family Salmonidæ, found in the deep wife's of Lake Michigan.

kifussa (ki-fö'sä), n. [W. African.] A disease of the natives of West Africa, probably the sleeping-sickness.

kiku (kē'kö), n. [Jap. kiku.] The chrysan-themum, extensively used as a decorative motive in Japanese art. In conventionalized form it constitutes the imperial erest of Japan. See kikumon.

kil, v. and n. A simplified spelling of kill. kilampere (kil'am-par"), n. Same as *kilo-

[Turk. kileh.] A Turkish measure of capacity equal to 0.912 of an im-

kilem (kī'lem), n. The term proposed in 1860 by G. J. Stoney, as an English equivalent of the French kilometre.

kick-out (kik'out), n. In foot-ball, a drop kick, punt, or place kick made by a player of that side which has made a safety or a touch-back; tralian.] A boomerang. [West Australia.] it is the method of again putting the ball in play.

kick-plate (kik'plāt), n. A broad metal plate kick-plate (kik'plāt), n. [Turk kilīm, a carpet.] An Oriental rug, made in Turkish carpet (broad the paighboring territory. It Kurdistan and the neighboring territory. is woven with a flat stitch and is made alike on both sides.

will, v. t. 6. In leather-manuf., to remove the natural grease from (the skin) in making furs or robes from hair skins. C. T. Davis, Manuf. of Leather, p. 496.—7. In tennis, to strike (the ball) with such force as to make it impossible for the opponent to return it.—Killed spirits of salts. See *salt1.—To kill the sea (nant.), to reduce the violence of the sea: said of a heavy rain, which sometimes acts upon the surface of the water in such a way as to keep it from breaking.—To kill the wind (nant.), to cause the wind to die away: said of a

heavy shower. $kill^1$, n. 2. An animal that has been killed, as by a beast of prey or by a sportsman; a bag of game.

for brushing the grain of goatskins during the process of finishing. C. T. Davis, Manuf. of Leather, p. 367.

killcrop (kil'krop), n. [G. kielkropf. Origin uncertain.] In popular tradition, a child bern with an insatiable hunger; one who can eat and eat and is never the fatter: supposed to be a fairy changeling.

a series of stakes placed across a river for en- kill-devil, n. 3. Among sailors, etc., aleoholic spirits of bad quality; a strong raw liquor. See the quotation under rumbultion.

killer, n. 4. A contrivance for killing large killer, n. 4. A contrivance for killing large ferocious animals. It consists of an elastic strip of hard material, which is coiled up, tied together with sinew, and inclosed in a bait. When swallowed the sinew is digested, and the coil unwraps and tears the intestines of the animal. It is used by Eskimos and Chukchees for killing wolves, and by the Samoans for killing sharks. Amer. Anthropologist, April-June, 1901, p. 391.

5. The technical name among house-painters for supthing used to reverse trein levelly.

for anything used to prevent resin, locally present in woodwork, from exuding and mak-ing visible spots on the painted surface; also, in a more general sense, any substance used to remove spots on such surfaces.

killing, n. 2. In the manufacture of steel, the practice of stopping or preventing the evolution of gas in the steel. Steel is most commonly killed with silicon or aluminium. Phillips and Bauerman, Elements of Metallurgy, p. 348.

killing-circle (kil'ing-ser"kl), n. See pattern,

feet long. Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 278. kill-kid (kil'kid), n. The lambkill, Kalmia

as a social amusement or a more serious occupation, entered into to kill time or the sense

dratt kin, a brick of pottery-kin in which, by a peculiar construction, the draft is deflected downward. See the extract.

The most rational kilns, then, are those working on what is known as the "down draught" principle. In these the gases rise from the fire-places to the crown against which they strike and are compelled to descend between the bungs of saggars or of ware to the flues under the floor which lead to a center tunnel connected with the stack. The striking against the crown of the kiln, the horizontal movement under the same, with the mixture effected by the impeding tops of the bungs of the ware and the downward movement, most effectually breaks up any tendency of the gases to move in separate channels.

Langenbeck, Chem. of Pottery, p. 183.

Dueberg kiln, a variety of the Hofman kiln in which the fire travels around a continuous circuit. Cars are loaded with green brick, which remain at rest during the process of firing and are drawn out after the kiln has sufficiently cooled.—Dunnachie kiln, a variety of regenerative kiln for burning fire-bricks, invented by James Dunnachie of Lanark, Scotland.—Dutch kiln, an open brick-kiln having a temporary roof which is removed when the kiln becomes sufficiently heated.—Gerstenhöfer kiln, a form of pyrites-burner used in the manufacture of sulphuric acid by the lead-chamber process. A vertical shaft of fire-brick has arranged in it a number of fire-clay bars in successive tiers, from one to another of which the pyrites, crushed to a moderately fine powder, drops in the midst of an ascending current of hot air, the sulphur becoming converted into sulphur-dioxid gas, which is drawn off through a flue at the top, while the shaft.—Hofman kiln, a kiln of the ordinary type of continuous-burning kilns, devised by Frederick Hofman fertine art. See the extract.

The burning chamber of the Hofman kiln consists of an endless tunnel of an annular shape, either circular, or

The burning chamber of the Hoffman kiln consists of an endless tunnel of an annular shape, either circular, or elliptic, or oblong in plan. This endless tunnel is successively filled with green brick, and after the fire has passed through, leaving the burned brick behind, they are successively taken out when sufficiently cooled down; soon afterward they are replaced by green brick.

C. T. Davis, Manuf. of Bricks, p. 266.

Mendheim kiln, a variety of continuous brick-kiln. See

The Mendheim kiln consists of a combination of series of arched burning chambers, connected with each other by fines, so as to form a complete circuit. These kilns are fired by gas and the fire proceeds from one chamber to another, passing through the flues, thus travelling around similarly as in the Hoffman kiln.

C. T. Davis, Manuf. of Bricks, p. 272

C. T. Davis, Manuf. of Bricks, p. 272
Railway klin, a continuous klin in which the bricks are slowly moved on cars, by means of a screw, during the process of burning. The green bricks are loaded at one end of a long, straight tunnel in the middle of which the fire is burning. As they near the other end they are gradually cooled by a current of air which flows in the opposite direction, passes through the fire, and escapes through a chimney where the green bricks are introduced.

Regenerative kiln, a brick-kiln of peculiar construc-on. See the extract.

The objects of all late improvements in the regenerative kilns are to thoroughly mix the air and gas burned in such kilns and to effect a better diffusion, regulation, and equalization of the heat obtained from their combustion.

C. T. Davis, Manuf. of Bricks, p. 272.

C. T. Davis, Manuf. of Bricks, p. 272.

Ring kiln. See *ring-kiln.—Rotary kiln, an apparatus devised for the burning or calcination of cement. It consists of a cylinder slightly inclined, supported by rollers, and revolving slowly—about once a minute. The material is fed in at the upper end and works gradually downward, falling out at the lower end.—Running kiln, a linne-kiln that is fed from above and delivers continuously below.—Up-draft kiln, a kiln in which the draft and burning gases are introduced at the bottom, pass through the ware, and escape at the top.

kiln-dry (kil'dri), v. t. To dry in a kiln, as lumber, fruit, etc.

kilnman (kil'man), n.; pl. kilumen (-men). A workman who tends a kiln or oven in a pottery; an ovenman.

kilometer, etc.

kilo-ampere (kil'ō-am-par"), n. One thousand amperes or one hundred e. g. s. units: a prae-

kilocalory (kil'ō-kal"ō-ri), n.; pl. kilocalories (-riz). [Also kilocalorie; kilo-+calory.] The quantity of heat required to raise one kilogram of water from 0° C. to 1° C. or, sometimes, from 15° C. to 16° C.; one thousand gram-ealories or lesser calories; a greater ealory.

kilo-erg (kil'ō-erg), n. [kilo- + erg.] A praetical unit of energy equal to 1000 ergs.

kilogauss (kil'ō-gous), n. [kilo- + gauss.] flux-density of 1000 lines per square centimeter: a practical unit of magnetic flux-density or magnetic induction.

or magnetic induction.

Kilogram calory. See *kalory. — Kilogram-centigrade heat-unit. See *heat-unit.—Paris kilogram, a name by which the international standard of weight or prototype preserved in the Archives of Paris is sometimes designated.

kilogram-molecule (kil'ō-gram-mol"e-kūl), n.

kilomaxwell (kil'ō-maks" wel), n. [kilo-+maxwell.] A unit of magnetic flux equal to one thousand maxwells.

kilometric (kil-ō-met'rik), a. Of or pertaining to a kilometer; measured in kilometers. kilometrical (kil-ō-met'ri-kal), a. Same as

 \star kilometric kilovolt (kil'ō-vōlt), n. [kilo- + volt².] A practical unit of electromotive force equal to 1000 volts or 1 × 10¹¹ e. g. s. units. kilovolt-ampere (kil'ō-vōlt-am-pār"), n. In

elect., a practical unit of power; a kilowatt. kilowatt-hour (kil'ō-wot-our). n. The energy developed in one hour by a kilowatt of power or activity: a practical unit of energy.

kilowatt-meter (kil'ö-wot-me"ter), n. An instrument for the measurement of electrical power so graduated as to read in kilowatts.

kilowatt-minute (kil'ō-wot-min"it), n. A practical unit of work; the work done in one

second by a machine developing one kilowatt

of power; 1000 joules. of kinetograph. kilt, v. II. intrans. To step lightly and kinesimeter (kin-ē-sim'e-ter), n. [Gr. κίνησις, nimbly, as if with the skirts kilted out of the motion, $+\mu \ell \tau \rho o v$, measure.] In exper. psychol., kilt1

kilter, n. 2. In poker, a hand with no eard above a nine, no pair, and no chance to make either flush or straight.

Kiltorcan beds. See $\star bed^1$. kilty (kil'ti), n.; pl. kilties (-tiz). [kilt¹ $\pm y^2$.] In the British army, a nickname for a Highland soldier. J. Ralph, An American with Lord Roberts, p. 55.

kimberlite (kim 'ber-lit), n. [Kimberley + -ite.] In petrog., a dense porphyritic perido-tite, occurring at Kimberley, South Africa, partly serpentinized with phenocrysts of olivin and with a few of biotite, bronzite, ilmenite, perovskite, and pyrope. In places it has a

spherulitic texture resembling chondri. It is partly brecoiated and carries diamonds and fragments of carbonaceous shales. Carvill Lewis, 1887. kimisa (ki-mē'sā), n. [Indian adoption of Sp. camisa: see camise, chemisc.] In British

Guiana, a coarse cotton garment worn by the semicivilized Indian women and sometimes by the negresses. It is made like a pettieoat, but is drawn up and fastened over one shoulder, the other being left bare.

kin⁵ (kin), n. Same as *kine³.

kina (kē'nā), n. Same as quina.

kinæsthesiometer (kin-es-the-si-om'e-tèr), n. [kinæsthesia + Gr. $\mu\ell\tau\rho\sigma\nu$, measure.] An instrument for determining the degree of museular sense or kinæsthesia.

Kinah (kĕ'nā), n.; pl. Kinoth (kĕ'nōt). [Heb. a kinesiometer (ki-nē-si-om'e-tēr), n. Same as qināh.] In Jewish use, lamentation; the name of the liturgy for the fast, on the 9th of Ab, eommemorating the destruction of the temple. It contains dirges and the book of kinesis (ki-nē'sis), n. [Gr. κίνησις, motion,

Lamentations. **kinaki** (kē-nā'kē), n. [Maori.] Anything eaten with ether food for the sake of variety or as a relish.

kina-kina (kē"nā-kē'nā), n. Same as kin-kina and quinaquina.

kinase (kin'as), n. [Gr. κιν(εῖν), move, +-ase.] A ferment-like body which is eapable of rendering physiologically active another ferment and thus produces chemical changes in kinase (kin'ās), n. a third body while in itself it is apparently inert. Enterokinase, which occurs in the intestinal juice, renders the pancreatic trypsin active and thus brings about the digestion of albumins. Kinases probably occur widely distributed both in the animal and the vegetable world.

we rectable world. $kinch^3$ (kinch), n. [A variant of $kink^1$.] A slip-knot; figuratively, a hold; an advantage. $kinch^3$ (kinch), v. t. [A variant of $kink^1$.] To $kincton^3$ (kinch), v. t. [A variant of $kink^1$.] To $kincton^4$ Kincton $kink^4$.] To $kincton^4$ Kincton $kink^4$.] See $kinch^4$ Kincton $kink^4$.] See $kinch^4$ Kincton $kink^4$. $kinch^4$ Kincton $kink^4$ Kincto nose of a horse.

kind², n.—Consciousness of kind. See *consciousness.—Course of kind. See *course1.—Ont of kind, out of the original or natural breed or variety.

Their stubbornness is but a strong hope malignified, or, as we say, grown wild and out of kind.

T. Jackson, Eternal Trnth of Scripture.

weight in kilograms is numerically equal to its weight in kilograms is numerically equal to its weight in kilograms is numerically equal to its windle1, r. i. 2. To be with young: an Engmolecules. kilojoule (kil'ō-joul), n. [kilo- + joulc.] A practical unit of energy equal to 1000 joules or bino3 (link) and link of the color of cules. **kilojoule** (kil'ō-jonl), n. [kilo- + joule.] A practical unit of energy equal to 1000 joules or to 1×10^{10} ergs. **kino** (kin), n. [Also kin; ζ Gr. κ in(η ore), motion. Compare dyne, ζ Gr. δ in(η ore), power.] In phys., the e.g. s. unit of velocity. Since in the e.g. system the units of distance and the c. g. s. system the units of distance and time are the centimeter and second, respectively, the kine is a velocity of one centimeter

Kinematic curve, geometry. See *curve, *geometry. - Kinematic method. See altitude of a *cloud.

kinematograph (kin-ē-mat'ō-grāf), n. Samo as *cinematograph.

kinematographic, kinematographical, Same as *cinematographic, *cinematographical. kinemometer (kin-ē-mom'e-ter), n. An instrument for determining the speed of vehicles. kinenegative (kin-ē-neg'a-tiv), n. [Gr. $\kappa i \nu \eta$ - (σc) , motion, + E. negative.] In photog, the
negative of a film, ribbon, or other support
from which pictures are taken for projection

stakes pictures for or uses a kinetograph.

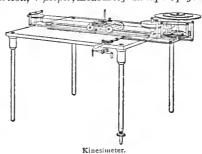
kinetographic (ki-nē-tō-graf'ik), a. Of or
pertaining to the kinetograph; obtained or
made by means of the kinetograph. in a einematograph.

kinesalgia (kin-ē-sal'ji-ā), n. [NL., \langle Gr. κ iνήσις, motion, + åλγος, pain.] Pain excited by movement.

practical unit of work; the work done in one minute by a machine developing one kilowatt of power; 60,000 joules.

kilowatt-second (kil'ō-wot-sek"und), n. A practical unit of work; the work done in one kinesigraph (ki-nē'si-grāt), n. [Gr. κίνησις, sitherapy.]

motion, + γράφειν, write.] In photog., a form of kinetograph.



an instrument devised by G. S. Hall, and described in 1885 by H. H. Donaldson, for the

scribed in 1885 by H. H. Donaldson, for the exploration of the eutaneous surface. The kines'-meter consists essentially of a metal table the top of whice is furnished with sit and grooves for the reception of a traveling car. The car is connected by belting to a set of friction-gears turned by an electric motor. On its under surface, the car carries a swinging point of hard rubber or metal, so counterpoised as to move without friction or acceleration over the surface of the skin. The skin may thus be examined for sensations of pressure and temperature, or for the limits of the perception of movement.

kinesiology (ki-nē-si-ol'ō-ji), n. [Gr. κίνησις, motion, + -λογια, < λέγειν, speak.] The science of exercise, especially as a hygienic or therapeutie agent.

kinesiometer (ki-nē-si-om'e-ter), v. Same as

kinesis (ki-nē'sis), n. [Gr. κίνησις, motion, movement, < κινείν, move.] 1. Any manifestation of dynamic energy.—2. In cytol., a short expression for karyokinesis.

Before the formation of the protetrads the thread prepared for the first maturation division undergoes a first longitudinal division, which effaces itself. At the first metaphase there is a second division (? longitudinal) which appears preparatory to the second kinesis and does not efface itself, but is useless, since it separates two demi-dyads which will pass into the same spermatid.

Jour. Roy. Micros. Soc., Oct., 1904, p. 529.

kinesiscope (ki-nē si-skōp), n. [Gr. κίνησις, motion, + σκοπεῖν, view.] An instrument designed to rest on the sea-bottom and detect electrically the approach of steamships.

kinesthetic, a.—Prinetple of kinesthetic equivalents. See *equivalent.—Kinesthetic memory. See *memory.

kinetically (ki-net'i-kal-i), adv. In a kinetical manuer.

kinetocamera (ki-nē-tō-kam 'e-rā), camera so arranged as to photograph suecessive phases of a movement; a einematograph. Scripture, Exper. Phonet., p. 30.

kinetogenetic (ki-nē"tō-jē-net'ik), a. [Gr. κινητός, movable, + γένεσε, origination (see genetic).] Developing or bringing about movement.

Its action is so constant an accompaniment of development that the forces of the latter may be divided into the kinetogenetic, or those that develop movement, and the statogenetic, or those that develop rest or equilibria amongst the parts of the germ.

J. A. Ryder, Biol. Lectures, 1895, p. 46.

kinetogram (ki-nē'tō-gram), n. [Gr. κινητός, movable, + γράμμα, anything written.] In photog., a pieture for projection by the einematograph.

kinetograph (ki-ne'tō-graf), n. [Gr. κινητός, movable, + γράφειν, write.] A device for takmovable, + γράφειν, write.] A device for taking a series of photographs of a moving objeet.

kinetographer (kin-ē-tog'ra-fer), n. One who takes pictures for or uses a kinetograph.

kinetography (kin-ε-tog'ra-fi), n. [Gr. κινητός, movable, + -γραφία, ζ'γράφειν, write.] In photog.: (a) The art or practice of taking pietures of moving objects for projection by the kinetograph or einematograph. (b) The projection of such pictures on a screen.

kinetophonograph (ki-nē-tō-fō'nō-grāf), n. A combined phonograph and kinetograph. By the use of these instruments a scene enacted may be reproduced at any other time and place, the voices of the actors being heard while their performance is witnessed.

actors being heard while their performance is witnessed.

kinetoscope, n. 3. An apparatus invented by Edison for exhibiting photographic pictures of objects in motion. Its essential parts are a ribbon containing the pictures, a mechanical device for causing the pictures to pass rapidly in succession under a lens or sight-piece, a lamp for illuminating the pictures, and a mechanical device for causing a circular revolving screen to move rapidly before them. A slot is cut in this screen, and its revolutions are so timed that the slot passes before each picture just as it is in line with the eyepiece. The effect is to give a view of each picture is succession, and to cut off the view as the picture is moved forward. The apparent result to the eye is a continuous picture in which the objects photographed appear to be in motion.

kinetoscopie (ki-nē-tō-skop'ik).

kinetoscopic (ki-nē-tō-skop'ik), a. Pertaining to or having the nature of a kinetoseope.

This method has been so simplified that little books of cinetoscopic views are sold, from which the moving effect

is obtained by simply letting the leaves escape rapidly from the thumb as the book is bent backwards.

*Encyc. Brit., XXVII. 95.

kin-fun (kim-pung'), n. [Jap. kin-pun, pron. king-of-the-meadow (king ov-the-med'o), n. kim-pun (kim-pung'), from kin, gold, + fun, powder.] A powdered gold lacquer. King-of-the-meadow. King-of-the-meadow.

king¹, n. 6. The male of a termite or white king-parrakeet (king'par"a-ket), n. Same as

7. The perfect female bee. The queen bee was formerly known by this name.

Bees served me for a simile before
And bees again—"Bees that have lost their king,
Would seem a repetition and a bore.

J. H. Frere, Monks and Giants, iv. 22 (1817).

J. H. Frere, Monks and Giants, iv. 22 (1817).

King Arthur, a game played by British man-of-war's-men in the tropies. One of the crew is chosen by lot to represent the 'king,' and allows buckets of sea-water to be thrown over him until one of his fellows is detected laughing at his absurd efforts to dodge the deluge: the one so detected then takes the king's place.—King bird of paradise, Ciccinurus regius, a small species, which occurs in New Guinea and several other islands. The male is of a brilliant red color.—King of the herrings. (e) In Australia, the elephant fish.—King of the mackerels, Ranzania truncata, a fish of the family Molidæ: regarded by the Hawaiian Islanders as the king of the mackerels and tunnies.—King of the mullets. (b) Apogon imberbis; a fish of the family Cheilothyteridæ, found in the Mediterranean Sea.—King's bargain (naut.), a meritorious sailor on a British naval vessel.—King's bencher (naut.), asea-lawyer; a trouble-making member of the crew of an English man-of-war. [Eng.]—King's blne. See ★blue.—King's gambit declined. See ★gambit.—King's Knight's defense, Same as Berlin ★defense.—King's knight's defense, Same as Berlin ★defense.—King's high's letter man, formenly, in the Ibritish service, an officer of the rank of midshipman who held the sovereign's word that a letter of recommendation from his captain, after a certain period of experience, would secure for him a lieutenant's commission.—King's own, any article, issued from the British royal storehouses for naval or army use, which is distinguished by the mark or brand of a broad arrow.—King's regulations. See ★regulation.—King's side, in chess, that side of the board on which the King stands, embracing the King's, King's Bishop's, King's Ringht's, and King's Rook's files.—King's widow, in feudal law, a widow of a principal tenant or vassal of the king, who was compelled to take an oath in Chancery that she would not marry again without the king's consent. King Arthur, a game played by British man-of-war's-men

lar games, the object-ball.

king-bolt, n. 3. An iron red in a roof- or bridge-truss, used in place of a king-post to prevent the inclined members from allowing an increase of the distance between the tie and the compression pieces.

king-conch (king-kongk), n. A helmet-shell. Cassis madagascariensis, from the West Indies, used in cameo-cutting.

kingcup, n. 2. The marsh-marigold, Caltha palustris.

kingdom, n.—The Flowery Kingdom, the Chinese empire: a partial translation of Chinese Chung hwa kwoh, 'Middle flowery kingdom,' a geographical expression. 'Flowery' is a rhetorical addition.—The Middle Kingdom,' China. China.

king-eagle (king' $\bar{e}^{\#}gl$), n. The imperial eagle. See eagle, 1.



Kingena (king-ē'nā), n. fossil brachiopods of the family Terebratulidæ. fossil brachiopods of the family Terebratulidæ. Kinoin $(k\bar{e}'n\bar{e}-in)$, n. $[kinoi+-in^2]$ A colorabre a loop the descending a melle of which are wholly or partly coalesced with the median septum. Kinoin $(k\bar{e}'n\bar{e}-in)$, n. $[kinoi+-in^2]$ A colorabre kinoin $[k\bar{e}'n\bar{e}-in]$, n. $[kinoi+-in^2]$ A colorabre in [kinoin] $[k\bar{e}'n\bar{e}-in]$, n. $[kinoi+-in^2]$ A colorabre in $[k\bar{e}'n\bar{e}-in]$, n $[kinoi+-in^2]$ A colorabre in $[k\bar{e}'n\bar{e}-in]$, n $[kinoi+-in^2]$ A colorabre in $[k\bar{e}-in]$, $[k\bar$

king-fluke (king'flök), n. Same as turbot, 1. kinglessness (king'les-nes), n. The state of

And everywhere the people, or the populace, take their own government upon themselves; and open 'kinglessness,' what we call anarchy... is everywhere the order of the day. Such was the history... from end to end of Europe, in those March days of 1848.

Carlyle, Latterday Pamphlets, No. 1.

king-lory (king'lo"ri), n. Same as *king-

king-monkey (king'mung"ki), n. One of the kinoplasma (kin-ō-plaz'mä), n. [NL.] Same African horse-tailed monkeys, Colobus poty- as *kinoplasm.

eomus, related to the guereza. Its general color is black, but a mark on the forehead, a fringe on the throat and chest, and the tuft on the end of the tail are white.

kinoplasmic (kin-\(\bar{e}\)-plaz'mik), a. [kinoplasm + -ie.] Of or pertaining to kinoplasm.

jeepye-weed, Eupatorium purpureum.

 $\star king$ -parrot.

Virgin queens show marked preference or dislike toward certain kings; queens having once mated permit no close approach of an alieu king, and do not respond to the attentions of kings of their own lineage; they may drop their wings without assistance from workers; light and warmth appear to be required for the stimulation of the king and queen to mating.

Jour. Roy. Micros. Soc., Feb., 1903, p. 35.

Jour. Foy. Micros. Soc., Feb., 1903, p. 35. Also known as king-parrakeet and king-The female, of a dull green, with dull lory. blue tail, is known as the queen-parrot.

Also king king-pot (king'pot), n. The central and largest crucible used in the manufacture of brenze. Phillips and Bauerman, Elements of Metallurgy, p. 503.

king-row (king'ro), n. In draughts or checkers. the last row of squares on each side on which the pieces which are to be crowned or made king are placed or which they must reach.

king's-crown (kingz'kroun), n. Same as king's-

king's-cure (kingz'kūr), n. The pipsissewa or prince's-pine, Chimaphila umbellata; also, the spotted wintergreen, C. maculata.

king-spoke (king'spok), n. Naut., a spoke of the steering-wheel, usually distinguished by a mark of some kind, which is directly over the barrel-hub when the rudder is amidships.

king's-rod (kingz'rod), n. A hardy, herbaceous perennial of the lily family, Asphodelus ramosus, a native of southern Europe, bearing large white flowers having a reddish-brown line in the middle of each perianth segment and arranged in very long, dense racemes.

kingston (king'stun), n. [Also kingstone, kinson; origin conjectural.] The angel-fish or monk-fish, Squatina vulgaris, one of the elasmobranchiate fishes found on the coasts of Great Britain.

king's-tree (kingz'tre), n. A medium-sized tree of the family Loganiaeeæ, Strychnos Atherstonei, native to South Africa, the twigs of which are used by the Kafirs for preparing ceremonial staffs.

king-ball (king'bâl), n. In bagatelle and simi-kinit (kin'it), n. [kine3 + (un)it.] Same as poundal.

kin-kan (kēn'kān'), n. [Jap.] A Japanese name for the little orange-like fruit more commonly known as cumquat. It is a dwarf species, Citrus Japonica, now grown to some extent in the southern United States.

kinko (kēn'kō), n. The trepang or bêche-de-

kinnor (kin'ōr), n. [Heb.] An ancient Hebrew instrument, probably of the zither or lyre class, but possibly a harp: translated 'harp' in the English Bible.

kinocentrum (kin-ō-sen'trum), n.; pl. kino-centra (-trä). [NL., irreg. < Gr. κυεῖν, move, + κέντρον, center.] The centrosome regarded as a motor center of the kinoplasm. The movement of cilia and of the tail of the spermatozoa is supposed by some eytologists to have its origin in the centrosome.

Opposed to *chemocentrum (the nucleus of the

kinodrome (kin'ō-drōm), n. [Gr. κίν(ησις), motion, + -δρομος, < δραμεῖν, run.] An instrument for exhibiting moving pictures. Kansas City Daily Times, Oct. 14, 1903.

kinoic (ki-nō'ik), a. [kino1 + -ie.] Of or per-A genus of taining to kine.

> able in small quantity from kine. It does not precipitate a solution of gelatin, but is converted by heating into kine-red.

kinglessness (king'les-nes), n. The state of having no king: used by Carlyle to denote a state of anarchy.

And everywhere the people, or the populace, take their own government upon themselves; and open 'kingless ness,' what we call anarchy.

is everywhere the order of the day. Such was the history.

if from end of Europe, in those March days of 1848.

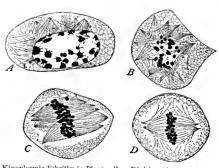
kinoplasm (kin'ō-plazm), n. [NL. kinoplasma, irreg. < Gr. κινείν, move, + πλάσμα, anything formed.] In eytol., a general term for the more active portion of the cell-cytoplasm. The kinoplasm is regarded as having fibrillar structure and as giving rise to motile structures like cilia and of Europe, in those March days of 1848.

Strassburger also regards protoplasm as composed of two portions: a motile kinoplasm which is fibrillar, and a nutritive trophoplasm which is alveolar, in structure.

Energe. Brit., XXXII. 42.

The first indication of a spindle in these cells is the formation of a felted zone of kinoplasmic fibers surrounding the nucleus.

Bot. Gazette, Aug., 1903, p. 81.



Cinoplasmic Fibrillæ in Plant-cells. Division of spore mother-cells in Equisetum, showing spindle-formation. (Osterhout.)

A, early prophase, kinoplasmic fairlile in the cytoplasm; B, multipolar fibrillar figure invading the nuclear area after disappearance of the nuclear membrane; C, multipolar spindle; D, quadripolar spindle which finally condenses into a bipolar one. Highly magnified. (From Wilson's "The Cell.")

kinoplastic (kin-ō-plas'tik), α. [Gr. κινείν, move, + πλαστός, ζ πλάσσειν, form.] Same as \star kinoplasmie.

kino-red (kē'nō-red"), n. A red substance of a somewhat resinous character forming a constituent of kine and producible artifically from kinein. It precipitates a solution of gelatin.

Kinorhyncha (ki-nō-ring'kä), n. pl. [NL., irreg. ⟨ Gr. κινείν, move, + ριγχος, snout.] Α class and order consisting of the single genus Echinoderes. Dujardin.

kinosthenic (kin-os-then'ik), a. [Irreg. \ Gr. κινείν, move, + σθένος, force, + -ie.] Entering into a mathematical expression only through a fluxion: applied to a coördinate as entering into an expression for a Lagrangian function.

kinotannic (kē-nē-tan'ik), a. [kino1 + tannic.] Noting an astringent acid contained in kine.

kinovin (ki-nō'vin), n. [Also chinovin, quinovin; \langle kina (=china², quina) + L. ovum, egg (white), + in².] An organic substance of neutral character, found in cinchona-bark, which on enaracter, found in cinchena-bark, which on beiling with dilute acid yields kinovic acid and a sugar-like substance called kinovic. It appears to exist in two isomeric forms, the one occurring in true cinchena-bark, the other in cuprea-bark. Also called kinova bitter.

kinsen (kin-sen'), n. [Jap., $\langle kin, \text{gold}, +sen, \text{thread.}$] In Japan, gold wire, used for cloisons. in enamel.

kinspeople (kinz'pē-pl), n. pl. Kinsfolk. kinzigite (kint'sig-īt), n. [Named from Kinzigivalley, Black Forest, + -ite².] In petrog., a gneissic rock composed of oligoclase, biotite, garnet, and sometimes graphite. Fischer, 1860.

kioea (kē-ō-ā'ā), n. [Maeri.] The Sandwich Island eurlew, Numenius tahitiensis.

Kionoceras (kī-ō-nes'e-ras), n. [NL., \langle Gr. $\kappa(\omega v)$, a pillar, $+\kappa\epsilon\rho\alpha c$, horn.] A genus of fossil nautiloid cephalopods characterized by its surface-senlpture, which consists of longitudinal ridges in the earlier stages, after which inconspicuous annuli appear which become obsolete before the ephebic stage. It ranges from the Silurian to the Carboniferous.

kip⁴, n. 2. A lodging-house; a bed in a lodging-house; hence, a bed in general. N. E. D.

kip-leather (kip'leth'er), n. Bark-tanned sideleather finished on the flesh side with a wax finish.

[Queensland Australian dialect.] A young man who has been initiated and is classed with the men of his tribe. See *bora2. [Anstralia.]

kipperer (kip'ér-ér), n. One who kippers or eures fish. Nature, Sept. 4, 1902, p. 435.

Kipp's apparatus. See *apparatus.

kiri (kē'ri), n. [Jap.] A large tree, Paulownia tomentosa, of the family Scrophulariaceae, cultivated in Japan for its extremely light wood. tivated in Japan for its extremely light wood, it is never found in groves or in forests, but occurs scattered in more open places, growing like fruit-trees. Its grayish wood, in comparison with most other woods of light weight, is remarkably strong and does not warp or split easily. On account of its lightness and softness it is used in many ways, especially for the manufacture of small, light boxes, wooden shoes, lacquer ware, and toys. From its seeds an oil is obtained which in Japan is used for waterproofing paper. See Paulownia and kirimois. kirin (kē-rēn'), n. [Jap. kirin, Chinese kilin, kissing-bug (kis'ing-a fabulous animal said not to tramp on live bug), n. Any one of insects or to eat live grass.] Same as kilin. kirk2 (kerk), v. t. Same as kirve.

The constrained attitudes which coal miners are compelled to assume while "kirking" or undercutting the pelled to assume wine arrange of indecedence coal seams result in nystagmus.

Buck, Med. Handbook, VI. 323.

kirkify (kêr'ki-fi), v. t.; pret. and pp. kirkified, ppr. kirkifying. [kirk¹ + -i-fy.] To make like the Scottish kirk in principles or like a kirk in architecture. N. E. D. kirkward (kêrk'wärd), a. and adv. [kirk¹ + -ward.] Churchward; toward the church.

kirn², v. t. 2. In mining, to bore with a hand-

kirn², v. t. 2. In mining, to bote with a hand-jumper or kirner. [Seotch.] kirner (kėr'nėr), n. [See *kirn, v. t., 2.] In mining, a hand jumper; a churn-drill. [Scotch.] kiroumbo (ki-röm'bō), n. [Malagasy.] A common name for the two species of peculiar birds included in the genus Leptosoma, found in Madagascar.

kirri (kir'i), n. [Also keerie, kerrie, S. Afriean D. kieri; from the Kafir name.] A short, kirri (kir'i), n. heavy stick or club with a knob on one end, used as both a striking and throwing weapon by the Bushmen and other natives of Sonth Africa. Also called knobkerrie.

Kirtlandia (kert-lan'di-ä), n. [NL., named after Jared P. Kirtland, an American ichthyol-



Kirtlandia vagrans (From Bulletin 47, U. S. Nat. Museum.)

kirwanite (kėr'wan-īt), n. eral, related to the chlorites, occurring in green fibrous forms in the basalt of Ireland.

kischtimite (kēsh'ti-mīt), n. [Named orig. in G. Kischtim-parisit, 'parisite of Kyshtymsk' (G. Kischtim). in the Ural, in Russia.] A fluocarbonate of the cerium metals, related to

parisite.

kisher, kishr (kish'èr, kish'r), n. [Ar. qishr, quitar.] An Arab guitar or inte, commonly rind, peel, shell, husk.] A favorite drink of the Arabians, especially in Yemen, made of an kit-bag (kit'bag), n. A bag to hold a soldier's or sailor's kit. berry. 111, 210.

Kishiu pottery. See *pottery.

kishlak (kēsh'lāk), n. [Also kishlag; < Turk. kishlāgh, kishlāq, kishlā, < Turki qish-lāq, lit. 'winter place,' < qīsh, winter, + -lāq, a suffix forming nouns of locality (as also in yaï-lāq, 'summer place,' mountain pasture).] In Turkestan, a place inhabited during the winter; winter counters also appropriate mountain pasture with the counters. winter quarters; also, any settlement or village.

Right opposite the Indich Bashur, on the right side of the Shakh-Dara, there is a small kishlag, abandoned. Geog. Jour. (R. G. S.), XVI. 674.

kism (kizm), n. A subdivision of an Egyptian province.

4. A very slight, glancing touch .-A small drop of sealing-wax accidentally let A small drop of sealing-wax accidentary let fall upon a letter near the seal.—Electrical kiss, an early experiment with the Leyden jar in which one person, standing on an Insulating support, held the outer coating of a charged jar, while a second person touched the knob or wire connected with the inner coating. The jar was then discharged by bringing together the lips of the two operators.

We encrease the force of the electrical kins vastly.

Franklin, Experiments and Observations on Electric(ity, p. 10.

Kisses out and kisses in, in billiards, extra contacts that (sometimes foreseen without being meant, or feared without being guarded against) either prevent a count or cause one. As affecting position merely, 'kiss out' and 'kiss in' may be either designed or accidental.

kiss, v. t.—To kiss the book, to take an oath by kissing the Bible.

kissable (kis'a-bl), a. [kiss + -able.] That can be kissed; attractive, so as to invite a kiss. kissably (kis'a-bli), adv. In a manner to sug-

gest kissing. kissage (kis'āj), n. Kissing. [Nonce-word for

the sake of a rime.]

Ere they hewed the Sphinx's visage
Favouritism governed kissage
Even as it does in this age.

R. Kipling, Departmental Ditties, Gen. Summary, st. 3.

atory bugs of the famlly Reduviidæ. Applied notably to Opsicoetes personatus, Melanolestes picipes, Rasahus biguttatus, and Conorhinus sanguisugus. The name kissing-bug originated in the newspapers in Tuna in the newspapers in June. 1899, many persons being bitten that summer and often n the lip.

kissing-gate (kis'ing-gāt), n. A narrow gate, not wide enough for two to pass as strangers.



Kissing-bug (Howard, U. S. D. A.)

kiss-me-quick (kis'mē-kwik"), n. A given to various things of a presumably coquettish or attractive nature: a small becoming bonnet fashionable about the middle of the ninetcenth century; a lady's cap with ribbons that tied under the chin on one side with 'kissing-strings'; a short lock of hair curled in front of each ear, etc. The name is also given to the wild pansy. See kiss-me.

kissybion (ki-sib'i-on), n.; pl. kissybia (-ä).
[Gr. κισσιβίου.] In Gr. antiq., a drinking-enp made of ivy-wood or decorated with ivy-leaves. It is mentioned several times in the Odyssey. It probably had a single long handle like the eyathus.

kisu (kē'sh), n. [Jap. kisz.] Same as ★okig-

kisutch (kē'such), n. [Also keeziteh; a native name.] The vernacular name in Alaska and Kamehatka, and also the technical specific name, of a kind of salmon.

ogist.] A genns of fishes, belonging to the family Atherinidæ, found on the coasts of North and Central America.

kirwanite (kèr'wan-it), n. [Named (1833) after R. Kirwan, an Irish mineralogist.] A mineral ogist.] A mineral ogist. A mineral ogist.

kitamakura (kē-tā-mā'kö-rā), n. [Jap. kita-makura, implying 'one who sleeps with the head to the north,' < kita, north, + makura, pillow.] A Japanese name of a gymnodont fish, Eumyeterias rivulatus. Also known as Also known as yokobuku and akamebuku.

We're bearded and we're dirty, As well as broken down:
So why the dickens don't they send
Our kit-bays from Capetown?
Grumbles from the Ranks, st. 5, in War's Brighter Side,

xitchen, n. 3. In metal., the space between the fire and flue-bridges of a reverberatory kitchen, n. furnace in which the work is performed. Also

called the *laboratory*. **kitchen-court** (kieh'en-kōrt), n. In a large house, the court upon which the kitchen and its dependencies open by doors or windows, or both. The arrangement may be such that only one opening from the service part of the house communicates with the grounds.

kit-dressing (kit'dres"ing), n. A rustie festival in which girls carry on their heads kits decorated with willow.

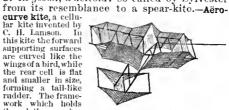
kite^I, n. 7. A variety of tumbler, black, with the inner webs of the primaries red or yellow. -8. Something thrown out as a suggestion to see 'how the wind blows'—what the condition of public opinion is on a certain subject, or what conclusions may inferentially be drawn.

A few suggestions have been thrown out by various students which must be regarded more as trial hypotheses than as definite conclusions, indeed they should be looked npon rather as "kiteg."

Nature, Aug. 14, 1902, p. 380,

9. In geom., a deltoid: so called by Sylvester

this kite the forward supporting surfaces are curved like the wings of a bird, while the rear cell is flat and smaller in size, forming a tail-like rudder. The frame-work which holds



the cloth covering Aërocurve Kite.
slides on two supporting rib-like cross-braces, thus permitting the kite to

kite

be folded when not in use.—Auxillary kite, a kite attached by a clamp or safety-eatch and a short line to the main kite-line of the highest or main kite, for the purpose of supporting the line and relieving the main kite of unnecessary strain.—Box kite, a form of cellular kite in which the front and rear cells are rectangular pamilelepipeds. The different types of this kite in use are: (1) The Hargyare box kite, the framework of which consists of a backbone of wood or other rigid material, with diagonal struts or hraces which may be collapsed when desired for folding or packing. (2) The Blue Hill box kite, designed by II. II. Clayton, the essential principle of construction heing corner-posts extending from end to end of the kite, with the girder form of bracing. This form of construction is now almost universally used in kites designed for scientific purposes. (3) The Weather Burcau kite, designed by C. F. Marvin. It embodies the essential features of the Rue Hill box kite, with the added novelty of a collapsible frame and a supplementary surface in the front cell.—Boys' or uniplane kite, a single-plane kite, usually formed by two sticks crossing each other at an angle and tied so as to form a support for a surface of cloth or paper. In some forms a third stick is used. The surface of this form of kite is flat, and a tail is required in order to maintain equilibrium in the air. The best-known forms are the bow kite, the diemond kite, the hexagonal kite, and the star kite.—Brahminy kite, See brahminy.—Cellular or multiplane kite, a kite the first forms of which were invented by Lawrence Hargrave about 1892. He made a variety of forms, the essential principle of construction being an open cell of circular, triangular, rectangular, or other shape, joined by a rigid rod or backbone to another cell. The hijing-line is attached near the inner edge of one cell, which thus becomes the front cell. The wind blowing plane. See cut at *kbridle, 10.

The cellular or multiplane kites are also far steadier than single-

The cellular or multiplane kites are also far steadier than single-plane kites, and we believe they are better adapted than the latter to maintain their equilibrium under great variations of wind force.

C. F. Marvin, Kite Exper. at the Weather Bureau, p. 27.

Chinese kite, a kite (made in China) resembling a bird, a man, a dragon, or other object, formed of light paper or cloth stretched on a framework of bamboo or wood. They extensively flown in China, Japan, and the Peninsula.

The most curious style of *Chinese kite* is the dragon kite. It consists of a series of small elliptic, very light disks formed of a bamboo frame covered with India paper. These disks are connected by two cords which keep them

equidistant.

O. Chanute, Progress in Flying Machines, p. 194. Collapsible kite, a kite that can be folded up for convenience in transportation.—Hargrave kite. See cellular *kite.—Malay kite, a form of kite used in the Malay Peninsula. The framework consists of two sticks

work consists of two sticks crossing each other at right angles, one of which is made so elastic that is bends in the wind and forms a bow; or else the stick is tied with a cord so as to retain the form of a bow. This how, when prop-erly placed, balances in the wind, so that the kite flies without a tail. The



bow. Inis now, when properly placed, balances in the wind, so that the kite flies without a tail. The best-known type of this kite in the United States is the Eddy kite, in which the bowed cross-stick is placed at a point distant 18 per cent, of the length of the vertical stick from the top of the kite. This was the first kite to be used for scientific purposes in America, except the boys' kite used by Franklin and his followers.—Pariah kite, Mivus (or Mivulus) govinda, a bird of prey common in southern India, where it plays to some extent the part of a scavenger: not to be confused with the brahminy kite, Haliastur indus, which is a very distinct bird.—Spear-kite, a kite built upon a frame consisting of one vertical and one horizontal stick: named from its resemblance to a spear-head.—Square-tailed kite, Mivus (or Lophoictinia) isurus, an Australian species.—Tetrahedral kite, a kite the skeleton or framework of which forms a tetrahedron, or a kite built up of individual parts, the skeleton of each part forming a tetrahedron. This kite is an invention of Alexander Graham Bell. In its developed forms it involves the principle of the cellular kite of superposed planes and following surfaces.

Tetrahedral kites combine in a marked exception of an analysed planes and following surfaces.

Tetrahedral kites combine in a marked degree the qualities of strength, lightness, and steady flight; but further experiments are required before decided without horizontal aeroplanes constitute the best arrangement of aero-surfaces.

War or observation kite, a kite used to elevate were supported by the support of the s

War or observation kite, a kite used to elevate men for the purpose of recommaissance or observation. Several forms of kite have been used for this purpose by Baden-Powell, Wise, and Cody.

For some time past attempts have been made to devise kites of sufficient dimensions and lifting power to carry a person into the air, either for meteorological observations, or simply to reconnoiter the surrounding country, the latter object naturally constituting for the most part an acquisition to a military equipment. Major Baden Powell of the British army has devised a kite which will lift amm that scope, as frequent experiments have shown, is somewhat limited. Mr. Samuel Franklin Cody, however, has devised an observation kite which has been submitted to several exacting tests in England, and hen sproved practical and successful for general observation and meteorological experiments.

Sci. Amer. Sup., April 11, 1903, p. 22804.

Whistling kite. Haliastar subcurrus, an Australian

Sci. Amer. Sup., April 11, 1903, p. 22804. kl. An abbreviation of kiloliter. kl. An abbreviation of kiloliter. kl. An abbreviation of kiloliter. kl. L. An abbreviation of Knights of Labor. and dull yellowish with dark markings below. kite¹, v. i. 3. To fly a bird-shaped kite over Leopold of Austria.

kite¹, r. i. 3. To fly a bird-shaped kite over a grouse moor: an English sporting-term. a grouse moor: an English error. The birds, taking this for a hawk, lie close, until the dogs are near.

kite-balloon (kīt'ba-lön"), n. A captive balloon so constructed as to act partially as a kite. Archibalds kite-balloon was an ordinary halloon fitted with a cone-shaped structure to support it. Parseval's kite-balloon, used by the Germans for scientifie and also for military purposes, consists of an elongated balloon beld rigid by an air-sack inflated by the wind, the sack being a part of the rear end of the balloon.

kite-boat (kīt'bōt), n. A boat propelled by the pulling force of a kite.

kite-boat (kīt'bōt), and boat propelled by the pulling force of a kite.

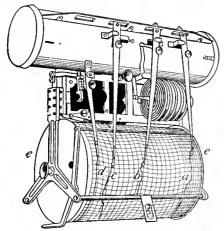
the pulling force of a Arc.

A few weeks ago S. F. Cody, in thirteen hours, safely crossed the English Channel between Dover and Calals in a "kite-boat," described as a miniature submarine boat weighing four tons, and propelled by a modified box-kite.

Amer. Inventor, Dec. 15, 1903, p. 276.

kite-fish (kit'fish), n. A gurnard, Trigla cuculus, found in the Mediterranean and off the western coasts of Europe.

kite-meteorograph (kit'mē/tē-ō-rō-graf), n.
A small apparatus, designed to be carried by Klebs-Loeffler bacillus. Sec *bacillus.



Marvin's Kite-meteorograph

a, record of the pressure; b, record of the temperature of the air; c, record of the temperature of the wet-bulb thermometer; d, record of the velocity of the wind; c, c, revolving drum,

conditions at considerable altitudes: made in various forms devised by Fergusson, Richard, and Marvin.

kite-photograph (kīt'fō"tō-graf), n. A photograph taken by means of a camera attached to a kite.

kittel² (kit'el), n. [Yiddish kittel, \langle G. kittel, MHG. kittel, kitel, a frock, blonse, shirt-waist; origin unknown.] A Yiddish name for an ample linen or cotton robe which orthodox Jews wear on three solemn occasions, namely, at nuptial ceremonies (by the bridegroom); at the seder service, on the first two evenings of Passover (by the master of ceremonies); and on the Day of Atonement. Pious Jews Pious Jews are also buried dressed in a kittel.

kittereen (kit-e-ren'), n. [Also kittareen, kit-terine, kitterine; origin unknown. It has been referred, without proof, to Kettering, a local name, and Kit Treen, a man's name.] 1t. A kind of omnibus. [Western England.]—2. A one-horse, two-wheel chaise or buggy, with or without a movable top. [Jamaica.]

kittle1, v. t. 2. To confuse with questions or statements.

kitty-witch (kit'i-wich), n A small swimming-crab, Porcellana platycheles, found in the North Sea and the Mediterranean.

kiva (kē'vä), n. [Also spelled kib-ra. Moki.] A sacred chamber, wholly or partly unnerground, in which many of the religious ceremonials of the Pueblo Indians are performed. Also estufa.

A pueblo of the size of Awatobi, with so many evidences of long occupancy, would no doubt have several cere klinostat, n. See clinostat.

indicated their positions.

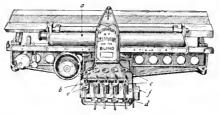
*Rep. Bur. Amer. Ethnol., 1895-96, p. 611.

kiver¹, n. 2. A sunfish or pumpkin-seed. See pumpkin-seed, 2. Also kivy. [Local, U. S.] kivu (kē'vö), n. [African.] A native name for one of the tsetse-flies which communicate the nagana or sleeping-sickness in Africa.

klafter (kläfter), n. [G. klafter, MHG. kläfter, OHG. clafthra, the stretch of the arms, a fathom.] The German fathom, a measure containing 6 local feet. The square klafter containing of the detail feet and the cubic klafter 216 cubic feet. The equivalent value in English measure varies with the length of the local foot which was the basis of the klafter. The Anstrian klafter was about 74\\$ English inches, that of Hamburg about 66\\$ inches.

ish Columbia.]
klaprothium (klap-rō'thi-um), n. [NL., <
M. H. Klaproth (1743-1817), a German mineralogist.] An early name for the metal cadmium. klaprotholite (klap'rōth-ō-līt), n. [Named after M. H. Klaproth (1743–1817), a German mineralogist.] A sulphobismuthite of copper, Cu₆Bi₄S₉, occurring in steel-gray orthorhom-

A small apparatus, designed to be carried by a kite, for obtaining records of atmospheric kleidograph (kli'dō-grāf), n. [Gr. $\kappa\lambda\epsilon i_{\mathcal{E}}(\kappa\lambda\epsilon\iota\delta$ -), key, $+\gamma\rho a\phi\epsilon\nu$, write.] A form of typewriter for embossing paper by the New York point system of writing for the blind. It consists essentially of a carriage for the paper, a small keyboard, and embossing mechanism operated by the keys. The keys are arranged in three ranks of four each, with two keys for capitals placed at the left, and with a space-key at the right. The two upper ranks are for the points used in forming small letters, and are numbered, the first rank being numbered 1357 and the second rank 2468, these numbers corresponding to the numbers of the fourth base of the New York point system. The third or lowest rank



Kleidograph,

a, carriage; b, keyboard; c, small-letter keys; d, compound keys; e, capital-letter keys; f, space-key.

consists of compound keys for making two impressions at one stroke, called first, second, third, and fourth compound key. The blind operator uses the left hand in handling the keys and moving the carriage, the right hand being free to read any form of tangible print or writing by touch. The characters are formed by combinations of the eight keys, each stroke or pressure on a key indenting the paper with one dot: a large percentage of all the letters are formed by touching two keys in succession and all can be formed by four motions. The keys of the lower rank make two indentations for one stroke at a great gain in the speed of the work. The machine automatically spaces the letters and the space key is used to separate the words and sentences. See *typewriter, 1, and *point1, 31. and *noint1. 31.

Kleinian (klī'ni-an), a. Of or pertaining to Felix Klein (1849-), the German geometer.-Kletnian function, group. See *function, *group! Klein solution. See heavy solution, under solution.

klementite (klem'en-tit), n. [Named after Dr. C. Klement of Brussels.] A silicate of aluminium and iron, related to the chlorites and occurring in dark olive-green scales at Vielsalm, Belgium.

kleptic, kleptocracy, kleptophobia. See *cleptic, etc.

K. L. H. An abbreviation of Knight of the Legion of Honor.

K-light (kā'līt), n. In spectroscopy, the light of the K-line of the spectrum, due to the incandescence of calcium vapor. This line, which lies in the extreme violet of the spectrum, is of high actinic power. Its presence in the light from the sun's atmosphere is ntilized in the photography of the solar prominences and in similar work. K-light (kā'līt), n.

klinker, n. See clinker.

klinocephalic, klinocephalism, klinocephalus, klinocephalus, See *clinocephalic, etc.

monial chambers or kivas, but as yet no one has definitely **kliphok** (klip'hok), n. [D. klip, eliff, + hok, indicated their positions.

Rep. Bar. Amer. Ethnol., 1895-96, p. 611.

pen or daugeon.] Iu South Africa, a ruined native stone hut.

klon, n. See *clon. klonal, a. See *clo See *clonal.

klona, a. see coma.

klootch (klöch), n. [A back-formation from klootchman.] Same as *klootchman.

klootchman (klöch'man), n. [Chinook jargon klootchman, < Nootka tlotsma, woman.] A woman, particularly an Indian woman. [Washington and British Columbia]

ington and British Columbia.] klop (klop), n. [Also clop; imitative.] A sound made by the fall or regular beat of a solid on a hard surface, as a horse's hoofs on a pavement. Also repeated, klop-klop.

klumene (klö'mēn), n. [Appar. Gr. κλύμενος, tamous: see Clymenia, *etymene.] In chem., the name first given to acetylene by its discoverer. E. Davy, who obtained it as a product of the action of water on crude potassium carbido formed in the preparation of metallic potassium.

knacker2, n. 4. A man who dismantles and sells the materials of old houses, ships, etc.

knackery (nak'e-ri), n.; pl. knackeries (-riz). [knacker² + -y³.] A yard for slaughtering worn-out horses; a knacker's yard. knacky (nak'i), a. [knack + -y¹.] Adroit; elever; adaptable; having a knack.

Knapsack sprayer. See *sprayer.

knee, n. 3. (e) In mech., the middle joint or elbow in a toggle-joint. (f) In anat., a knee-shaped part. See

5. In graphics, a break or abrupt change in a plotted curve.

On the rising curve there is seen to be a more or less well defined "knee" where the relation of stress to strain undergoes a marked change.

Physical Rev., Aug., 1904, p. 114.

6. A natural prominence; a rock, hill, or part of a hill.—Capped knee. See *capped.—Knee of the head, in ship-building, the large flat timber which is fayed edgewise upon the fore part of the stem.—Sprung knee, a forward bowing of the knee of the horse, mule, or ass, eaused by the shortening of the flexor tendons behind as a result of inflammation.

knee, v. i.—To knee ont, to break out at a right angle and return to the original direction.

knee-ball (nē'bâl), n. Same as *molula.

knee-board (ne'bord), n. A drag or tensionboard on a cotton-yarn winding-machine. R. Marsden, Cotton Waving, p. 257.

knee-boot (nē'böt), n. 1. A compressed leather shield for covering the side of a horse's knee. The wrapper is of soft leather or felt. -2. A boot which comes to the knee.

knee-hole (nē'hōl), n. The space under a desk occupied by the knees of one seated at the desk. [Local, Eng.]

knee-ill (ne'il), n. Same as navel-ill. Also joint-ill.

kneeing (nē'ing), n. An angular beuding or knee-shaped projection. Buck, Med. Handbook, III, 624.

knee-knapt (ne'napt), a. Same as knock-kneed. [Prov. Eng.]

kneelet (nē'let), n. [knee + -let.] A knee-piece in medieval armor, sometimes carrying a spike.

knee-lyre (ne'līr), n. Same as lira da gamba (which see, under lira2.)

knee-movement (ne'mov"ment), n. A device for operating a toggle-joint.

kneepan, n. 2. In entom., the femoral concavity into which the tibia is inserted. Kirby and Spence.

knee-pipe $(n\bar{e}'p\bar{i}p)$, n. An elbow; a bent pipe. knee-plate, n. 3. In ship-building, a small triangular plate fitted at the point of connection of the beam and frame to strengthen it.

knee-protector (në'prō-tek"tor), n. A pad used to protect the knee in roller polo, football, and similar games.

knee-punch (nē'punch), n. A punch which is bent to allow its being used through a narrow opening.

knee-stake (ne'stak), v. t.; pret. and pp. knee-staked, ppr. knee-staking. In leather-manuf., to stake or soften by aid of the knee. Flemming, Practical Tanning, p. 51.

knee-viol (nē'vī"ol), n. Same as viola da gamba (a) (which see, under viola1).

Kneiffia (kni'fi-ä), n. [NL. (Spach, 1835), named in honor of F. G. Kneiff (-1832), an apothecary and botanist of Strasburg.] A genus of plants of the family Onagraceæ. They

ing to the German 'beer-code.'

In whatever other respects the German student may be irregular, he always kneeps according to rule.

J. M. Hart, German Universities, p. 139.

Interview of the special strictly observed.

**Interview of the special strictly

knel, v. and n. A simplified spelling of knell. knez (kniez), n. [Serv. Slov. knez, Bohem. kněz (kniez), Russ. knyazŭ (kniaz) (Albanian knez), MGr. κνέζης, etc., a prince; connected with OHG. chuning, etc., AS. cyning, E. king.] Prince: a Slavic title of nobility equivalent to prince or duke, and sometimes implying sovereignty.

knickers (uik'erz), n. pl. A contraction of knickerbockers. Also used adjectively, in the form knieker: as, a knieker suit.

Knife, n.—Barlow knife, a pocket-knife having the name 'Barlow' on the handle. These knives were extensively used for many years, since they had excellent steel blades and were inexpensive. Also called Billy Barlow knife.—Graefe knife, a slender knife used in the operation of linear extraction of cataract.—Recording knife, the sapphire cutting-point of the phonograph. Scripture, Exper. Phonetics, p. 35.

knife-bar, n. 2. A metal bar with an acute edge employed on different machines with different functions.

knife-box, n. 2. Same as *griffe1, 3.

knife-box, n. 2. Same as *gripe*, 5. knife-bracelet (nif'brās**let), n. A narrow bracelet of iron, with a sharp edge which is usually covered with a strip of hide. The edge may be nncovered and the bracelet used to inflict wounds by a blow. Such knife-bracelets are worn by the Irenga and other tribes of the upper Nile. In other parts of Africa bracelets or arm-rings with attached knives or spikes are worn.

To guard themselves from capture, they [Reshiats or Darsonichs] wear a very sharp knife bracelet, and when fighting they remove the sheath.

Geog. Jour. (R. G. S.), XI. 383.

knife-fish (nīf'fish), n. A cyprinoid fish, Pelceus cultratus, found in eastern Europe.

knife-man (nif'man), n. A special workman employed in the more delicate and important part of archæological excavations in which it is necessary to substitute a kuife for a spade.

The patience of the few picked "knife-men" who lay or crouched in the trenches cutting through the compost of bones and pottery inch by Inch, was sometimes rewarded with unexpected treasures.

R. C. Bosanquet, in An. Brit. School at Athens, VIII. 294.

knife-roller (nīf'ro"ler), n. A roller with blades or knives, arranged spirally or otherwise, as on the knife-roller cotton-gin. Taggart, Cotton Spinning, I. 28.

knife-switch (nif'swich), n. In elect. a form of switch in which the circuit is closed by the insertion of a metallic strip pivoted, like a knife-blade, between metallic clips or springs.

knife-worm (nif'werm), n. Any cutworm. Knight of the brush, a painter.—Knight of the peatle, an apothecary.—Knight of the quill, a writer; an anthor.—Knights of Pythias, a secret fraternal order founded at Washington in 1864. It has an insurance or beneficial branch.—Two Knights' defense. See opening, 9.

knight-cross (nit'krôs), n. The scarlet lychnis or cross of Jerusalem, Lychnis Chalcedonica.

knight-fish (nīt'fish), n. A common name applied to Monocentris gloræ-maris, a berycoid fish found in Australia. Also called pine-cone fish.

knismogenic (nis-mō-jen'ik), a. [Gr. κυαμός, tickling, + -γενης, -producing.] Productive or provocative of tickling: as, knismogenic sensations. G. S. Hull, Adolescence, II. 95.

knitting-bur (nit'ing-ber), n. In a knitting-machine, a wheel with blades for carrying the yarn to the needles and clearing it from them while the web is forming.

knob, n. (i) A small flock, less than 30, of ducks: an English sporting-term.
knobble (nob'l), n. [Dim. of knob.] A small

knob or lump.

knobkerrie, knobkerry (nob'ker-i), n. [Cape D. knopkieri; as knob + kerrie, kirri.] See *kirri.

KNOCK, v. 1. trans. 3. 10 Speak 111 01 one. [College slang.]—To be knocked off (naut.), to be turned to leeward: said of a vessel when, by reason of the sea hitting her on the weather bow, her head is sent to leeward of the point toward which she had been looking.
—To knock down. (c) To take to pieces (as a machine or a barrel), for storage or for purposes of transportation; as, for barrels knecked down—so much. (d) See the extract.

A system known as "knocking down one's cheque" prevails all over the unsettled parts of Australia. That is to say, a man with a cheque, or a sum of money in his possession, hands it over to the publican, and calls for drinks for himself and his friends, until the publican tells him he has drunk out his cheque.

II. Finch-Hatton, Advance Australia, p. 222, quoted in [E. E. Morris, Austral English.

To knock up. (e) In cricket, to score runs by hitting. [Colloq.]

II. Intrans. 4. To keep up a system of annoying attacks; to keep striking or hitting until the other side capitulates or buys the knocker' off. [Political slang, New York.]

most anything within reason.

N. Y. Com. Advertiser, May 11, 1901.

knockabout (nok'a-bout), a. and n. I. a. 1.

knockabout globe-trotter; suitable to be knocked about in: as, a knockabout coat.—3. Noisy; full of horse-play: as, a knockabout entertainment; knockabout business. [Theat. slang.] - 4. In Australia, applied to a jack of all trades on a station.

II. n. 1. A traveler; one who has knocked about.—2. A performer in a knockabout play or sketch; the sketch itself. [Theat. slang.] -3. In Australia, a hand on a station who does a little of everything.—4. A small sailing-yacht of light construction and simple sail rig, the latter consisting of a mainsail and



a jib bent on a stay that is set up on the stem knot-maul (not'mâl), n. A maul which has a of the boat. These boats, as a rule, are flat-head made from a knot or other tough piece of bottomed, with a fin-keel, and can be handled wood. word quickly, going from one tack to another without apparently losing speed. Some knockabouts are provided with a center-board instead of a fin, for use in shallow waters.—

5. A small launch.

**Wood:

knot-pound (not'pound), n. A unit in terms of which the weight of copper and, indirectly, the electrical conductivity of a submarine or underground cable are expressed; one pound per nautical mile or knot.

differ from Enothera in their diurnal flowers, unequal stamens, and usually clab-shaped and often winged capsules. There are about 12 species, belonging chiefly to the castern United States, commonly known as stundarys.

kneip (knip), v. i. [G. kneipen, carouse, tipple, booze, fuddle, < kneipe, a pot-house, beershop: see *kneipe.] In German universities, to drink and be convivial at a 'kneipe,' according to the German 'beer-code.'

knob-grass (nob'gras), n. Same as *knob-grass (nob'gras), n. Same as *knob-grass (nob'gras), n. A person empire to the German 'beer-code.'

knocker-up (nok'er-up), n. A person employed, especially in util towns, to go about and waken those whose work requires them

to be up early.

knocking, n. 5. The practice of persistent attack with ulterior motives. See *knock, v. i., 4.

knock-out, a.-Knock-out attachment, an attachment to a sheet-metal press used to knock the finished ware off the dies; a form of ejector. It is automatic and is made in several forms. — Knock-out drops. See

II. n. 1. In pugilism, the act of rendering insensible; a blow which produces insensibility.—2. A knock-off; a release; specifically, a device for allowing a valve in a spring-testing machine to open when the ram encounters a resistance.

knop, n. 6. A loop or tuft in two- (or more) ply yarn produced in doubling for ornamental purposes

knop-fly (nop'fli), n. Same as *knob-fly.
knopite (knop'it), n. [G. knopit (1894), named after Professor A. Knop of Karlsruhe.] A titanate of calcium and cerium occurring in lead-gray isometric crystals. It is intermediate in composition between perovskite and dysanalyte.

There are several ways of getting into Tammanv Hall. One is to be born there; and another is to work your way up in; a third is to lower yourself down in. The fourth, and a very successful way, is what the Tammany men call "knockin'." This is to fight Tammany Hall until the organization opens and receives you, paying in return almost anything within reason. whose surfaces present inclined overlapping ridges. N. Y. Com. Advertiser, May 11, 1901.

knockabout (nok'a-bout), a. and n. I. a. 1.
Noting something which knocks (other things) about; rough; buffeting; boisterous: as, a knockabout game of foot-ball.—2. Accustomed to knock about or to be knocked about: as, a knockabout globe-trotter; suitable to be knocked about in: as, a knockabout globe-trotter; suitable to be knocked about in: as, a knockabout coat.—3.
Noisy; full of horse-play: as, a knockabout entertainment: knockabout successful as knockabout entertainment: knockabout entertainment enter



Double Overhand Knot.

by laying back the bight of a rope near the end, by laying back the bight of a rope near the end, then winding seven turns around it from left to right, and passing the end back under all the turns. This makes a slip-noose and a long cylindrical knot through which the hauling part of the rope travels freely.—Loop-knot, any knot which forms a loop, such as a bowline.—Oldgranny knot. Same as granny's-knot.—Stopper knot. See stopper-knot.—Vital knot, the 'nœud vital' of Flonreus; a small area of the ollongata, destruction of which means instant death, and which has therefore been regarded as preëminently the vital center.

The vital knot of Flonreus; is the vital center.

The vital knot of Flourens is the vital center and must also be the center of pleasure and pain, which are merely alterations in the functions of organic life.

G. Sergi, quoted in Ribot (trans.), Psychol. Knot. [of Emotions, p. 28.

knot-grass, n. 3. (e) The joint-grass, Paspalum distichum. See Paspalum.— Knot-grass moth. See **grass-moth.*

knot-hole (not'hōl), n. A hole in a board or plank formed by the falling out of the piece of a knot, node, or knur left when the plank was sawed.

knot-horn (not'hôrn), n. A collectors' name for any physitid moth: so called because the males of this family frequently have a swollen basal antennal joint. Cambridge Nat. Hist., VI. 424.

knotless (not'les), a. [knot + -less.] Without a knot, in any sense of the word; with the knots removed or untied.

per nautical mile or knot.

690

knot-root (not'röt), n. Same as *kuob-root. knotter, u. 2. In textile-mauuf., a hand-device for mechanically tying together two ends of

yarn or thread. - 3. The mechanism in a harvester and in the bindingknotty-horn cerambycid

Barber Knotter. a_i strap for fastening on the hand; b_i thumb-piece; c_i knotter and cutter; d_i thread-guide.

color, with the basal part of the clytra orange. Its larvæ bore into the stems of elder. Comstock, Manual of Insects, p. 570.

knotty-pated (not'i-pā"ted), a. A doubt-ful term, either genuine and meaning 'having a knotty or lumpy pate,' or, sim-ply, 'having a hard (wooden) pate,' or a mistake for not-pated (which is also nsed by Shakspere).



(Desmocerus palliatus.) Enlarged one third.

Why, thou . . . knotty-pated fool, thou . . . ob-scene, greasy tallow-catch. Shak., 1 Hen. IV., ii. 4.

knotwork, n. 2. A kind of faney-work made of thread, yarn, etc., by tying knots. It is usually finished with a crocheted edge.

knot-writing (not'rī'ting), n. A mnemonic Kobell's test. See *test1. device consisting of strings in which a num-kobong (kō'bong), n. [Aboriginal Australian.] ber of knots are made, the number and order tribes unfamiliar with the art of writing - for instance, by the Australians, the California Indians, and also by the Peruvians. See quipu.

One of the few advantages that India has over England is a great knowability. . . At the end of twenty years [a man] . . knows, or knows something about, every Englishman in the Empire.

R. Kipling, Indian Tales, p. 489. N. E. D.

knowledge, n.—Dynamic knowledge, knowledge that effects changes, especially in conduct and social relations. Ward, Dynamic Sociol, 11. 509.

Knox beds, dolomite. See *bed1, *dolomite.

Knoxville beds. See ★bcd1.

knoxvillite (noks'vil-it), n. [Knoxville (see def.) + -ite².] A hydrated sulphate of ferric iron, chromium, and aluminium occurring in greenish-yellow rhombic plates: found at the kodak (kō'dak), v. [kodak, n.] I. trans. To Redington mercury-mine, Knoxville, Califor-photograph with a kodak.

K. N. S. An abbreviation of Knight of the

When a small knuckle of intestine has slipped into a narrowing there is no strangulation at once and fecal matter enters the knuckle through its upper entrance.

Med. Record, Feb. 28, 1903, p. 350.

The game played with dibs or knuckle-bones.

He became one of the leading players at knuckle-bones, which all jhampanis and many saises play while they are waiting outside . . . of nights.

R. Kipling, Indian Tales, p. 34.

knuckle-kneed (nuk'l-nēd), a. Having very prominent knees.

knuckle-post (nuk'l-pōst), n. One of the two cross-arms in a knuckle-joint; specifically, the vertical post carrying the stub-axle in the steering-knuckle of an automobile.

Throughle-throad (nuk'l-pōst), n. One of the two koettigite (kėt'ig-īt), n. [Named (1850) after Otto Koettig, who first analyzed it.] A hydrous arseniate of zine, cobalt, and nickel, related to vivianite in form and composition.

steering-knuckle of an automobile. knuckle-thread (nuk'l-thred), n. thread which has a large round at the top and bottom.

binder which knuckling (nuk'ling), n. A deformity of the ties the knots fetlock-joint, caused by a shortening of the tendons behind, which results in throwing cord.

knotty-horn
(not'i-hôrn), n.

An American knurl, n.

3. In photog., a milled-edge roller

used for dotting and softening outrunning lines

beetle (the eloaked knotty-knurled, a. 3. Milled: said of the serrated horn), Desmo-edge of a coin. Also called knarled. See mill¹, 4. cerus palliatus, \mathbf{ko}^2 ($\mathbf{k\bar{o}}$), n. [Chinese ko, prop. the culm of the dark-blue in bamboo, hence a stick, piece, thing, as a constant of the dark-blue in the constant of ventional term of enumeration.] A Chinese unit of customary enumeration, in connection with certain classes of things: as, yi ko jin, a man or 'one man' (usually rendered in pidgin-

English 'one piecey man').

koae (kō-ä'ā), n. [Hawaiian.] The white-tailed tropic-bird, Phaëthon leucurus, which is found

in the Sandwich Islands.

in the Sandwich Islands.

koali (kō-ā'lē), n. [Hawaiian koali, ⟨koali, koai, creep around.] In Hawaii, a name for several vines belonging to the genus Ipomæa.—Koali-ai (edible convolvulns), Ipomæa tuberculata, a stout twiner with a tuberous root which was formerly used by the natives as food in times of scarcity. The stems are strong and durable and are used by the Hawaiians as cordage. The plant is distributed over tropical Asia and parts of South America.—Koali-awahia (bitter convolvulns), Ipomæa congesta, a stout twiner, the root of which is a powerful cathartic, much used in native medicine. It occurs in the Hawaiian, Tongan, and Fijian islands, the Ladrones, Norfolk Island, and on the east coast of Australia.

kobbera, n. See *cobbra. Kobell's test. See *test1.

In West Australia, the totem animal of a clan. of knots serving the end of recalling certain **kobu** (kō'bō), n. [Jap.] An important broad-objects or events: used by many primitive fronded, edible seaweed, Laminaria saccharis (which see, under *Laminaria*), found on the coasts of Japan, and especially of Yezo, the most northerly of the four large islands, where

named from Kochelwiese, in Silesia.] A mineral closely related to fergusonite: found in the granite of the Kochelwiese, Silesia. Koch's comma bacillus, Koch-Weeks bacil-

lus. See *bacillus.

kodak (kō'dak), n. kodak (kō'dak), n. [An arbitrary word invented as a trade-mark.] A hand-camera, of a special make, designed for taking instantaneous photographs; hence, any similar camera.

II. intrans. To take photographs with a kodak; nse a kodak.

North Star (Sweden).

knuckle, n. 8. A sharply bent loop, as of kodak.

intestine, especially when imprisoned, as in a Kæberlinia (keb-er-lin'i-ä), n. [NL. (Zuccarini, 1832), named after C. L. Koeberlin, a genns of dicotyledon-Bavarian botanist.] A genus of dicotyledonous shrubs or small trees, the type and only ons surros or sman acces, and the acces, and the accessing species, K. spinosa, is a native of western Texas and northern Mexico. It is characterized by the stiff green branches ending in firm thorns, scale-like caducous leaves, and small white flowers in lateral racemes near the ends of the branchlets. See *junco2.

common link-coupling may be used with the condensation of the single monotypic genus Kæber-apply one's self convinced, in the wrong, or beaten. (b) To apply one's self carnestly.

knuckle-bone (nuk'l-bōn), n. 1. A bone in a kællia (kél'i-ā), n. [NL. (Moench, 1794), named in honor of Johann Ludwig Christian koelle (1763-97), a German physician and kaelle (1763-97), a German physician and kaelle (1763-97), a German physician sand kaelle (1763-97).

Koelle (1763-97), a German physician and botanist.] A genus of dicotyledonous plants belonging to the family Menthaccae. See Pycnanthemum.

koenenite (kėn'e-nit), n. [Named after Dr. A. von Koenen.] A hydrated oxychlorid of aluminium and magnesium occurring in red kokoon (kō-kön'), n. Same as cocoon2 and cleavable masses.

Koheleth (kō'hā-let), n. [Heb. qōhēleth, a word of uncertain meaning, but appar. connected with qalial, congregate, and hence translated in the Septuagint version of Ecclesiastes 'member of an assembly,' but understood by Jerome and later authors as 'Preacher.'] 1. The book of Ecclesiastes, traditionally ascribed to King Selomon.—2. One of the six traditional surnames of King Solomon: said to have been applied to him because his words were spoken in public gatherings. The other five were Jedidiah, Agur, Jakah, Lemuel, and Itiel.

Kohlrausch's law. See *law1.

kohua (kô'hö-ä), n. [Maeri.] 1: A native Maori oven. This consisted of a hole in the ground, containing heated stones, in which the food was placed in baskets. Water was then poured on the stones, and the whole covered up to keep in the steam till the food was properly cooked. See *umu.

whole covered up to keep in the seam in the food was properly cooked. See *kunu.

2. A three-legged iron pot or kettle; a 'go-shore' or 'go-ashore.' [New Zealand.]

koi (kō'ē), n. [Jap.] The common carp, Cy-

prinus carpio, found in the rivers of Japan. koilonychia (koi-lō-nik'i-ä), n. [Gr. κοῖλος, hollow, + ὀνυξ (ὀνυχ-), finger-nail.] A spoon-shaped finger-nail with surface concave instead of convex.

koilorachie (koi-lō-rak'ik), a. [Gr. κοίλος, hollow, $+ \dot{\rho}\dot{a}\chi$ ic, the spine.] Having a spinal column with a lumbar curve concave forward, er with a lumbovertebral index of more than

koji (kč/jē), n. [Jap. kōji.] A ferment used by the Japanese in making sake or rice-wine. It is produced by leaving steamed rice exposed to the air at ordinary temperature until a fungus growth makes its appearance. Used as an infusion, it acts upon starch, converting it into maltose and dextrine, and ultimately into glucose susceptible of alcoholic fermentation.

kokam (kō'kam), n. [Hindi.] Same as *cor-

kokio (kō-kē'ō), n. [Hawaiian, prop. a shrub or tree.] A name in Hawaii of several species of malvaceous shrubs or trees belonging

Indians, and also by the Peruvians. See quipa.

Ratzel (trans.), Hist. of Mankind, I. 344.

knowability (nō-a-bil'i-ti), n. The quality or condition of being (easily) recognized, known, or comprehended.

knowability (nō-a-bil'i-ti), n. The quality or kobza (kob'zä), n. [Russ., Little Russ., Pol. kobza, Turk. kopuz, a pandora.] A rude lute used in Little Russia.

kobza (kob'zä), n. A native name of pheasants of the genus Pucrasia, which are distinguished by the long crests and ear-tufts of the males. These pheasants are found through the Himalavas frem Afghanistan to Manchuria.



longing to the genus Euphorbia, and particularly of E. lorifolia. This is a tree 12 feet high, found at high elevations, and is much used as fire-wood.

kokong (kō-kông'), n. [Also kokoon, cocoon; Sechuana khokong or kgokoñ.] The brindled gnu, Catoblepas taurina.

kokopu (kō'kō-pō), n. [Maori.] A fish, Ga-laxias fasciatus, of the family Galaxidæ, found in Australian waters. See *cockabully. Also konarite, n. An incorrect spelling of *consometimes applied to other fishes of the same family.

kokowai (kō'kō-wī), n. [Maori.] Red ocher. [New Zealand.]

koku (kô'kö), n. [Jap.] A liquid and dry measure used in Japan. As a liquid measure it is equivalent to 47.6 United States gallons'; as a dry measure, to 5.11 United States bushels.

kola, kolanine, kola-nut, kola-red. See *cola², *colanine, cola-nut, *cola-red. kolea (ko-la´a), n. [Hawaiian.] The Pacific golden plover, Charadrius dominicus fulrus, which makes a wonderful trip from Alaska to the Sandwich Islands.

kolkol (kol'kol), n. [Southern Maidu (California).] Shell money of the Californian Indians, made of Olivella biplicata. The word land, the fruit of the kotukutuku or native was in use in central California.

kolloxyline, n. 2. A substance closely related to celloidin, and used like it in histological technic: said to be more readily

[Heb., 'all vows.'] kol nidre (köl nid'rā). The opening words of the most solemn prayer of the Jewish ritual for the eve of the atonement fast. It is chanted three times by three pions members, including the hazzan, or cantor. The reformed communities of America and Europe have discarded it, owing to the fact that it seems to release the supplicants from all vows from one Day of Atonement until the next, according to one of its declarations.

kolokolo (kō-lō-kō'lō), n. [Hawaiian, a creeper, < kolo, creep.] A name applied by the natives in Hawaii to a number of plants with a creeping or prostrate habit.—Kolokolo kuahlwi ('mountain creeper,') Lysimachia Hillebrandi, a species of loosestrife with dark-purple sweet-scented flowers, found on the highlands of Kanai.

kolpohysterectomy, n. See *colpohysterec-

komatik (ko-mä'tik), n. komatik (ko-mä'tik), n. [Labrador.] A sledge used by the people of Labrador. kombe (kom'bā), n. [Native African name.]

kombe (kom'bā), n. [Native African name.]
A rambling or climbing shrub of the dogbane

family, Strophan-thus Kombc, native of East Africa. It furnishes a part of the officinal Strophanthus seeds used in medicine. See Strophanthus.

kombic (kom'bik), a. Noting an acid, a little-known compound of uncertain properties and composition, found in Strophanthus seeds.

kombo (kom'bō), n. [African.] A ceremonial form of greeting, employed by chiefs in many parts of Africa.

(kom'bö),
ap.; Chin.
] A Japanarse, edible
d, also called
(which see),

Kombe (Strophanthus Aomoe).
a, branch with leaves and flowers,
out third natural size; \(\text{to}\), corolla,
laid open, the attenuate lobes restamen, front and side view, natural
size; \(\text{d}\), psittly, uatural size; \(\text{c}\), portion of follicle, one sixth natural
size. kombu n. [Jap.; Chin. Kun-pu.] A Japanese coarse, edible seaweed, also called

*kobu (which see), size.
great quantities of which are gathered on the coasts of Yezo and elsewhere and prepared kop^2 (kop), n. [D. kop = E, cop^3 , eup.] In Holfor use as pickles, seasoners, relishes, vegetables, sweetmeats, and, in powdered form, as tea. See the extract.

Kombe (Strophanthus Kombe).

Kombu is one of the staple foods of the country [Japan], entering into the dietary of almost every family and being eaten alone as a vegetable or as a seasoning for meats, fish, stews, etc.

Nat. Geog. Mag., May, 1905, p. 218.

Kome beds. See ★bed1.

komenic, a. Incorrect form for *comenic. kommers (ko-mars'), n. [G. kommers, also Incorrect form for *comenic. kommersch, a particular pronunciation, among students, of kommerz, commerz, commerce, trado, intercourse, society, drinking-club, etc.; (L. commercium, commerce : see commerce.] A social gathering of German university students

at some place of entertainment. Come in; Come in. You shall see some sport. A Fox [Freshman] commerce is on foot and a Regular Beer-Kophobelemnonidæ (kō-fō-bē-lem-non'i-dē), Scandal.

**Longfellow, Hyperion, lv. n. pl. [NL., < Kophobelemnon + -idæ.] A

kommos, n. See commos. kona (kō'nä), n. [Hawaiian kona.] The south-west wind that sometimes occurs in the Ha-

Also konarite, n. An incorrect spelling of *con-

Kongo colors.

Konieprusian (ko"ni-ā-pro prus + -ian.] In geol., a term augrapus + -Kongo colors. Same as direct cotton *colors.

koniscope, n. See *coniscope.

konje (kon'je), n. [Native African name.] A valuable fiber-plant, Cordyline Guineensis, yielding African bowstring hemp. See Sansevieria.

konnarite, n. See *connarite.

konzi (kon'zi), n. [African.] Lichtenstein's hartbeest, Bubalis lichtensteini, a large African antelope which inhabits the Zambesi region. It has rather small ringed horns that bend upward and outward, then inward, and, finally, backward.

koobery (kö'be-ri), n. [Also kooberry; from an aboriginal Australian name.] A fish, Therapon richardsonii, of the family Hæmulidæ, found in Australia.

koodoo, n. 2. One of the bushbucks, Tragelaphus selousi, which inhabits the swampy regions of central and eastern Africa.—Greater koodoo, Strepsiccros kudu, rapidly being exterminated in most parts of its range.—Lesser koodoo, Strepsiccros kudu, rapidly being exterminated in most parts of its range.—Lesser koodoo, Strepsiccros in berbis, a species smaller than the common koodoo, lacking the fringe of hair beneath the throat, and having horns more closely twisted. It appears to be confined to Sonaliland and the region about Kilimanjaro.

kookaburra (kö-ka-bur'ä), n. [Also gogobera, gigas, a large species of kingfisher. The name is extensively used about Sydney and is given by E. P. Ramsay in his "Catalogue of Australian Birds." See cut under Dacclo.

koolaman, kooliman (köl'a-man, -i-man), n. Same as *coolamin.

koontee, koonti, n. See coontic. koosin (kö'sin), n. Same as *kosin.

kootchar (kö'char), n. [Aboriginal Australian.] An Australian stingless bee probably belonging to the genus Melipona. Cambridge Nat. Hist., VI. 63.

kop¹ (kop), n. [D. kop = E. cop¹. Compare *kopje.] A small hill. [South Africa.]

The three field batteries then came into action against a high tableland kop which formed the right of the held position, the advance remaining checked the while.

L. James, in War's Brighter Side, p. 347.

land, the name given to the liter when used as a dry measure.

kopang (kō'pāng), n. [Malay kopang, kupang; ef. cobang, kobang.] An old money of account at Penang, equal to a tenth of a United States dollar.

koph (kōp, kōf), n. [Also qoph; Heb. $q\bar{o}p$, $q\bar{o}ph$, Plen. $*q\bar{o}p$, whence Gr. $q\bar{o}\pi\pi a$, $\kappa\bar{o}\pi\pi a$.] The nineteenth letter ($\bar{\rho}$) of the Hebrew alphabet, corresponding to the Roman q. Its numerical value is C.

Kophobelemnon (kō-fō-bē-lem'non), n. [NL., ⟨Gr. κωφός, dull, dumb, + βέλεμνον, dart.] A widely distributed genus of sea-pens, typical of the family Kophobelemnonidæ. Asbjörnsen, 1856.

n. pl. [NL., < Kophobelemnon + idæ.] A family of pennatulacean alcyonarians having the polyps on both sides of the elongate (In the Pennsylvania Museum, Philadelphia.) eylindrical rachis in a single series or in in- tulu minor, the smallest member of the group.

without polyps. It includes the genera Kophobelemnon,

n. [As koproster(ol) + -in².]
Same as *koprosterol. koprosterol (ko-pros'te-rol), n. [Gr. κόπρος, dung, + (chole)sterol.] A colorless dextrorotatory compound, C₂₅H₄₄O, found in human

tatory compound, $C_{25}H_{44}O$, found in human feces. It is a derivative of cholesterol, which it resembles in general properties, and is possibly identical with stercorin. It forms long, slender, pliable needles melting at 95-96° C. Also called koprosterin.

Kopt, n. See Copt'e.

Koptic, a. and n. See Coptic.

koradji (ko-rä'ji), n. [Also coradgee, karáji, etc.; native Australian.] A shaman or medicine-man of the Australian aborigines cine-man of the Australian aborigines.

cine-man of the Australian aborigines.

Korahite (kō'ra-īt), n. [Korah + -ite².] In Jewish hist., a descendant of Korah (1 Chron. vi. 22, etc.), the great-grandson of Levi. The Korahites ("sons of Korah") distinguished themselves in the Levitical services as singers in the temple. Certain Psalms (xlii., xliv., xlv., etc.) are superscribed as "for the sons of Korah."

korakora (kō-rā-kō'rā), n. [Also coracora, korocora, etc.; 'K Malay kōra-kōra: see *caracoa.] A Malayan boat, formerly in use, having a high curved stem and stern.

ing a high curved stem and stern.

koranolatry (kō-ran-ol'a-tri), n. Worship of

or reverence for the Koran.

From Lully down Mohammedans have been the hardest to convert. Heresy and apostasy from koranolatry is here treason.

G. S. Hall, Adolescence, 11. 725. a species with rather short, heavy, lyrate horns, which inhabits Central Africa from Senegal to Somaliland.

korimako (kō-ri-mä'kō), n. [Maori.] the New Zealand bell-bird, Anname for

name for the New Zealand bell-bird, Anthornis melanura.

korin (kō'rin), n. [W. African.] A species of gazel, Gazella rufifrons, found in Senegal, Africa.

kornerupine (kôr-ne-rō'pin), n. [Named (1885) after A. N. Kornerup, a Danish geologist.] silicate of aluminium and magnesium, MgAl₂SiO₆, occurring in from colorless to



white fibrons or columnar aggregates: found at Fiskernäs, Greenland. Prismatine. from Waldheim, Saxony, is a similar mineral.

koro² (kō'rō), n. [Jap. kōrō.] A Japanese incense-burner or censer, usually of bronze, iron, or pottery.

korora (kō'rōrä), n. [Ma-ori.] A Maori name, to some extent adopted 9.8 \mathbf{a} common name, for the little pen-

guin, Eudyp-

korrel (kor'el), n. [D., a grain, a decigram, a particle, crumb; = E. kernel.] In Holland, the name given to the decigram

korroboree, n. and r. See corroboree.

korumburra (kor'um-bur-ä), n. [Aboriginal koyan (kō'yan), n. A brown-and-yellow flesh-fly. Anstralian.] A brown-and-ye E. E. Morris, Anstral English.

kosher (kô'shèr), v. t. To make 'kosher,' or ceremonially correct.

kosin (kō'sin), n. [koso (kosso, kusso) + $-in^2$.] kozo (kō'zō), n. [Jap. kōzo.] A sulphur-yellow tasteless compound, $C_{23}H_{30}$ mulberry, Papyrius papyrifera. O₇, obtained from cusse. It does not preëxist O₇, obtained from cusse. It does not preexist in the drug, but is a decomposition-product **K**, **P**. An abbreviation (a) of Knight of St. of kosotoxin. It is physiologically inactive. Patrick; (b) of Knights of Pythias. Also kussin, koussin, koscin, kusscin, and Kr. 1. The chemical symbol for the element krypton.—2. [l. c.] An abbreviation of

kosmochlore, n. See *cosmochlore.

kosmochromite (kos "mō - krō 'mīt), n. [Gr. K. R. κόσμος, ornament, + γρώμα, color, + -ite².] Redeer Same as *cosmochlore.

kosotoxin (kō-sō-tek'sin), n. [koso, otherwise cusso, + toxin.] A yellowish, amorphous compound, $C_{26}H_{34}O_{10}$, obtained from cusso, the pistillate flowers of the Abyssinian tree Brayera anthelmintica. It is anthelmintic.

koswite (kos'wit), n. [Kosw(insky), a locality in Perm, northern Ural, + -ite².] In petrog., a variety of pyroxenite composed of diopside-diallage, with small amounts of olivin, horn-locale. blende, magnetite, and chrome-spinel. The characteristic feature is the texture produced by the magnetite, which is about 16 per cent. of the rock and forms a matrix for the other constituents.

kotal (kō'tal), n. [Pushte kōtal.] In Afghanistan, a mountain pass; the summit of a pass.

We . . . reached the kotal in an hour.

Lord Roberts, Forty-one Years in India, II. 147.

Kotari (kō-tä'rē), n. One of the miner Dravidian languages of India speken by the Ko-

kotschubeite (kot-shö'be-īt), n. after a Russian count, P. A. von Kolschubei.] A rose-red variety of clinochlore containing several per cent. of chromium oxid.

köttigite, n. See *koettigile.

kotuku (kō'tö-kö), n. [Maori.] The New Zealand white heron, Ardea timoriensis: like other herons miscalled a crane.

kotukutuku (kō-tö-kö-tö'kö), n. [Maori.] New Zealand, a small ernamental tree, Fuchsia Krakowiak (krä-kö'vi-äk), n. excorticata, which belongs to the evening-primbark, and its wood, which is soft and useless, contains much tannic and gallic acids. It bears red-purple flowers about an inch long and a pleasant, edible fleshy berry called by the natives konini. The name is more commonly shortened to tookytook, a corruption of the aboriginal name. Also called native fuchsia.

Karal, Markaral, Michael Charles and the Great, Charl.

kotwalee (kot-wä'lē), n. [Also kotwallee, cutwallee, < kotwal, cutwal, a police officer: see

cutval.] A pelice station. [Angle-Indian.] kou (kō'ö), n. [Hawaiian.] In the Hawaiian Islands, a name of Cordia subcordata, a tree belonging to the borage family, from which

koueme (kö-ā'me), n. [Native name in East Africa.] A tall, climbing plant of the gourd family, Ampelosycios scandens, with stems from 50 to 100 feet long and bearing large, fleshy fruits which sometimes reach 60 pounds in weight. It is a native of eastern tropical Africa and is much cultimate. koueme (kö-ä'me), n. [Native name in East Africa.] A tall, climbing plant of the gourd and is much cultivated by the natives there and in the Mascarene Islands for its large oily seeds, which are boiled and used for food.

kourgan, kourgane, n. Same as *kurgan.

kouse (kous), n. [Also cous, cows, and cowish, of Amerindian origin: see cowish².] A native name for Lomatium Cous and other species of the same genus, umbelliferous foodplants of the Columbia River region.

The Sioux Indians beat dried wild cherries with buffalo meat to form their winter stock of penimican. In Oregon and Washington an immense amount of food was gathered from the camass root, and also from the kouse root.

Yearbook U. S. Dept. Agr., 1899, p. 308.

koussein, koussin, n. Same as *kosin.
kowdie (keu'di), n. An imperfect rendering of kauri, a New Zealand tree. See kauri-pine.

Krause's corpuscle or end-bulb. See *corkowhai (kô'hwī), n. [Maori.] In New Zealand, either of two trees of the bean family, kraut-cutter (krout'kut"er), Sophora tetraptera and Clianthus puniceus. The first has yellow flowers, and is further distinguished as yellow kouchai or locust-tree, while the second, with red flowers, is called searlet kouchai, parrot's-bill, or kaka-bill. See Clianthus and *goai.

kowl (koul), n. [Also cowl, cowle; < Hind. Ar.

engagement. [Anglo-Indian.]

[Malay köyan.] Malayan measure used in stating heavy K. R. E. weights, as of cargoes. It varies from 30 to 40 piculs. In the Straits Settlements it is equal to 40 piculs. In the Straits Settlements it is equal to 40 piculs whereatinic, kreatoxicon, kreato or 5,333.333 pounds avoirdupois; in Penang it is equal to 5,705,143 pounds.

mulberry, Papyrius papyrifera. See Brous-

kreutzer.

An abbreviation of Knight of the Redeemer (Greece)

kra (krä), n. [Malay krā.] A Malayan name of the crab-eating macaque, Macacus cynomulgus, widely adopted as a book-name.

ppr. kraaling. [kraal, n. Compare corral, v.] To place (cattle or sheep) in a kraal or shed for shelter or safe-keeping. See kraal, n.

If goats are to produce the best fleeces they are capable of they must be maintained in uninterrupted good condition. They must have a variety of food, principally shrubs and aromatic plants, and lead sn active life; they must, if possible, have running water to drink, and be kept free from dust; they must not be kraaled (or shedded) except when absolutely necessary; they must have clean sleeping places, and must not be crowded dogether.

crowded together.

Yearbook U. S. Dept. Agr., 1901, p. 278. krach (kräsh), n. [F., < E. crash, n.] A 'crash'

It must suffice to say that in the following May the great Vienna "Krach" occurred, and the colossal bubble of speculation burst, bringing with it all the rnin foretold by Lasker and Bamberger.

Encyc. Brit., XXV. 472.

krait (krit), n. [Also karait, korait; < Hind. karait.] A small snake, Bungarus cœrulcus or B. candidus, extremely venomous, and common throughout the greater part of the Indian subregion. It is all the more dangerous on account of its small size, and is believed to be responsible for a large share of the 20,000 deaths caused by wild animals that occur annually in India.

At the end of an honr he died as they die who are bitten At the end of an non-set by the little karait.

Kipling, The Recrudescence of Imray.

Some as

Same as Craeovienne.

rral (kräl), n. [Bulg, Sorbian kral, Serv. kralj, Bohem. král, Pol. krol, Russ, koroli, Albanian kralj, Turk. kral, keral, MGr. κράλης, Lith. karalius, Lett. kralits, a king; < OHG. Karl, Karal, ML. Carolus, the name of Karl the Great, Charlemagne the emperor of Germany: see carl. Compare cæsar, Russ. tsar, emperor, etc., from the name of Julius Cæsar.]
The title of the kings of southern Slavenic countries.

Brought Sisvan the *Kral* of Bulgaria to his knees. *Poole*, Turkey, p. 42.

and a current coin, valued at 710 United States

cents or one tenth of a toman.

krans (krans), n. [D. krans, wreath, rim, cornice, in S. Africa the overhang of a cliff: see The overhang of a cliff; a precipicrants. tous wall of rock which surrounds a valley. Also krantz. [South Africa.]

Behind the boulders, a narrow belt of trees in full dark-green foliage; and above, hemming in the view, the grim rusty-brown or purple *trantzes* and alternating slopes, clad at the dry seasons with faded scrub and trees, rising grandly up to the even edge of the plateau. **Geog. Jour.* (R. G. S.), Feb., 1908, p. 140.

Kraunhia (krou'ni-ä), n. [NL. (Rafinesque, kryofine (krī'ō-fin), n. 1808), probably from a personal name.] A (paraf)fine.] A color genus of climbing leguminous plants compound formed by heating

n. A hand-ma-

krautweed (krout'wed), n. Either of two cruciferous plants, Brassica arvensis, the char-

qaul, speech, word, saying, vow.] A written lock, also called crowdweed, and Raphanus Raphanistrum, the wild radish, sometimes called white charlock.

Things for which we need a kowl. called white charlock.

R. Kipling, in Pearson's Mag., Dec., 1897, p. 622. K. R. C. An abbreviation of Knight of the Red

An abbreviation of Knight of the

kreatoxin.

krebspest (krebs'pest), n. [G., ⟨ krebs, crawfish, + pest, disease.] A bacterial disease of crawfish, prevalent on the continent of Europe.

The crayfish disease, 'Krebspest,' for years past wide-spread and destructive in Europe, but here unknown. The anthor and his assistant have made a special re-search on this subject and have described as the cause of the disease Bacterium pestis astact. Science, July 1, 1904, p. 15.

kreoform, n. See *creoform. kreolin, kreophagism, kreosol, kreotoxism, kresol. See *crcolin, *crcophagism, creosol, ereotoxism, cresol.

*creotoxism, cresol.

Kressenberg beds. See *bcd1.

kriegspiel (krēg'spēl), n. [G. kricg, war, + spiel, game.] A game designed to teach the principles of strategy and tactics. Two opposing combatant forces are represented by blocks made to the scale of the map upon which the game is played. These blocks represent the tactical units of each arm. The game is played by the commander of each force, and is supervised by an umpire. Until the forces are actually in sight of each other they are so screened that neither commander sees the operations of the other. Each move or change of position corresponds to a given interval of time. As chance is an element of warfare, it is represented in the game by the throwing of dice and reading the consequences in a table of possibilities.

krinin. krinogenic. See *crinin, *crinogenic.

krinin, krinogenic. See *crinin, *crinogenic. Krishnaism (krish'na-izm), n. [Krishna + Krishnaism (krish'na-izm), n. [Krishna + -ism.] The worship of Krishna (which see). Krishnaism is of comparatively recent origin. A mass of absurd and licentious rites and practices, it enjoys a corresponding popularity throughout a great part of India.

Krishnaist (krish'na-ist), n. One who worships the Hindu deity Krishna. See Krishna and *Krishnaism.

kriss, n. Same as creese

Krohn's gland. See *gland. kromskop (krom'skop), n. A trade-name of the *chromascope (which see).

krone, n. 3. A current silver coin of Austria and the Austrian dependencies, equal to 100 heller or 20 ^{3.0}/_{3.0} United States cents.

Kronocentric (kron-ō-sen'trik), a. [Gr. Κρόνος, Saturn, + κέντρον, center, + -ic.] Relating to

the planet Saturn as a center, or to the center of Saturn. Science, Jan. 29, 1904, p. 163.

kroumatic (krö-mat'ik), a. [Prep. (in Latinized form) *crumatic; < Gr. κρουματικός, < κροῦμa(τ-), a stroke, a beat, $\langle κρούεω, strike, beat.]$ Sounded or produced by striking: said of musical instruments or tones. Hence—Kronmatic music, instrumental music in general.

Hardened by the Krup; Krupped (krupt), a. process; Kruppized.

One calibre of Harveyed steel, or \$ calibre of Krupped rmour.

Encyc. Brit., XXXI. 355. Kruppize (krup'iz), v. t.; pret. and pp. Kruppized, ppr. Kruppizing. [Krupp (see def.) + -ize.] To subject a steel armor-plate to the Krupp process of manufacture, by which the face is made very hard to a considerable depth, while the body of the plate remains softer.

Owing to the great severity of the ballistic tests, which necessitates the employment of a Kruppized process, it is impossible . . . to furnish the armor at the prices stipulated by Congress as the maximum that can be paid.

Army and Navy Register, June 3, 1899.

Army and Navy Register, June 3, 1899.

kruzhka (krözh'kä), n. [Spelled erroneously, in G. and F. style, krusehka, kruehka, etc., < Russ. kruzhka, a jug, tankard, cup, also a liquid measure; dim. of Pol. kruzh, Polabian kreuz, a jug, etc.: cf. MHG. krūse, G. krause; E. crusc.] A Russian liquid measure equivalent to 0.32 of a United States gallon. Also krouehka. krouchka.

[Gr. κρίος, frost, + (paraf)fine.] A colorless, crystalline com-pound formed by heating paraphenetidin and methyl-glycolic acid together: it is antipyretic and analgesic.

kryogen, kryokonite, kryoscopy. See cryogen, cryoconite, *cryoscopy.

revolving disk having radial kuives.

krautweed (krout'wed), n. Either of two cruciferous plants, Brassica arvensis, the char-

npon a base, and having a flap of cardboard hinged along its lower edge. The flap can be turned up and down for successive exposures

of visual stimuli.

kryptol (krip'tol), n. [Gr. κρυπτός, hidden, + -ol.] A trade-name for a loose, granular material, a mixture of graphite, carborundum, and fire-clay, having a high electrical resistance. It is used in electric stoves and furnaces, particularly those for scientific purposes, as a means of producing high and easily regulated temperatures by the passage through it of an electric current. Amer. Jour. Psychol., X11, 302,

krypton (krip'ton), n. [NL. krypton, prop. *crypton, ⟨Gr. κρυπτόν, neut, of κρυπτός, hidden, secret: see crypt.] A chemical element, one of the five recently discovered gaseons conof the five recently discovered gaseons constituents of the atmosphere, first obtained by Ramsay and Travers in 1898. It is colorless, transparent, without observable taste or smell, of density 40.88 as compared with hydrogen, liqueflable at—151.7°C. under atmospherie pressure, and occurs in the atmosphere to the extent of but 1 volume in 20,000,000 volumes of air.

krystic, a. See *crystic.
K. S. An abbreviation (a) of King's Scholar;
(b) of Knight of the Sword (Sweden).

K. S. A. An abbreviation of Knight of St.

K. S. G. An abbreviation of Knight of St. George (Russia).

K. S. P. An abbreviation of Knight of St. Stanislaus of Poland.

An abbreviation of knight.

K. T. An abbreviation (a) of Knight Templar; (b) of Knight of the Thistle (Scotland).

Kt. Bach. An abbreviation of Knight Bachelor. **ktypteite** (tip'tē-īt), n. [Appar. irreg. < Gr. κτύπος, a loud noise, + -t- + -e- + -ite².] Calcium earbonate occurring in pisolitic form at Karlsbad, Bohemia, and elsewhere: it is prob-ably a kind of aragonite, and is converted into calcite by heat.

kuan-liao (kwän-lē-ou'), n. [Chinese kuan, of the state, official, + liao, flux of glass, colored glass.] Imperial glass made at Peking,

peso or dollar.

Kuhlia (kö'li-ä), n. [NL., named after Heinrich Kuhl, a naturalist who discovered the typical species in the streams of Java.] genus of fishes, belonging to the family Kuhliidæ, found in the tropical Pacific.

Kuhliidæ (kö-lī'i-dē), n. Kuhliidæ (kö-lī'i-dē), n. [NL., < Kuhlia + -idæ.] A family of fishes of the tropical Pacific. kujawiak (kö-yä'vi-äk), n. [Pol., $\langle Kujaw, G. Kujan, a town in Silesia.]$ A Polish danee resembling the mazurka; also, the music for such a dance.

kuku (kö'kö), n. A large and handsome fruitpigeon, Carpophaga novæ-zelandiæ, found in New Zealand.

kukui (kö-kö' \bar{e}), n. [Hawaiian Kukui (=Tahitian tutui), $\langle kui =$ Tahitian, Tongan, Marquesan, etc., tui, pierce or thread upon a skewer, = Maori tuitui, sew.] In Hawaii, the candlenut-tree, Aleurites Moluceanu, which is easily recognized among the trees of the foreasily recognized among the trees of the forest by its silvery foliage. The leaves are either undivided or lobed, and are usually cordste at the base, with a pair of glands at the junction of the blade and the petiole. Throughout Polynesia the cily nuts are roasted and strung upon a reed or the rib of a cocoanut-leaflet, and used by the natives for illuminating their houses. These nuts also furnish the lampblack used for painting and tattooing. In Hawaii the roasted kernels are chopped fine, mixed with certain seaweeds and salt, and used as a relish at native feasts. The oil derived from the kernels is amber-colored, odorless, and very fluid; it acts as a mild cathartic. See Aleurites.

mild cathartic. See Aleurites.

kulaite (kū'la-īt), n. [Kula, in Lydia, Asia Minor, + -ite².] A group of basalts from the Kula basin, Asia Minor, containing more hornblende than augite, and differing in the kinds of feldspathic constituents. One variety contains orthoclase and bytownite in nearly equal propor-

tions with nephelite; another contains andesin, with leucite and nephelite. Washington, 1894. kuliat (kö-le-ät'), n. [Also culiat; said to be

Tagalog.] A name applied in the Philippines to Gnetum seandens, a climbing shrub with opposite leaves and catkin-like infloresence. The seeds are roasted and eaten by the natives and the opposite leaves and catkin-like infloresence. The seeds are roasted and eaten by the natives, and the stem yields a fiber which is used for cordage and, in the Andaman islands, for making fishing-nets. Also called mala-itmo (false betel-pepper) and itmong-oudk (crow's betel-pepper). Also cultat. See Gnetum.

kulp (kulp), n. [Origin obseure.] A species of shark or dogfish, Squalus spinax niger.

kulturkampf (kül-tör'kämpf'), n. [G., \lambda kultur, eulture, eivilization, + kumpf, fight.] A struggle for civilization: a name given to the conflict between the imperial government of Garmany and

tween the imperial government of Germany and the Roman Church, which lasted from 1872 till 1886. The name was first given to it by Virchow, in one of his electoral manifestos, to imply that it was a struggle of principle between the teaching of the Roman Church and that of modern civilization.

In Germany, when the Pontificate of Leo XIII. began,

Dr. Fleming said that the time had arrived to introduce a new word into the art of wireless telegraphy. The whole apparatus by which the messages were translated was called a receiver, which was too wide a word to be considered as a definition. The arrangement by which the electric impulses in the receiving aerial were utilized was called a "coherer"; but since that word had been introduced, contrivances for the purpose had been devised which did not cohere, and therefore the word was too limited in its application. He had therefore ventured to coin a fresh word, which was "kumascope," derived from the Greek word κόμα, a wave; it was similar to electroscope and many others of a like kind.

Sci. Amer. Sup., July 18, 1903, p. 23033.

Contact kumascope a receiving instrument, in wireless

Contact kumascope, a receiving instrument, in wireless telegraphy, which depends for its action upon changes in contact-resistance under the action of electric waves, that is, upon coherer action.—Magnetic kumascope, a receiving instrument, in wireless telegraphy, which depends for its action upon the magnetizing or demagnetizing effect of electric waves.

kumascopic (kö-ma-skop'ik), a. Of or pertain-

kubong (kö-bong'), n. [Malay kūbong.] The flying-lemur. See *colugo.

kudu, n. See koodoo.

kuh (kö), n. [Achinese?] A tin coin of Achin, Sumatra, equal to one four hundredth of a tolog-y + -ist.] A student of kumatology;

one who makes a special study of oceanic and atmospheric waves and of their influence on geologic and geographic phenomena.

kumatology (kö-ma-tol'ō-ji), n. [Irreg. < Gr.

κουα(τ), wave, + -λογια, < λέγειν, speak.] The
science of the forms and characteristics of waves. See the extract.

I [Vaughan Cornish] think the time has come when it I (Yanghan Cornish) think the time has come when it will be for the advantage of our science that there should be a distinctive word for the study of the waves and wavestructures of the Earth as a special branch of geography. Κῦμα, genitive κύματος, is Greek for 'a wave. I propose that the word 'kunatology' be added to the vocabulary of our science, to designate that department of geography which deals with the waves and wave-structures of the Earth.

Geog. Jour. (R. G. S.), XIII. 624.

kumera, n. See *kumara.

kummetar (κο΄me-tèr), n. [Irreg. ⟨ Gr. κῦμα, wave, + μέτρον, measure.] A form of cymometer for measuring the lengths of the waves used in wireless telegraphy. J. A. Fleming, in Trans. Internat. Elect. Congress, 1st ser., 1904, III. 616.

kumquat, n.—Native kumquat, in Australia, a small tree of the rue family, Atalantia glauca, bearing round, acid fruits about one half inch in diameter, from which su agreeable beverage or preserves can be made. Its wood is of a bright yellow color with brown streaks or veins. Called also desert lemon. See cumquat.

kundt's constant, law. See *constant, *law¹. kungu (köng'gö), n. [Also nkungu; a native name near Lake Nyassa.] A winged aquatic insect supposed to belong to the culicid genns Corethra. It arises in swarms from Lake

parent pink-and-purple lilac variety of spodumene. It is found in crystals near Pala, San Diego county, California, and affords gems weighing from 1 to 200 carats each. Described by Baskerville in "Science" for August, 1904. It is very phosphorescent when exposed to radium rays, the Röntgen rays, etc.

kupang (kö'päng), n. [Philippine Sp. cupang, prob. connected with Bisaya copang, a skein of cotton or silk.] In the Philippine Islands, Parkia Roxburghii, a tree belonging to the mimosa family, with bipinnate leaves having minute leaflets and one or two glands on the petiole. The flowers are borne in deuse heads at the end of long peduncles, and the pods are about a foot long bearing numerous seeds surrounded by a sweet pulp. The tree is said to yield a resin used for illuminating. Also written cupang and copang.

kupfernickel (kup'fer-nik"el), n. [G.: see copper and nickel.] The common German name of the mineral niccolite: so called because, though an ore of nickel, it has a coppery-red

the magic influence of some enemy.-2. A kind of shoe, made of emu-feathers matted together with human blood, worn by the kur-daitcha when on his errand. See def. 1. E. E. Morris, Austral English.

kurgan (kör-gän'), n. [Russ. kurganŭ, Pol. kurhan, =Pers. kurkhane, a mound, tumulus, < North Turk. kurgan, a fortified place.] One of the prehistoric burial-mounds in Russia, found from the Carpathians eastward into Siberia. of the kurgans belong to the stone age and contain remains of a dolichocephalic type which preceded the present hrachycephalic type of Russia. They were, however, used as late as the tenth century of our era.

To the British barrows, of which there are two types, the older long and the later round-shaped, correspond the Kurgans of the Russian steppe lands, and the ahready described mounds of North America. Both the Kurgans and the mounds reach far into the historic period, and the Kurgans were still used as burial-places in the 10th and 11th centuries of the new era. Keone, Ethnology, p. 126.

kumassope.

Kumassi (kö-mas'i), n. [W. African; also spelled Coomassie.] The name of a town in West Africa, used as a label for several colors. See ★black, ★blue, etc.

kurhaus (kör'hous), n. [G., ⟨ kur, cure, + haus, house.] The principal building at a watering-place; a house arranged for the convenience of persons who resort to mineral venience of persons who resort to mineral springs and the like.

Kurlbaum's process. See *process.
kuromatsu(kö"rō-mät'sö), n. [Jap. kuromatsu, kuro matsz, < kuro, black, + matsu, matsz,
• pine.] A valuable timber-tree, Pinus Thunbergii, yielding a durable wood, used for bridge-construction and engineering-work, particularly below ground. particularly below ground.

kuromoji (kö'rō-mō"ji), n. [Jap. *kuromoji kuromoji (kö'rō-mō"ji), n. [Jap. *kuromoji (kö'rō-mō"ji), n. [Jap. *kuromoji (kuro, black, + moji, cotton gauze.] Any one of several species of shrubs or small trees belonging to the laurel family, especially Benzoin sericeum, B. umbellatum, B. citriodorum, and Litsea glauca. Several of the species, particularly the first named, yield a grayishwhite, silky, fragrant wood which is used for the manufacture of toothpieks. From the foliaga of several species a volatile oil is obfoliage of several species a volatile oil is obtained.

kurrajong (kur'a-jông), n. Same as currajong: the name is also applied to a number of other malvaccous and sterculiaceous trees or shrubs vielding strong bast-fibers from which the natives make cordage, nets, or matting. See the phrases below .- Black kurrajong, any one of sevphriases delow.—Black kurrajong, any one of several species of trees belonging to the genus Sterculia, especially S. diversifolia, and another sterculiaceous tree, Rudingia pannosa.—Brown kurrajong, a small tree of the family Sterculiaceæ, Commersonia echinata, having soft, light, white wood.—Green kurrajong, a tall malvaceous shrub, Hibiseus heterophyllus. Called also Queensland sorret.—Tasmanian kurrajong, Plagianthus sidoides. See currajong.

kurtorachic (ker-tō-tā'kik), a. [For *cyrto-rhachic; ζ Gr. κυρτός, curved, + ράχις, spine.] Having a spinal column with a lumbar curve convex forward, or a lumbo-vertebral index of less than 98. Turner.

kuruma (kö'rö-mä), n. [Jap.] cart; a vehicle of any kind, including the jin-

The . . . charm of Japan . . . began for me with my first kuruma-ride out of the European quarter of Yokohama into the Japanese town. . . The jinrikisha, or kuruma, is the most cozy little vehicle imaginable.

L. Hearn, Glimpses of Unfamiliar Japan, 1. 1, 2.

kurung (ku-rung'), n. See * kurunj.

kurunj (ku-runj'), n. [Also kurung; < Marathi kurunj, Hindi kurung, < Skt. kurunja.] A tall, erect leguminous tree or climber, Pongam pinnata, of the family Leguminosæ. Pongam (Ponyamia).

kurunj-oil (ku-runj'oil), n. A fixed oil expressed from the seeds of the East Indian tree Pongam pinnata: used in medicine. Also

called poola-oil.

kurvey (kėr-va'), v. i. [A back-formation from kurveyor.] To conduct a transport by [A back-formation from kurveyor.] To conduct a bullock-wagon. [South Africa.]

kurveyor (ker-va'or), n. [An accommodated form (after conveyor) of D. karweier, < karwei, a job, MD. corweie, < OF. corvee, forced labor: see correce.] In South Africa, a traveling carrier or trader who carries the goods of others from one point to another in his heavy ox-wagon, and who also peddles his own

Kushite, kusso. See Cushite, cusso.

kusimanse (kö-si-män'se), n. [W. African.] A small West African eivet-cat, Crossarchus obscurus.

kusum (kùs'ùm), n. [Hind. kusum, also kasum, kasùm, kusumbh, kusumbha, < Skt. kusumbha.] The safflower, Carthamus tinctorius. See Carthamus.

Kutorgina (kū-tôr-jī'nä), n. [NL.] A genus kylindrite, n. See of Cambrian protrematous brachiopods with incipient cardinal area, great delthyrium, and very rndimentary processes and deltidium.

ktviu.
ktvii.
*ktvii

kv-amp. An abbreviation for kilorolt-ampere. k. w. In cleet., an abbreviation of kilowatt.

kwan¹ (kwau), n. [Also quan; Annamese.]
A silver coin of Annam and Cambodia,
equivalent to a string of 600 cash or to 4 francs.

kwan² (kwän), n. [Jap.] A Japanese unit of weight, equal to 1,000 momme or 8.28 pounds avoirdupois. C. Hering, Conversion Tables,

kwazoku (kwä-zō'kö), n. [Jap.] One of the two classes of modern Japanese nobility, corresponding to the old territorial nobility.

A Japanese K. W. E. An abbreviation of Knight of the ding the jin- White Eagle (Poland).

kw-h. An abbreviation of kilowatt-hour.

Ky. An abbreviation of Kentucky.

kyang (kyäng), n. [Also kiang, < Tibetan kyang.] The wild ass of Tibet, Equus hemionus. It is over four feet high at the shoulder, of a dark-reddish color, with a narrow stripe along the back.

kyanism (kī'an-izm), n. [Named after J. H. phobia, 2. Kyan, the inventor of the process.] Impregnation (of wood) with a solution of corrosive kyanismic (kin-ū-ren'ik), a. Same as *cynurenic (kin-ū-ren'ik), a. Same as *cynurenic. sublimate to prevent decay.

sublimate to prevent decay.

kyanopsia (kī-an-op'si-ā), n. [NL., ⟨Gr.κ̄ρανος, blue, + ὁψις, vision.] Blue vision; a pathological condition in which all objects appear commonly,

Also and more commonly,

kynurine (κιπ u-rm), n. Samo as cymmonly, n. is pl. kyphoi (-foi). [Gr.κ̄νφος, a hump, hunch.] The hump or bend of the spine in kyphosis. written cyanopsia or cyanopia.

The journey to be Kaap by bullock-waggon occupied kyar (ki 'ar), n. Same as coir. about six weeks. "Kurveyiny" (the conducting of transport by bullock-waggon) in itself constituted a great industry.

Encyc. Brit., XXXI. 81. Except. Brit., XXXI. 81. Resident in the conducting of transport by the conducting of transport by the conducting of the conductin

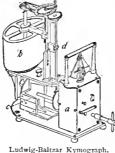
kychtymite (kieh'ti-mīt), n. [Kychtym, in Russia, +-itc².] Same as *kischtimite. Moro-ziewicz, 1897.

kyesamechania (kī-ē″sa-mē-kā′ni-ä), n. [NL., ⟨Gr. κίησις, conception, + ἀμηχανία, helplessness, incapacity, < ὁμηχανος, without means, helpless, < ὁ- priv. + μηχανή, an instrument, machine, contrivance, means: see machine, mechanic.] In biol., a hindrance to impregnation. tion; the inability of a certain group of indi-viduals to imprognate others than themselves, humpbacked, + L. -osus, E. -ous.] A genus. due to morphological or physiological changes in the seed or ovum, or both, or to a change in the time of maturity of the seeds or ova. Eimer, 1895.

kylie, n. See *kiley. kylin, n. Soe kilin,

n. [NL., $\langle \operatorname{Gr}, \kappa \dot{\nu} \lambda \rangle$ λωσις, crooking, crippling, < κυλλοῦν, crook, ζ κυλλός, cripple, crooked, crippled, as a leg bent outward. Same as club-foot.

kymatologist, ky-



Ludwig-Baltzar Kymograph, kymatologist, kymatology. Same as
*kumatologist, *kumatology. *kumatology. *kumatology. *kumatology. *kumatology. *kumatology. *kumatology. *kumatology. *kumatologist, *kumatology. *kumatology. *kumatologist, *kumatology. *kumatologist, *kymatologist, *kymatologist, *kymatologist, *kumatologist, *kumatologist, *kymatologist, *kymatologist, *kymatologist, *kumatologist, *kumatolo

form of the physiological kymograph of C. Ludwig, built by the mechanician G. Baltzar: it is remarkable for its extreme accuracy and wide range of ntility. The instru-ment is now supplied hy practically all dealers in phys-iological and psychological spparatus.

 Tibetan kymographion (kī-mō-graf'i-on), n. Same as kymograph.

kynanthropy (ki-nan'thrô-pi), n. Same as cynanthropy

H is, perhaps, worth while for me to say that this animal, the kyany, is a decided ass, and not a horse.

Geog. Jour. (R. G. S.), XV. 397.

Kynnyhobia (kin-ō-fō'bi-ā), n. Same as *cyno-bia (kin-ō-fō'bi-ā), n. Same as *cyn kynite (ki'nīt), n. A dynamite containing about 25 per cent. of nitroglycerin.

kyphoscoliosis (kī"fō-skol-i-ō'sis), n. Gr. κυφός, humped, + σκολίωσις, erookedness.]
 Combined lateral and posterior curvature of the spine.

Kyphosidæ (kī-fos'i-dē), n. pl. [NL., < Ky-phosus + -idæ.] A family of fishes inhabiting chiefly the Mediterranean Sea and the Pacific Ocean.

Kyphosinæ (kī-fō-sī'nē), n. pl. [NL., < Ky-phosus + -inæ.] A subfamily of fishes belonging to the family Kyphosidæ.

of fishes belonging to the family Kyphosidæ, inhabiting the Pacific Ocean, some of them American, but most East Indian.

kyphotic (kī-fot'ik), a. [kyphosis (-ot-) + -ic.] Relating to or affected with kyphosis.—Kyphotic pelvis. See ★pelvis.

kypoo (kī'pö), n. An astringent solid extract similar to gambier or catechn, made in Ceylon.

Kyrielle (kir-i-el'), n. [F. kyrielle, dim. of kyrie: see Kyrie cleïson.] 1†. Same as Kyrie cleïson.—2. [l. c.] A verse form in French poetry, divided into equal couplets ending with the same word, which serves as a refrain.

The kyrielle, of which we have three specimens, . . . onght to nave been discarded.

Saturday Rev., Dec. 3, 1887, p. 770.

kyrin (kī'rin), n. [Appar. < Gr. κῦρος, supreme power (?), + -in².] An end-product of proteolytic digestion, of the type of a polypeptide, as glutokyrin.

kytomitome (kī-tom'i-tom), n. Same as *cy-









inaction (i-). (c) In mineral.. the final letter of the general symbol hkl, given to the face of a crystal in the system of Miller. See *symbol, 7. (d) In cleet., the symbol

Miller. See *symbol, 7. (d) In cleet., the symbol for *inductance (which see). (e) In phys., for length: used in formulæ. −3. An abbreviation (l) of Lady; (m) of Lake; (u) [l. e.] of lane; (o) of Latitude; (p) [l. e.] of law; (q) [l. e.] of league or leagues; (r) [l. c.] of leave; (s) [l. c.] in a ship's log-book, of length; (t) of Liberal; (u) [l. c.] of the Latin libra, a pound in weight; (v) [l. e.] of link or links: (w) [l. e.] of liter; (x) of London; (y) [l. e.] of long; (z) of Lord; (aa) [l. e.] of low.

L³ (el), n. Used colloquially for el., an abbreviation of elevated, shortened from clevated

breviation of elevated, shortened from elevated

1. 1 e., 1. 2 e., etc. Abbreviations of left first entrance, left second entrance, etc.

La. 2. A contraction of Louisiana.

La. 2. L. A. An abbreviation of Literate in Arts.

laager, v. II. intrans. To halt and form a laager: encamp in a laager: as, we laugered To halt and form a five miles farther on.

laap(läp), n. Same as *laarp, lerp. [Australia.] laap-insect (läp'in sekt), n. Same as *lerp-

laarp (lärp), n. Same as lerp. [Australia.]
laavenite, n. Same as *lavenite.
Lab. An abbreviation (a) of Labrador; (b)
[l. c.] of labratory.

labarri (lä-bā'rē), n. [Also labaria: from a native name.] A very deadly snake, Trigonocephalus atrox, of Guiana and eastern Brazil. It is grayish brown with darker markings, the coloration harmonizing with the dead leaves and fallen branches.

and taiten branches.

The Labarri is usually found coiled on the stump of a tree, or in some other place where it can hardly be distinguished from the object on which it is lying. It is mortally poisonous when adult. It may be described as rainbow-colored in life, but its brightness fades soon after death. It is said that specimens eight feet long have been killed. Sci. Amer., March 7, 1903, p. 176.

labba (lab'ä), n. [Arawak lappa (Martius, 1863, p. 311).] In British Guiana, a name applied to the paca, Cologenys paca. It seems formenty to be real even the part for the arguiti

applied to the paca, Cælogenys paca. It seems formerly to have been also used for the agouti, as the name occurs in books of West Indian travel, and the paca was never a resident of the West Indies

the West Indies.

Labechia (la-besh'i-ā), n. [NL.] A genus of Stromaloporidæ of the Silurian period, characterized by the plate-like expanded econostemm, the surface of which is covered with netters, sounded in the throat and shaped by solid vertical pillars. Between these develop irregular laminæ.

labefactt (lab'é-fakt), r. t. [L. labefacere, pp. labefaclus, cause to totter: see labefaction.] Same as labefy.

labefact (lab'e-fakt), a. [L. labefactus, pp.]

Weakened: tottering; giving way.

label-card (lā'bel-kārd), n. A card with name of owner, destination, or other particulars attached to something for identification or direction; a label.—Label-card slide, a slide of metal containing a label-card; usually applied to such a slide on a mail-pouch.

labellate (lā-bel'āt), a. [NL. "labellatus, < labellum, a little lip: see labellum.] Long-lipped. J. D. Dana.

label-stop (lā'bel-stop), n. In arch., the termination of a label or dripstone: usually a decorated boss or corbel.

decorated boss or cordel.

Labial cartilage, one of several cartilages, occurring in pairs, attached to the anterior part of the cranlum or to the cartilages bounding the mouth: typically present in

2. A symbol: (a) (2) In labialatet (lā'bi-a-lāt), a. and n. [labial + chem., l- before certain com--atcl.] Same as labiate.

labiatifloral (lā-bi-ā-ti-flō'ral), a. Same as labiatiflorous.

labichorea (lā"bi-kō-rē'ā), n. [NL. < L. la-bium, lip, + NL. chorea.] A form of dyslalia abization (lā-bi-zā'shon), n. Same as bebior speech defect, due to a spasmodic closing zation.

Zation.

Laborl. n.—Bureau of Labor. See *bureau.—Dry of the lips in the enunciation of the labials, so that the latter are separated by an interval from the succeeding vowels. Also called labichoreic stuttering.

labichoreic (la bi-kō-rē'ik), a. Pertaining to or affected with labichorea.

Labidesthes (lab-i-des'thez), n. [NL., irreg. $\langle Gr. \lambda a \beta i \varepsilon (\lambda a \beta i \delta^2) \rangle$, foreeps, $+ \varepsilon \sigma \theta i \varepsilon v$, eat.] A genus of fishes of the family Atherinide, found in the Great Lakes and the lakes of the upper Mississippi valley.

labile, a. 2. In mcd., noting a mode of application of electricity in which the active electrode is passed back and forth over the nerve or muscle to be acted upon: opposed in this sense to *slabile.- Labile equilibrium. See *equi-

lability, n. 2. Instability, as, in chem., the quality of being easily broken down to form laboratorial (lab*\(\bar{0}\)-r\(\bar{a}\)-t\(\bar{0}'\)ri-al), a. [laboratory simpler chemical compounds or even elements.

By combining these two methods there is induced a "nuclear lability," which renders these eggs susceptible to the influence of carbon dioxide as a provocative of cleavage. Jour. Roy. Micros. Soc., April, 1904, p. 188.

labilize (lab'i-līz), v. t.; pret. and pp. labilized, ppr. labilizing. [labile + -ize.] In chem., to laboratory, n. 3. The space between the fire make labile or more readily susceptible of and the flue-bridges of a reverberatory furnaco change; make unstable.

The role of the oxygen must have been that of a labilising agent, directly producing the condition for explosive decomposition in the active biogens.

Nature, Feb. 26, 1903, p. 385.

labiobidental (la bi-o-bi-den'tal), a. and n. Pronounced with the lips and two teeth: a phase of labiodental. Stud. Yale Psychol. Lab., X. 104.

labioglossolaryngeal (lā"bi-ō-glos"ō-lā-rin'jē-al), a. [L. labium, lip, + Gr. γλωσσα, tongue, + λάρνγξ, larynx, + -c-all.] Relating to the lips, tongue, and larynx. Bulbar paralysis, affecting these parts, is sometimes so designated.

labiograph (lā'bi-ō-grāf), n. [L. labium, lip, + γραφειν, write.] In physiol. and psychophys., an instrument for recording the voluntary (in speaking) or involuntary movements of the

labiomancy (lā'bi-ō-man"si), n. [L. labium, lip, + Gr. μαντεία, divination.] Divination or interpretation by means of the motions of the lips; specifically, lip-reading.

labiomental (lā*bi-ō-men'tal), a. [L. labium, lip, + mentum, chin, + -all.] Relating to the lips and the chin.

labionasal (lā"bi-ō-nā'zal), a. and n. [L. la-bium, lip, + nasus, nose, +-all.] I. a. Formed Laboulbeniales (la-böl-bē-ni-ā'lēz), or pronounced by the coöperation of the lips [NL. $\langle Laboulbenia + -alcs.$] An ore and the nose.

II. n. An articulate sound produced by the Laboulheniaeeæ. Also called Laboulheniaeæ, coöperation of the lips and the nose, or the Laboulheniaeæ (la-böl-bē-ni- \bar{i} 'nē-ē), n. pl. letter or character representing such sound, [NL.] Same as *Laboulheniaes. namely, m. In pronouncing m, the lips are closed and nasal passages are open.

labiopalatine (lā"bi-ō-pal'ā-tin), a. [L. labium, lip. + palatum, palate. + -inel.] Relating to the lips and the palate.

labioplasty (lā'bi-ō-plas"ti). n. [L. labium, lip, + Gr. $\pi \lambda a \sigma \tau \delta c$, formed, + - y^3 .] A plastic 695

operation to replace the whole or a part of a lip

chem., l- before certain compounds has reference to their labiality (lā-bi-al'i-ti), n. [labial+-ity.] The
levorotation, as distinguished character of being labial, especially in phointo a more or less elongated structure having a grooved and ciliated surface and serving to collect food-particles and conduct them to the

zation.

| labor1, n.—Bureau of Labor. See ★bureau.—Dry labor, childbirth attended with little or no discharge of liquor anmii.—Federation of Labor. See ★federation.—Induced labor, labor in which the uterus is incited to contract by artificial means.—Labor party, any political party formed of working-men, or professing to represent the interests of labor, tatis, of working-men.—Missed labor, a condition in which the fetus is retained in the womb beyond the normal period of gestation.—Postponed labor, labor occurring after the term of normal gestation is past.—Socialist Labor party, a political and socialist party in the United States. It was formed in New Jersey, in 1877, out of an earlier organization (the Social Democratic Working-men's party, formed in Philadelphia in 1874), and since 1888 has figured in National and State politics with a ticket of its own.—United Labor party, a political party organized in the interests of labor, which, in 1888, nominated a candidate for President.

| Laborage (lā'bor-āj), n. [labor1 + -age.] 1†.

laborage (lā'bor-āj), n. [labor1 + -age.] 1+. Plowing; plowed land.—2+. Labor; work.—

+ -ial.] Relating or belonging to a laboratory. laboratorian (lab"ō-rā-tō'ri-an), a, and n. [laboratory + -an.] I. a. Of or pertaining to a laboratory.

II. n. One who conducts scientific investi-

and the fine-bridges of a reverberatory furnace in which the work is performed.—Laboratory milk, See *milk.—Marine laboratory, a laboratory or observatory situated upon the ocean or its shore, and equipped with appliances for collecting, observing, and experimenting upon marine animals and plants; a marine zoological station.

Abor-day /15/hor-d5/

zoological station.

labor-day (lā'bor-dā), n. In some of the States, a legal holiday, commonly the first Monday in September, established for the benefit of the laboring classes.

laborist (lā'bor-ist), n. and a. I. n. A member of laborist control of the laborist control of the laborist of the laborist control of th

ber of a labor party or one who is an advocate of the interests of labor.

II. a. Pertaining to labor and its interests. laborite (la'ber-īt), n. In British polities, a member of the Labor party.

The heavy vote given to the Liberals in England by the Lahor Party, the "Lahorites," as they are there called, does not at all mean that the issue of protection is not the main one.

N. Y. Times, Jan. 16, 1905.

Laboulbenia (la-böl-bē'ni-ā), n. [NL. (Montagne and Robin, 1853), named after Alexandre *Laboulbène*, a French cutomologist.] A genus of minute ascomycetous fungi containing numerous species parasitic npon insects, ing numerous species parasitic npon insects, especially beetles. The perithecium is borne on a stalk-like receptacle with appendages and one or more antheridia at one side. The reproduction is sexual and resembles that of the red seaweeds. The asci are 4-spored. L. clongata is a cosmopolitan species found on beetles of the genera Platynus, Colpodes, etc.

[L. labium, Laboulbeniaceæ (la-böl-bē-ni-ā'sē-ē), n. pl.

[NL., \(\alpha\) Laboulbenia + -acex.] A large family of peculiar ascomycetous fungi named from

[NL., \(\alpha\) Laboulbenia + -alcs.] An order of ascomycetous fungi containing the single family

labradophyric (lab"ra-dō-fir'ik), a. [labradar(ite) + (por)phyr(it)ie.] Noting porphyritic igneous rocks whose phenocrysts are labradorite. Dana, Manual of Geol. (4th ed.), p. 77.

[L. labium, Labradorean (lab-ra-do'rē-an), a. and n. Same as *Labradorian.

H. n. In geol., a subdivision of the Archean rocks of New Hampshire: proposed by Hitch-

cock for a group below the Huronian. Dana, Manual of Geol. (4th ed.), p. 446. labrador-rock (lab'ra-dôr-rok#), n. A rock composed almost wholly of labradorite. Same as *anorthosite.

labrador-stone (lab'ra-dôr-ston"), n. Same as

labrosaurid (lab-rō-sâ'rid), n. and a. I. n. One of the Labrosauridæ.

II. a. Of or pertaining to the Labrosauridæ. labrosauroid (lab-rō-sâ'roid), a. Related to or having the characters of the genus Labrosaurus.

Labrosomus (lab-rō-sō'mus), n. [NL. Labrosomus (Gill) for earlier Labrisomus (Swainson, 1839), < NL. Labrus + Gr. σωμα, body.] A genus of blennioid fishes, found in the Atlan-

gents of blentiou issues, round in the Adamtic from the West Indies to Brazil.

labrum² (lā'brum), n.; pl. labra (-brā). [L. labrum, contraction of lavabrum, \('avare, \) wash: see lave² and compare lavatory, laver¹.] In Rom. archæol., a bath-tnb, especially one of those of hard, fine material more or less righly scaphtured rather common in the

or less richly scnlptured, rather common in the museums of Italy. Also called lavabrum. labrys (lab'ris), n. [Gr. $\lambda \dot{a} \beta \rho v_{\zeta}$ (given as a Lydian word), same as $\pi \dot{\epsilon} \lambda \dot{\epsilon} \kappa v_{\zeta}$, an ax.] See \star double ax.

This discovery in the Palace of a shrine of the Donble Axe, and its associated divinities, derives a special interest from the connection already established on philological grounds between labrys, the Carian term for the sacred Double Axe, and the name Labyrinth.

A. J. Evans, in Jour. Roy. Inst. of Brit. Architects, X. [103.

laburnic (la-ber'nik), a. [laburnum + -ic.]
Pertaining to or derived from laburnum.—
Laburnic acid, a substance contained in the seeds and bark of laburnum, Laburnum Laburnum. It is probably a mixture of organic and inorganic acids.

laburnum, n.—Nativelaburnum. Same as *clover-tree.—Sea-coast laburnum, in Australia, a cosmopoli-tan shrnb or small tree of the warmer regions, Sophora tomentosa. See Sophora.

labyrinth-beetle (lab'i-rinth-be"tl), n. Any beetle of the family Bostrychidæ (which see). Kirby and Spence.

labyrinthitis (lab/i-rin-thī'tis), n. [NL., < Gr. λαμιρονθος, labyrinth, + -itis.] Inflammation of the labyrinth of the internal ear.

labyrinthodontoid (lab-i-rin-thō-don'toid), a. and n. [labyrinthodont + -oid.] I. a. Pertaining to or having the characters of the genus Labyrinthodon.

II. n. A stegocephalous amphibian related to the genus Labyrinthodon.

labyrinthous (lab-i-rin'thns), a. [labyrinth + -ous]. Having a labyrinthine or meandering arrangement, as the tubes in the interior of certain extinct sponges.

arrangement, as the tubes in the interior of certain extinct sponges.

lac², n.—Arizona lac, the product of an Insect, Carteria Larreæ, belonging to the Coccidæ, which infests the creosote-bush, Covillea tridentata. It resembles the gumlac of commerce and yields a red coloring matter showing the reactions of cochineal. The substance is found as an incrustation on the twigs of the bush and contains dead bodies of the insects by which it was secreted. The Indians use it to cement their arrow-heads to the shafts, and for various medicinal purposes. This lac is also found on the twigs of a leguminons shrub, Acacia Greggii, growing in the arid regions of Arizona.—Bleached lac, the decolorized resin obtained by dissolving seed-lac in a boiling alkaline lye and passing chlorin gas through the liquid until the lac is precipitated.—Mexican lac, the product of Carteria Mexicana, an insect infesting a leguminous shrub (Coursetia glandulosa) which grows in northwestern Mexico. The crude substance, which occurs on the twigs in the form of a brick-red incrustation, is collected by the Indians of Sonora and sold in the markets. It resembles grain-lac, but is less vividly red and has the taste of succinic acid. The natives use it in making cement and as a remedy for affections of the lungs, for fevers, and for other maladies. It consists in part of a substance similar to the shelhae of commerce and yields a fine red coloring matter. yields a fine red coloring matter.

Laccadivian (lak-a-div'i-an), a. taining to the Laccadive Islands. Of or per-

laccaic (la-kā'ik), a. [lacca + -ic.] Same as *laccic, 2.

laccase (lak'ās), n. [lacea + -ase.] An oxidizing ferment which is concerned in the production of the black Japanese lacquer. It is obtained from the Japanese lac-tree, Rhus vernicifera, and from various fungi.

laccate, a. II. n. The general name of salts of laccic acid.

laccic, a. 2. Noting an acid, a brownish-red compound, $C_{16}H_{12}O_8(?)$, obtained from lac-

dye by the action of dilute hydrochloric acid. It crystallizes in minute plates, decomposes without melting at about ISO° C., and resembles carminic acid.

lac-cochineal (lak'koch"i-nēl), n. lue-inscet.

laccol (lak'ol), n. [lacca + -ol.] A compound contained in the juice of the lac-tree, Rhus vernicifera. It is probably an aromatic polybasic phenol. Under the influence of laccase it absorbs oxygen from the air and yields a black substance.

laccolite (lak'oʻlit), n. Same as laccolith.

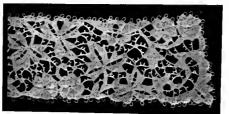
The ontogeny of the volcano may be viewed in the light of the phylogeny traced through its fossil remains—lava sheets, tnif beds, laccolites, volcanic necks like those of the Monnt Taylor plateau, and other products of organic settion during the ages past. Pop. Sci. Mo., July, 1902, p. 279.

tion during the ages past. Pop. Sci. Mo., July, 1902, p. 279.

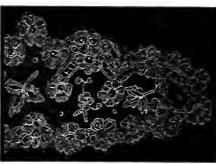
lace, R.—All-over lace, lace of any kind which is 18 or more inches in width and in which a pattern is repeated.

—Antique lace, a hand-made pillow-lace of heavy linen thread in a large, open, rectangular mesh: used mostly for curtains, bed-spreads, and draperies.—Arabe lace, a kind of coarse bobbin-lace with a large cable-edged pattern, made in Arabia and also in France and Belgium.

—Arabian lace. Same as Arabe *lace.—Battenberg lace, a kind of tine linen-thread lace in which are worked rings, picots, cords, etc., with connecting bars or brides.—Binche lace, a fine pillow-lace without a raised edge, the ground of which resembles a spider-web with small dots: named after Binche, Belgium.—Bourdon lace, a machine lace of silk and cotton with seroll-like patterns cable-edged on a regular mesh.—Bretonne lace, a cheap narrow pillow-lace, used for edging, etc.—Carrickmacross lace, an Irish lace made in both gnipure and appliqué.—

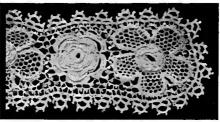


Carrickmacross Guipure Lace.



Carrickmacross Appliqué Lace.

Craponne lace, a kind of inferior, stout thread guipure lace for furniture, etc.—Cut lace. Same as punto tagliato ★lace.—Escurial lace, a silk lace made in initation of rose-point, with its patterns outlined with lustrous cord.—Fayal lace, a delicate and beautiful lace made by the peasant women of Fayal (one of the Azores) from the fibers of the American aloe, Agave americana.—Filet lace, any lace made with a square mesh.—Gimp lace, a coarse lace made by winding threads of silk, worsted, or cotton around a foundation of wire or twine, more or less open in design: chiefly employed in upholstery, though sometimes used for trimming wearing-apparel.—Hand-embroidered lace, point-lace embroidered with floral or fancy designs.—Irish crochet lace, an Irish linen

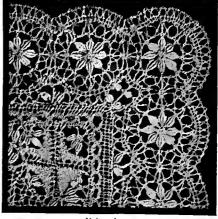


Irish Crochet Lace

hand-made lace distinguished for ita beauty of work-manship and design.—Luxeuil lace, a hand-made lace of Luxeuil, France; specifically, a stout, heavy fabric.—Maltese lace. (a) A hand-made lace made in the island of Malta. (b) A machine-made lace of coarse cotton thread. (c) A pillow-lace with geometric designs.—Medici lace, a variety of torchon lace, like ordinary insertion, with one edge scalloped.—Mélangelace, a heavy, black, hand-made silk pillow-lace, characterized by a blending of Spanish patterns with ordinary Chantilly effects. The edge is usually plain and straight, but is sometimes ornamented with a fine silk fringe.—Net-lace, Same as punto a reticello *lace.—Normandy lace. Same as Valenciennes lace.—Nortingham lace, a bob-

Lachenalia

bin-net lace, chiefly for curtains, originally made at Not-tingham, England.—Open lace. Same as punto in aria *lace.—Oriental lace, a kind of lace made on an em-broidering-machine in which the needle and shuttle act in combination, producing both simple and complex de-signs.—Point de Gêne lace, a machine-made lace ini-tating point de Venise.—Point de neige lace, a form of lace into the border of which patterns are worked with a



Maltese Lace.

flat thread or tape.—Point de Venise. Same as rose point (which see, under point!).—Punto a reticello lace, lace in which the groundwork of linen is first prepared by pulling out vertical and horizontal threads until an open network is formed. This is then filled in with patterns in various stitches. Also called net-lace.—Punto di Venezia lace, venice point. This is essentially a punto in aria lace of great richness of design. Venice point appeared at about the beginning of the seventeenth century. The manufacture was introduced by Colbert into France and the style called French point.—Punto in aria lace, lace in which the design is first drawn on a piece of paper and the outlines laid down in coarse thread. This thread is covered with buttonhole stitch and the pattern within the onthine worked ont with various stitches. Also called open lace.—Punto tagliato lace, the simplest of all needle-made laces. The pattern is transferred to linen and worked out with various stitches, the linen being afterwards cut away from the finished work. Also called cut lace and point coupé.—Repoussé lace, a variety of lace in which the designs or patterns are so worked or formed as to give a cup effect.—Rococo lace, an Italian lace with rococo designs.—Seville lace, a pillow-lace resembling torchon.—Swiss lace, imitation Brussels lace made in Switzerland.—Wood-fiber lace, artificial silk lace made from wood cellulose.—Youghal lace, an Irish needle-point lace of coarse thread, made in Munster county, Ireland.

lace-bowl (las'bol), n. A bowl of Oriental porcelain delicately ornamented with pierced designs of intricate lace-like pattern which are filled in with translucent glaze in the ricegrain style.

lace-bug (lās'bug), n. Any member of the family Tingitidæ (which see). L. O. Howard, Insect Book, p. 299.—Hawthorn lace-bug, an American tingitid, Corythuca arcuata, which lives upon leaves of the hawthorn.

lace-button (lās'but"n), n. The daisy-fleabane or sweet scabious, Erigeron annuus. lace-flower (lās'flou"er), n. The wild carror,

Daucus Carota. lace-glass (lās'glas), n. Venetian glass with

lace-like designs.

lace-grass (lās'grás), n. See *grass.
lace-pod (lās'pod), n. See Thysanocarpus.
laceration, n. 4. In Actinozoa, the formation of a new polyp by the separation of a portion of the basal expansion by contraction of the

lacertofulvin (lā-ser'tō-ful-vin), n. [L. lac-crus, lizard, + fulsus, yellow, + -in².] A yellow pigment, probably a lipochrome, found in the skin of certain reptiles.

lacery (lās'e-ri), n. [lace + -ery.] 1. Laces collectively.—2. Lace-like work or embroid-cry.—3. An enlacement : an interlacement

ery.—3. An enlacement; an interlacement. lacet (la'set), n. [lace + -et1.] In needlework, a trimming made of a braid known as lacet braid fashioned into various designs with lace stitches.

lace-wing (las'wing), n. Same as lace-winged

Lace-winged insects. See *insect.

Lace-winged insects. See *insect.
lacewood (lās'wūd), n. Same as lacebark, 3.
Lachenalia (lak-e-nā'li-ā), n. [NL. (Jacquin, 1787), named in honor of Werner de Lachenal (1736-1800), professor of botany in Basel.] A genns of bulbous plants of the family Liliaceæ. The leaves are few and radical, the flowers are several to many on a short scape, either drooping or erect, in color ranging from white through blue, red, and yellow; and the perianth is usually very irregular, the outer segments often sepal-like. There are about 30 species, natives of

South Africa, several of which are cultivated as cool greenhense subjects. A form of *L. tricotor* is probably best known among gardenera under the horticultural name *L. Nelsoni*. The species of *Lachenalia* are sometimes called *Cape cowslip*, and a spotted form of *L. pendula* is known as *leopard-lily*.

Lachnolæmus (lak-nō-lē'mus), n. A corrected

spelling of *Lachnolaimus, n. A corrected spelling of *Lachnolaimus (lak-nō-lī'mus), n. [NL.] A genus of labroid fishes found in the West Indies.

Lachnum (lak'num), n. [NL. (Retzius, 1779) Gr. λάχνη, down, hair, fur.] A genus of ascomycetous fungi of the family Pezizaceæ, having more or less hairy sessile or short-stipitate apothecia and hyaline ellipsoid or spindle-shaped spores. About 130 species have been described. They are widely distributed and occur on dead sticks and stems.

lacing, n. 10. Instructural work, particularly bridge work, the system of slender, diagonal members which connect the two opposite parallel members or flanges of a structural iron or steel beam, column, or strut. lacing the several members form a single, continuous zigzag line, but do not cross one

another as in latticing.

lacing-bar (la'sing-bar), n. See *lattice-bar. lacing-eye (la sing-i), n. In marino hardware, a ring or eye of metal secured to the edge of a sail and used to retain the lacing which holds the sail to the boom.

lacing-machine (la'sing-ma-shēn"), n. apparatus for automatically lacing into a continuous chain the pattern-cards of a

Jacquard loom.

Laciniaria (lā-sin-i-ā'ri-ā), n. [NL. (Hill, 1768), < lacinia (which see) + -aria (see -aryl), in reference to the lacerate or laciniate involueral bracts of some of the species.] Agenus of plants of the family Asteracea. There are 40 or more species, all natives of eastern and central North America. L. squarrosa and ether species are called blazing-star on account of their handsome rose-colored flowers. Several species have been in popular use as medicinal plants under the names button-snakerot, rattlesnake-master, backache-root, and colic-root. See Liutris.

Laciniata (lā-sin-i-ā'tā), n. pl. [NL., neuter pl. of *laciniatus: see laciniata.] A suborder of Lepidaptera proposed by Packard to include only the aberrant family Eriocephalidæ, in which the mouth-parts differ greatly from the normal lepidopterous type. The mandibles are fairly well developed, and the maxillæ do not form a proboscis, having each two separate rather short lobes and a long fivejointed flexible palpus.

laciniation (lā-sin-i-ā'shon), n. 1. The state of being laciniate. -2. A laciniate projection

or lobe.

lacinule (lā-sin'ūl), n. Same as lacinula.

lacinulose (lā-sin ū-lōs), a. [lacinula + -osc.] Same as lacinulate.

lacistemaceous (las"i-stē-mā'shius), a.

longing to or having the characters of the

Lacistemacee.

lackage (lak'āj), n. [lack1 + -age.] Shortage or deficiency in weight; lightness when compared with the standard of weight: said of

lackent (lak'en), v. t. [lack1+-en1.] 1. To belittle; disparage; depreciate.—2. To lack; to be without.

"It is certain," the Italian historian continues, "that the Portuguese of the fifteenth century entirely lackened knowledge of any land to the south-west."

Geog. Jour. (R. G. S.), IX. 189.

lackey-caterpillar (lak'i-kat"er-pil-är), n. The larva of the lackey-moth.

lackland (lak'land), n. and a. [lack1, v., + land1.] I. n. Ouo who lacks land or landed possessions; one who, like a younger son, inherits no territory: as, John Lackland, King of England.

II. a. Having no land.

lackmoid, n. Same as lacmoid. lackmus, n. Same as lacmus.

La Couyère slates. See *slatc2.

La Couyère slates. See *slalc2.

lacquer, n.—Ke-uchi lacquer, lacquer which has been allowed to stand several months to become thick. It is used for drawing fine lines in the decorations without danger of spreading.—Kl-eeshime lacquer. See *seshime lacquer, under lacquer.—Kl-urushi lacquer [Jap. ki, tree, + urushi, lacquer], crude lacquer, the sap of the *Rhus vernicifera of Jspan.—Kuma-urushi lacquer [Jap. kuma, border, + urushi, lacquer], lacquer colored with lampblack, used for drawing fine lines in the shading of feathera, hair, etc., on gold lacquer.—Muranashiji lacquer [Jap. mura, clustered, + nashi, a pear], a variety of Japanese lacquer with small gold fakes in irregular clusters. See nashiji *tlacquer.—Nakanuri lacquer [Jap. naka, middle, + nuri, lacquer, varnisti],

a pure lacquer freed from water, exposed to the light, and stirred till it becomes black: used as a basis, or undercoating, on which the finishing lacquer is afterward placed.—Nashiji lacquer [Jap. naski, a pear], a variety of Japanese lacquer sprinkled with gold, in initiation of the skin of a pear. Also called acenturin lacquer.—Nuritate lacquer [Jap. natri, lacquer, tate, stir], a pure lacquer to which has been added water which had been used with a whetstone and contains fine particles of the stone in suspension: used on chenp ware.—Rofro lacquer [Jap. roiro, greenish black], a variety of Jap. anese lacquer of a pure black or greenish-black color.—Ro-urushi lacquer [Jap. ro, dark green, + urushi, lacquer, a dark-green varnish made by adding to branch-lacquer a small proportion of tooth-dye, which is prepared by boiling rice-vinegar in which iron filings have been placed, and by afterward exposing it to the rays of the sun for several days.—Shunkel lacquer [Jap. Shua-Kei, name of the inventor], a variety of Japanese lacquer produced by mixing oil with the sap of the lacquer-tree (Rhus verneifera). It is of a yellowish color and needs no polishing. When applied to furniture, being transparent, it shows the natural grain of the wood beneath.—Shunurl lacquer [Jap. shu, vermilion, + nuri, varnish], a Japanese lacquer of a pure red color: same as coral for rernalion lacquer (which see, under coral).—Shunurushi lacquer [Jap. shu, vermilion, ed, + urushi, lacquer], a red lacquer with requirence of Mutsul, a variety of Japanese lacquer in the province of Mutsul, a variety of Japanese lacquer with marbled or veined effects in various colors.—Taul-koku lacquer. Is See Tsui-sku lacquer, under lacquer—Yeda-urushi lacquer [Jap. yeda, branch], varnish obtained from the branches of the lacquer-tree; branch-lacquer. See seshime lacquer, under lacquer.

lacquer, under lacquer-ree; branch-lacquer. See seshime lacquer, under lacquer

lacrymal. I. a.—Lacrymal bay, the recess at the internal angle of the eye.—Lacrymal groove. See *groove.—Lacrymal passages, all the parts traversed by the tears from the lacrymal gland to the opening of the duct in each nasal fossa.

II. n. 4. In *ichth*.: (a) A bone lateral to the ethmoid in fishes, the prefrontal: not homologous with the bone called 'lacrymal' by Parker. Starks, Synonymy of the Fish Skeleton, p. 509. (b) A bone in front of the eye in fishes, part of the suborbital ring; the pre-orbital: not homologous with the bone called 'lacrymal' by Geoffroy. Starks, Synonymy of the Fish Skeleton, p. 520.

lacrymist, lachrymist (lak'ri-mist), n. [L. lacryma, tear, + -ist.] One who weeps easily

or constantly.

lacrymomalar, lachrymomalar (lak ri-mō-mā lar), a. Relating to the lacrymal and malar bones: as, the lacrymomalar articulation.

Proc. Zool. Soc. London, 1901, I. 139.
Lacrymonasal pillar or process, a slender splint of bone projecting forward and downward from the lacrymal into the nasal vacuity in the skull of the Rhca.—Lacrymonasal vacuity. See *cacuity. nasal vacuity. See **accuity. lacrymosal (lak-ri-mō'sal), a.

Same as lacrymosc.

lacrymosity, lachrymosity (lak-ri-mos'i-ti),

n. [lacrymosc + -ity.] The condition of tearfulness; the quality of causing tears.

lacrymous, lachrymous (lak'ri-mus), n.

Same as lacrymosc

lac sulphuris (lak sul'fū-ris). [NL., 'milk of sulphur.'] In chem., an old name for sulphur precipitated at common temperature by an acid from the solution in water of an alkaline or calcic sulphid: a white, not yellow, powder.

lactagogue (lak 'ta-gog), n. [L. lac (lact-), milk, + Gr. αγωγός, ζαγευν, lead.] Same as galactagoguc.

lactalbumin (lak-tal-bū'min), n. [L. lac (lact-), milk, + E. albumin.] An albuminous substance resembling serum albumin which is found in milk.

lactam (lak'tam), n. [L. lac (lact-), milk, + found in milk.

E. am(monia).] The name of a class of lactol (lak'tol), n. [lact-ie + -ol.] A color, lact test lace companyed the lactic acid enters. organic compounds containing the group

HNCH₂CH₂CH₂CO

HNCH2CH2CH2CH2CO.

or HNCH₂CH₂CH₂CH₂CO. They are formed by the elimination of water They are formed by the eminimation of the from y- or d-amino acids respectively, the reaction being characteristic of these two lactometric (lak-tō-met'rik), a. Of or peraction being characteristic of these two lactometric taining to a lactometer or to the measure-taining to a lactometer. Sadtler,

lactamic (lak-tam'ik), a. [lactam + Noting an acid, a-aminoproplonic acid, CH₃.-CHNH₂.COOH, or alanin.

Lactaria (lak-tā'ri-ā), n. [NL. (Persoon, 1797), 〈 fem. of L. lactarius, milky: see lactary.] A
genus of fungi of the family Agaricaccæ. They
have the hymenophere continuous with the stem, and the
pileus usually depressed at the center. When broken the

gills and flesh exude a variously colored milky fuice, whence the name. The species are numerous and some are edible. Also written Lactarius.

lactaric (lak-tar'ik), a. [Lactar(ius) + -ic.]

Noting an acid, a colorless compound, C₁₅H₃₀O₂, contained in the mushroom Lactarius mineratus. It amost allies is scale. piperatus. It crystallizes in small needles and melts at 69.5-70° C.

lactarium (lak-tā'ri-um), n.; pl. Lactaria (-a). [NL., neut. of L. lactarius, a.] Same as lactary. lactase (lak'tās), n. [L. lac (lact-), milk, + -asc.] A ferment which inverts lactose to dextrose and galactose.

lactatic (lak-tat'ik), a. and n. [lactate + -ic.] I. a. Promoting the secretion of milk in the breast.

II. n. A galactagogue.

lactational (lak-tā'shon-al), a. [lactation + -all.] Relating to the period of lactation. Med. Record, Feb. 28, 1903, p. 337. lactescency (lak-tes'eu-si), n. Same as lactaceancy

tescence

lactification (lak-ti-fi-kā'shon), n. [L. lac (lact-), milk, + -ficatio(n-), \(\circ\) -ficare, \(\circ\) facere, make.] The production of lactic acid in milk and other fluids by the lactic-acid bacteria.

and other hinds by the lactic-acid bacteria. lactifluous (lak-tii'lö-us), a. [L. lac (lact-), milk, + flucre, flow, + -ous.] Yielding a thick milky juice; flowing with milk. lactiform; (lak'ti-fôrm), a. [L. lac (lact-), milk, + forma, form.] Like milk. lactigenous (lak-tij'e-nus), a. [L. lac (lact-), milk, + -genus, -producing.] Having the properties of a galactagogue. lactim (lak'tim), n. [laction) + im] The

lactim (lak'tim), n. [lact(am) + -im.] The name of a class of organic compounds containing the group -C(OH): N-. It is a tautomeric and, occasionally, isomeric form of the lactam radical.

lactimide (lak-tī'mid), n. [lact-ic + imide.]
A colorless neutral compound, CH₃CH- $\langle \text{CO-NH} \rangle$ CHCH₃, prepared by heating a-ami-

nopropionic acid in a current of hydrochlo-

ric-acid gas. It crystallizes in needles or plates, melts at 275° C., and sublimes. lactite (lak'tit), n. [L. lac (lact-), milk, +-ite².] The trade-name of a substitute for bone or celluloid, prepared by gelatinizing casein with bonax solution and treating the product. with borax solution and treating the product with acetic acid and lead acetate and dry-

ing it under pressure.

lactivorous (lak-tiv'ō-rus), a. [L. lac (lact-), milk, + vorare, feed upon.] Feeding on milk. lactoalbumin (lak"tō-al-bū'min), n. Same as \star lactalbumin.

*lactalbumin.

lactobutyrometer, n.—Marchand's lactobutyrometer, an instrument for determining the quantity of butter-fat in milk. It depends upon the solubility of the fat in ether and the formation of a layer of liquid fat at 40° C. when the ether is shaken with alcohol of 88-90 per cent. The volume of the layer of fat is measured by a scale, and the percentage of the same in the milk is obtained by a simple calculation.

lactocaramel (lak-fō-kar'a-mel), n. [lact-ic+caramel.] Caramelized lactose.

lactocholine (lak-tō-kol'in), n. [lact-ic + choline.] A compound of choline and ethyli-

powder. lactacidine (lak-tas'i-din), n. [lact-ic + acid + -ine².] The trade-name for a mixture of lactic and salicylic acids used as a food-prelactic and salicylic acids used as a food-pregiven by Blyth to a nitrogenous substance given by Blyth to a nitrogenous substance acid. of an orange color, obtained in very small quantity from the whey of milk after casein and albumin had been removed, and believed by him to be the source of the yellow color of milk and of butter.

(lact-), milk, A found in milk.

less, tasteless compound, the lactic-acid ester of β -naphthol: an intestinal antiseptic.

lactolase (lak'tō-lās), n. [lactol + -ase.] A ferment of vegetable origin which supposedly causes the formation of lactic acid during

ments and tests of a lactometer. Handbook of Indust. Chem., p. 265.

lactonic (lak-ton'ik), a. [lactone + -ic.] Pertaining to a lactone.-Lactonic acid. Same as *galactonic acid.

lactopepsin (lak-tō-pep'sin), n. [lacto(sc) + pepsin.] A solution containing various di-gestive ferments and lactose: a commercial lactophen (lak'tō-fen), n. [lact(ic) + phen(yl).]

Same as *lactophenine, lactophenine (lak-to-fen'in), n. [lactophen + A colorless crystalline compound,

C2H5OC6H4NHCOCHOHCH3, used in medi-

eine as a febrifuge and soportic.

Lactophrys (lak το fris), n. [NL., <*lact(oria), a milk-cow (< L. lac (lavt-), milk), + Gr. οφρίς, eyebrow. The allusion is to the projecting horns of L. tricornis.] A subgenus of fishes of the family Ostraciala, most of them found in American waters.

lactopicrin (lak-tō-pik'rin), n. [L. lact(uca), lettuce, + E. picrin.] An amorphous, bitter lactucon (lak-tū'kon), n. Same as *lactucerin. substance, one of the active principles of lactucone (lak-tū'kon), n. Incorrect for *lactucone* Canadian lettuce, Lactuca Canadensis.

lactoproteid (lak-tô-prô'tē-id), n. [lact-ic + proteid.] Any one of the albumins which occur in milk.

lactoprotein (lak-tō-prō'tē-in), n. Same as

*lactoproteid.

Lactoridaceæ (lak"tō-ri-dā'sē-ē), n. pl. [NI (Engler, 1887), \(Lactoris (Lactorid-) + -acex. \) A family of dicotyledonous archiehlamydeous plants of the order Ranales, containing the single monotypic genus *Lactoris (which see).
lactoridaceous (lak'tō-ri-dā'shius), a. Belonging to the plant-family Lactoridacew.

Lactoris (lak-tō'ris), n. [NL. (Philippi, 1865), \(\L. lactoris, \) the Latin name of some unidentified plant.] A genus of plants constituting fied plant.] A genus of plants constituting the family Lactoridaeeee. It consists of a single species, L. Fernandeziana, from the island of Juan Fernandez, a low, diffusely branching shrub with smooth, obovate, entire, stipulate leaves, the short-pedicelled, inconspicuous flowers borne singly in the axils of the leaves or in small leafy axillary racemes. The perianth segments are three, calyx-like; the stamens six, in two series; the carpels three, only slightly united with each other. lactosazone (lak-tōs-az'ōn), u. [laet(osc) + azo- + -oue.] A yellow compound, C2H32O9 N4, prepared by the action of phenylhydrazine en lactose. It crystallizes in needles and melts at 200° C. Also called lactose-osazone. lactoscope, n.—Feser's lactoscope, an apparatus

lactoscope, n.—Feser's lactoscope, an apparatus for determining the quality of milk. A known volume of milk is dfinted with a measured volume of water until the graduations on a central white staff become visible. The extent of dilution determines the value of the milk. lactose-osazone (lak'tōs-ōs-az"ōn), n. Same

as *lactosazone

lactoserum (lak-tō-sē'rum). n.; pl. lactosera (-rā). [L. lac (laet-), milk, + NL. scrum.] A serum, obtained by immunization with milk, which contains precipitins (eoagulins) corresponding to all the albumins of the milk and some related albumins of the body of the animal.

lactosin (lak'tē-sin), n. [lactose + -in².] A colorless, dextrorotatory, non-reducing compound, $C_{36}H_{62}O_{31}$. H_2O , found in the root of silenaceæ. It forms small lustrous crystals which give off water at 110° C.

lactothermometer (lak "tō-thèr-mom'e-tèr), n. [L. lac (luct-), milk, + E. thermometer.] A small thermometer inclosed in a glass tube and used in testing milk.

lactotoxin (lak-tō-tok'sin), n. [L. lac (laet-), milk, + Gr. $\tau \sigma_{\mathcal{S}}^{\varepsilon}(i\kappa \delta v)$, poison, + $-in^2$.] A ptomaine found in milk: supposedly the same

as the tyrotoxicen of cheese.

lactoviscometer (lak "tō-vis-kom'e-ter), n.

[L. lae (laet-), milk, + viscus, viscus, + metrum, measure.] An instrument for indieating the quality and composition of milk by

its rate of flow through a eapillary tube. Sci. Amer. Sup., Nov. 7, 1903, p. 23285.

lactucerin (lak-tū'se-rin), n. [L. lactuca, lettuce, + -er + -in².] 1. The dried milky juice of the European lettuce, Lactuca virosa, It eonsists of a mixture of a- and β -lactucerol acctates and has the formula $C_{20}H_{32}O_{2}$. accustes and has the formula $C_{20}H_{32}O_2$.—
2. A colorless dextrerotatory compound, $C_{23}H_{44}O_2$ (?), contained in the juice of the European lettuce. It crystallizes in microscopic needles and melts at 210° C. Also called lactueon.

lactucerol (lak-tū'se-rol), n. [lactucer-in + resembling nature-staten.

resembling nature-staten.

resembling nature-staten.

ladder-tape (lad'er-tāp), n. A woven tape pound, $(C_{18}H_{30}O, H_{2}O)_{2}$, obtained from the dried juice of the European lettuce, Laetuca rirosa. It exists in two modifications termed a- and β - short ones, something like the crosspicees of a ladder: used for making Venetian blinds. Tirosa. It exists in two modifications termed a and s-lactucerol. The former crystallizes in long, silky, lus-trous needles, melts at 160-181°C, and may be distilled in an atmosphere of carbon dioxid; the latter crystallizes from ether in long needles with a silvery luster, from trous needles, melts at 163-181° C., and may be distilled in an atmosphere of carbon dioxid; the latter crystallizes from ether in long needles with a silvery luster, from alcohol as a gelatinous mass.

Lactucic acid. (a) A bitter, acrid, brownish-green, amorphous compound obtained from the pince of Lactuca acid. (b) A light-yellow crystalline compound, lacknown and light-yellow crystalline compound, lacknown accomposition of the latter crystallizes and classically a ladder-track (lad'er-track), n. See *adrill-yard. ladia (lä-di-ä'), n. See *adrill-yard. ladia (lä-

 $\rm C_{40}H_{58}O_{11}$ (?), formed by the action of dilute sulphuric acid on lactenarium. It gives a wine-red color with alkalis.

lactucin (lak-tū'sin), n. [L. lactuca, lettuce, lactucin (lak-tū'sin), n. [L. lactuca, lettuce, + -in².] A coloriess compound, $C_{40}H_{48}O_{13}$ or $C_{22}H_{26}O_7$ or $C_{22}H_{28}O_8$, obtained from the dried juice of the common lettuce, Lactuca sativa and L. sugiltata. It crystallizes in pearly scales.

II. n. A languidly genteel person; an effected fop or 'swell.' [Colloq.] la-di-da (lä-di-dä'), v. i. [Also extended lardy-dardy; $\langle la-di-da, a. \rangle$] To act in a languidly genteel manner; pose as a 'swell.' pearly scales.

lactucol (lak-tũ'kol), n. [L. lactuea, lettuee, -ol.] A colorless dextrorotatory compound, C₁₃H₂₀O, prepared by fusing lactueerin with potassium hydroxid. It crystallizes in needles melting at 162° C.

lactucopierin (lak-tū-kō-pik'rin), n. [L. lac-tuca, lettnee, + E. pierin.] An amorphous bitter principle, not well known, said to be contained in lactucarium.

lactumen (lak-tū'men), n. (lact-), milk.] Same as milk-blotch

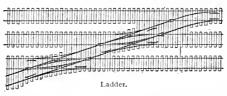
nean(tac) + -ic.] Derived from lactic acid and nrea.—Lacturamic acid, a colorless compound, NH₂CONHCH(CH₂)COOH, prepared by boiling lactyl nrei with barium-hydroxid solution; urein-2-propanoic acid. It crystallizes in small rhombic prisms and melts at 155° C.

lactyl (lak'til), n. [L. lae (lact-), milk, + A lactic-acid radical: as, lactyl ehlorid,

-yl.] A lactic-acid radical. as, as, CHCl.CO.Cl. lacunary, a. 2. Consisting of lacunes, as, for the most part, the circulatory system in Mol-

lacuscular (lā-kus'kū-lār), a. [L. lacusculus, a small lake (dim. of lacus, lake, pool), +-ar³.] Relating to or inhabiting small pools.

Lacustrine age or period. See *age!. ladder, n. 3. A series of buckets for dredging and filling which are carried up and down an incline; a bucket-conveyer.—4. In railroads, a track which connects by switches the ends of a series of parallel tracks and is used in sorting ears in a drill-yard. See *drill-yard.



—Adjustable ladder, a ladder used in gymnasiums for exercising, so swung on supports that it may be placed in an upright, horizontal, or slanting position, and may hang against the wall when not in use.—Indtan ladder, a ladder having a single pole with steps or footholds on the sides; a tree-ladder; so called because, as used by the Indians of the southwestern United States, it is formed from a tree-stem by lopping off the branches a few inches from the stem. A firemen's scaling-ladder is essentially an Indian or tree-ladder. See ladder, 1.—Pneumatic extension ladder. Same as aerial *truck.—Rope ladder. See rope1, n.—Telescopic aerial ladder. Same as aerial *truck.

ladder-back (lad'ér-bak), n. A chair-back which is made of horizontal slats passing from one side to the other.

ladder-beetle (lad'er-be"tl), n. An American chrysomelid beetle, Calligrapha scalaris, which feeds on elm, alder, and willow. It is yellowish-white in color, with ladder-shaped dark markings. Also linden leaf-beetle. ladder-cell (lad'er-sel), n. A scalariform cell.

See scalariform, 1 (b), and scalariform vessels,

ander scalariform.

ladder-hook (lad'er-huk), n. A double hook, with a set-serew, used to hold a ladder in place on a roof or against a building.

laddering (lad'ér-ing), n. [laulder + -ing1.] A narrow insertion of lace or muslin used in dressmaking, consisting of alternate bars and open spaces, somewhat resembling a ladder. Ribbens may be run in and out through these Also called beading. for ernament.

ladder-point (lad'er-point), n. A kind of stitch resembling ladder-stitch.

ladybird

gestive of a languid or mineing speech or manner.] I. a. Languidly genteel in speech or manner; foppishly affected.

I like to la-di-da with the names,
For that is the style that suits
The noble name and glorious fame
Of Captain de Wellington Boots.
Stirling Coyne, The Widow Hunt, quoted in N. & Q., 9th
[ser., VIII. 19.

adinian stage. See *stage. ladle, n. 5. A burghal duty charged on grain, meal, and flour brought to market for sale; the proceeds obtained from that duty: from the dish or vessel used to measure the grain or meal. Jamieson, Scottish Dict., Snp. [Scotch.]—Safety-ladle, a foundry-ladle which is tipped by means of a worm, thus facilitating the steady and safe pouring of the metal. Only large ladles are thus equipped.

ladling (la ding), n. Same as lading, n., 3.

lacturamic (lak-tū-ram'ik), a. [laet-ic + ur-ea ladling-hole (lā'dling-hōl), n. Same as lading-+ am(ine) + -ic.] Derived from laetic acid hole.

Lad'p. A contraction of Ladyship.

ladrone, n. 2. In the Philippine Islands, among American soldiers, a hostile Filipino soldier or 'insurgent.'

Thus we not only get ladrone as a substitute for "insurgent," which in turn is a substitute for "the enemy," or "the Filipino forces," but "ladronism" appears in the news dispatches as a harmless equivalent for resistance to an armed invader.

Springfield Republican, quoted in N. Y. Evening Post, [April 4, 1903.

ladronism (la-drön'izm), n. [ladrone + -ism.]
The character or conduct of a ladrone or robber. See extract under *ladrone, 2.

Ladronism resched its maximum early last spring, when a dozen provinces, some of them near Manila, were infested with them... At present there are scarcely any ladrones left, only a few in Albay Province, in southern Luzon, where they have not been pursued with as much vigor as elsewhere, but recent advices indicate that the constabulary have since destroyed their bands.

Nat. Geog. May., March, 1904, p. 111.

10. In astrol., a term designating the planet Venus when in the circumstances under planet venus when in the circumstances under which, if a masculine planet, she would be termed lord: as, lady of the ascendant.—Lady altar, the altar in a Lady chapel dedicated to the Virgin Mary.—Lady in waiting, a lady who is in attendance upon a queen. See maid of honor (a)—Lady's cloth. See *cloth.—Lady's friend. See *friend.—Lady's looking-glass. Same as Venus's looking-glass (which see, under Venus) ing-glass. Sa under Venus).

inder Venus).

ladybird, n.—Ashy-gray ladybird, a coccinellid beetle, Cycloneda abdominalis, of ashy-gray color, ornamented with seven black spots on the thorax and eight on each wing-cover. It is often found in abundance upon orange-trees, where its larve prey upon plant-lice and young scale-insects.—Bean ladybird. Same as *bean-beetle* (which see).—Blood-red ladybird, an American coccinellid beetle, Cycloneda sanguinea, with blood-red elytra and a black thorax spotted with orange.—Boreal ladybird, an American coccinellid beetle, Eydachia borealis, of phytophagous habits. It feeds upon the lesves of cucumber, melon, and other cucurbits ceous plants.—Cactus ladybird, an American coccinellid beetle, Chilocorus cacti, occurring commonly in the southwestern United States, where it feeds on scale-insects.—Comely



Cactus Ladybird (Chilocorus cacti). a, beetle; b, pupa; c, larva. Enlarged.

ladybird, an American coccinellid beetle, Coccinella renusta, pink in color and marked with 10 large black spots.—Convergent ladybird, an American coccinellid beetle, Hippodamia convergens, of wide distribution; a

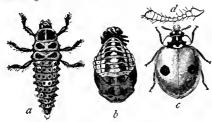


Convergent Ladybird (Hippodamia convergens). a, adult; b, pupa; c, larva: all enlarged. (Chittenden, U. S. D. A.)

noted enemy of injurious plant-lice.—Eyed ladybird, an American eoccinellid beetle, Cycloneda oculata, occurring in the Southern States, California, and Mexico.—Five-spotted ladybird, an American coccinellid beetle, Coccinella quinquenotata.—Herbivorous ladybird, any species of the coccinellid genus Epilachna, all of which, in both larval and adult stages, are phytophagous and not carnivorous; specifically, in the eastern United States, the

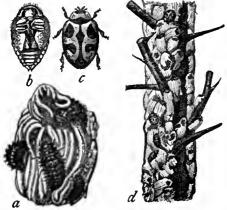
marked with black.—Piain lady-bird, Cycloneda sanguinea, light red without elytral markings.—Squash ladybird, Epilachna borealis, a phytophagous species whose larvæ feed on the leaves of squash and other cucurbits.—Thirteenspotted ladybird, Hippodamia tredecimpunctuta, brick-red with 13 black spots.—Twice-stabbed ladybird, Chilocorus birutnerus, black with two red spots.—Two-spotted ladybird, Adalia bipunctata, red with one black spot on each wing-cover. light





Two-spotted Ladybird (Adalia bipunctata). a, larva; δ, pupa; c, adult; d, antenna of same; all enlarged. (Marlatt, U. S. D. A.)

ladybug, n.—Anstralian ladybug, specifically, in California, Yedalia (Novius) cardinatis, an Australian



Australian Ladybug (Vedalia (Novius) cardinalis). a, ladybug larvæ feeding on female and egg-sac of fluted scale; b, pupa; c, ladybug; d, oringetwigs showing scale and ladybugs: a, b, c, enlarged; d, natural size.

(Marlatt, U. S. D. A.)

coccinellid beetle brought by the United States Depart-

ment of Agriculture to kill off the white or fluted scale (Icerya purchasi). See *Icerya, with cut. lady-by-the-gate (la"di-bi-The-gat'), n. The seapwort or bouncing-bet, Saponaria officinalis.

lady-crab, n. 2. (a) See $crab^1$, 1. (b) In the Channel Islands, Portunus puber.

 ladyfish, n. 4. A trachinoid fish, Sillago domina, found in the Bay of Bengal and generally throughout the East Indian archipelago.
 —5. The ten-pounder.—6. A mermaid. [Hu-lag-angle (lag'ang"gl), n. See angle of *lag. morous.]

"A judge of mermaids, he will find Our ladyfish of every kind Inspection will repay." W. S. Gilbert, 'Bab Ballads, Captain and the Mermaids. ladyish (lā'di-ish), a. Somewhat like a lady; having the airs of a fashionable lady. N. E. D. ladyism (lā'di-izm), n. The condition and manners of an affected "fine lady." N. E. D.

ladykind (la'di-kind), n. The women of a

ladykind (lā'di-kind), n. The women of a family or party. Compare womankind. Scott. lagarto, n. 2. A common name of two differlady-laurel (lā'di-lā'rel), n. See *laurel, Lady-mass (lā'di-mā's), n. A mass said specifically in honor of the Virgin Mary. lady-pea (lā'di-kwâr"ter), n. In England, the quarter (lā'di-kwâr"ter), n. In England, the quarter of the year in which Lady-day occurs.

Lady-mass (lā'di-hā'rel), n. See *laurel, lag'barrel (lag'bar"el), n. An octagonal barrel, or bar, having an intermittent rotary motion for the pattern-chain of a dobby-loom.

Lady-occurs

Laganidæ. Also Laganiam.

Laganidæ. Also Laganiam.

To dwellers round its bases but a neap of barren obstacle that tairs the storm And the avalanche's silent bolt holds back Leashed with a hair.

Lowell, The Cathedral, p. 62.

II. intrans. 1. To lie (on): rest inactively.

—2. To enter a lair; lie down (iu); lurk.

lag-bolt (lag'hōlt), n. Same as lag-screw, 1 and 2.

Laganidæ. Also Laganiam.

To dwellers round its bases but a neap of barren obstacle that tairs the storm And the avalanche's silent bolt holds back Leashed with a hair.

Lowell, The Cathedral, p. 62.

To enter a lair; lie down (iu); lurk.

lag-bolt (lag'hōlt), n. Same as lag-screw, 1 and 2.

wort, Alsine Holostea.

lady's-milk (lā'diz-milk), n. The milk-thistle, lagger1, n. 2. Same as lag1, n., 5.

Mariana Mariana. Also called Virgin Mary's lagger3 (lag'er), n. A sailor.

thistle.

lady's-needlework (lā'diz-nē'dl-werk), n. of a pulley, designed to increase its effective and the lagger of the same state.

lady's-needlework $(l\bar{a}'diz - n\bar{e}''dl - werk)$, n. The hedge-parsley, Torilis Anthriscus.

lady's-pocket (lā'diz-pok"et), n. The spotted touch-me-not, Impatiens biflora: so called from the saceate sepal of the flower. lady's-purse (lā'diz-pers), n. The shepherd's-purse Purse P

purse, Bursa Bursa-pastoris.

lady's-shoes-and-stockings (la'diz-shöz andstok/ingz), n. The bird's-foot trefoil, Lotus corniculatus. Also called shoes-and-stockings. lady's-thimble (lā'diz-thim'bl), n. The harebell or bluebell, Campanula rotundifolia. The name is also applied to the foxglove.

Laekenian sands. See *sandl.
Læliorchis (lē-li-ôr'kis), n. [NL. (Wight, 1905), < Lælia, an untenable name for the genus, + Orchis.] A genus of monocotyledonous plants of the family Orchidaceæ. See

læmoparalysis (lē mō-pa-ral'i-sis), n. [NL, ⟨ Gr. λαμός, throat, + παράλνσις, paralysis.]
Paralysis of the pharynx or esophagus.
læmoscirrhus (lē mō-sir'us), n. [NL, ⟨ Gr. λαμός, throat, + σκίρρος, a tumor.]
Cancer of

the gullet.

læmostenosis (lē'mō-stē-nō'sis), n. [NL., Gr. λαιμός, throat, + στένωσις, narrowing.] Temporary or permanent constriction of the esophagus.

Laënnec's cirrhosis. See *cirrhosis.

Laënnec's cirrhosis. See *cirrhosis. læotropism (iễ-ot 'rō-pizm), n. [læotrop-ic + -ism.] The state of being læotropie. læsio enormis (iễ 'sio ệ-nôr 'mis). [L., 'excessive injury.'] In civil law, the injury sustained by one party to a contract who has suffered a loss of more than one half the value of the contract by reason of the fraud or over-reaching conduct of the other party.

Læstadia (iễ-stā'di-ā), n. [NL., named for Lars Levi Læstadias, a elergyman and botanist of lapland.] An untenable generie name for

of Lapland.] An untenable generic name for Guignardiu, still much used.

lætic (le'tik), a. [LL. lætieus, \lambda lætus, a foreign bondman, appar. from the OTeut. term represented by AS. læt. in a similar sense.] taining to the læti, foreign cultivators of the soil during the later Roman Empire, who paid tribute for their land.

lætificant, a. Seo *lctificant. Lafayette group. See *group1.

lag', n. 6. A term of hard labor or transportation. [Australia.]—7. In cleet, the displacement of phase of an electric wave back, or behind (in time), to another electric wave: used mainly with regard to alternating-current circuits.—8. See lagging of the tides, under Apotheearies' Hall. eircuits.—8. See lagging of the tides, under lagging.—Angle of lag. (a) In elect., the angular displacement by which an alternating current follows the electromotive force. This lag occurs in alternating-current electrical circuits when there is inductance at any point in the line. (b) The angle corresponding to the lag of the tides; the hour-angle between the lunar transit and the flood-tide; the shifting of the earth's magnetic system from a symmetrical distribution about the noon meridian into the observed eccentric position.—Lag of brushes, in elect., the bockward shift of brushes on the commutator of an electric machine.—Magnetic lag. See magnetic *hysteresis.

Laganidæ (la-gan'i-dē), n. pl. [NL., < Laganum + -idæ.] A family of irregular echinoids, of the order Gnathostomata, typified by the genus Laganum.

Laganum (lag'a-num), n. [NL. (Gray, 1855), (Gr. λάγανον, a broad cake of meal and oil.] The typical and only genus of the family Laganide. Also Laganium. agarto, n. 2. A common name of two differ-

lady's-laces (la'diz-la''sez), n. The ribbon-laggardism (lag'ard-izm), n. [laggard + -ism.] grass, Phaluris arundinacca. Also called Sluggishness; the characteristic of hanging bride's-laces.

lady's-lint (la'diz-lint), n. The greater stitch-laggardly (lag'ard-li), adv. Loiteringly; laz-

diameter or to augment the adhesion of the

squash *ladybird (which see).—Nine-spotted lady's-nightcap (lā'diz-nīt"lap), n. The bird, Coccinetta novemnotata, a brick-red species with black spots.—Painted ladybird, harmonia picta, straw-yellow marked with black—Plain lady's-nightcap (lā'diz-pānt"brush), n. See **Emilia.**

*Emilia.**

*Emilia.**

*Emilia.**

*In. One who

hangs back; a loiterer; one who falls behind.

II. a. Lingering; hanging back; lagging. lagna (läg'nä), n. [Skt. lagna, Hind. lagan, point of intersection, point where the sun and the planets rise, pp. of \sqrt{lag} , adhere to, pieree, touch, etc.] The point on the ecliptic which is rising at one given recent

pieree, touch, etc.] The point on the ecliptic which is rising at any given moment. Geog. Jour. (R. G. S.), XVI. 703.

Lagoa, n. 2. [l. c.] A moth of this genus. — Waved lagoa, an American megalopygid moth, Lagoa crispata, yellowish in color, with wavy lines running from near the base to the tips of the wings. Its larve feed on the plum, apple, blackberry, and other trees and plants. plants

Lagochila (lag-ō-kī'lii), n. [NL., ⟨Gr. λαγώς, hare, + χείλος, lip.] "A genus of fishes belonghave, + xeiλoc, lip.] A genus of fishes belonging to the family Catostomidæ, the suckers, found in the Mississippi valley.

lagomorph (lag'ō-môrf), n. Any member of the Layomorpha, a superfamily of rodents continuous description.

taining the hares and pikas.

No sufficiently primitive stages of the teeth of either the Histricomorphs or the *Lagomorphs* have to my knowledge as yet been found. *Amer. Jour. Sci.*, Nov. 1903, p. 367.

lagomorphous (lag-ō-môr'fus), a. Of or pertaining to the Lugomorpha: same as lagomor-

lagophthalmyt (lag-of-thal'mi), n. Same as lagophthalmia.

agopous (la-gō'pus), a. [Gr. $\lambda a \gamma \delta \pi o v c$, harefooted ($\langle \lambda a \rangle \delta c$, hare, $+ \pi o v c$, foot), + -o u s.] In bot., soft and hairy like a hare's foot. Lagrange beds. See Lafapute *group.— Lagrange disk. Same as interfusion *tisk.—Lagrange's mapprojection. See map-projection, under projection.

lag-ship (lag'ship), n. A transport used for taking convicts to New South Wales, or one

used as a prison. [Cant, Eng.] lag-spike (lag'spīk), n. A form of spike in which the part that enters the wood has a thread like that of a wood-screw or lag-screw: used for holding railway-rails to the ties or other substructure. The spike may be driven into the wood by a maul or sledge, but it can be taken out only by unscrewing. The thread has a ratchet-tooth section, with the long slope on the advancing side, and the straight radial helix opposed to motion toward the end where the head is. Also called screw tag-spike.

laguana (lä-gwä-nä'), n. [Sp. la guanábana, the soursop (the fruit), < gnanábano, the sour-sop tree, of Carib origin.] In Guam, the sour-sop, Anona muricata. See Anona.

lag-wood (lag'wud), n. In ship-building, the wood obtained from large branches of the oak near the head of the tree.

Apothecaries' Hall.

laid, p. a. 3. lu embroidery, stitched upon a ground. Gold and silver thread, and silk cords, are frequently treated in this way.

On the satin Stuart bindings we find a prevailing use of fine coloured doss silks, . . . and in later times an extensive use of 'laid' silver thread backgrounds, metal cords, wires and metal threads of numberless patterns.

C. Darenport, in Burlington Mag., March, 1904, p. 268.

Laid and set, in Platsering, finished ready for painting or papering: said of plaster-work on lath as distinguished from that done on solid masonry.—Laid down, an expression used with reference to British warvessels in connection with the date of placing the first keel-plates on the blocks: as, the battleship was taid down June 10th, 1905.

Laille shales. See ★shalc2.

Laganium (la-gā'ni-um), n. Same as $\star Laga$ - laiose (lī'ōs), n. [Gr. $\lambda a\iota bc$, left, + -osc.] num.

lair¹ (lar), r. [lair¹, n.] I. trans. 1. To put or have put in a lair or den.—2. To shelter; hold as in a lair.

A mountain seems

laissez-aller (lā-sā-zā-lā'), n. [F., impv. of laisser, let; aller, go.] A letting go; unrestraint: implying sometimes a little too much unconventionality. Also luisser-aller.

laitance (lā-tons'), n. [F., \(\) lait, milk.] The milky washings from the surface of concrete which has recently been laid under water.

lake¹, n.— Capillary lake. See ★capillary.—Glacial lake, a lake formed by the damming of the natural drainage of a region by a glacier, which thus hinders the dis-

country, a country abounding in lakes; specifically, a district in England comprising parts of Lancashire, Cumberland, and Westmoreland. See Lake School, under lakel.—Lake poet. See Lake School,—Ox-bow lake, a crescentic or nearly circular lake, occupying a meander that has been deserted by the river that formed it.—Relict lake, a lake remaining on a land-surface from which the scal has withdrawn.—Soda lake, a saline lake in which the silnity is due to sodium carbonate.—Walled lake, a lake provided with a wall of gravel and boulders which nearly or quite encircles it and which is heaped up at the upper edge of the strand by the expansion of the ice when freezing in the winter. Walled lakes are not uncommon in Wisconsin and Minnesota. [ake³, n.—Carmine lake. See ★aarnine.]

lake³ ($l\bar{a}k$), n.—Carmine lake, See *carmine. lake³ ($l\bar{a}k$), v. [$lake^3$, n.] I. intrans. To become laky, or like a lake (pigment) in color. lama-deity ($l\bar{a}'m\bar{a}$ -delama) in the candle nut-tree (Alcurites Moluccana) or its lama-deity ($l\bar{a}'m\bar{a}$ -delama). The deity rep-Sec *laky2

In a case of leukæmia, laking was almost complete in a short time.

Med. Record, June 13, 1903, p. 953.

To cause to resemble a lake II. trans. (pigment) in color: specifically, discharge (the hemoglobin) rapidly from the crythrocytes into the blood-plasma.

For the preparation of hæmoglobin the blood was collected in ammonium oxalate, washed, laked with distilled water, centrifugalized to get rid of the stroma, treated with 25 per cent. absolute alcohol, upon the addition of which the crystals of oxyhæmoglobin are deposited at 0° Centigrade.

Science, March 6, 1903, p. 369.

lake-basin (lāk'bā"sn), n. I. The area occupied by a lake. - 2. The area from which the

waters of a lake are collected.

lake-bass (lāk'bàs), n. The large-mouthed black-bass, Micropterus salmoides.—White lake-bass, Roccus chrypops, a serranoid fish found in the Great Lakes and southward in the Mississippi valley.

lake-carp (lāk'kārp), n. The carp-sucker of the Great Lakes, Carpiodes thompsoni.

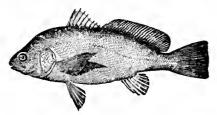
lake-land (lāk'land), n. Same as *lake coun-

lakelander (lak'lan-der), n. One who lives iu the lake-land or lake country of England. lake-ore (lāk'or), n. A peculiar type of brown hematite which is deposited in certain Swedish lakes and possesses a concretionary officie or Austral English. [Australian slang.] pisolitic texture. After being dredged or dug lambardar, lumberdar (lum-bär-där'), n. the layer is renewed in 25 or 30 years. J. F. [Hind. lambar, number, $\langle E. number. + Pers. \rangle$ Kemp, Ore Deposits of the U.S. (4th ed.), p. 92.

lake-pitch (lāk'pich), n. A commercial name of the softer, less altered, and more valuable kind of asphalt obtained from the pitch lake in the island of Trinidad. Compare *landnitch.

Laker¹, n. 3. [l. c.] On the Eric Canal, a large canal-boat, one that could be towed on Great Lakes with safety.—4. [l. c.] log-driver whose work is chiefly on lakes

lake-sheepshead (lak'sheps/hed), n. A freshwater scienoid fish, Aplodinotus grunniens,



Lake-sheepshead (Aplodinotus grunniens). (From Bulletin 47, U. S. Nat. Museum.)

found in the Great Lakes and southward to Texas. Also known as drum or thunderpumper.

lake-trout, n. 3. A fish, Galaxias auratus, of the family Galaxidæ, found in Tasmania.

lakism (lāk'izm), n. [lake¹ + -ism.] Imitation of the style of the Lake poets. See Lake School, under lake1.

School, under lakel.

lakmoid, n. Same as lacmoid.
lakmus, n. Same as lacmus.

laky² (lā'ki), a. [lake³ + -yl.] Resembling a lake (pigment) in color; laked: specifically, noting the change of color of the blood caused by a sudden discharge of hemoglobin into the lamb's-tongue, n. 3. See Scolopendrium. by a sudden discharge of hemoglobin into the blood-plasma in consequence of destruction of the erythrocytes.

la-la (lä-lä'), a. [Syllables suggestive of languor or weakness: compare *la-di-da. There is an allusion to tra-la-la, tra-la, meaningless syllables used in singing.] So-so; poor; syllables used in singing.] languid. [Colloq.]

lall² (lal), r.i. [Imitative, like Gr. λαλεῖν, speak, etc.: see *lallation*.] To speak unintelligibly; speak childishly. See *lallation*.

lalling (lal'ing), n. Same as lallation.

Maori, etc., rama, a torch, a light.] In Samoa, the candlenut-tree (Alcurites Moluccana) or its

resented by the lama.

Gratitude to the lama-deity for life and safety.

Geog. Jour. (R. G. S.), XV. 621.

Lamaitic (lä-mä-it'ik), a. Same as Lamaistie. Lamanism (lä'man-izm), n. [F. lamanismc.] Same as Lamaism.

Lamanite (la'man-it), n. According to the Book of Mormon, a descendant of Laman, the son of Lehi, a righteous Jew of the tribe of Joseph, who fled with his sons from the destruction of Jerusalem to America. of their wickedness the Lamanites lost their fair skin, sank into barbarism, and became the red Indians.

Lamarckian, a. II. n. One who holds the Lamarckian theory. See Lamarckism.
Lamarckism, n. 2. The doctrine that the gen-

eration of an organism from an egg is epigenesis or new formation. [Rare.]—New Lamarckism. Same as *Neo-Lamarckism.

Lamarckite (la-mär'kīt), n. One who holds the Lamarckian theory; a Lamarckian. Lamarekism.

lamb, v. i.—To lamh down, to lose or spend money; be cleaned out. [Anstralian.]

II. trans.—To lamh down, to knock down [spend] a check or a sum of money in a spree. E. E. Morris, Austral English. [Australian slang.]

dar, suffix of agent.] A village head man of northern India who is registered by a number in the collectors' roll and receives and pays over the government dues.

lambda, n. 3. A British collectors' name for a common Old World noctuid moth, *Plusia gamma*, occurring in Europe, China, Japan, and India, and also, probably by introduction, in South America.

Lambdoid ridge or crest. See *ridge. lambdoidean (lam-doi'dē-an), a. Same as

lamber (lam'er), n. [lamb + -er].] 1. A shepherd whose business it is to take care of the young lambs and ewes at lambing-time. 2. A ewe when lambing.

Lambert's law of cosines. See *cosine.—Lambert's method. See altitude of a *cloud.

Lambeth degree, delf. See *degree, *delf2. lambiness (lam'i-nes), n. The conventional

Lamb's-wool sky. See ★sky1.

lamdan (lam-dän'), n.; pl. lamdanim (-dä'nēm). [Yiddish, < Heb. lamad, learn.] A Talmudical scholar. lamed (lä'med), n. [Heb. lāmed.] The twelfth

letter () of the Hebrew alphabet, corresponding to the Syriac lomad, the Arabic lām, the Greek lambda, and the English L. Its numerical See Lambaratics. lamella, n. 2. pl. The British pharmacopoial lamination, n. 2. In elect., the constructing name for medicated gelatin disks used in of the iron part of a magnetic circuit.

ophthalmic practice.—Appunn's lamslla, in psychophys., a strip or band of soft steel, held in a wooden vise and vibrating (according to its position in the vise) between the limits 4 and 24 in the second: used to determine the lower limit of tonal hearing.—Ovigerous lamella, in cirripeds, one of the sheets or plates of ova.—Pleurapophysial lamella, the thin plate of bone which bounds externally the vertebrarterial canal on either side of the neck in birds. Mivart.—Supporting lamella, in hydroid polyps, the delicate, transparent, non-cellular film or membrane lying between the cetoderm and the endoderm: same as mesoglæa.—Vascular lamella. See *cathammal, 2.

Lamellar cataract. Same as zonular cataract (which see, under zonular).

Lamellaria (lam-e-lā'ri-ā), n. [NL., < L. lamella, a thin plate, +-aria.] The typical genus of the family Lamellaridæ. Oken.

Lamellaridæ (lam-e-lā-rī'i-dē), n. pl. [NL., < Lamellaridæ + -idæ.] A family of tænioglossate gastropods, having a mantle which covers the shell more or less completely, no operculum, and dorsally fused jaws. It includes the genera Lamellaria, Marsenina, Velutina, and Onchidiopsis. They are carnivorous, living on hydrozoans, aleyonarians, and colonial ascidians. With the exception of the first genus, they are boreal forms.

lamellation (lam-e-la'shon), n. The character or state of being lamellated; specifically, in geol., an arrangement of the minerals of a metamorphic rock in parallel lamellæ or folia. metamorphic rock in parallel lamellæ or folia, 'Lamellation' and 'foliation' are employed in preference to 'bedding' or 'stratification,' because the structure may have no connection with sedimentation, but be the result of crushing and shearing. Getkie, Text-book of Geol., p. 789.

Lamellicorn leaf-chafer. See *leaf-chafer.—Lamellicorn scavenger. See *scavenger and Laparosticta.

lamellicornous (la-mel-i-kôr'nus), a. [lamellicorn + cous is Same se lamellicorn.

eorn + -ons.] Same as lamellicorn.

lamelligerous (lā-me-lij'e-rus), a. [L. lamella, a thin plate, + gerere, bear, + -ons.] Bearing lamellæ or ridges: as, the lamelligerous lobe in Nautilus.

lamelloid (lā-mel'oid), a. [lamel(la) +-oid.]
Having the character of a thin plate or lamella.

Now as we proceed up the neck to the head, these transverse processes project less and less from the bodles of the vertebre, and become less robust and angular, at the same time that they are antero-posteriorly elongated; and possess regular lamelloid walls, so as to form rather canala than simple foramina for the artery.

Amer. Nat., Jan., 1904, p. 31.

lamellose-stellate (lam"e-los-stel'āt), a. With lamellæ or plates arranged radially or in starshaped groups or clusters.

lamellous (lā-mel'us), a. Same as lamellose. [lamella + -ous.]

lamellule (lā-mel'ūl), n. [NL. lamellula, dim. of L. lamella, a thin plate: see lamella.] A small lamella.

lamentational (lam-en-tā'shon-al), a. [lamen $tation + -al^{1}$. Pertaining to or of the nature of lamentation.

lamiid (lā-mi'id), n. and a. I. n. A beetle of the coleopterous family Lamidæ.

II. a. Resembling or belonging to the family Lamiidæ.

lamin (lam'in), n. amin (lam'in), n. [L. lamina: see lamina.]
1. Same as lamina.—2. A thin plate (of metal)

lambiness (lam'i-nes), n. The conventional characteristics of lambs.

I confess I have always abominated the lamb, and nourished a romantic feeling for the wolf. O, be done with lambiness! Let us see there is a prince, for I am weary of the distaff. R. L. Stevenson, Prince Otto, ii. 4. lambitive (lam'bi-tiv), a. and n. Same as lambative. lamb'lily (lam'bil'i), n. The Scotch asphodel, Tofieldia palustris.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common, and perhaps native, in the eastern United States.

I common the edge of the jaw, from which in turn are given of the cells which form the edge of the jaw, from which in turn are given of the devel-devel prince for I ammina, an ingrowth of ectoderm from the edge of the jaw, from which in turn are given of the devel of the jaw, from which in turn are given of the devel with from the edge of the jaw, from which in turn are given of the devel of the jaw, from which in turn are given of the devel of the jaw, from which in turn are given of the devel of the jaw, from which in turn are given of the devel of the perhaps and index trige. Dorsal lamina, in Embler of the eastern the oreal lamina, an ingrowth of ectoderm from the edge of the jaw, from which in turn are given of the devel of the perhaps and in the paraphysis.

I ammina, n.—Dental lamina, an ingrowth of ectoderm from the eastern from the edge of the jaw, from which in turn are given of the

laminal (lam'i-nal), a. $[lamina + -al^1]$ Pertaining to or of the nature of a lamina; disposed in laminæ.

laminariaceous (lam-i-nā-ri-ā'shius), a. Belonging to the family of seaweeds Laminariaecæ.

[Laminaria + -ite².] A fossil seaweed resembling Laminaria. See Laminarites.

laminæ or sheets of iron or steel, for the purpose of eliminating, in an alternating or rotating magnetic field, the induction of currents in the iron and the loss of power resulting therefrom. The lamination for this purpose must be at right angles to the direction in which an induced current would flow, but parallel to the direction of the magnetic flux. -Oblique or transverse lamination, in geol., false

laminectomy (lam-i-nek'tō-mi), n. [L. lam-ina, lamina, + Gr. ἐκτομή, excision.] In surg., exsection of the laminæ of one or more of the vertebræ to relieve pressure upon the spinal

In a recent case in which there was anterior dislocation of the fourth cervical vertebra, taminectomy was done for pachymeningitis.

Med. Record, July 11, 1903, p. 78.

laminous (lam'i-nus), a. [NL. laminosus: see laminose.] Same as laminose.

laminous (lam'i-nus), a. [NL. laminosus: see laminose.] Same as laminose.

lamp¹, n.—Alcohol lamp. Same as spirit-lamp.—Alembicallamp. See *alembicat.—Alformant lamp, an apparatus, invented by Schering, in which paraform is converted into formaldehyde-gas by the heat from an alcohol lamp.—Annealing-lamp, an alcohol lamp for heating dentists' foil.—Automatic lamp, a heating-lamp which extinguishes itself when the object to be warmed reaches a certain temperature. A lamp of this kind is commonly used by dentists in heating vulcanizers and in other work of this nature.—Berzelius's lamp, an Argand lamp for burning alcohol, much used in chemical laboratories before coal-gas became generally available for heating purposes. It was brought into use by the Swedish chemist Berzelius early in the nineteenth century.—Blow-through lamp, a form of flash-light apparatus used in photography in which the material used to produce the flash is blown through the flame of a lamp.—Brehmer lamp. See electric *arc.—Cooper-Hewitt lamp, a form of mercury src-lamp. See *mercury lamp and electric *arc.—Dibdin's pentane Argand lamp, a form of standard lamp which burns a mixture of sir and pentane. A screen on the metal chimney of the Argand steatite burner may be moved to 2.15 Inches (54.6 millimeters) above the steatite ring, thus affording a source of light tof ten candle-power.—Duboseq lamp, a self-regulating electric arc-lamp especially adapted to lantern projection and lighthouse illumination.—Finsen lamp, an electric lamp of peculiar construction used for the administration of the Finsen light treatment. See Finsen *light treatment and Finsen's *apparatus.—Fluorescent lamp, a lamp consisting of a glass bulb coated interiorly with calcium tungstate or some other substance which fluoresces under the influence of an electric damp with closely coiled filament: designed for use in projection-lanterns and for other optical purposes.

When lucandescent lamps are used for optical purposes it is necessary to compress the filament into a small

When incandescent lamps are used for optical purposes when incannescent iamps are used for optical phiposes it is necessary to compress the filament into a small space, so as to bring it into the focus of a lens or mirror. The filament is then coiled or crumpled up into a spiral or zigzag form. Such lamps are called focus lamps.

Encyc. Brit., XXVIII. 88.

Formaldehyde lamp, a flameless lamp in which methyl

rigzag form. Such lamps are called focus lamps.

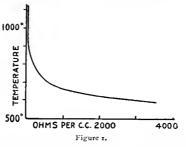
Encyc. Brit., XXVIII. 88.

Formaldehyde lamp, a stameless lamp in which methyl (wood) alcohol, as a liquid or a vapor, is brought, with air, into contact with platinized asbestos wicks or perforated sheets. Formaldehyde results from the incomplete oxidation of the sloohol. It is used in disinfecting. See *formaldehyde-generator.—Girard's lamp, a lamp for burning illuminating-oil, so constructed as to maintain the supply of oil at a constant level.—Harcourt lamp. See *tipht standard.—Hefro's lamp, a form of lamp. See *light standard.—Hero's lamp, a form of lamp devised by Hero 200 B. C. The raising of the oil is effected by the pressure of a liquid of greater specific gravity acting through a column of air. A solution of brine in a chamber, c, flowing through a tsp drives the air from a vessel, d, through a pipe, e, into an oil-reservoir, a. Oil is thus forced from the reservoir, a, into the bird's beak, whence it drops into a receptacle, b, supplying a wick burning at the tail.—Incandescent lamp. See incandescent light, namer electric light.—Keat's lamp, a moderator lamp burning sperm-oil, used as a standard of Illumination: devised by Keats in 1899. It was first adjusted to give a light of ten candle-power, burning oil at the rate of 925 grains per hour.—Lamp battery. See *battery.—Lummer lamp, a form of mercury aralamp designed with special reference to spectroscopic work. See *mercury lamp.—

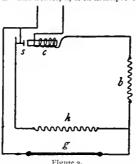
Magnetite lamp. See electric *arc.—Mercury-vapor lamp, an electric lamp in which the source of light is an air formed in mercury vapor at very low pressures within a vacuum-tube. See *mercury lamp,—Nernst lamp, an incandescent electric lamp the filament of which consists of a cylindrical rod made from a mixture of metallic oxids. This lamp, which was invented by Professor Nernst of Göttingen, depends upon the fact that many oxids such as CaO and MgO, and also the oxids of the rare earths, in particular thorium oxid, which have very high specific resistance when cold, begi



terminals are of platinum wire joined to the ends of the glower by fusion in the electric arc. The glower when cold is an insulator, but when heated it becomes an electrolytic conductor. When traversed by a direct current the heat generated appears chiefly at the positive pole and platinum-black is deposited at the negative pole. When alternating currents are used the distribution of heat is uniform and the life of the lamp is greatly increased. Since the resistance of the filament, as shown in the curve in Fig. 1, falls rapidly with ris-



ing temperature, the lamp when placed in a constantpotential circuit tends to take increasing current as the
filament becomes hotter. It is therefore necessary for
purposes of regulation to place in series with the filament
a metallic resistance called the ballast. This consists of
a very fine iron wire mounted in a glass tube and surrounded with hydrugen. Its resistance increases with
rise of temperature and thus counterbalances the less of
resistance in the filament. Upon starting the lamp it is
necessary to bring the filament to a temperature such that
it begins to carry a current sufficient to keep itself hot.
The device used for this purpose in Nerost lamps of the
American type is called the heater. It consists of a porcelain tube, about 30 millimeters long, around which a fine
platinum wire is spirally wound. The coil is kept in
place by a paste or enamel. Two or more such heaters
are placed horizontally above the glower, and heat the
latter by radiation to the temperature necessary to start
the lamp. The glower begins to take current at about
700° C. The electrical connections are shown in Fig.
2. The heater, h, is in multiple circuit with the glower,
graph of the control of the current between the
lamp terminals flows



current between the current between the lamp terminals flows through the heater. In series with these are the lamp-ballast, b, and the cut-ont, c. The cut-out is a small electromagnet which tends to attract the contact-spring, s, thus opening the glower circuit. When the opening the glo

tends to attract the contact-spring, s, thus opening the glower circuit. When the lineater begins to take sufficient current to maintain its temperature the coil in the cut-out magnet becomes through the glower. The electrical efficiency of the Nernst lamp is about the same as that of the ordinary incandescent lamp (when used with an opal shade about 3.47 watts per mean spherical hefner). The radiant efficiency of the Nernst flament, obtained by integration of the energy curve by Coblentz, was found to be .033 as against .04 for the acetylene flame. The temperature of the flament is somewhat lower than that of the ordinary incandescent lamp—from 1,400 to 1,700° C. The candle-power, however, is high on secount of the large diameter of the filament, and the form of the lamp is well adapted for lighting from overhead, since no shadows are cast downward. The color of the light of the Nernst lamp differs but little from that emitted by carbon at the same temperature. It is somewhat stronger in the red than the light from the acetylene flame, and is free from the marked selective radiation characteristic of the Welsbach mantle.—Open-arc lamp. See electric **arc.*—Osmium lamp, an incandescent electric lamp having a flament of metallic osmium instead of carbon. Devised by Auer von Welsbach.—Phase-lamp, in elect., an incandescent lamp nsed to indicate the phase relation between alternating-current generators.—Plot-lamp, (a) An electric lamp pupon a switchboard, used to indicate the position of switches. (b) In telephony, an auxiliary signaling-lamp placed in front of the switchboard and serving to indicate to the chief operator delay in responding to any one of a group of call-signals.—Platinum lamp. (a) A lamp having a platinum flament which is made incandescent by an electric ourrent. (b) A lamp having a spiral of platinum placed above the wick. The vapor from the alcohol (ethyl or methyl) drawn up by the wick unites with the air through the agency of the platinum, which is thus made to glow.—Pyro-electrolytic lamp. S

energy only about half that for a carbon lamp, but the cost of the lamp itself is (at any rate at present) higher, and the illuminating power is not as generally acceptable as the 16 candle-power in general nese. The resistance of the tantalum filament increases with rise of temperature, the durability is as great as that of carbon, and the liability to injury by mechanical shocks or accidental increase of voltage is, it is claimed, less.

Lampadena (lam-pa-dē'nā), n. [NL., < Gr. λάμπη, a torch, + ἀδήν, a gland.] A genus of deep-sea fishes found in the Gulf Stream.

Lampanyctus (lam-pa-nik'tus), n. [NL., ir-A genus of

reg. $\langle Gr. \lambda \dot{a}\mu\pi\eta$, a torch, $+\nu \dot{v}\xi$ ($\nu v\kappa\tau$ -), night.]



Lampanyctus crocodilus. (From Bulletin 47, U. S. Nat. Museum.)

A genus of deep-sea fishes commonly known as lantern-fishes: widely distributed.

lamp-ballast (lamp'bal ast), n. In elect., a resistance placed, for purposes of regulation, in series with the filament of an electric lamp. In the case of the Nernst lamp the ballast consists of a very fine iron wire in an atmosphere of hydrogen within a scaled glass tube.

lamp-bank (lamp'bangk), n. A number of incandescent lamps mounted in rows upon a frame and connected together either in multiple circuit or in multiple series. Also called a bank of lamps. Trans. Amer. Inst. Elect. Engin., 1900, p. 171.

lamp-bend (lamp bend), n. A bent or curved pipe-elbow, used to connect two pipes which meet at an angle greater than a right angle.

lamp-changer (lamp'chān"jer), n. A device with a long handle for removing incandescent electric lamps from, or placing them in, their sockets when the latter are difficult of access. lamperina (läm-pe-rē'nä), n. [Amer. Sp.] A common name of *Polistotrema stouti*, one of the eel-like lower vertebrates found on the California coast and north to Cape Flattery.

Lampeter Brethren. A small sect established in 1846 among some students of Lampeter Col-lege at Lampeter, Cardiganshire, Wales, by Henry James Prince, one of the extreme evan-Henry James Prince, one of the extreme evangelical school. His fanaticism led him to declare his dectrines to be the new dispensation of the Holy Ghost, superseding the dispensation of Christ. He and those who believed him lived in an abode called the Agaremone, or 'abode of love.' Also Princettes.

lamp-fish (lamp'fish), n. A deep-sea fish, Scopelus resplendens, of the family Mystophides, being luminous engls or photophores on the

having luminous spots, or photophores, on the

head and body.

lamp-foot (lamp fitt), n.; pl. lamp-feet (-fēt).
A unit sometimes employed in computing the wiring of an installation of electric lights. product of the number of lamps by the feet of wire necessary to supply them gives the number of lamp-feet.

lamp-hour (lamp'our), n. The energy reamp nout (tamp out). The electric lamp in normal operation for one hour: a practical unit sometimes employed in electric lighting.

lampic (lam'pik), a. [lamp1 + .ic. The acid was first obtained by burning ether in a lamp.] Derived from a lamp: applied specifically to an acid, a mixture of acctic acid and aldehyde, formed by the oxidation of alcohol.

lamp-indicator (lamp in "di-kā-tor), n. A device consisting of a Wheatstone bridge one arm of which contains an incandescent lamp. The adjustment is such that when the electromotive force of the circuit to which the indicator is applied reaches proper value the bridge is balanced.

lampistry (lam'pis-tri), n. [lampist + -ry.]
The art of making and decorating lamps; the work of a lampist.

lamp-post (lamp'post), n. A post or pillar, usually of iron, designed to support a streetlamp or other outdoor lamp.

lamprey, n.—Brook-lamprey, a small lamprey which inhabits the brooks of Enrope and North America. Five or six species are known.—Silvery lamprey, small black lamprey, common names of the lampreys. lamprey-eel (lam'pri-ēl'), n. A lamprey. lamprite (lam'prit), n. See *meteorite. lamp-room (lamp'rom), n. A room or compartment, as on a vessel, especially fitted for

filling and trimming lamps and storing them

mineral from the nephetre-syenite of Koia, Russian Lapland, related to astrophyllite in form, cleavage, and probably in composition. Lamprops (lam'props), n. [NL., ζ Gr. λαμ-τρος, shining, + ων(ωπ-), eye.] The typical genus of the family Lampropsidæ. L. quadriplicata is found off the northeastern coast of the properties of the proper

America. Sars, 1863.

Lampropsidæ (lam-prop'si-dē), n. pl. [NL., < Lamprops + -idæ.] A family of eumaeean erustaeeans in which the first antennæ have both flagella well developed and nearly equal, the male has three pairs of pleopods or none, and the telson is distinct, with three or moro terminal spines. It includes the genera Lamprops, Hemilamprops, Paralamprops, Platyaspis, and Chalarostylis.

lamp-station (lamp'sta shon), n. In coal-mining, an underground eabin where safetylamps may be opened and trimmed: a place beyond which no naked lamps must be taken. lampyrid (lam'pi-rid), n. and a. I. n. A mem-

ber of the coleopterous family Lampyridæ.

II. a. Having the characters of or belonging to the family Lampyridæ.

län (lån), n. [Sw., a fief, a fee, an administrative district. = AS. læn, a grant, fief: see læn.] An administrative division of Sweden; a government at the head of which is a prefect nominated by the king.

Lana philosophica, an early chemical name for the light,

woolly flakes of white zinc oxid, produced by bur vapor of zinc which is allowed to escape into the air.

lanacyl (lan'a-sil), n. A trade-name of several acid coal-tar colors.— Lanacyl violet. See

lanai (lä-nä'i), n. [Hawaiian.] In Hawaii, a

bower, piazza, or porch.

Lancashire boiler. See *boiler.

Lancaster yellow. See *yellow.

lance, n. 9. A pointed stick of light timber nsed for the crection of a temporary telegraphor telephone-line: used especially in military operations.

The second truck is loaded with four or five hundred lances of well-seasoned cypress or spruce, each a trifle over fourteen feet in length.

Sci. Amer., Dec. 27, 1902, p. 459.

Sable lance, a fish, Mellotus villosus, of the family Argentizide, found in the northern parts of the Atlantic and Pacific.

lanceated (lan'sē-ā-ted), a. [L. lanceatus ($\langle lancea, lanee \rangle + -cd^2$.] Shaped like a lanee; pointed and long.

lance-fish (lans'fish), n. A fish of the genns Ammodytes, which includes small carnivorons fishes inhabiting sandy shores of cold regions. lance-head, n. 2. Lachesis mutus, a venomous

snake of Sonth America. See bushmaster. Share of South America. See businesser.

lancelet, n.— Bahama lancelet, a lancelet, Asymmetron lucayanum, found in the Eahamas.—California lancelet, Branchiostoma californiense, found from San Diego Bay southward.—West Indian lancelet, Branchiostoma caribæum, found in shallow waters, buried in the sand, from Beaufort, North Carolina, to the mouth of the La Plata.

Lanceola (lan-sē-ō'lii), n. [NL., < LL. lanceola, dim. of L. lancea, lance.] The typical genus of the family Lanceolidæ. Šay, 1818.

Lanceolidæ (lan-sē-ol'i-dē). n. pl. [NL., Lanceola + -idæ.] A family of amphipod crustaceans, of the tribe Hyperidea, having the first antenna straight and the first joint of the flagella swollen. It is typified by the genus Lanceola.

lance-ovate (lans'o"vat), a. In bot., very narrowly ovate.

lancet, n. 4. In entom., one of the lower pair of piercing organs in the dipterous month; the scalpella: supposed by Kirby and Spence to represent the maxillæ of the hanstellate month. lanceted (lan' set-ed), a. Having a lancet-

window or a lancet-arch. lancet-headed (lan'set-hed"ed), a.

pointed head like a lancet: said of windows. See cut of lancet-window.

lancet-plate (lån'set-plat), n. In the structure of the Blastoidea, a long narrow plate, pointed at both ends, which extends along the center of each ambulacrum. Its proximal end is inserted between the deltoids and takes part in the lip around the summit opening. The upper surface is excavated along the median line, and this groove probably served to conduct food to the mouth. The plate has an interior axial canal which communicates by means of the ambulacral opening with an oval ring belonging to the water-vascular system. In some cases there is a smaller plate beneath which is called the under lancet-plate.

A lancewood, n.—Cape lancewood, a tough wood obtained from Curtisia faginea of South Africa. It is used for spokes, shafts, spears, and turnery. See assagai-

lancha, but this is in that case, is perto the Pg. or Sp., which, in that case, is perto the Pg. or Sp., which, in that case, is perto the Pg. or Sp., which, in that case, is perto the Pg. or Sp., which, in that case, is perto to the Pg. or Sp., which, in that case, is perto to the Pg. or Sp., which, in that case, is perto. But it is from neighboring areas. W. M. boat, has nothing to do with launch, verb.]. A launch or barge; a medium-sized boat used in landgraveship (land'grav-ship), n. The office, territory, or anthority of a landgrave. N. E. D.

of merchandise and native products.

Lancs. An abbreviation of Lancashire. land¹, n. 9. One of the strips into which a field is divided in plowing: same as ridge, 3. See quotation under ★cul, 24. Compare dead land¹, n. 9. One of the strips into which a field is divided in plowing; same as ridyc, 3. See quotation under ★cul, 24. Compare dead ★furrow.—Dun land, in Devonshire, England, a soil which has resulted from the decomposition of the schistose rock of the district.—Height of land, a line or belt of land between the opnosite slopes of two river systems; a divide; a water-parting. Encyc. Brit, XXXI 332.—Indemnity lands, in United States law (in the construction of land-grants made in aid of railroads), those lands which are selected in place of parcels lost by previous disposition or reservation for other purposes, the title to which does not accrue until the time of their selection.—Judge Jeffrey's land, See king's ★land.—King's land, a child's outdoor game in which the king stands within certain boundaries until he succeeds in touching one of the other intending players, who then becomes king. The game, with variations, is known by varions other names, as I'an Diemen's land, Dixie's land, golden pacement, Judge Jeffrey's land, Tom-Tiddler's ground, etc.—Land hemisphere. See ★hemisphere.—Land in severalty. See severalty.—Land of Promise. See promise.—No man's land. (b) Naut., an article or space left uncleaned or uncared for on account of its not falling within the limits of the work assigned to individuals of the crew.—Nook of land. See nook.—Polson land, in western Australia, land so covered with a growth of plants poisonous to sheep and cattle that it cannot be used for pasture.—Running with the land, being of force by association with the land affected: a phrase applied to covenants in deeds of real property. See evenants which run with the land, under covenant. A personal covenant is binding on the covenantor only. A real covenant—one running with the land —is created where the maker binds himself and his helrs, executors, or administrators.—Scab land, in Washington and Oregon, land originally covered with fine volcanic dust which has been blown away by the wind, leaving on the surface only a mass of sharp

land-agent (land'ā"jent), n. A real-estate agent; in England, also a steward or manager

landamann (län'da-män), n. The chief magistrate of a Swiss canton; also the chief officer in some of the smaller districts.

landau n.—Carca landau in a smaller districts.

officer in some of the smaller districts.

landau, n.—Canoe landau, a landau in which the lower lines of the body have a continuous sweep. The term is used to distinguish this form from the angular quarter and drop-center types.—Five-glass landau, a landau with a leather top over the rear seat. The front section has large glasses in frames which can be dropped down in the body. The supports of the top are hinged to fall down upon the boot, and leave the front section and two in the doors: hence the name.

landboc (land'bok), n. [OE. landbok, < land, + boe, book.] In old Eng. law, a deed or grant of land, usually Saxon. Such deeds had little weight against the king's claims.

land-breast (land'brest), n. The frontage or face of the wall which forms a bridge-seating or abutment and acts as a retaining wall to the bank behind it. It includes both the abutment-pier proper and the wing-walls at each side of it.

land-chain (land'chān), n. Same as Gunter's chain (which see, under chain).

land-crab, n. 2. A burrowing crayfish, Engreus fossor, of Tasmania and Victoria (Anstralia), which forms crab-holes.

landdrost (land'drost), n. [D., < land, land, + drast, baillff, steward.] In South Africa, a magistrate.

Landenian (lan-de'ni-an), a. and n. [Landen, a town in Belginm, + -ian.] I. a. In geol., pertaining to the basal deposits of the Lower for the harder, more altered by exposure to the

Eccene in France and Belginm, corresponding to the Woolwich and Reading beds of England. The lower deposits are fluvio-marine, while the upper beds contain only

marine, while the upper neas contain only marine fossils.

II. n. The Landenian deposits.

landfall, n.—To make a good landfall (naut.), to sight a certain point of land at the time calculated.

land-form (land'form), n. An area of land having certain topographic features which distinguish it from neighboring areas. W. M.

gravinc. N. E. D.

landing, n. 9. In lumbering: (b) A place to which logs are hauled or skidded preparatory to transportation by water or rail. (c) A platform, usually at the foot of a skid-road, where logs are collected and loaded on cars. A lightning landing is one having such an incline that the logs may roll upon the cars without assistance.—To break a landing, to roll a pile of logs from a landing or bank into the water.

landing-box (lan'ding-boks), n. In mining, the box into which the mine-pump delivers water.

landing-party (lan'ding-pär"ti), n. An armed boat's erew sent on shore for offensive or de-fensive operations, such as engaging an enemy, or for protecting life and property.

land-junker (land'yöng"ker), n. [G., < land, land, + junker, junker.] In Germany, one who owns lands or estates; a squire.

land-lane (land'lan), n. An open water-passage in the ice of the polar oceans leading toward land.

We discovered new islands in the west as far as our range of vision admitted, and, to judge by the large open land-lane which ran in that direction, one might suppose that the land there was of considerable extent. Geog. Jour. (R. G. S.), IX. 482.

land-law (land'lâ), n. 1. The law of a land or country; the 'law of the land.'-2. Law, or a law, relating to land considered as property. land-lead (land'led), n. Same as *land-lane. See the extract.

This open water must rather or regarded as a land-lead, which, like all other land-leads, is formed and opened by a land-breeze, and is closed again by the wind blowing in shore.

Geog. Jour. (R. G. S.), IX. 485,

land-line (land'lin), n. 1. An overland telegraph-line, as distinguished from a marine cable.—2. In fishing, a line passing from the end of a seine to the shore. Knight, Dict. Mech. Sup., 1884.

land-lobster (land'lob ster), n. A land-crab or robber-crab.

land-lock (land'lok), n. 1t. The state of being shut in, or almost shut in, by land .- 2. A landlocked place, as a harbor or valley.

landlordly (land 'lôrd-li), a. [landlord + -ly1.] Like a landlord or pertaining to a landlord.

land-marshal (land'mär"shal), n. 1. A provincial marshal in Prussia and some other parts of the German Empire.—2. The speaker or presiding officer of the first Chamber of the Swedish Diet.

land-mere (land 'mēr), n. A boundary of a parish, county, etc.

landocracy (lan-dok'ra-si), n. [land1 + Gr. -κρατία, (κρατέν, rule.] A class which rules or controls by virtue of its ownership of landed property. [Hnmorous.] landocrat (lan'dō-krat), n. One who belongs

to the landocracy.

land-office, n.—A land-office business, a 'rushing' husiness; a boom. The allusion is to the brisk work of the local government land-offices in the western United States when they are besieged by applicants for land patents on the occasion of opening new lands to settlement. [Slang.]

It [the Santiago mill] is owned by the Union Mill and Mining Company, which once did a land-office business in

ore crushing.

Rep. to House of Representatives, Precious Metals, IS81,

[p. 153.

land-packet (land'pak"et), n. A name formerly given jocosely, in the newly settled parts of the western United States, to any vehicle undertaking a passage across the plains: later it

air, and less valuable kind of asphalt obtained from the pitch lake in the island of Trinidad. Compare *lake-pitch.
land-rail, n. 2. A general name for any member of the rail family that, like the New Zea-

land weka rail, frequents uplands instead of marshes.

Two of the most interesting birds are land rails of the genus Cabalus. Yearbook U. S. Dept. Agr., 1898, p. 90.

land-relief (land'rē-lēf"), n. Surface form; topography.

The relation of rain, wind and land-relief was, in fact, strikingly illustrated by our experiences.

Geog. Jour. (R. G. S.), XV. 463.

Lang. An abbreviation (a) of Languedoc; (b) [l. c.] of language.

coal at the pit, as distinguished from disposal by see

by sea.

landscape, n.—Classic landscape, a term used to describe the landscapes painted in the seventeenth and eighteenth centuries, especially in Italy, which were based on a feeling for architectonic arrangement of lines and masses rather than for the effects and qualities of nature.—Landscape-architect, an architect skilled in the arrangement of parks and gardens, and especially of their architectonic features, such as fountains, terraces, etc.—Landscape architecture, a term introduced to denote the treatment of handscape in a formal way, with especial attention to the exact disposition of paths, lawns, groups of trees, flights of steps, vases, statues, etc. It implies a more formal style of work than landscape-gardening. It may also include the harmonious arrangement of buildings in groups.

landscape-marble (land'skāp-mār"bl), n. A

landscape-marble (land'skāp-mär"bl), n. A dense limestone in which, along cracks or cleavage-planes, there has been deposited oxid of manganese in dendritie forms. land-scot + (land'skot), n. A tax on land for

the support of the church, formerly levied in Langobardic (lang-gō-bar'dik), a. See Longo-

some parishes. [Eng.] land-sculpture (land skulp tūr), n. The production of the forms of the land by the various processes of erosion; earth-sculpture.

land-service (land'ser"vis), n. of the army on land, as opposed to that of the navy on the sea.—2. The army; that branch of the armed forces of a country which serves on land.

landshard (land'shärd), n. A strip of grass or

Land-slip terrace, an irregular beach on a slope, resulting from a land-slip.

landslipped (land'slipt), a. Marked or dam-

aged by land-slides or -slips.

landslippy (land'slip'i), a. Liable to land-slides or -slips. N. E. D.

land-take (land'tak), n. See the extract. Until a Parliament for Iceland was established in 930 these chieftains were the rulers of the island, each in his district or land-take (land-nam), as it was called.

Smithsonian Rep., 1906, p. 287.

land-tied (land'tid), a. Said of coast forms which have been joined to the mainland or to



A Land-tied Island near Genoa, Italy.

each other by the growth of reefs or sand-spits.

each other by the growth of reefs of sand-spies. W. M. Davis, Elem. Phys. Geog., p. 314.

Landward climate. See *climate.
landward-bred (land'wärd-bred), a. Country-bred; rustie. Scott, Old Mortality, xiv.
[Seetch.]

landwardness (land'wärd-nes), n. Country. breeding; rusticity. Stevenson, Fam. Stud., 61. [Scotch.]

land-water (land'wâ/ter), n. 1. Fresh water flowing over the land; flood water; the water of lakes, rivers, springs, etc., as opposed to sea-water.—2. Open water between the ice of a frozen sea and a coast.

Fortunately a south-westerly gale sprang up, which opened up the ice, and on September 7 let us through into the land-water. Geog. Jour. (R. G. S.), XI. 115.

lane¹, n. 4. In sprint-races, the space between cords, strung about 18 inches apart, which mark the straight courses of the comnetitors. The eords are held by iron stakes, about two feet in height, driven into the ground.

Lane's law. See *law1.

lane-snapper (lân snap er), n. A common name of Lutianus synagris, a lutianoid fish found from the Florida keys to Brazil.

Langbeint (ang bin-1t), u. [Named after A. Langbein.] A potassium-magnesium sulphate $(K_2Mg_2(SO_4)_3)$ occurring in colorless isometric erystals. It is found with rock-salt at various localities in Germany.

Lange-James theory. See *James-Lange

Langerhans's island. Same as Langerhans's

cell. See also *island.

Langhian (läng'gē-an), a. and n. [Langhe, in Italy, +-ian.] I. a. In geol., pertaining to the lowest division of the Miocene Tertiary in The formation is also known as the Burdi: +-ie.] Same as allanturic.

France. The formation is also known as the Burdi: +-ie.] Same as allanturic. France. The formation is also known as the *Burdigalian*. Its deposits are of fluviatile origin and contain a great abundance of terrestrial mammalian remains.

II. n. The Langhian divisiou. langka (läng-kä'), n. [llocano name.] Same as *nangka, 2.

bardian.

The prohe various e. langoor, langour², n. Variants of *langur, a name applied to several large monkeys of the genus Presbytis.

1. The service langosta (län-gos'tä), n. [Sp., a locust: see locust.] Any injurious locust or grashopper: so called in Spanish America and, to some extent, in the southwestern United States.

langoti (lun-go'ti), n. [Also langoty, langotéc, lungoti, < Hind. langoti.] In India, a narrow strip of eloth passed between the legs and fastened before and behind to a string around the waist: woru by men and boys. unplowed land between two plowed pieces.
[Prov. Eng.]

land-side, n. 2. The side of the land facing the water; the shore.—3. The side (of an Langton's forester. See *forester.

the water; the shore.—3. The side (of an object) which faces the land rather than the water.

Land-slip terrace, an irregular beuch on a slope, resulting from a land-slip.

Landslipped (land'slipt), a. Marked or damaged by land-slides or -slips.

Landslippy (land'slip'i), a. Liable to land-slides or -slips.

Land-take (land'tak), n. See the extract.

Land-take (land'tak), n. See the extract.

The essential characteristic of logistic language is that its sematology is universal, so that the meaning of any character et the meaning assigned to it by the user—it is the special language of reasoning and avoids all ambiguities of other languages due to the multifarious meanings of single words.

J. W. Powell, in An. Rep. Bur. Amer. Ethnol., 1898-99,

Negrito languages, dialects spoken by Negritos, Papuans, or Melanesians.—Sign language, a means of communication in which signs made with the hand and other gestures take the place of articulate speech. Sign language is used by deaf-mutes, but also by many primitive tribes. It is highly developed among the Indians of the Great Plains of North America.—Whistle language, communication between individuals by means of whistling with the nouth, the sound being varied and used to convey definite ideas: practised on the Canary Islands and among the Berbers in Timis.—Zone of language, the area of the brain in which are located the centers of sight, hearing, vocal speech, and the muscular movements necessary in writing.

2. Same as language? n. 2. Same as languet (a).

sary in writing.

language², n. 2. Same as languet (a).

langue de bœuf (läng de bef'). [F. 'oxtongue.'] 1. A kind of spear or pike used in the middle ages, which had a rather broad, double-edged, pointed head.—2. A sword or knife having a large, flat, double-edged blade, broad at the base and tangering twent the broad at the base and tapering toward the point.

languidus (lang'gwi-dus), n. [L. languidus, '(he is) siek': see languid¹.] In law, a sheriff's return to a process, that the person it requires him to take into custody is too dangerously ill to be moved.

langur (lang-gör'), n. [Hind. langūr, < Skt. go-lāngūla, a kind of monkey.] A native name for several large Indian monkeys of the genus Presbytis, or Semnopithecus, the two best known being the hanuman or entellus, P. entellus, the sacred monkey of India, and the black Nilgiri langur, P. johnii.

Lang yao glaze. See *glaze.

laniatorial (lan "i-a-tō'ri-al), a. [Laniator-es

+-all.] Belonging to or resembling the Laniatores.

lanific (lā-nif'ik), a. [L. lanifieus, < lana, wool, + facere, make.] 1. Producing or bearing wool.—2. Spinning wool.

laniflorous (lā-nif'lō-rus), a. [L. lana, wool, + flos (flor-), flower, + -ous.] In bot., having woolly flowers.

lanoform (lan'ō-fôrm), n. [lan(ol) + form-(aldehyde).] Lanolin which contains 1 per eent. of formaldehyde.

lanoresin (lan-ō-rez'in), n. [L. lana, wool, + resina, resiu.] A dark-colored resin contained in the waste liquors from wool-washing. lanosity (lā-nos'i-ti), n. [lanosc + -ity.] Wool-

lansdowne (lanz'doun), n. [Named from a marquis of Lansdowne.] A light-weight fabric of silk and wool for women's wear.

lanson (län-son'), n. Same as lansa. [Philippine Islands.]

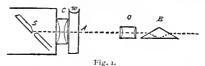
lant³, n. 2. Specifically, Ammodytes americanus. See sand-cel, 1.

lantaca (län-tä'kä), n. [Bisaya.] Among natives of the Philippine Islands, a piece of ar-[Bisaya.] Among

lantanine (lan'ta-nin), n. [Lantana (see def.) + -ine².] An alkaloid found in Lantana Brasiliensis. It is used in medicine as a substitute for quinine.

o- lantanuric (lan-ta-nū'rik), a. [(al)lant(uric) +-an +-uric.] Same as allanturic.
a lantern, n. 9. The misshapen proboseis (for-

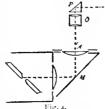
merly supposed to be luminous) of many tropical Fulgorida or so-ealled 'lantern-flies.' eal Fulgoridæ or so-called 'lantern-flies.'—
Ardois lantern, one of the electric lanterns in an Ardois signaling apparatus. See *signal.—Ballarat lantern, a rough-and-ready lantern formed by knocking off the bottom of a bottle and sticking a candle in the neck. [Local, Australia.]—Navylantern, a heavy lantern, well protected against injury by contact with ropes, etc., hung in a ship's rigging as an anchor-light.—Position-lantern, a light exhibited from a gaft-end or other conspicuous place, for the purpose of defining a vessel's position at night; a light shown to demonstrate the position of a vessel or other object aftest or ashore.—Projecting-lantern, an instroment for throwing upon a screen an enlarged image of a diagram, picture, or object, or of exhibiting by such projection to observers at a distance the progress of a scientific experiment or demonstration. The projecting-lantern is the development of the magic lantern invented by Kircher in 1646 (which see, under lantern). The modern form of this instrument as designed for the projection of lantern-slides is known as the stereopticon (see stereopticon). To adapt the lantern to the general purposes of scientific demonstration,



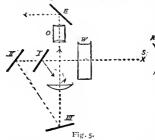
the form of the instrument is so modified as to admit of the introduction of apparatus in front of the condensingleness. The essential parts of such a lantern are shown in Fig. 1, in which S is the source of light, C a pair of condensingleness, O the object-leus, and A the field in which the object to be projected is placed. The light employed is usually that of the electric arc; but the lime-light is frequently used, and in some cases other and less powerful sources of light, such as a bank of acetylene burners with reflector, a Nerost lump, a glow-lamp with colled carbon filament, or even a gas or oil flame, may be employed. To secure the best possible illumination from the electric arc, the carbons are commouly set at an oblique angle, as shown in Fig. 2, thus exposing the crater, C, of the positive carbon to view; or a lamp is used in which the positive carbon las horizontal, as shown in Fig. 3.

Arc-lamps for use in lantern work are either provided with an automatic focusing-feed which holds the arc in a constant position as the carbons burn away, or are regulated by hand. The heat from a powerful source of light such as the electric arc is very great, and to prevent damage to lantern-slides, or to pieces of apparatus placed in the field, a glass cell filled with water (a, Fig. 1) is often placed between the condensing-lenses and the object. The real image thrown upon the screen by means of the object-lens is inverted. In the case of transparencies or lantern-slides, the object is therefore placed in the field in an inverted position, thus giving an erect image upon the screen. Where apparatus is to be projected, however, and an creet length of the projected in the field in an inverted position, thus giving an erect image upon the screen. Where apparatus is to be projected, however, and an creet length of the projected in the field in an inverted position, thus giving an erect image upon the screen. Many phenomena, such as capillary action as the erecting-prism, (E, Fig. 1), known as the erecting-prism, an





an arrangement in which the front condensing-lens is removed, and a mirror (M. Fig. 4) is mounted in front of the inner condenser so as to throw the light-vertically upward. The other condensing-lens is mounted above this mirror, and the apparatus or object the image of which it is desired to project is placed in the path of the vertical ray at 4. The object-lens, 0, is placed in the path of the vertical ray at 4. The object-lens, 0, is placed in the path of the vertical pan at the proper distance and the rays after emerging from it are reflected to a screen by a second mirror or reflecting-prism, P. In the forms of lantern already described transmitted light is used, but it is likewise possible by the use of reflected light from the surface of opaque objects to project images of these upon the screen. Various devices for the projection of opaque objects have been employed, and reflecting-lanterns are known under various names, such as the megascope, an early form, the reflector Recope, and the epidiascope. The last-named instrument, in which the difficulties of projection by reflected light have been as completely overcome as in any of the lanterns of this type, will serve to illustrate the features essential to them all. In the epidiascope, Fig. 5, the illuminating are, S, is placed in the focus of a parabolic reflector, R, the parallel rays from which pass through a large water-cell and a signal of the parallel rays from which pass through a large water-cell and a signal of the parallel rays from which pass through a large water-cell and a signal of the projection of parallel rays from which pass through a large water-cell and a signal of the project of t



through a large water-cell or cooling cham-ber, W, and are reflected ob-liquely downliquely downward by a plane mirror, I, upon the object at A, which is placed in a horizontal position. The

position. The principal difficulty in the projection of objects by reflection is that arising from lack of sufficient light, and this is obviated by the use of a powerful arc-lamp requiring from 30 to 50 amperes of current, such as is employed in search-lights and by the use of larger mirrors and prigus than those companyly employed in projecting. and this is obviated by the use of a powerfur archain requiring from 30 to 50 amperes of current, such as is employed in search-lights and by the use of larger mirrors and prisms than those commonly employed in projecting-lanterns. The greater size of the apparatus makes it possible, moreover, to show upon the screen objects having a diameter of 22 centimeters, whereas in ordinary lanterns the diameter of the field is 10 or 12 centimeters. When transmitted light is to be used, mirror I, which is alinged at the top, is swung upward out of the path of the rays, which then fall on mirror II and are reflected downward to a third mirror, III, at the base of the instrument. From the surface of this mirror the rays pass vertically upward through the condensing-lens and the object, and finally through the object-lens, O, to the erecting mirror, E, as before. For the projection of microscopic objects by means of a lantern, the ordinary object-lens is removed and a microscope objective is mounted at a suitable distance from the condensing-lenses in the axis of the rays. The real image of the object instead of being formed in the eyepiece of the microscope, which in this case is usually removed entirely, is focused directly upon the screen. For the demonstration by projection of the phenomens of polarized light, polarizing- and analyzing-prisms, which should be of large size, are similarly mounted in the path of the rays in tront of the condensing-lens and between it and the objective. For the projection of spectra a vertical slit is mounted in place of the slide-bolder and a dispersing-prism is placed in front of the object-lens.—Projection-lantern. See projecting-*tantern.—Tornado-lantern, a lantern in which the flame is so protected that it will not be blown out in a heavy wind or tornado.

| lantern-brace (lan'tern-brās), n. Naut., the metal fixture which secures a lantern in its place.

metal fixture which secures a lantern in its

place.

lantern-brass (lan'tern-bras), n. A skeleton casing placed in the stuffing-box of a steamengine cylinder and supplied with steam to

prevent air from leaking into the cylinder. lantern-fish, n. 2. Any fish belonging to the family Myctophidæ: most of them are of the deep seas, and have luminous spots or photophores. lantern-gear (lan'tern-ger), n. Same as lan-

tern-wheel.

lanternist (lan'ter-nist), n. [lantern + -ist.] One who uses pictures projected on a screen by a magic lantern, in illustration of a lecture, or the like.

lantern-man (lan'tern-man), n. 1. One who carries a lantern.—2†. One who empties privies by lantern-light; a night-man. N. E. D. -3. One who operates a projection or magic lantern.

lanternoscope (lan'ter-në-skëp), n. [lantern + Gr. σκοπείν, view.] In photog., a contrivance for viewing lantern-slides.

lantern-service (lan'tern-ser"vis), n. ligious service in which pictures thrown by

prepared for use in a stereopuron.

lanthana (lan'tha-nä), n. [NL., < lanthanum.] in the aodeminal wall just above the pures.

In chem., one of the rare earths, lanthanum laparo-elytrotomy (lap"a-rō-el-i-tret'ō-mi), n. [Gr. λαπάρα, the flank, + ἐλνιρον, sheath (va-

lanthanate (lan'tha-nāt), n. [lanthanum + -atc¹.] In chem., a compound of oxid of lanthanum with the oxid of a mere electropositive metal, as sodium lanthanate (NaLaO₂). lanthanin (lan'tha-nin) n. [Gr. λαυθάνειν, escape notice, + -in².] Same as *oxychromatin. Heidenhain, 1892. lanthonine lanthania.

lanthopine (lan'thō-pin), n. [Gr. λανθ(ἀνειν), cscape notice, $+\delta\pi \omega v$, opium, $+-ine^2$.] A colorless alkaloid. $C_{23}H_{25}O_4N$, centained in opium. It erystallizes in microscopic prisma,

lanugic (lā-nū'jik), a. [L. lanugo, woolliness, down, + -ie.] Derived from wool: noting an acid, a celerless compound, said to be formed by the action of barium hydroxid on wool. It

[Sp. Lanzarote, name of one of the Canary Islands.] A breed of large demesticated pigeons, almost as large as the runt, but having more of the reddish

laodah (lou'dâ'), n. [Chin. lao, old, venerable, + ta, great.] In Anglo-Chinese, a chief boatman; a skipper. Also lowdah.

lap3, v. t.—To lap out, to grind out or enlarge with a lap; hence to grind with anything resembling a lap.

lap³, v. t.—To lap out, to grind out or enlarge with a lap; hence to grind with anything resembling a lap.
lap³, n. 10. The tops of trees left in the woods in logging. Also lapwood.—11. The act of winding or being wound round a drum; the
lap*end (lap*end), n. That end of a cotton-picker or scutching-machine at which the cotton emerges in the form of a web, ribbon, in logging. Also lapwood.—11. The act of winding or being wound round a drum; the length of rope necessary to go round it once; also, the length of silk, tape, wire, or the like, also, the length of silk, tape, wire, or the like, necessary to go round anything once.—Lap aervice, in the postal service, a postal route on a railroad where several mail services pass on the same line for different destinations.—Negative inside lap, in a steam-engine:

(a) The failure of the valve, when in mid-position, to cut off the exhaust from either end of the cylinder. (b) The distance by which the valve, when in mid-position, falls to cut off the exhaust, or the distance the valve would have to travel from mid-position before the exhaust would be closed.—Steam lap, in a steam-engine: (a) A projection on the valve reaching beyond the outside edge of the steam-port when the valve is in its mid-position. It is designed to close the port before the end of the stroke of the piston, thus utilizing the expansive force of the steam. (b) Same as outside lap. See lap3, 3.

lapacho (lä-pä'chō), n. [Native name.] The name, in Argentina and Paragnay, of several trees belenging to the genus Tecoma, of the Bignomia family, and particularly of T. Lapacho,

Bignonia family, and particularly of T. Lapacho, a tree 50 to 70 feet high, yielding a bark used

in tanning and a valuable neavy wood, independent of the property of the prope

COCCH₂CH: C(CH₃)₂

low compound, C6H4 < сосон

found in lapacho wood from South America, and greenheart wood, Ocotea Rodiai, from lapis2 (lä'pis), n. [Tagalog.] A large boat of Surinam. It crystallizes in monoclinic prisms and melts at 140° C. Also called hydroxy-amylene-naphthalene-quinone.

lapactic (la-pak'tik), a. and n.

II. n. A laxative.

Lapageria (lap-a-jē'ri-ā), n. [NL. (Ruiz and Pavon, 1802), named in honor of the Empress Josephine, Marie Josephe Rose Tascher de la Pagerie (1763-1814), the first wife of Napoleon.]
1. A monotypic genus of the family Liliaceæ, comprising a brilliant-flowered and graceful comprising a brilliant-Howered and graceful twining plant, L. rosea, a native of Chile. The flowers are lily-like in form, hanging singly from the upper leaf-axils. There is also a white-flowered form in cultivation. Lapageriss are considered to require much skill in the growing, although they thrive well if a cool greenhouse is given them and they become well established. In the southern United States they may be grown in the onen.

2. [l. c.] A plant of the genus Lapageria. Laparocolpotomy (lap"a-rō-kol-pot'ō-mi), n. [Gr. $\lambda a\pi a \rho a$, the flank, $+ \kappa \delta \lambda \pi o c$, womb (vagina), $+ \tau o \mu \dot{\eta}$, a cutting.] In surg., the operation of opening into the vagina, after the abdominal section, in order to remove a child which cannot be born through the natural channel: a substitute for Cæsarean lappet, n. 4. In biol., a small lobe-shaped section in which the uterus is incised.

a magic lantern are used to illustrate the subject of the address. N. E. D. [Eng.] is lapraccystidotomy (lapra-rō-sis-ti-dot'ō-mi), n. [Gr. $\lambda \alpha \pi \delta \rho a$, the flank, $+ \kappa \delta \sigma \tau c$, bladder, $+ \tau o \mu \dot{\eta}$, a cutting.] In surg., the operation of opening into the bladder through an incision in the observation of the subject of the subj

gina), + roμή, a cutting.] Same as *laparocolpótomy.

Dr. Thomas was a bold and skilful operator. In obstetries he was an advocate of laparo-elytrotomy as a substetries ne was an autocase of regions stitute for casarean section.

Med. Record, March 7, 1903, p. 383.

laparohysteropexy (lap"a-rō-his-te-rop'ek-si), n. [Gr. $\lambda a\pi \acute{a}\rho a$, the flank, + $i\sigma \tau \acute{c}\rho a$, womb, + $\pi \eta \acute{c}\mu$, fastening.] Operative fixation of the fundus of the uterus to the anterior abdominal wall for the relief of falling of the womb.

laparoscopy (lap-a-ros'kē-pi), n. [Gr. λαπάρα, the flank, + -σκοπια, ζ σκοπείν, view.] Inthe flank, + $-\sigma\kappa \circ \pi \iota a$, \langle spection of the abdomen.

laparotome (lap'a-rō-tōm), n. [Gr. λαπάρα, the flank, + -τομος, < ταμεῖν, cut.] A form of scalpel employed in laparotomy.

lap-bobbin (lap'bob'in), n. A spool or bob-bin upon which something is wound or lapped, as the fleecy web or lap on a cotton-combing

machine.

lap-drum (lap'drum), n. A cylinder upon which a lap or web is wound, or which gives motion to a spool or bobbin upon which a lap or web is wound, as on some machines in a textile-mill. Thornley, Cotton Combing

or lap.

lap-game (lap'gām), n. Any game in which the scores made on one hand are carried to the next game if more than enough to win the first game; a variation of railroad euchre. See euchre, 1.

lap-guide (lap'gid), n. A device, in a cotton-combing machine, to guide the unwinding of the laps or webs of cotton.

Lapham or Laphamite markings.

*marking. lap-head (lap'hed), n. That end of a sentch-

ing- or picking-machine where the cotton lap is formed into a roll.

lapidicolous (lap-i-dik'ō-lus), a. [L. lapis (lapid-), a stone, + colere, inhabit, + -ous.] Living under stones: a term applicable to many insects, and especially to certain blind ground-beetles so accustomed to this life that

lapis¹, n.—Lapis Lacedæmonius, the name given by the ancients to a baselt found in the Peloponnesus, much used for gementing. A. J Evans, in Jour. of Hellenic Studies, XIII. 220.—Lapis specularis, an old name of the mineral selenite, or hydrated calcium sulphate (CaSO_{4.2}H₂O), in distinct crystals, the surfaces of which reflect light regularly as from a mirror.

small draught used for carrying merchandise.

[Philippine Is.]

apactic (la-pak'tik), a. and n. [Gr. λαπακτικός, lap-knee (lap'nē), n. Same as *bosom-knee. (λαπάσσειν, empty, evacuate.] I. a. Causing evacuations; laxative.

II 2. A largetic.

Laplacian, a. II. n. A Laplace's coefficient; a form Pm (cos γ), where γ stands for the angle between r and the radius vector r_1 of some fixed point.

lap-love (lap'luv), n. The small bindweed, Convolvulus arvensis.

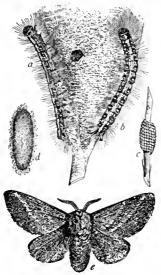
lap-machine (lap'ma-shēn"), n. A machine for preparing cotton in the form of laps for combing.—Silver lap-machine, a machine for con-solidating, attenuating, and forming into laps a number of slivers of cotton in the preparatory processes of combing

lapon (lä-pōn'), n. A common name of one of the scorpænoid fishes, Scorpæna mystes, of the Pacific coast of Mexico and Central America.

Lapp. An abbreviation of Lappish.

lappaconitin (lap-a-kon'i-tin), n. [L. lappa, a bur, + E. aconitin.] A crystalline alkaloid, C₃₄H₄₈O₈N₂, contained in the tubers of Aconitum septentrionale.

organ, such as the lappets of certain nemertean larvæ, etc. -5. Same as tegula. -6. In paleon., an ear-like crest formed in some nautiloid cephalopods, as *Lituites* and *Ophidioceras*, by an extension of the lateral margins of the aperture of the shell.—American lappet, a lasio-campid moth, Malacosoma americana, common in the Atlantic United States, where its larve feed on the foliage of apple, cherry, oak, birch, maple, and ash.—Esopha-



American Lappet (Malacosoma americana). a, b, tarva on section of nest: c, egg.mass on twig; d, cocool
e, female moth: a-d, reduced one third; e, slightly enlarged marginal processes, a pair of which is located in each of eight notches occurring at equal intervals around the edge of the numbrella. In each notch a sense-organ is lodged and is protected by the lappets.

lappet-moth, n.—Velieda lappet-moth, an American lasiocampid moth, Tolype relleda, found throughout the United States. Its larvæ live on apple, pear, poplar, and other trees.

lappet-muslin (lap'et-muz"lin), n. A muslin which figures have been woven on the

machine for cutting, pointing, and cutting the lap in barrel-hoops, preparatory to placing them in the coiling-machine.

Lapponic (la-pen'ik), a. [NL. Lapponicus, < Lapponia, Lapland.] Same as Lappish. lap-rivet (lap'riv"et), v. t. To lap and rivet;

lap-rivet (lap'riv'et), v. t. To lap and rivet; to fasten with rivets, as two parts or edges which are lapped one over the other.

lap-riveting (lap'riv'et-ing), n. A method of riveting in which two parts are lapped and riveted together. See *butt-riveting.

lap-robe (lap'rōb), n. A fur robe or a blanket nsed to cover one's lap and feet when riding in a carriage or sleigh. [U. S.]

laps, n. and v. A simplified spelling of lapse.

lapse, v. t. 2. To be found lapsing or erring.

[Rare.]

Only myself stood ont;

J Only myself stood out; For which, if I be lapsed in this place, I shall pay dear.

Shak., T. N., iii. 3.

lap, used in an engine or pump.
lap-wheel (lap'hwēl), n. Same as lap³, 5.
lap-winding (lap'win'ding), n. See *winding¹.

| lap-winding (lap-winding), n. See *winding!. Ing to the family Larchinde. |
| lapwing, n. - Wattled lapwing. Same as weatled plorer (which see, under veatled). |
| lapwood (lap'wûd), n. Same as *lapa, 10. |
| laquearian (lak-wē-ā'ri-an), a. [L. laqueari-us + -an.] Same as *laqueary, a. |
| laqueary! (lak'wē-ar-i), n. Same as laquear. |
laqueary2 (lak'wē-ār-i), a. [L. laquearius, <	largitional (lär-jish'on-al), a. [LL largition-laqueary, anoose.]
laqueary3 (lak'wē-ar-i), a. [L. laquearius, <	largitional (lär-jish'on-al), a. [LL largition-laqueary, anoose.]
laqueary4 (lak'wē-ar-i), a. [L. laquearius, <	largitional (lär-jish'on-al), a. [LL largition-laqueary, anoose.]
lage of the family Larchinde.	
large, n. - Statutes at large. See **statute.	
largemouth (lärj'mouth), n. Same as large-mouth (lärj'mouth), n. Same as large-mou gladiator.	

laqueche (lä-kāsh'), n. [A Canadian F. form of an Indian name.] A name of Hiodon alasoides, a clupeoid fish of the family Hiodontide, found in the upper Mississippi valley.

lariat (ar 1-at), r. t. [aratu, n.] To eaten of fasten with a lariat; lasso.

laricic (lä-ris'ik), a. [L. larix (laric-), larch, +-ic.] Derived from the larch.—Laricic acid, a colorless compound, C₁₀ll₁₀O₅, found in the bark of

geal lappet, in actinozoans, as the sea-anemone, a lobe projecting from the lower, free edge of the gullet at each end of its long diameter.—Marginal lappet, in Scyphozoa, as the common jellyfish, one of the delicate

This mountain system of North America, which stands as the Mesozoic time boundary, is the *Laramude* system.

Dana, Manual of Geol. (4th ed.), p. 874.

larbolines, n. pl. See larbowlines. larcenic (lär-sen'ik), a. Same as larcenous. larch, n. 2. A commercial name for the lumber of the noble fir, Abics nobilis. See noble *fir.

- Larch blister, canker, saw-fly. See *hbitser, etc.
larch-scale (lärch'skāl), n. A scale-insect found on larch, probably Aspidiotus abictis.

Larcoidea (lär-koi'dē-ä), n. pl. [NL., < Gr. λάρκος, a charcoal-basket, + είδος, form.] A family of spumellarian radiolarians having the

skeleton irregularly lenticular or discoid.

Lard butter, compound. See *butter1, *compound1.—
Neutral lard, a product obtained from the leaf-lard of
the hog, by treatment similar to that by which oleo oil
is made from beef fat, except that no stearin is extracted:
used in making the kind of imitation of butter known as
butterine.—Rough lard, lard from the smaller portions
of adipose tissue cut away in butchering the hog.

larder³ (lär'der), n. One who lards, as meatlarder-fly (lär'der-fli), n. Same as larder-beetle. with mirrors, used to attract larks to the net.

lardiform (lär'di-fôrm), a. [L. lardum, lard, + forma. form.] Same as lardaceous.
lardine (lär'din), n. [lard + -ine².] An imitation of lard, consisting chiefly of the more solid portion of cotton-seed oil.

larding-money (lär'ding-mun'i), n. In Eng. law, a small sum paid by the tenants, according to the custom of the manor of Bradford, for the privilege of feeding hogs with acorns in the lord's woods.

lard-insect (lärd'in "sekt), n. Same as bacon-

lappet-caterpillar (lap'et-kater).
The larva of a lappet-moth.
lappet-loom (lap'et-löm), n. A loom for lappet-weaving, in which needle-frames are lappet-weaving, in which needle-frames are carried in front of the reed for producing the carried effects.

Lardizabala (lär-di-zab'a-lä), n. [NL. (Ruiz and Pavon, proposed in 1794, established in 1798), named in honor of Michael Lardizabala village a Spanish patron of botany.] A genus Uribe, a Spanish patron of Michael Lardizabaly Uribe, a Spanish patron of botany.] A genus of plants, type of the family Lardizabalaccæ. They are twining shrubs with alternate, once to thrice ternately compound leaves, and dioctous flowers, the pistillate ones borne singly on axillary axes, the staminate in axillary racemes. There are two species, natives of Chile, one of which, L. biternata, is entitysated out of doors in southern California and the warmer parts of Europe.

in which naures have lappet-loom.

Iappet-shedding (lap'et-shed'ing), n. A system of dividing the warp-threads in a leom to allow certain other warp-threads to move transversely te form a figure by means of gaging-needles.

Iappet-wheel (lap'et-hwel), n. A part of a lappet-loom for weaving lappet figures.

Iappin (lap'in), n. A crystalline substance of glucosidal nature, said to be obtained from burdock fruit.

Iapping-machine, n. 2. In barrel-making, a machine for cutting, pointing, and cutting the machine for cutting, pointing, and cutting the glucosidal through the complex of which, L. biternata, is cultivated out or ucoas in southern California and the warmer parts of Europe.

Lardizabalaceæ (lär'di-zab-a-lā'sē-ē), n. pl. [NL. (Lindley, 1847), \lambda Lardizabala + -aceæ.]

A family of dicotyledonous choripetalous plants of the order Ranales, based on the genus Lardizabalaa. It has hece included by some authors in the Berberidaceæ, from which, however, it differs in its many-seeded fruit, extrorse anthers, and differs in its many-seeded fruit, extrorse anthers, and differs in its many-seeded fruit, extrorse anthers, and differs in the mary-seeded fruit, extrorse anthers, and differs in the many-seeded fruit, extrorse anthers, and differs

Belenging to the plant family Lardizabalacee.

lard-worm (lärd'werm), n. See *kidney-worm.

lardy-dardy (lär"di-där'di), n. and a. [Another form of *ladidadly, < la-di-da: see *la-di-da:]

I. n. A swell; a daudy; a fop. The word first appeared in or about the early sixties in the theaters and letan is Lardizabalace.

Lardy-dardy (lär"di-där'di), n. and a. [Another form of *ladidadly, < la-di-da: see *la-di-da:]

I. n. A swell; a daudy; a fop. The word first appeared in or about the early sixties in the the summer were larkspurred; that the sheep having trod upon a lark's nest, the old one . . . had spurred the intruder in the eye.

J. Lawrence, Cattle, p. 531 (ed. 1809). N. E. D. ardy-dardy (lär'di-där'di), n. and a. [Another form of *ladudady, < la-di-da: see *la-di-da.]

I. n. A swell; a dandy; a fop. The word first appeared in or about the early sixties in the theaters, and later in London music-halls.

N. and Q., 9th ser., VIII. 19.

II. a. Fashionable; dandified; 'killing.'

[Slang.]

[Slang.]

With our tardy-dardy garments we were really "on the spot,"
And Charlie Vain came ont so grand in a tall white

Chimney-pot.

A. C. Hitton, in The May Exam., quoted in N. and Q., 9th [ser., VIII. 270.

lardy-dardy (lär'di-där'di), v. i.; pret. and pp. lardy-dardied, ppr. lardy-dardying. To linger or dangle about in an affected, 'lardydardy' way.

lap-valve (lap'valv), n. A slide-valve with larentiid (la-ren'ti-id), n. and a. I, n. A mem-

ber of the lepidopterous family Larentiidæ.

II. a. Having the characters of or belonging to the family Larentiidæ.

lariat (lar'i-at), v. t. [lariat, n.] To eatch or fasten with a lariat; lasso.

the smaller branches of larch-trees which are not more than from 20 to 30 years old. It is volatile with steam and sublimes at 93° C., forming lustrous monoclinic crystals which melt at 153° C.

beds of the Cretaceous as their uppermost Larimus (la-ri'mus), n. [NL., \langle Gr. $\lambda \acute{a}\rho\iota\mu oc$, a member.

This mountain system of North America, which stands the Negrozia time boundary is the Legenvide system.]

Agenus of fishes belonging to the family Sciænida, the croakers, found on both coasts of America.

larinoid (lar'i-noid), a. [Gr. λαρινός, fat, + tidoc, form.] Same as lardaceous.

laris (lā'ris), n. The Atlas cedar, Cedrus At.

lantica. See cedar, I.
larixinic (lā-rik-sin'ik), a. Same as *laricic.

lark I, n .- Brown song-lark, Cinchloramphus cruralislark-heel (lärk'hēl), n. A long projecting heel.

Neither the colour nor the hair are regarded as important ethnical tests, and the length of the heel alone [Negro" lark-heel"] is held to be an undoubted proof of Negro origin.

keane, Ethnology, p. 390.

lark-heeled, a. 2. Having a long, projecting heel. See *lark-heel.

larking (lar'king), a. Larky; froliesome; of

the nature of a lark.

I have learned to leap, . . . which is a larking thing for don.

J. H. Newman, Letters, I. 182. N. E. D.

At that place [Dunstaple], persons go out with what is called a larking glass, which is, . . a machine made somewhat in the shape of a cucumher.

S. R. Jackson, in Hone, Every-day Book, II. 118.

larkish (lär'kish), a. [lark² + -ish¹.] Rather

larky; inclined to be larky.

larkishness (lär'kish-nes), n. The quality or condition of being larkish.
lark's-claw (lärks'klå), n. See lark-spur.
lark's-head (lärks'hed), n. A knot

made by doubling the bight of a rope, passing it around a spar, or through a ring or hook, and then bending it down, spreading it out, and slipping a toggle through the four parts (across the two outer and under the two inner). It is finished by a half-hitch around the standing part with the loese end so that it will not slip when a strain is put upon it.

larksome (lärk'sum), a. [lark2 +-some.] Disposed to be larky; frolicsome.

posed to be larky; frolicsome.

larkspur, n.—Azure or blue larkspur, Same as Carolina *larkspur.—Carolina larkspur, Delphinium Carolina harkspur, Delphinium Carolinalum, a blue-flowered species of the southern United States.—Dwarf larkspur, Delphinium tricorne, a low but stout species ranging from Pennsylvania to Georgia and west to Minnesota and Arkansas. The flowers are deep blue, but sometimes vary to nearly white.—Nelson's larkspur, Delphinium Nelsoni, a blue-flowered species of the Great Plains.—Prairie-larkspur, Delphinium albescens, a species with white flowers slightly tinged with blue and bluish spots on the sepals, found in prairie regions from Illinois to Manitoba and south to Kansas and Arkansas. It was formerly regarded as a white-flowered form of the Carolina larkspur.—Tall larkspur, Delphinium urceolatum, a tall species with purple or blue thowers, ranging from Pennsylvania to Alabania and west to Minnesota and Nebraska.

larkspurred (lärk'sperd), a. Said of sheep.

larnax (lär'naks), n.; pl. larnakes (-na-kēz). [Gr. λάρναξ, a box, chest, ark, coffin.] In Gr. antiq., a chest or box; a box-like receptacle of terra-cotta, found in early Greek or Mycenæan tembs: often painted.



Terra-cotta, from Palaikastro, Crete.

Terra-cotta, from Palaikastro, Crete.

(From "Annual of the British School at Athens.")

Nearer the city two tombs of the same period were discovered: the one, a square chamber with a dromos, yielded parts of two painted larnakes, thoroughly Mycenean in design, a gold ring, a crystal sphere, parts of a silver vase, and a quantity of iron swords.

Rep. Brit. Ass'n Advancement of Sci., 1901, pp. 444, 445.

larrid (lar'ld), n. and a. the hymenopterous family Larridæ.

II. a. llaving the characters of or belong-

ing to the family Larrida.

larrigan (lar'i-gan). n. [Origin unknown.] A boot of undressed leather, worn principally by lumbermen. Cleveland Plain Dealer, Dec.

larrikinalian (lar'i-ki-nā'li-an), a. [larrikin + -alian as in bacchanalian.] Larrikin; characteristic of a larrikin.

In the larrikinalian din which prevailed from start to

Evening Standard, July 5, 1893, p. 4, quoted in E. E. (Morris, Austral English.

larry² (lar'i), n. [Origin obscure.] 1. Confusion; tumult.—2. A scolding; a lecture. [Prov. Eng.]

larry³ (lar'i), a. and n. [Origin obscure.] I. a. Misty: applied in the Teign valley, England, to a land-fog coming down the estuary, as distinguished from a sea-fog running up the river. Eng. Dial. Dict.

II.n. The fog itself. Nature, quoted in N. E. D.

In. The fog itself. Nature, quoted in N. E. D. larva, n.—Desor's larva, a type of larva occurring antong Nemertinea. It resembles a pilidium, but lacks the free-swimming phase.—Mitraria larva, in chætopodons annelids, a larva having long provisional setæ which are later replaced by permanent structures.—Müller's larva, in some polyclad turbellarians, as Yunqia, a larva having finger-shaped ciliated lobes, which becomes transformed into the young polyclad by the gradual diminution of the lobes.—Phantom larva, the aquatic larva of a non-biting mosquito of the genus Corethra, which possesses no hemoglobin and is so nearly transparent that, resting below the surface of a pool of clear water, it can hardly be distinguisbed.—Queen larva, the larva of a queen-bee, a queen-ant, or a queen-termite.

We are practically reduced to the use of olls in this larvicidal work.

L. O. Howard, Moaquitoes, p. 197. larvicide (lär'vi-sīd), n. [NL. larva + L. -cida, (cædere, kill.] One who or that which kills larvæ; specifically, any substance used for the destruction of the larvæ of mosquitos.

The same authorities [Celli and Casagrandi] recommend for killing mosquitoes] a powder composed of larvicide (an aniline substance), chrysanthemum flowers, and valerian root, to be burnt in bedrooms. Encyc. Brit., XXX. 485.

larvicolous (lär-vik ő-lus), a. [NL. larva + L. colere, inhabit.] Living within insect larvæ: said of many hymenopterons and dipterous parasites.

larvigerous, a. 2. Giving birth to living larvæ,

as certain flesh-flies.

larvule (lär'vil), n. [NL. larvula, dim. of larva, larva.] One of the early stages of certain ephemorid larvæ in which there is no circula-

ephemeria larvæ in which there is no circulatory system and no apparent nervous system.

Laryngeal chorea, crisis, vertigo. See *chorea, etc.

Laryngeal mirror. See *mirror.

laryngitis, n.—Membranous laryngitis, croup.

Phlegmonous laryngitis, severe inflammation of the submucous connective tissue as well as of the mucous membrane of the larynx.

laryngograph (la-ring go-graf), n. [Gr. λά-ρυγξ, larynx, + γράφειν, write.] In physiol. and psychophys., an instrument for recording the movements of the larynx, voluntary (in speak-

ing) or involuntary. laryngometry (lar-ing-gom'c-tri), n. [Gr. λά ρυγξ, larynx, + ·μετμα, ζ μέτρον, measure.] Measurement of the larynx.

laryngopharyngeal (lā-ring/gō-fā-rin'jē-al),
a. Relating to both larynx and pharynx.
laryngopharyngitis (lā-ring/gō-far-in-jī'tis),
n. [NL., < Gr. λάρυγξ, larynx, + δάρυγξ,
pharynx, +-itis.] Inflammation of both larynx and pharynx.

Hemorrhage from the laryux.

laryngospasm, n. 2. Same as laryngismus. laryngospasis (lar-ing-gos'tā-sis), n. [NL., < Gr. λαριγξ, larynx, + στάσις, standing.] Contraction of the vocal cords in spasmodic croup. laryngostroboscope (lā-ring-gō-strob'ō-skōp), n. [Gr. $\lambda \delta \rho vy\xi$. larynx, $+\sigma \tau \rho \delta \beta \sigma \zeta$, a twisting or whirling. $+\sigma \kappa \sigma \pi \epsilon i v$, view.] A form of stroboscope used in observation of the vibration of the scope used in observation of the vioration of the vocal cords. Scripture, Exper. Phonet., p. 250. laryngostroboscopy (lā-ring@gō-strō-bos kō-pi), n. [laryngostroboscope + -y³.] Inspection by means of the laryngostroboscope of the vocal cords in action or while vibrating. laryngotracheitis (lā-ring"gō-trā-kē-ī'tis), n. [NL., ζ Gr. λάρυς, larynx, + τραγεία, trachea, + -itis.] Inflammation of the larynx and the

laryngotyphoid (lā-ring-gō-ti'foid), n. [Gr. λάρυγς, larynx, + E. typhoid.] Typhoid fever with marked laryngeal complications.

L. A. S. An abbreviation of Lord Advocate of Scotland. 3. An artilleryman of an inferior lascar, n.

class; a gun-lascar. N. E. D. lascaree, n. 2. An East Indian sailor. See

lasear. laserpitin (la-ser'pi-tin), n. [Laserpitium + -ine²] A colorless compound, C₂₄H₃₆O₂, found in the root of Laserpitium latifolium. It crystallizes in rhombic prisms, melts at 114° C., and sublimes without decomposition.

corethra, which possesses no hemoglobin and is so nearly transparent that, resting below the surface of a pool of clear water, it can hardly be distinguished.—Queen larva, the larva of a queen-bee, a queen-ant, or a queen-termite.

larvaceous (lär-vä-shius), a. [larva + -accous.] 1. Resembling a mask: said of extensive cutaneous diseases of the face.—
2. Same as *larval, 2. larval-larg, from the oral surface. (From the oral surface. (From the said of a disease of which the symptoms are indeterminate.—Larval eye. See *eye1. larvalian (lär-vä-li-an), a. and n. Of or pertaining to the Larvalia; one of the Larvalia. larvicidal (lär'vi-si-dal), a. [larvicide + -all.] Pertaining to the killing of larvæ or having the property of killing them.

We are practically reduced to the use of oils in this larvicidal work.

Lo. Howard, Magaquitoes, p. 197.

Lang form the oral surface. (From the oral surface. (From the oral surface. (From the oral surface.) (From the oral su

campidæ. II. a. Having the characters of or belong-

ing to the family Lasiocampidæ.

lasiocarpous (la si-ō-kar pus), a. [Gr. λάσιος, hairy, woolly, + καρπός, fruit.] In bot., having woolly fruit.

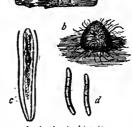
Lasiograptus (lā "si - ō - grap 'tus), n. (Gr. λάσιος, hairy, + γραπτός, engraved: see graptolite.] A genus of Lower Silurian grapgraptolite.] A genus of Lower Silurian grap-tolites of the family Retiolitidæ, which is pecu-liar in so far as the fiber-like processes of the apertures unite to form an outer network.

Lasiosphæria (lā″si-ō-sfē'ri-ā), n. [NL. (Cesati and De Notaris, 1863), < Gr. λάσιος, hairy, + σφαίρα, sphere.] A

large genus of pyrenomycetous fungi of the family Sphæriaceæ, having separate su-perficial perithe-cia clothed with brown hairs. The brown hairs. The spores are cylindrical, hyaline or brownish, and several-septate. About 40 species have been described, occurring mostly on decaying wood. L. hirsuta is a common species in Europe and America. lassitudinous(lasi-tū'di-nus), a. [L. lassitudo (-din-), weariness,+-ous.] Languid; apt to be languid; show-

ing the effects of languor.





Lasiosphæria hirsuta. a, habit of the fungus; b, perithecium, enlarged; c, ascus with immature spores and paraphyses, magnified; d, ascospores, more highly magnified. (From Engler and Prantl's "Phanzentamilien.")

I. n. A member of laryngoplegia (lā-ring-gō-plē'ji-ā), n. [NL., lasso-harness (las'ō-hār"nes), n. A working-ly Larridæ.

aracters of or belonga.

[Origin unknown.] A

[Origin

lasting-machine (las'ting-ma-shen"), n. In shoe-manuf., a machine for drawing, stretching, and bending the upper of a shoe over the last and preparing it to fit and join the sole and preparing it to it and join the sole and heel. It repeats, essentially, the operations performed by hand with a laster, and inacrts and drives tacks into the edge of the upper, to hold it in place while the shoe is sewed, wired, or nailed.

lata (lä'tä), n. [Jav. lata, Malay lātah.] A form of 'hysteria' or nervous disturbance common among the people of Java and other parts of Malaysia, in which they echo or iminitial illumentary hybriday or actions of tate in a silly manner the words or actions of other persons and chatter absurdly.

The nervous affliction called latah, to which many Malays are aubject, is also a curious trait of the people. The victims of this affliction lose for the time all self-control and all sense of their own identity, initating the actions of any person who chances to rivet their attention.

Encyc. Brit., XXX. 496.

latch² (lach), n. A tanners' pit, sunk below the general level of the ground, in which ooze is prepared from tan-bark or other similar material by leaching it with water. A contraction of latch- or leach-pit.

latch-bolt (lach bolt), n. Any latch or door-bolt, controlled by a spring and having a beveled head which, when the door is closed, is pressed back by meeting the strike and is thrown out again when the door is shut: the common form of self-locking bolt.

latchet² (lach'et), n. [Also latchett; origin obscure.] A fish, Trigla cuculus, of the family Triglidæ, found on the west coast of Europe and in the Mediterranean Sea.

latching-key (lach'ing-kë), n. Naut., the center lasket which prevents the others from Naut., the unreaving

latch-needle (lach 'nē "dl), n. A knitting-machine needle with a hinged latch or catch

so arranged as readily to take on and throw off the yarn-loop in the process of knitting: invented by Matthew Townsend, Leices-ter, England, in 1849.

latch-pin (lach'pin), n. 1. A pin for raising the latch of a door.—
2. A pin which catches some part of a mechanism and holds it loosely; a catch-pin.

late1, a. 8. Slow or backward in bearing crops, because heavy, clayey, cold, sour, or unfavorably situated as regards the sun, or the like: as, late land.

The superfluous water which tended to make the land cold, sour, and "late" is removed, thus making the soil warmer and earlier; and by the admission of air g, hings; h, hook the acidity is slowly overcome.

Yearbook U. S. Dept. Agr., 1901, p. 436.

Latch-needle.

Latebrus (lat'e-brus), n. [NL., < L. latebra, a hiding-place, < latere, hide.] A subgenus of fishes, belonging to the Cheilodipteridæ, found in the West Indies.

in the West Indies.

laten² (lā'ten), v. i. and t. [late¹ + -en.] To grow late, or to cause to grow late.

Latent light, motions. See *light¹, *motion.

latentize (lā'ten-tīz), v. t.; pret. r ¹ pp. latentized, ppr. latentizing. To renear latent.

G. S. Hall, Adolescence, I. 266.

Lateolabrax (lā"tē-ō-lā"braks), n. [NL., appar. < L. latere, hide, + Gr. λάβραξ, a sea-fish.] A genus of serganjid fishes found on the coasts

genus of serranoid fishes found on the coasts of China and Japan.

of China and Sapah.

lateral I. a.—Lateral aberration. See *aberration.

—Lateral chain. Same as *receptor. See also *ximmunity, 5.—Lateral masses of the sacrum, lateral organ. See *sacrum, *organ!.—Lateral process. Same as *parapophysis.—Lateral secretion, septum, sinus. See *secretion, etc.

II. n. 3. A small ditch or distributary from secion annicipal invited in ditch

a main or principal irrigation ditch.

a main or principal irrigation dictar.

The location of the laterals furnishes an opportunity for the irrigator to show his skill. While the land is new, spreading water over it will be a difficult matter. It may be impossible to properly locate the main laterals at first, and supplemental laterals and dikes may have to be constructed.

Yearbook U. S. Dept. Agr., 1900, p. 505.

4. pl. In the pelecypod mollusks, the lateral hinge-teeth, those lying at the sides or ends of the hinge-plate, anterior or posterior to the median or cardinal teeth.—Farm lateral, a small distributing-ditch leading to or across the farms to be

lateralia (lat-e-rā'li-ā), n. pl. [NL., neut. pl. of L. lateralis, of the side: see lateral.] In

the capitulum or head of a barnacle, the lateral plates. These take on various shapes and are usually distinctly designated. Thus in the acorn-barnseles, or Balanidæ, there are rostrolateralia and carinolateralia, according to their position near the rostral and carinal plates.

Lateralis accessorius. See *accessorius.

lateralize (lat'e-ral-iz), v. t.; pret. and pp. lateralized, ppr. lateralizing. [lateral + -ize.]

To turn to the side; place on one side; make Therapeutic Gazette, Feb. 15, 1903, lateral. p. 74.—Lateralized operation. See lateral operation (under lateral) and lithatomy.

lateralizer (lat'e-ral-ī-zer), n. A muscle whose action serves to move the jaw sidewise, or

laterally. [Rare.]

There can be no doubt that in animals which chew the cud the internal pterygoid acts as a powerful lateraliser of the jaw.

Prac. Zool. Sac. Londan, 1901, I1. 665.

laterifloral (lat e-ri-flo ral), a. [L. latus bench or vise. Labour Commission, Glossary. (later-), side, + flos (flor-), flower, +-all.] In bot., having lateral flowers. Also lateriflorous. latherace (lath'ras), n. In weaving, the track

lateriflorous (lat-e-rif'lo-rus), a. Same as \star laterifloral. lateripulsion, lateriversion. See *lateropul-

sion, laterorersion.

laterization (laterirersion), n. In geol.,
the process of subaërial decay in certain rocks
which yields laterite. Geikie, Text-book of

Geol., p. 169. lateromedial (lat*e-rō-mē'di-al), a. Toward

the middle of the side.

lateroposition (lat*e-rō-pō-zish'on), n. [L. See cut under lathe¹. latus (later-), side, + positio(n-), position.] lathing-saw (lath'ing-sâ), n. A saw for cut-ting metal laths.

lateropulsion (lat*e-rō-pul'shon), n. [Also lateripulsion; < latus (later-), side, + pulsio(n-), driving.] A constant tendency to lateral movement.

laterotemporal (lat"e-rō-tem'pō-ral), a. [L. of making laths by splitting.

latus (later-), side, + E. temporal².] Pertaining to the lower or outer part of the temporal Producing lathyrism (which see).
region, according as the skull is compressed
lathyrin (lath'i-rin), n. [Lathyrin] or depressed.

In contrast to the Synapsida the cranium is short; the temporal region is primitively lenestrated by two distinct openings, the supra- and latero-temporal fenestre, bounded by the supra- and latero-temporal arches, one or both of which may secondarily disappear.

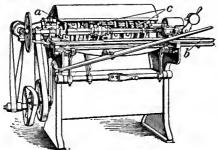
Amer. Nat., Feb., 1904, p. 105.

Laterotemporal arch, the lower of the two bony arches found in such a eranium as that of Hatteria.—Laterotemporal vacuity or fenestra. See *vacuity. lateroventral (lat"e-rō-ven'tral), a. [L. latus (later-), side, + E. ventral.] Situated low down on the side; toward the belly. Amer. Anthropologist, Oct.-Dec., 1903, p. 634. lath¹, n. 3. In mining, one of the sharpened

planks driven in advance of the excavation in sinking shafts in loose ground. See *forepale, 2.

planks driven in advance of the excavation in sinking shafts in loose ground. See *forepale, 2.

lathel, n...—Back-geared lathe, a lathe in which the work held between the centers is driven by a reducing train of gears from the cone-pulley, so that a high speed of belt is made to give a powerful turning effect against the cutting-tool. The cone-pulley carries a small gear which drives a large pinlon on a shaft at the back of the head-stock, and a second small pinlon on this back-gear shaft drives a larger gear on the spindle. The back-gear reduces speed and increases power.—Ball-turning lathe, a form of turning-lathe fitted with a special arrangement of its tool-holder for turning spherical surfaces.—Barrel-turning and -smoothing (or -sanding) lathe. See *sanding-machine.—Hat-finishing lathe, a machine for brushing, ironing, smoothing, and otherwise finishing a hat.—Iswelers' lathe, a asmall precision-lathe for use on a bench: much used by watch-makers and jewelers.—Lathe test-indicator. See *test-indicator.—Necking- and bulging-lathe, a spinning-lathe which has special attachments for forming the necks of spun-ware vessels and bending them into shapes having a bulge or swell at some point on the sides.—Side-rest lathe, a lathe equipped with a silde-rest, an attachment used principally for turning to exact dimensions and reduplicating sizes. See duplex tathe, under tathe!.—Spherical lathe, a lathe which has an attachment for turning balls or apheres.—Variety lathe, a high-speed wood-working lathe adapted to a variety of work, such as turning wood



Variety Lathe.

a, work in place between live- and dead-centers; δ, table with lateral traverse to bring work to cutters; ε, revolving forming-cutters, under dust-hood.

in intricate forms, as in making ornamental chair-legs, balusters, piano-stool posts, etc. The stock to be turned is placed between centers and is rotated as in any lathe, and by means of a sliding table is made to approach a long horizontal cutter-head, parallel to it, which carries a series of cutters. This cutter-head revolves at a high speed, and when the revolving stock is brought to the cutters it is rapidly turned to a form corresponding to the shape of the blades of the cutters. The cutters take the place of the chisels or other tools of the ordinary turning-lathe. Since the cutters admit of many changes, the machine is capable of doing a great variety of work. Capacity, 3,000 pieces in a day.— V's of a lathe, the V-shaped ways on a lathebed on which the tool-carriage and tail-stock slide.

707

lathe-bed (lath'bed), n. The upper or main part of the framework of a lathe, on which rest the head- and tail-stock and the tool-

carriage.

latheman (lāṭH'mau), n.; pl. lathemen (-men).
A brass-fluisher who is employed solely iu turning at the lathe and not in fitting at the

in which a shuttle runs.

lather-fungus (lath'ér-fung'gus), n. Any of the basidiomycetous fungi belonging to the genus Clathrus.

lathery (lath'er-i), a. [lather1 + -y1.] 1. Covered with soapy lather.—2. Covered with sweaty foam, as a horse.—3. Resembling lather; figuratively, unsubstantial, like foam. lathe-standard (lath'stan dard), n. A leg or

A-frame used as a support for a lathe-bed.

ting metal laths.

[Also lathing-staff (lath'ing-staf), n. A lathinghatchet; a hammer having a cutting-edge for trimming laths.

lath-rending (lath'ren ding), n. The process of making laths by splitting.

[Lathyrus + -ic.]

lathyrin (lath'i-rin), n. [Lathyrus + -in².]
A yellowish compound found in the seeds of Lathyrus sylvestris.

latifundian (lat-i-fun'di-an), a. [L. latifundium, a great estate, +-an.] Pertaining to or possessed of great estates or a great estate.

See latifundium. latigo (lä'tē-gō), n. [Sp. látigo.] A strap for tightening a saddle-girth.

latilamina (lat-i-lam'i-nä), n.; pl. latilaminæ (-nē). [L. latus, broad, + lamina, a thin plate.] In paleon., a term denoting one of the thick concentric strata of the hydrocoralline Stromatoporoidea, in distinction from the thin-

ner laminæ which are formed out of processes given off horizontally by radial pillars.

latimeandroid (lat*i-mē-au'droid), n. [Latimeandra + -oid.] A coral of the genus Latimeandra, of the family Thamasteriidæ and group Madreporaria fungida.

group Madreporaria fungida.

Latin. I. a.—Latin school. See *school!.—Latin square, Latin square problem. See *square!.—Latin union. See Latin. By the treaty (1865, gold coins and a silver coin based upon the five-franc piece, of uniform weight and fineness, were authorized, and it was provided that such coins should be of unilinited legal tender in the countries issuing them, and that these coins issued by any one of the states should be receivable in payment of public dues in all of the signatory states. It was provided that the minor silver coins should be of a uniform fineness of .835, that they should not be issued by any state in excess of six france per capita of the population, and that they should he legal tender to the extent of fifty frances in any one payment in the issuing state. Each state agreed to accept, in payment of public dues, such coina issued by the other states in payments not exceeding one hundred francs, while the issuing states were required to receive these coins in any amounts. By an agreement of 1874, renewed in 1875 and 1876, the quantities of silver to be coined in the several states were limited. In 1877 the coinage of the five-franc plece practically ceased, and gold became the mouetary standard, although the silver five-franc pieces atill retain their legal-tender quality.

II ... Felse Latin Letin not academically correct: legal-tender quality.

legal-tender quality.

II. n.— False Latin, Latin not academically correct; hence, any blunder, as an error in good breeding.

Our captain . . answered that he would not sput on his hat before the king, that they should not cause him to commit that false Latine.

G. Havers, tr. of P. della Valle, Travels in F. Iudia, p. [186. N. E. D.]

n. I. a. Of or pertaining to those peoples of America that speak Romance languages: particularly applied to the nations that speak Spanish or Portuguese.

II. n. A native of a Latin-American nation. Latinic (la-tin'ik), a. [Latin + -ic.] 1. Latin in a political sense; of or pertaining to the Latin nations, whether ancient or modern.—
2. Latin in a large sense; largely Latin: as,

"the prevalent Latinic character of the vo-

cabulary," J. A. H. Murray, in N. E. D.

Latinity, n. 2. The condition of being a
Roman citizen.

Latinizer (lat'i-nī-zer), n. 1. One who translates into Latin; one who makes conformable to the Latin Church; one who habitually uses Latin forms or idioms .- 2. A Latin scholar; a Latinist.

latiplantar (lat-i-plan'tär), a. [L. latus, broad, + planta, sole, + -ar³.] In ornith., having the tarsus rounded behind: contrasted with the laminiplantar tarsus of most birds.

[Rare.

hatisellate (lat-i-sel'āt), a. [L. latus, broad, + sellu, saddle, + -ate¹.] Having a broad saddle: used of the first or earliest suture in *asellate and *angustisellate. The latisellate condition is not a primitive but a secondary stage in the phylogeny of the ammonoids, and does not appear in the earliest representatives of the group.

latisept (lat'i-sept), a. [L. latus, broad, + swptum, septum, partition.] Same as *latisep-

latiseptal (lat-i-sep'tal), a. [latisept + -al¹.] Same as *latiseptate.

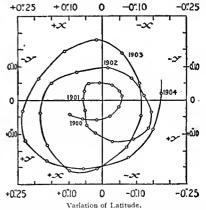
latiseptate (lat-i-sep'tāt), a. [latisept + -atel.] In bot., having broad partitions, as in the silicles of many cruciferous plants.

latite (la tit), n. [Latium, an ancient province of Italy, + -ite2.] In petrog., a name given by

Ransome (1898) to volcanic rocks intermediate in composition between trachyte and andesite: the lava equivalent of monzonite. They are characterized by the presence of orthoclase and lime-soda feldspar in nearly equal amounts, with subordinate ferromagnesian minerals. The term embraces trachyandesite, trachydolerite, ciminite, and vulsinite.

magnesian minerals. The term embraces trachyandesite, trachydolerite, ciminite, and vulsinite.

latitude, n.—Apparent celestial latitude, the apparent angular distance of a heavenly body from the ecliptic as viewed by an observer, and uncorrected for parallax, etc.—Geodetic latitude, latitude as determined by astronomical observations corrected for station error. See **error. The correction seldom exceeds a few seconds.—Geographical latitude, the angle between the polar axis of the earth and the direction of a radius drawn to the earth's center: the geodetic or geocentric latitude, as distinguished from the astronomical.—Kronocentric latitude, distance on the planet Saturn north or south of its equator.—Magnetic latitude, the angular distance north or south of an imaginary line passing around the earth midway between the magnetic poles.—Mean latitude. Same as middle latitude (which see, under latitude.)—Meridional difference of latitude, the amount which represents the same proportion to the difference of latitude that the difference of latitude, a minute change in the latitudes of places on the earth's surface, discovered at Berlin in 1889 and since fully verified. It never exceed a 3.%, and appears to be made up of two auperposed periodic variations with periods of one year and of fourteen months respectively. It is caused by a motion of the earth's axis within the globe, in consequence of which the pole of rotation wanders in an apparently irregular curve around its mean position, never, however, receding from it by more than about 30 feet. rently irregular curve around its mean position, never, however, receding from it by more than about 30 feet. See cut. This motion causes corresponding changes of



Course of the pole of the earth from 1900 to 1904. (Albrecht.)

longitude as well as of latitude. It is supposed to be mainly the result of periodical changes in the distribu-tion of matter on the earth's surface, due to the seasons and other causes; but the exact explanation is still ob-

Latin-American (lat'in-a-mer'i-kan), a. and latitudinary (lat-i-tū'di-nā-ri), a. [NL. latina.] a. Of or pertaining to those peoples of latitudinarius, < L. latitudo, latitude.] Same as tudinarius, < Ì latitudinarian.

latindmarian.
latomy (lat'δ-mi), n. [Gr. λατομία, a stonequarry, ⟨λατδμος, a stone-cutter, ⟨λᾶς, stone, +-τομος, ⟨ταμεῖν, cut.] A stone-quarry: applied especially to one of those of ancient Syracuse.
latreutic (la-trō'tik), a. Same as latreutical.
latron (lā'tron), n. [L. latro(n-), a robber.
Compare ladronc.] A brigand; a robber.

latronage + (lā'tron-āj), n. [latron + -age.]

Brigandage: robbery. latruncular (la-trung'kū lär). a. [L. latrunculus, a pawn at a game resembling chess, + - ir³.) Relating to or like the pawns in a

game resembling chess. latten, n. 3. A sheet-iron plate prepared for tinning, and ranging in thickness from .020 to .016 of an inch. Phillips and Bauerman, Elements of Metallurgy, p. 340.—White latten, this sheet-metal of the bronze class, usually in rolled plates, made of an alloy of copper, tin, and zine: distinguished from black latten, which is a true brass of copper and distinguished.

lattermost (lat'er-most), a. Last; latest. lattice, n. 4. In textile-manuf., an aprou or a conveyer made of laths or slats, and designed to carry material into a machine or from one machine to another. -5. In math., a net made of straight lines, vertical and horizontal, and inclosing rectangular compartments.

lattice-apron (lat'is-ā'prun), n. A flexible feed-table constructed of narrow slats, employed on textile-machinery to carry the raw

material into the machine; a lattice. lattice-bar (lat'is-bar), n. In structural work, particularly bridge work, one of the slender diagonal members which connect the two opposite parallel members or flanges of a structural iron or steel beam, celumn, er strut, and which are arranged in two or more distinct, centinuous, zigzag lines, the bars of one line crossing ous, zigzag lines, the bars of one line crossing those of the other: in distinction from lacing-bars, which form a single, continuous, zigzag line, no two members of which cross one laughty (lä'fi), a. [laugh + -y¹.] Feeling like laughing. [Nonce-word.]

lattice-beam (lat'is-bem), n. A beam, generally of structural iron or steel, composed of a raily of structural iron or steel, composed of a lauia (lä-ë-ë'ä), n. [Hawaiian.] A native top and a bettom flange, commonly of channel-lauia (lä-ë-ë'ä), n. [Hawaiian.] A native irons united on each side by diagonal latticing. Hawaiian name for several species of the irens, united on each side by diagonal latticing. Sec *lattice-bar.

lattice-frame (lat'is-fram), n. A frame, resembling a deep and narrow lattice-girder, composed of two parallel members, frequently T-irons, united by a system of diagonal lat-

truss in which the tension-bars run only one way across the panels. They are symmetrical about the center, as in a Warren truss, and there is a perpendicular compression-member at the end of each panel.

lattice-stitch (lat'is-stieh), n. In needlework, an embroidery stitch formed of straight lines erossing and recressing.

latticing (lat'is-ing), n. In structural work, particularly bridge work, the system of slender diagonal members which connect the two opposite parallel members or flanges of a structural iron or steel beam, column, or strut, and which are arranged in two or more distinct, continuous, zigzag lines, the bars of one line eressing these of the other: in distinction from lacing, in which the adjacent bars form a single consecutive, zigzag line, no two bars crossing one another.

latus!, n.—Latus rectum, (c) The chord through the
focus of a conic perpendicular to the transverse axis.

latus² (lā'tus), n. [ML. latus, Gr. λάτος.] serraneid fish, Lates niloticus, found in the

laudanidine (lâ-dan'i-din), n. [laudan-um + -id'+-ine².] A colorless alkaloid, C₂₀H₂₅O₄N, contained in opium. It forms crystals melting at 177° C.

laudanine (lâ'da-nin), n. [laudan-um + -ine².] A colorless alkaleid, HOC₁₇H₁₅N(OCH₃)₃, contained in opium. It crystallizes in small trimetrie prisms melting at 166° C.

laudanosine (lâ-dan'ō-sin), n. [laudan-um + -ose + -ine².] A colorless, slightly bitter dextrorotatory alkaloid, C₁₇H₁₅N(OCH₃)₄, contained in opium. It crystallizes in needles melting at 89° C.

laudatio (lâ-dă'shiō), n. [L.: see laudation.] In law, evidence tending to prove the good character of one accused.

laudator, n. 21. In old law: (b) A witness to the good character of an accused person.

Laudianism (lâ'di-an-izm), n. Same as *Lau-

landification (lâ"di-fi-kā'shon), n. [NL. *lan-dificatio(n-), < landificate, praise, < laus (laud-), praise, + facere, make.] The act of praising or extolling with praise.

Laudism (la'dizm), n. The policy of William Laud, Archbishop of Canterbury in the reign of Charles I. of England. He sought to restore the

Church of England to what he regarded as its primitive doctrine and worship and to this end vigorously perse-cuted dissenters and nonconformists.

laudist1 (lâ'dist). n. [laud + -ist.] One who writes lauds or ascriptions of praise.

Laudist² (là'dist), n. [Laud (see def.) + -ıst.] One who supported the policy of Archbishep Laud. See Laudian and *Laudism.

Laugerian (lō-jē'ri-an), a. [Laugerie (see def.) +-an.] Of Laugerie-Basse, in France, or of a prehistoric race represented by one skeleton of a man and two skulls of wemen there found belonging to the later paleolithie (Magdalenian) period, and characterized by thick, delichoeephalie skulls.

thick, delichoeephalie skulls.

After tracing the steps in the industrial evolution of the Palcolithic period, the authors [Gabriel and Adrien de Mortillet] pass in review all the discoveries of fossil human bones supposed to belong to the same period. The existence of two races is recognized—an earlier, referred to the first three epochs of the Palcolithic period and called Neanderthal, and a later, referred to the last three epochs of the same period and named Laugerian, or race of Laugerie-Basse. The Laugerian race is derived from the Neanderthal without intermixture from any foreign source. The transition may be traced in the human remains from Arcy, Eguisheim, Marcilly and Bréchamps.

Science, March 1, 1901, p. 344.

Laugerie-Chancelade race. See *race.

Laugerie-Chancelade race. See *race3. laughful (läf'ful), a. [laugh + -ful.] Full of laughter or merriment.

laughing-falcon (lä'fing-fâ"kn), n. See *fal-

Why need there be a reason for laughing? Let us laugh

when we are laughy, as we sleep when we are sleepy.

Thackeray, Ravenswing, i.

genus Searus; a parrot-fish.

launch, n.—Naphtha-fuel launch, a launch which generates steam in its boiler for motive power and uses naphtha for firing.

launching-cleat (län'ching-klet), n. A weeden cleat, used either in dry-deek or in the launching of a vessel, secured to the ship in such a manner that it will catch the head of the

launching-planks (län'ehing-plangks), n. pl. A set of planks forming the platform on each side of the ship on which the bilgeways slide

in the launching of the vessel. launching-ribband (län'ching-rib mand), n. See launching-ways.

launder, n.—Spinning launder, a launder which revolves; a device composed of one or more troughs, arranged to be revolved. Phillips and Bauerman, Elements of Metallurgy, p. 854.

laundry-net (län'dri-net), n. A net used to hold fabries while they are cleaned by beiling. laundrywoman (län 'dri-wum "an), n. A weman employed in a laundry; a laundress.

laurdalite (lâr'da-līt), n. [Laurdal, Norway, +-ite².] A coarse-grained rock composed of + -ite².] A coarse-grained rock composed of seda-orthoclase or seda-microcline, or cryptoperthite, with nephelite, a small amount of lepidomelane, and augite, rarely olivin. Brögger, 1894.

Nile. It attains a large size and is used for food.

| audanidine (lâ-dan'i-din), n. [laudan-um + -id' + -ine².] A colorless alkaloid, C₂₀H₂₅O₄N, as, Laureate of Science, etc.—4. In numis., same as laurel, 5.

laurel, n. 3. (b) In Porto Rice, Mexico, and Central America, a name applied to many species of Ocotea, Damburneya, and allied genera of Lauraceæ; especially, in Porto Rico, to Ocotea fæniculacea, O. floribunda, Damburneya Sintenisii (Nectandra Sintenisii of Mez),
D. Krugii (Nectandra Krugii of Mez), and D.
coriacea (Nectandra coriacea of Grisebach).
—Alexandrian laurel, Catophyllum Inophyllum. See
domba, tananu and *bitanhol.—Black laurel, the loblolly-bay, Lasianthus Lasianthus.—Camphor-laurel,
the eamphor-tree, Cinnamomum Camphora.—Deer-laurel, the great laurel or rose-bay, Rhododendron maximum.—Diamond-leaf laurel, an evergeen Australian
tree, Pittosporum rhombifolium. See Pittosporum.—
Dodder laurel. See *dodder-laurel and *devil*s-guts,
Dog-laurel. Same as *dog-hobble.—Dwarf laurel,
the sheep-laurel, Kalmia angustifolia.—Florida laurel, the sweetleaf, Symplocos tinetoria.—Hairy laurel,
Kalmia hirsuta, a shrub with villous-hirsute leaves and
rose-purple flowers, tound in moist pine-barrens from
Virginia to Florida.—Hedge-laurel. See hedge-laurel
and Pittosporum.—Horse-laurel, the great laurel,
Lady-laurel, the spurge-laurel. Bee hedge-laurel
belonging to the Lauraceæ and called laurél by the Mexicans. The leaves are used as a flavoring for certain
dishes and are taken as a tea, sweetened with brown
sugar, for medicinal purposes and as a beverage. They neya Sintenisii (Nectandra Sintenisii of Mez),

are always found for sale in the markets of the larger eities of Mexico.—Moreton Bay laurel, Cryptocarya australis, a tree of the laurel Bailly. Also called gray sussafras.—Native laurel, in Australia: (a) The Victorian laurel, Pittosporram undulatum. Also called mock-orange. (b) A tree of the giuseng family, Polyscius etegans, yielding a light, soft wood. Also called unite eyacunore.—New Zealand laurel, Laurelia Novæ-Zeelandiæ, a large tree of the family Montiniaceæ, having soft, yellowish wood, which is used for boat-building.—Rose-laurel. (a) The great laurel. (b) The American laurel. (c) The oleander.—Sassafras-laurel, the California laurel, Umbellularia Californica.—Small laurel. (a) The American lsurel. (b) The laurel-magnolia, Magnolia Virginiana.—Sweet laurel, the poison-bay, Illicium Floridanum.—To repose or rest on one's laurels, to cease striving for a while and enjoy the honors won.—To retire on one's laurels, to cease and be satisfied with the honors won, retring voluntarily.—Victorian laurel, Pittasporum undulatum. Also called native laurel. See Pittosporum and *mock-orange, 3.—White laurel, Cryptocarya glaucescens, one of the trees called beech in Australia. See *beech!, 2, and black *sassofras.—Winter laurel, the Carolina cherry-laurel, Prunus Caroliniana.

laurel (lâ'rel), v. t.; pret. and pp. laureled, laurelled, ppr. laureling, laurelling. [laurel, n.] To crown with, or as with, laurel as a distinction.

Laureled by some exclusive society of select spirits.

Science, Feb. 5, 1904, p. 232.

laurel-butter (lâ'rel-but"er), n. Same as

laurel-camphor (lâ'rel-kam"fer), n. Same as

laurelic (lâ-rel'ik), a. [laurel + -ic.] Noting an acid, a compound said to occur in bayberries, the fruit of Laurus nobilis.

laurel-ivy (lâ'rel-ī"vi), n. Same as big-leaved

laurel-magnolia (lâ'rel-mag-nō"li-ä), n. See Magnolia.

laurene (lå'rēn), n. A mixture of hydroearbons, chiefly ethyl xylenes, C₂H₅C₆H₃-(CH₃)₂, fermed by the distillation of Japan camphor with zine chlorid.

Laurentia (lâ-ren'shiä), n. [See Laurentian.] The land area of Archean rocks around whose shores the Paleozoie sediments were deposited. See Laurentian. Amer. Geol., Sept., 1903, p. 148.

Laurentide glacier. See *glacier. Laurer's canal. See *eanal1.

laurestinus (lâ-res-tī'nus), n. Same as laurus-

lauretin (lâ're-tin), n. [L. laurus, laurel, + -et- + -in².] A compound said to occur in bayberries, the fruit of Laurus nobilis.

Lauretta whitefish. See *whitefish. lauric (lâ'rik), a. [L. laurus, laurel, + -ic.] Noting an acid, a colorless compound, C11H23-Noting an acid, a colorless compound, C₁₁H₂₂-COOH, homologous with acetic acid. It is found, in combination with glycerol, in bayberries, the fruit of Laurus nobilis, in Pichurim beans, in croton-oil, in spermaceti, and in occoanut-oil. It crystallizes in tufts of silky needles, melts at 43.6° C., and boils at 225° C. under 100 millimeters pressure. Also called dodecatoic acid.—Lauricoster. See *setser.

laurinol (lâ'ri-nol), n. [L. laurus, laurel, +-in +-ol.] A colorless, odorless, indifferent compound, C₂₂H₃₀O₃, obtained from the wood of the bay-tree. Laurus nobilis. It crystallizes

of the bay-tree, Laurus nobilis. It crystallizes in prisms. Also ealled laurel-camphor.

lauristic (lâ-ris'tik), a. [L. laurus, laurel, +

-ist-ic.] Same as *lauric. laurolene (lå'rē-lēn), n. [L. laurus, laurel, + -ol + -ene.] A hydrocarbon, C₈H₁₄, formed by the distillation of camphanic acid. It is probably a I, I-dimethylcyclohexene.

laurone (lâ rēn), n. [L. laurus, laurel, + -one.] A colorless ketone, (C₁₁H₂₃)₂CO, prepared by the distillation of calcium laurate. It is a homologue of acetone, crystallizes in plates, and melts at 69° C.

lauronolic (lâ-rō-nol'ik), a. [L. laurus, laurel, +-one+-ol+-ic.] Noting an acid, a colorless

liquid, HOCOC(CH₃) < CH CH: CH. C(CH₃)2 prepared by the repeated distillation of cam-phanic acid. It beils at 233-235° C. Also called trimethyl-cyclopentene-carboxylic acid.

laurostearin (lâ-rō-stē'a-rin), n. [L. laurus, laurel, + Gr. στέαρ, tallöw, + -in².] A color-less eempound, C₃H₅(C₁₂H₂₃O₂)₃, contained in laurel- or bay-leaves (Laurus nobilis) and in cocoanut-oil. It crystallizes in needles and melts at 45° C. Also called trilaurin and trilauric glyceride.

lauroxylic (lâr-ok-sil'ik), a. [L. laurus, laurel, + ox(ygen) + -yl + -ic.] Noting an acid, a colorless compound, C₉H₁₀O₂, prepared by the oxidation of laurene with nitrie acid. It forms warty crystals melting at 155° C.

laurvikite (lâr'vik-it), n. [Laurvik, Norway, lavational (lâ-vā'shon-al), a. [lavation + -al^I.] + -ite².] A coarse-grained syenite composed of flattened feldspars with a somewhat rhombic lavation. cross-section which are microperthite or sodamicrocline. There are, besides, small amounts of soda-lite and nephelite in some varieties, and variable amounts of ferromagnesian minerals—pyroxene, lepidomelane, and barkevikitic hornhlende. *Brögger*, 1894.

laurylene (là/ri-lēn), n. [L. laurns, laurel, + -yl + -ene.] A colorless levorotatory terpene, -yl + -ene.] A colorless levorota $C_{10}H_{16}$, contained in bay-oil. 164° C. It boils at

lautarite (lâ'ta-rīt), n. [The Oficina Lautaro, owner of the deposits, + -itc².] Calcium iodate, Ca(IO₃)₂, occurring in from colorless to yellow monoclinic crystals: found in the sodium-nitrate deposits of Atacama, Chile.

lautite (lou'tīt), n. [Lauta (see def.) + -itr².] A metallic mineral containing copper, arsenic, and sulphur, but of doubtful homogeneity: found at Lauta, near Marienberg, Saxony.

| lautverschiebung (lont'fer-shē-böng), n. [G., \(\langle \text{laut}, \text{ sound, } + \text{verschiebung, shifting.} \] In philol., 'shifting of sounds': applied to the changes which a series of regular Indo-European mute consonants of the same class underwent in the Tentonic languages, as if

lanwine, n. See *lawine. Byron.

Lauzon (lō-zon'), n. [Lauzon, Quebec.] In geol., a term introduced by Logan for a division of the rocks near Quebec, in the Quebec group, the age of which has been shown to extend from the Cambrian to the close of the Lower Silurian.

lava, n.—Block lava, in geol., a structure sometimes observed in lava-streams, where the surface zone of the flow has been shattered by explosive escape of gases from the cooling rock.—Ropy lava, lava with a fluted or corrugated surface due to flowing while viscous and

lavabo, n. 4. The psalm in the mass service which the priest recites at the washing of his hands.

lavabo-dish (lā-vā'bō-dish), n. A shallow basin used for the ablution of the priest's hands in the mass service.

lavabrum (lā-vā'brnm), n. [L.] Same as

| ava-caldron (lä'vä-kâl'dron), n. An open, pit-like erater which contains molten lava. | Geikie, Text-book of Geol., p. 329. | ava-cone (lä'vä-kôn), n. In geol., a volcanic cone law the specific of the specific open statistical properties. | aver!, n. 3. Figuratively, the baptismal font; the specifical regeneration of baptism; any cleanaging of the specific open statistics. lava-caldron (lä'vä-kâl"dron), n.

lavacret, n. [L. lavaerum, < lavare, wash.] In phrases referring to baptism, a font; a bath: as, the *laracre* of spiritual regeneration.

lavadero (la-vä-dā'rō), n. [Sp., < lavar, < L. lavare, wash.] Apparatus for washing silver laverick (lav'e-rik), n. [Origin obscure.] In amalgam from ore. Phillips and Bauerman, Elements of Metallurgy, p. 744. [Mexico.]

Elements of Metallurgy, p. 744. [Mexico.]

lava-field (lä'vä-fēld), n. A consolidated lavaflow covering a considerable area.

The most extensive lara-field in the island.

Geog. Jour. (R. G. S.), XIII. 501.

lava-lake (lä'vä-lāk), n. An expanse of molten lava, in a crater, so extensive as to be called a lake. The Hawaiian volcanoes afford the best examples. Nature, Sept. 4, 1902,

lavallière (la-val-yar'), n. [F., from a personal name.] A pendent ornament consisting of or set with one, two, or three gems, generally attached to a thin chain.

iava-streak (lä'vä-strēk), n. A diko of lava which is contrasted in appearance with its inclosing walls.

lava-stream (lä'vä-strēm), n. A flow of lava while it is still molten; also, congealed and cold lava which originally flowed in a stream.

These lava-streams, which the Icelanders call apalhraun, are relatively narrow with high edges, looking, when viewed from a distance, like fences or ridges on flat land.

Geog. Jour. (R. G. S.), XIII. 507.

lava-terrace (lä'vä-ter"ās), n. One of the escarpinents of lava-sheets which surround the pits of molten lava in some volcanic criters, such as those of the Hawaiian Islands. *Geikie*, Text-book of Geol., p. 329.

lavatorial (lav-a-to'ri-al), a. [L. lavatorium, a lavatory, +-all.] Pertaining to a lavatory or to washing. [Recent.] lava-torrent (lä'vä-tor"ent), n. A torrential

flow of lava, whether molten or congcaled.

Large quantities of salt, especially sal ammoniac, are ften deposited on the lawa-torrents during eruptions in eland.

Geog. Jour. (R. G. S.), XIII. 510.

lavatory, n. 4. The ceremonial washing of the hands of the priest in the celebration of the holy communion.—5. In plumbing, a permanent wash-bowl of marble, enameled iron, or porcelain, fitted with hot- and cold-water pipes, a waste-pipe, and other conveniences and fixtures. It may be affixed to a wall or stand upon the floor.—6. A room, especially in a hotel or public building, provided with means for washing the hands and face, and often including a water-eloset.

lava-waste (lä'vä-wāst), n. A barren area composed of lava.

Notwithstanding the plenteous fall of rain and snow, there is searcely any water to be found in the lavawastes.

Geog. Jour. (R. G. S.), XIII. 508,

underwent in the Tentonic languages, as if wastes.

Geog. Jour. (R. G. S.), XIII. 508.

each consonant were shifted forward one degree in its class. See Grimm's law, under law!

A later shifting, sometimes called the second lautrerschiebung, appears in the Old High German.

Lauvender.

lavendol (lav'en-dol), n. [lavend(er) + -ol.] A colorless liquid, $C_{10}H_{18}O$, contained in lavender-oil. It boils at 197° C.

lavendulan (la-ven'dū-lan), n. [ML. lavendula, lavender, + -an.] A hydrated arseniate of copper, cobalt, and nickel occurring in lavender-blue amorphous masses: found with cobalt ores in Saxony and elsewhere.

lavendulite (la-ven'dū-līt), n. [ML. laven-dula, lavender, + -ite².] Same as *lavendu-

låvenite (lä'ven-īt), n. [Also laavenite, loven-ite; named after the island of Låven, in southern Norway.] A silicate and zirconate of manganese, iron, ealeium, sodium, and other elements occurring in from yellow to brown

Geikie, Text-book of Geon, p. 522.

lava-cone (lä'vä-kōn), n. In geol, a voleanie cone built up of successive flows of lava rather than of the fragmental products of explosive outbreaks. Opposed to tuff-cone.

Lava-cones, that is, volcanos with a slight angle of Lava-cones, that is, volcanos with a slight angle of species of which, L. malariæ, is parasitie in the red corpuseles of human blood species of pernicious malaria. Also and is the cause of pernicious malaria. Also Hæmamæba. See * Hæmamæba and *malaria. Grassi et Feletti, 1890.—Laverania danilewsky, a protozoan blood-parasite of pigeons and certain other birds.—Laverania ranarum, a protozoan blood-parasite of the frog.

lavinia (la-vin'i-ā), n. [NL.] 1. An American nymphalid butterfly, Victorina stencles, formerly known as V. lavinia. It occurs in Florida and South America.—2. [aap.] A genus of minnows inhabiting the coast streams of California.

lavoisium (la-voi'zi-um), n. [NL., named after Lavoisier, a French chemist.] A supposed new chemical element announced by Prat in 1877 as occurring in pyrite. There is no confirmation of its existence.

lavrovite (lav'rō-vīt), n. [G. lawrowit (1867), named after N. von Lavrov, a Russian.] A variety of pyroxene colored green by vanadium: found near Lake Baikal in Siberia.

dium: found near Lake Baikal in Siberia.

law!, n.—Albite law. See *albite.—Antitrust laws, a name given to statutes enacted for the purpose of regulating trusts or vast combinations of capital.—Arago's law of polarization. See *polarization.—Baer's law. (b) The rule that rivers flowing northward or southward form deposits and sand-banks most frequently on the right-hand side of the stream owing to the influence of the rotation of the earth on the moving water: a rule deduced by K. E.von Baer, in 1800, for the rivers of Russia, and rather hastily generalized for the whole northern hemisphere.—Balmer's law, in spectroscopy, the law that the hright lines in the spectra of metals occur in series, the frequencies of vibration being in simple numerical relation to one another. The wave-lengths of lines of the visible spectrum of hydrogen, for example, may be

computed by multiplying a constant (h = 3645.6) hy the series of coefficients, §5.1652.2551, 3632.—Baric law of the wind. See *wind*.—Baveno law. See *Baveno twin, under twin1.—Biogenetic law, the doctrine or opinion that the ancestral history of organisms is recapitulated in their development as individuals. See *recapitulation, in their development as individuals. See *recapitulation, in their development law, the law established by Biot and Savart (1820) for the magnetic force due to an electric current flowing through a straight linear conductor of infinite length. It is given by the formula $H = \frac{2I}{r}$, in which

Is the current, r the distance from the conductor, and I the force.—Brazil law. See *twin!, 3.—Brewsters law, in optics, the law that the tangent of the angle of complete polarizate law that the tangent of the angle of complete polarizate law in a monaged in the index of refraction of that substance. Brounds law. Same as Broan's rule. See *twile!—Brown's law. Same as Broan's rule. See *twile!—Brown's law. Same as Buchan's rule. See *twile!—Brown's law. Is a monaged by the substance of the law amounted by the substance of the law amounted by the substance of the line joining those stations which will be inclined to that line at an angle of 90° or thereabouts and will have the station where the reading is lowest on its left hand side. See Buchan's *twile.—Carrington's law of solar rotation, the law of the 'equatorial acceleration,' the explanation of which is still uncertain. It is generally supposed from the researches of Sampson and Wilsing to be a slowly dying survival from past conditions, but Ebert considers that he has shown it to be a necessary consequence of the sm's radiation of heat.—Constitutional law. See *constitutional.—Cosine law. See Lumber's law of *cosines.—CR law. Same as *Kelriis* *klaw.—Coulomb's law, in elect., the law that the force with which two electrostatic charges attract (or repel) each other is inversely proportional to the square of the distance between them and directly proportional to the product of the two quantities of electricity. The corresponding law for magnetic poles, namely, that two poles of strength my and my respectively attract (or repel) each other is inversely proportional to the square of the distance between them is also known as portions to the distance between them is also known as portions to the distance between them is also known and the seed of the product of the two quantities of electricity. The corresponding law for magnetic poles, namely, that two poles of strength my and my step to the seed of the product of the sundance of the seed of the product of th

$$\phi(x) = \sum_{1}^{\infty} i A_{i} \cos \frac{2i\pi x}{p} + \sum_{1}^{\infty} i B_{i} \sin \frac{2i\pi x}{p}$$

(b) In acoustics, the law that "any vibrational metion of the air in the entrance to the ear, corresponding to a musical tone, may be always, and for each case only in a single way, exhibited as the sum of a number of simple vibrational notions, corresponding to the partials of this musical tone." II. von Helmhöltz (trans.), Sensations of Tone, p. 34.—Fourier's law of conduction, the law that the quantity of heat w, passing across a given area,

q, within a conducting substance is $w = qk \frac{dx}{dt}$, where k is the conductivity of the substance and $\frac{dx}{dt}$ is

the temperature gradient.—Fresnel-Arago law, the law that rays polarized at right angles to each other do not interfere when brought into the same plane of polarization, provided that they come from an unpolarized ray. Such rays, if they come from a polarized ray, interfere when brought to the same plane of polarization.—Fres-

nel's law, the law that in crystals the velocities of the two light-waves are proportional to the largest and smallest radii vectors of the oval section of the wave-surface, made by a plane through the center of the surface and parallel to the wave-front.—Froude's law, in nacat arch., a particular case of the general mathematical law of reconstrict and dynamic similitude, but independently derived by W. Froude from the study of resistance of ship-models towed in an experimental model basin. In parallel to the wave-front.—Fronde's law, in antra arch, a particular case of the general mathematical law of geometrical and dynamic similitude, but independently derived by W. Froude from the study of resistance of ship-models towed in an experimental model basin. In the statement of this law, considering a model and a vessel of identical form but of different dimensions, the corresponding speeds of the model and the vessel are in the same ratio as the square roots of the homologous dimensions (as the lengths). At corresponding speeds, the wave-systems set up in the water are of the same form and, by Froude's law, the wave-making resistances of the model and of the vessel are determined by appropriate calculations at the corresponding speeds. From the total measured resistances of the model and of the vessel are determined by appropriate calculations at the corresponding speeds. From the total measured resistances of the model towed in the experimental basinat various speeds, the curve of resistance (which see, under **eurre) of the full-sized ship at corresponding speeds can thus be determined and from it the effective horse-power required to drive the ship at any given speed can be obtained. Also called the law of comparison.—Galton-Pearson law of ancestral heredity. See **ancestral **inheritance** (a) and (b).—Galton's anticyclonic law, the law that in regions where barometric pressure is above the average, the wind is blowing outward and around in the direction of the movement of the hands of a watch and opposite to the cyclonic circulation. The law was announced by Galton in 1863 from the study of synoptic weather-charts.—Galton's law of ancestral inheritance. (a).—General public laws. Same as **statutes' law of ancestral inheritance, cap—General public laws. Same as **statutes' law, en —General public laws. commerce law, an act of the United States Congress, passed February 4, 1887, and since amended, by which the Interstate Commerce Commission was created. (See interstate.) Its principal objects were to prohibit discrimination in freight-charges and the pooling of freights by competing railroads, and to secure the arbitration of differences between corporations and employees.—
Jacobi's law, in elect., the law that the power of a motor reaches its maximum when the counter electromotive force is one half the impressed electromotive force, or when the speed of the motor is such that the current through the armature is one half that which would flow if the motor were at rest.—Jevonian law, the economic law of marginal utility (see *utility), formulated by W. Stanley Jevons (hut also by others before and after him), that the satisfaction afforded by successive increments of a commodity, when consumed, diminishes toward zero, or, passing through zero, becomes a negative to be hyperbolic in form.—Judge-made law, judiciary law. The term is frequently used with some degree of opprobrium to indicate the overriding of the intent of legislatures by judicial construction of statutes.—Kelvin's law, in elect., the law that the time-constant which expresses the speed of signaling through cables is proportional to the capacity of the line multiplied by its resistance. Also called the KR (or CR) law.—Kirchnof's law. See laws of *radiation.—Kirkwood's law or analogy, a supposed law, published in 1849, connecting the distances of the planets from the sun with their masses and axial rotations. It is discredited by later and more accurate data.—Koch's law, a rule for establishing the specificity of a pathogenic micro-organism: smelly, it must be present in every case of the disease; incoculation of a susceptible animal with a pure culture of it not the sun and succeptible animal with a pure culture of it establishing the specificity of a pathogenic micro-organism: namely, it must be present in every case of the disease; in oculation of a susceptible animal with a pure culture of it must cause the disease; and it must be discoverable in the animal suffering from the disease so acquired.—Kohlrausch's law, in phys. chem., the proposition that the molecular conductivity of an electrolyte at infinite dilution is the sum of two numbers, one of which depends solely on the cation and the other of which depends solely on the anion; or, that the velocity with which a given ion travels is constant for a given solvent and a given electromotive force, and does not depend upon the nature of the other ions which are present in the solution.—KR (or CR) law. Same as Kelvin's *law.—Kundt's law, the

law that, in anomalous dispersion, the index of refraction

$$\frac{n-1}{d} = \text{const.};$$

where n is the index of refraction and d the density of where n is the index of refraction and d the density of the liquid.—Law of greatest gain. See *gain1.—Law of great numbers, the law that if a great number of elements, each independently varying according to almost any law, are added, their sum will in general vary according to the ordinary law of error.—Law of Guldberg and Waage. Same as *law of mass action.—Law of Integration, the law that a social population tends to increase by excess of hirths over deaths, by excess of immigration over emigration, or by annexation of neighboring peoples, according to some relation of its culture and standard of living to its surplus energy. Giddings, Prin. of Sociol., p. 370.—Law of interest, in psychol., the law or principle that those elements of a past experience are the most effective for recall which at the time of the experience received the greatest share of attention or aroused the highest degree of interest. the highest degree of interest.

The influence of emotional states must be stated as a principal, but not an exclusive cause. It is summed up in what Shadworth Hodgson has called the *Law of Interest*. Ribot (trans.), Psychol. of Emotions, p. 174.

m what shadworth Hodgson has eated the Law of Interest.

Ribot (trans.), Psychol. of Emotions, p. 174.

Law of inverse squares, the law governing the relation between the intensity of an effect, which emanates from a center and is transmitted equally in all directions, and the distance from the source. The intensity in such eases is inversely proportional to the square of the distance. The intensity of sound, of light, and of every form of radiation, when transmitted in isotropic media, is determined by the law of inverse squares. The gravitational attraction of two masses, the electric attraction or repulsion of two magnetic poles follow the same law.—Law of least action, Same as principle of least action (which see, under action).—Law of least path. Same as Fernat's *law.—Law of likeneas, in psychol., the principle of association by similarity.

This . . . discussion . . has led to the classification of the associations of memory, and two laws have been formulated: the one called the law of likeness, and the other the law of contiguity.

J. W. Powell, Truth and Error, p. 303.

Law of Malus, in optics, the law that when a beam of

other the law of contiguity.

J. W. Powell, Truth and Error, p. 303.

Law of Malus, in optics, the law that when a beam of light, polarized by reflection, falls upon a second surface at the polarizing angle the intensity of the beam after the second reflection is proportional to the square of the cosine of the angle between the two planes of reflection. The law that "an orthotomic system of rays remains orthotomic after any number of reflections and refractions" (Drude's "Theory of Optics," p. 12) is also sometimes termed the law of Malus.—Law of mass action. See *action. Also called law of Guddberg and Wange.—Law of mental growth. See *mental!.—Law of migration. See *mujration.—Law of octaves, in chem. the generalized fact pointed out by Newlands in 1864 that if the elements are arranged in the order of their atomic weights, each member of the list presents a close onalogy in properties with the eighth preceding and the eighth succeeding it. This a few years later in the hands of Mendelejeff and Lothar Meyer was developed into the now generally recognized periodic law.—Law of parallellsm, a varying degree of probability that similar stages of human culture, or like institutions, in different parts of the world have sprimg from like conditions rather than from any historic intercourse of now separated communities.—Law of parsimony. (b) The law that conscious beings try to attain a maximum of satisfaction with a minimum of effort or pain.

But the fundamental law of everything psychic, and especially of everything that is affected by intelligence, is the law of parsimony. Ward, Pure Sociol., p. 341.

Law of perfodicity, the universal law of rhythm (Herebert Spencer. "First Principles") in its organic and social

is the law of parsimony. Ward, Pure Sociol., p. 341.

Law of periodicity, the universal law of rhythm (Herbert Spencer, "First Principles") in its organic and social manifestations.—Law of possession, in psychol., the principle that what is already in consciousness tends to remain. Psychol. Rev. Mon. Sup., xiv. 85.—Law of preference. (a) The law of the relative influence of the ideals of force, pleasure, ansterity, and self-realization in determining social choice. In populations as they are the lower ideals dominate, but in normal social evolution the higher ideals become increasingly influential. Giddings, Elements of Sociol., p. 168. (b) In the psychology of association, same as **law of interest.—Law of priorities, the hody of laws, decisions, and customs giving the distribution of water for irrigation in accordance with the order of first use. This law exists in various forms in most of the western and States and protects the first

users of water for irrigation against subsequent appropriators of it.—Law of priority, the principle that in the formal, or Latin, nomenclature of taxonomic or systematic biology the first name published for any group is to be taken as the valid, tenable, or correct name of that group. Any name subsequently applied to the same group is rejected, and is termed a synonym. In botany, formal nomenclature is treated as beginning with the general application of binary, or binominal, names to plants in Linnæus's "Species Plantarum" (1753). The law of priority is applied to the names of genera, species, and subspecies, and by some writers to the names of families, but not to the higher groups. A name dates not from the time when it was first used in a public lecture, or in manuscript, or as a garden or herbarium label, or even from its mere occurrence in a printed book, but from the time when it was established by publication in the nomenclatorial sense of that word. A corollary of the law of priority is the principle of the rejection of homonyms. See **cstablish*, 8, **publication*, 5, and **homonym*, 3.—Law of progression. See **progression.—Law of psychical contrasts. See **contrast.*—Law of psychical contrasts. See **contrast.*—Law of psychical relations, in **Wundt's **psychol*, one of the three psychological laws of relation. It aessential content is "the principle that every single psychical content receives its significance from the relations in which it stands to other psychical contents, and its most complete expression is to be found in the processes of apperceptive analysis and the simple relations in which it stands to other psychical contents, and its most complete expression is to be found in the processes of apperceptive analysis and the simple relations in which it stands to other psychical contents, and its most complete expression is to be found in the processes of apperceptive analysis and the simple relations in which it seems and the same always and everyment of psycholyphysical correlations. It f

We may now subsume all these phenomena—tonal intervals, light contrast, the geometrical increase of stimulus-intensity for equally noticeable sensation-differences—under one general law: the law of relativity....
We shall expect to find that the law of relativity is not restricted to the sphere of sensation, but is applicable in every case where the intensity of a mental process is quantitatively apprehended and compared with that of others.

of others.

W. Wundt (trans.), Human and Animal Psychol., p. 119. Law of repetition, in psychol., the principle of associa-

The law of association by contiguity would hold that letters or words occurring in relatively close succession, or simultaneously, . . . tend to tuse or coalesce. This is called also the law of repetition.

Psychol. Rev. Mon. Sup., xiv. 71.

Psychol. Rev. Mon. Sup., xiv. 71.

Law of restraint, the law of the normal restraint of impulsive social action. Impulsive social action varies inversely withthe habit of attaining ends by indirect and complex means.—Law of retallation. Same as lex talionis (which see, under lex).—Law of segregation. (a) The tendency of like units to collect in one place, group, or arrangement, under the common action of incident forces. (b) The numerical law to which the descendants of Mencellian hybrids conform. See ancestral **einheriance.—Law of sensation-intensities, in psychophys., Weber's law. W. Wundt (trans.), Human and Animal Psychol., p. 33.—Law of slip, in phys., the law that at low pressures, the movement of a gas along a solid surface is the same as though the solid were withdrawn to a distance equal to twice the mean free path of the particles and were replaced by a layer of gas at rest.—Law of storms (naut.). See **hurricane distance.*—Law of substitution, in polit. econ., the law according to which producers who are not using the most economical methods are impelled to substitute those methods for the more costly ones which they are using; also, the law according to which society substitutes the more efficient employers of labor and capital for the less efficient. Alfred Marshall, Prin. of Economics (4th ed.), p. 420.—Law of sympathy, the law that "the degree of sympathy decreases as the generality of resemblance increases," Giddings, Elements of Sociol., p. 67.—Law of the Circle. See **circle.—Law of the Medes and Persians, something impossible to alterreferring to Dan. vi. 12.—Law of zones, a law relating to the appearance of sun-spots on certain zones, at certain times in the period of spot-frequency: otter referred to as Spoerer's law.—Laws of imitation, to one another; especially the laws (1) that in the absence of interference initations spread in a geometr

variations and inventions among all social forms and products.—Lawa of liberty, the laws of the social causes determining the amount of liberty enjoyed in any given population; especially the laws (Giddings, "Elements of Sociology "(1) that liberty is proportional to the predominance of rational over sympathetic and dogmatic likemindedness, and (2) that coercion diminishes with the decrease of ethnic and moral diversity and of inequality.—Laws of radiation.—See *radiation.—Lawa of twinning. See terni; also, *ticinl.—Le Chateller's law of radiation, the empirical law that the intensity of radiation of red light is

$$I = 10^{6.7} \cdot T - \frac{3210}{T}$$

I = 10^{6.7}. T - $\frac{3210}{T}$, where I is the intensity and T is the absolute temperature of the radiating body.—Listing'a law, in physioloptics, a law of eye movement, first suggested by J. B. Listing, and phrased by Helmholtz as follows: "if the line of regard travel from the primary to any other position, the torsion of the eyeball in this second position is the same as if the eye had turned about a fixed axis at right angles to the first and second directions of the line of regard." E. B. Titchener, Exper. Psychol., I. ii. 244. See Donders's *law.—Makeham's law of mortality, a modification of Gompertz's law, expressed by the formula, $\mu_X = A + Bcx$, in which A represents chance, or the constant element in the force of mortality.—Manebach law. See *twin!, 3.—Maxwell-Boltzmann law of the distribution of velocities, the law, due to Maxwell and, in more general form, to Boltzmann, that the final distribution of errors of observation as determined by the theory of errors.—Maxwell's law of partition, in the kinetic theory of gases, the law that in a mixture of gases the average kinetic energies of the different sets of molecules tend to approach a common value, and that when the mixture is in equilibrium the kinetic energies of the various kinds of molecules are the same.—Maxwell's law of viacositicles, the law that the viscosity of a gas is independent of its pressure.—Mendeléjeff'alaw. Same as periodic law.—Mendel's law of anceatral inheritance.—Mitscherilch's law. See the extract.

Already the researches just alluded to have afforded a final and irrefragable proof of the accuracy of Haity's orig-

law. See the extract.

Already the researches just alluded to have afforded a final and irrefragable proof of the accuracy of Haiiy's original conception that to every definite chemical substance there appertains a distinct and characteristic crystalline form, and have reconciled this with Mitacherlich's discoveries in isomorphism by revealing an exquisitely beautiful relationship, connecting very small angular differences which are found to occur between the crystals of the various members of isomorphous series with the atomic weight of the interchangeable elements composing them. This generalisation not only defines the real meaning, extent, and scope of Mitscherlich's law, but also proves that the supposed exceptions are not such, and, therefore, the absolute truth of the rule that difference of chemical composition does in all cases involve difference of crystaline form.

Nature, April 4, 1907, p. 520.

Moses's law, a piratical term for the laying on of thirty-

Inne form.

Nature, April 4, 1907, p. 529.

Moses'a law, a piratical term for the laying on of thirtynine lashes on the naked back. The order was, "Lay on
forty, less one."—Müllerian law. See the extract.

A very interesting set of phenomena are connected with
the acanthin skeletons (of Acantharia) where the spicules
are not deposited in the calymma, but are formed at the
centre of the central capsule, growing out centrifugally
into the extra-capsular plasm and resulting in a skeleton
of radiating spines. With a few exceptions these spines
are twenty in number, and are arranged in a certain geometrical order which has been characterized as the Mülderian law. The points of the spines fall in five circles
parallel to the equator, and there are four spines to each
circle. The spines are named, according to this scheme,
polar, tropical, equatorial, sub-tropical, and sub-polar.

Calkins, Protozoa, p. 77.

Müller'alaw. Same as Müllerian *law.—Nysten'alaw,

circle. The spines are named, according to this scheme, polar, tropical, equatorial, sub-tropical, and sub-polar. Calkins, Protozoa, p. 77.

Müller'a law. Same as Müllerian *law.— Nysten's law, the ruie that rigor mortls appears first in the facial muscles and passes downward, involving the muscles of the lower extremities last.— Ostwald's dilution law. See *dilution.—Oswald's law, in Eng. law, a law, named from Oswald, Bishop of Worcester, passed about 904, which caused the ejection of married priests and the introduction of monks into the churches.—Pamphlet lawa. Same as *statutes at large.—Pascal'a law, in kydros, the law that in a fluid at rest the pressure is the same in all directions and that, aside from the differences of pressure produced by the action of gravity, the pressure within the fluid is everywhere the same.—Paschen's law. See laws of *radiation.—Pearson's law of ancestral inheritance. See ancestral *inheritance.—Pericline law. See perictine twin, under twin!.—Personal-liberty laws. See personal.—Pfüger's law, the law that stimulation of a nerve occurs with the disappearance of ancetrotonus and the appearance of catelectrotonus.—Phonetic law, a law supposed to govern phonetic changes. The phrase has been taken much too seriously by some writers, who treat it with a reverence not deserved by a figure of speech. The phrase properly expresses the fact that certain changes affect or sppear to affect all members of the same class, in the same period of the same language, or universally, and the fact that all phonetic changes and sequences are restricted by physiologic conditions within a certain range of variation. What appear to be exceptions to an ascertained or accepted law are explained by the interference of other laws or facts. In this way there is a basis for the frequent statement that phonetic laws are invariable. The law is often only a general tendency, liable to be checked by any accident of speech or time. Thus, the law that Indoeuropean t shall be Teutonic the (as in Lath tenuis = Eth

The word law has been ill chosen for use in this connexion. In phonetic laws there is no element which can be identified as coming under the definition of a law as propounded by a jurist like John Austin.

Encyc. Brit., XXXI. 674.

Poiseuille's law, the law that the quantity of liquid which will flow through a capillary tube varies directly

as the pressure and the square of the cross-section of the tube, and inversely as the length of the tube and the coefficient of viscosity.—Pole's law, in photom, an empirical law or rule for the variation in the light from a gas-burner, with the supply of gas. It is given by the formula $\mathbb{L}_n = \mathbb{L}_0 + A$ (c — q) where \mathbb{L}_n is the intensity when the supply of gas is normal and equal to c, \mathbb{L}_n is the intensity when the supply of gas is normal and equal to c, \mathbb{L}_n is the intensity when the supply is q and A is a constant depending on the quality of the gas.—Poynting's law, in etect., the law that when a conductor carrying current is in an electrostatic field (as in the case of a wire connecting the plates of a charged condensor, or in the case of a cable), the transfer of energy takes place through the deelectric along paths which are the intersections of the equipotential surfaces of the electrostatic field with the equipotential surfaces of the electrostatic field with the equipotential surfaces of the electrostatic field due to the current.—Prevoat's law, the law of the exchange of radiation between neighboring boilies by virtue of which a body approaches the temperature of its surroundings and tends to maintain that temperature of its surroundings and tends to maintain that temperature of its surroundings and tends to maintain that temperature of its surroundings and tends to maintain that temperature of its surroundings and tends to maintain that temperature indefinitely. The radiation received when that condition is reached must then always equal that emitted. See *radiation.—Public laws. Same as *statutes at large.—Purkinje's law, in physiological optics, the law that of two surfaces, differing in color but equally bright when moderately illuminated, the one which sends light of greater wave-lengths to the eye will appear relatively brighter under intense illumination and darker under feeble illumination than the other.—Quéte-let's law, in phenotogy, the law that a given stage of growth req

711

increases; or, expressed mathematically, that $\frac{\mathbf{w}}{\mathbf{W}} = \frac{\mathbf{e}}{\mathbf{E}}$ where $\frac{w}{W}$ is the efficiency, e the counter-electromotive

where \(\frac{\walpha}{\text{W}} \) is the efficiency, e the counter-electromotive force, and E the Impressed electromotive force.—Sine law, in the theory of lenses, the law which defines the conditions under which a system of lenses will produce images free from aberration. The law is that the sines of the angles of inclination of any two conjugste rays passing through a point in the object and the corresponding point in its image must have a constant ratio. Lens systems for which the sine law is fulfilled are said to be aplanatic.—Snell's law, in optics, the law that in the refraction of light the sines of the angles of incidence and refraction bear a constant ratio to each other; the law of refraction—Spinel law. See spinel twin, under twin!—Spoerer's law. Same as \$tefan's *taw.—Stefan's law, the empirical law, established by Stefan, that the total radiation from a body varies directly as the fourth power of the absolute temperature of the body. See laws of *radiation.—Stokes's law, the law that the vave-length of the light emitted by a fluorescent body always exceeds that of the exciting light. See *tuminescence.—Talbot's law, Talbot-Platean law, in psychol. optics, the principle that the color and orightness of the uniform field produced by a rapid succession of variously colored and variously bright stimuli are the same as they would have been had the reflected light been, from the first uniformly distributed over the field; and that increase of rapidity of succession, beyond the point required for fusion, produces no change in the result. The law was formulated by Talbot in 1834 renected ignb been, from the mat, uniformly abstrained over the field; and that increase of rapidity of succession, beyond the point required for fusion, produces no change in the result. The law was formulated by Talbot in 1834 and verified by Plateau in the following year. E. C. Sanford, Exper. Psychol., p. 146.—The great law, a name given to the first code of laws of Pennsylvania. It was established in 1632 and is celebrated for the provisions it contained for liberty of conscience.—Thomsen's law, in phys. chem., the supposed rule that the electromotive force of a galvanic cell, in volts, is equal to the chemical energy of the reactions going on in the cell, measured in calories, divided by a constant. The rule holds good when the electromotive force of the cell does not change with change of temperature. Since this is approximately the case with the baniell cell, which was first studied, the rule obtained a certain recognition.—To go to law, to seek legal redress or relief in a court of law.—Torricell's law, in hydraul., the law that the velocity (v) of efflux of a liquid flowing out of a vessel under a constant head h ls y = \(v\)^2\(\frac{1}{2}\text{h}\), where \(g\) is the acceleration due to efflux of a liquid flowing out of a vessel under a constant head h is $\mathbf{v} = \sqrt{2} \mathrm{gh}$, where g is the acceleration due to gravity. It follows from this law that the velocity of efflux is that which the liquid would acquire by falling freely under the action of gravity from the level of the surface of the liquid in the vessel to the orifice; also, that for a given head the velocity of efflux is independent of the density of the liquid and for a given pressure at the orifice is inversely proportional to the square root of the density.—Van der Kolk's law, in neurol., the law that the motor fibers in any nerve are distributed to the muscles which move the part to which the sensory fibers of the same nerve pass. part to which the sensory fibers of the same nerve pass.

-Von Basr's law. See Baer's *law (b).-Watt's law, the law that the vapor pressure in two connecting vessels, differing in temperature but containing the same liquid.

is that determined by the lower temperature.— Weber-Fechner law, in psychophysics, the Fechnerian statement or formulation of Weber's law, that sensation increases as the logarithm of stimulus.

increases as the logarithm of stimulus.

Fechner gave this law a precise phrasing and a mathematical formulation, and . . . put it to elaborate experimental test. Although his modesty led him to name it after Weber, we might more correctly term it Fechner's Law or the Weber-Fechner Law.

E. B. Titchener, Exper. Psychol., II. i. 29.

Wien's law, the law of the variation of radiation with temperature expressed by the equation

$$\mathbf{I}_{\lambda} = \mathbf{C}_{1} \lambda^{-5} e^{-\frac{\mathbf{C}_{2}}{\lambda \mathbf{T}}},$$

where I_{λ} is the intensity of the wave-length λ in the spectrum of a glowing body, e is the logarithmic base, r the absolute temperature of the body, and C_1 , c_2 are constants. See laws of *radiation.—Wundt-Lamansky law, in physiol. optics, the law that the line of vision, in traversing a vertical plane parallel to the frontal plane, follows straight lines in the vertical and horizontal directions, hut takes curved paths for all intermediate movements. The law was formulated by Wundt in 1862 and by Lamansky in 1869. mansky in 1869.

L. A. W. An abbreviation of League of American Wheelmen.

law-hand (lâ'hand), n. The form of handwriting customarily used in legal documents.

lawine (lâ'win, G. lä-vō'ne), n. [G. lawine (lawine), lauwine (lawine), lauine, loewin, \(\) Sw. dial. lawine (lawine), lauine (lauine), lauwin, lauwi, laui, in Appenzell länena, läuela, older lewe, iu Tyrol lan, lane, in the Bavarian Alps læuen, læun, læunen, læn, læuen. etc., an avalanche; OHG. lewinua, a torrent, MHG. lēne, an avalanche, liune, a thaw; appar. < ML. lavina, lavine, an avalanche, < L. labi, fall: see lapse. Bnt the forms in part seem to depend on G. lau, tepid: see lew², a.] An avalanche. avalanche.

law-lordship (lâ'lôrd"ship), n. The official

avalanche.

law-lordship (lâ'lôrd"ship), n. The official position of a law-lord.

lawman, n. 3. A lawyer.

law-merchant (lâ'mêr"chant), n. See law!.

lawn-grass (lân'gràs), n. A grass suited to forming lawns and used for this purpose. A good lawn-grass must make a close and permanent turf and must therefore be a perennial creeping by rootstocks or otherwise; it must be of a pleasing color, a deep rich emerald green (lasting through the season) being the most desirable; and it must be soft in texture, this depending partly on width of leaf and partly on fexibility. The principal lawn-grasses of the United States are Kentucky blue-grass (with which white clover may be mixed), creeping bent, and Rhode Island bent; but where these cannot be grown substitutes are employed, as Bermuda grass in the Sonth, and St. Augustine grass on the South Atlantic and Gulf coasts.—Charleaton lawn-grass. Same as St. Augustine *grass.—Japaneae or Korean lawn-grass, a creeping grass, Zoysia pungens, native on the shores of tropical and eastern Asia, Australia, and New Zealand. It is both a good sandbinder and a good grazing-plant, and, though of harsh texture, an excellent lawn-grass for sandy soils: specially prized in the far East for tenniscourts.—Mexican lawn-grass, Opixia stolonifera, an extensively creeping dieccious grass, similar in habit to Bermuda grass but more delicate. It forms a thick sod over all exposed surfaces, and is suitable for use in public squares, etc., while it is also liked by cattle and is useful low pasturage. for pasturage.

lawn-hockey (lân'hok'i), n. A lawn-game, a modification of field-hockey.

lawn-party (lân'pār'ti), n. An outdoor party. lawsonite (lâ'son-īt), n. [Named after Prof. A. C. Lawson of the University of California.] A silicate of aluminium and calcium occurring in grayish-blue orthorhombie crystals in crystalline schists in California and elsewhere.

lawyer, n. 3. (b) Same as gray snapper. See snapper.—Bush lawyer. See bush-lawyer.—Penang lawyer. See penang-lawyer. In England the name is often misapplied to the Malacca cane.

lawyer-cane (lâ'yér-kãn), n. Same as *lawyer-

awyer-palm (lâ'yer-pam), n. In Australia, Calamus australis, a strong, climbing palm, with stems several hundred feet long and less than an inch in thickness. Its long leaves and tendrils are covered with sharp, recurved spines and make it a serious obstacle to

lawyer-vine (lâ'yer-vin), n. In Australia, any one of several spiny, trailing or climbing vines, as the bush-lawyer, Rubus australis, the lawyer-palm, Calamus australis, and Flagellaria Indica. See Flagellaria.

lax-fisher (laks'fish'er), n. One who catches salmon at the time of their ascent of rivers in the spawning season.

laxifoliate (lak-si-fē'li-āt), a. Same as laxifolious.

laxism (lak'sizm), n. The principles or interpretations of the laxists.

laxitude (lak'si-tūd), n. [L. *laxitudo for laxitas, < laxus, lax.] Laxity. [Rare.]

Laxmannia (laks-man'i-a), n. [NL. (Forster. 1776), named in honor of Eric Laxmann (1737-96, a Finnish priest who made extensive botanical collections in Siberia.] A genus of plants of the family Asteraceae. See Petro-

lay1, r. I. trans. 20. To aim or point, as a

cannon.

At the moment of firing [coast-defense guns], their positions of course become defined; but the difficulty of locating them sufficiently for accurate laying on bound ship may nevertheless be considerable.

Enque, Brit., XXVIII. 452.

To lay away. (c) In tanning, to spread (hides) in vats with bark between the layers, tan liquor being added. C. T. Davis, Mannf. of Leather, p. 179.—To lay down. (g) In obster culture, to plant, as an oyster-bed.—To lay in. (h) In oil-painting, to place the first masses of color on a canvas. (c) To cat (something) voraciously; tuck in a large amount of: as, he laid in dinner enough for two days. [Colloq.]—To lay on. (d) In printing, to place as paper to be printed, upon the feed-hoard; also, to place (a chase of type) upon the bed of the printing-press. (e) To acquire, as flesh or weight: said of cattle which are being fattened, etc.—To lay under, to put or place in a condition specified or indicated by a following complementary word or chause: as, to lay (one) under the necessity of doing some particular thing; to lay (one) under obligation (to some body): etc.

It intrans—Layett (naut) on order to the grew to

body); etc.

II. intrans.—Lay aft (naut.), an order to the crew to proceed toward the stern of the ship.—Lay in (naut.), an order to the men on the yards to gather in toward the mast; a command to leave the yard-arms and 'lay in' toward the slings.—To lay forward (naut.), an order to the crew to go toward the head of the ship.—To lay in. (b) To shut down or stop work; said of coal-mines.—To lay ont on one's oars (naut.), to pull a more powerful stroke and drive the beat faster through the water.

9. Terms or conditions, as of a bar lay^1 , n. gain. [U. S.]

Lay, terms or conditions of a bargain; price. Ex. I bought the articles at a good lay; he bought his goods on the same lay that 1 did mine.

Pickering, Vocabulary.

the same tay that I did mine. Pickering, vectodings Lang's lay, a method of laying the strands, in making a rope, in which they are twisted in the same direction as the individual wires or fibers instead of in the opposite direction.—Lay of a cable, the distance, measured along the axis, within which the helically wound strands of a cable make one complete turn around the axis.

lay-away ($|\tilde{\mathbf{a}}'\mathbf{a}-\mathbf{w}\tilde{\mathbf{a}}''$), n. [tay away: see lay1, v.] The vat in which hides are laid for tanning; also, the liquor in which they are steeped. C.

also, the inquor in which they are steeped. C. T. Davis, Manuf. of Leather, p. 383.

lay-band (lā'band), n. A band or string for tying a skein or lea of thread or yarn.

lay-boat (lā'bōt), n. A boat at anchor.

lay-by (lā'bī), n. 1. A sluggish place in a river, or still water artificially inclosed, in which barres can be laid by when out of comwhich barges can be laid by when out of commission.—2. Something laid by or saved, especially money. N. E. D. lay-day, n. 2. pl. Same as *lie-days.

lay-down (lā'doun), a. Said of a collar which lazar, n. II. a. Having a loathsome disease; is laid or folded over on itself: not standing; leprons.

lay-over. Also used substantively.

layer, n. 7. In oyster culture, an artificial oyster-bed.—8. In cattle-raising, a field or yard in which cattle ready for shipment are kept .-9. In phytogeog., one of several strata of plants of different vegetation forms met with in some of different vegetation forms met with in some formations, especially in forests. Thus in a forest, beneath the facies, or primary layer consisting of large trees, there may be successively a layer of small trees and shrubs, one of bushes, then upper, middle, and lower herbaceous layers, and finally a ground-layer of mosses, lichens, etc. F. E. Chements regards these layers as vertical zones. See *zone, 6. Pound and Clements.—Balllarger's *layer. Same as Baillarger's *line.—Bowman's layer, a layer of connective tissue between the cornea and the conjunctiva. Also called Bowman's membrane.—Crookes's layer, the layer of vapor underlying a liquid in the spheroidal state and insulating it from a hotter surface henceath; also, the dark space at the cathode of a vacuum-tube, usually known as Crookes's space.—Huxley's layer. Same as Huxley's *nembrane.—Langhams's layer, the epithelia layer of the villo of the chorion.—Myophan layer, in certain ciliates, as Stentor and Vorticella, the fibrillated ectoplasmic or cortical portion of the body or of the contractile stalk. Also myophane layer.—Prismatle layer, in mollusk-shells, the middle layer, consisting of minute prisms of calcium carbonate separated by thin fihers of conchiolin. It lies between the periostracum and the nacre.—Rauber's layer, the outermost of the three cell-layers which form the very



A vertical section across the embryonal area of the blastodermic vesicle of a rabbit at the end of the fifth day, highly magnified. 'After Kolliker.' a, outer layer of cells of the embryonal area, of Rauber's layer; b, epiblast; c, hypoblast, 'From Marshall's "Vertebrate Embryology,")

young mammalian blastodisc. This external layer, which later disappears completely, covers the ectoderm.— Skeletogenous layer, in embryot, the layer of condensed meadern cells immediately surrounding the notochord of the vertebrate embryo and giving rise to the axial skeleton.— Sluggish layer, the portion of the blood-stream, in the smallest vessels, in which the white corpuscles are seen

slowly rolling along the wall of the vessel, while in the center of the stream the red corpuscles are propelled rapidly. —Still layer. Same as $sluggish \star layer.$ —Subcallosal layer, a layer of nerve-fibers on the ventral or lower side of the callosum.

layer, a layer of nerve-fibers on the ventral or lower side (b) of Lord Chancellor; (c) of Lower Canada. (b) of Lord Chancellor; (c) of Lower Canada. (layerage (la'ér-āj), n. In hort., the subject of l/c. An abbreviation of letter of eredit. (layerage (la'ér-aj), n. In hort., the subject of l/c. An abbreviation of Lord Chief Baron. (layer-cake (la'ér-kak), n. A cake made in Council.

layers, generally with a mang layers, generally with a mang layers and an icing over the top.

layered (la'erd), a. Arranged in layers; conered sisting of a specified number of layers; covered l. c. m. An abbreviation of consisting of a specified number of layers; covered with something; as, layered with mud.—Layered multiple, with something; as, layered with mud.—Layered layers, as a control of layers, and abbreviation of layers, and abbreviatio with something; as, layered with hild.—Layered formation. See *formation. layer-stool (lā'ér-stöl), n. A root from which layers are produced. N. E. D. laying-away (lā'ing-a-wā'), n. The process of tanning hides for sole-leather by spreading them in vats with alternate layers of bark. C. T. Davis, Manuf. of Leather, p. 179.

laying-house (la'ing-hous), n. In rope-manuf., L. Div. the building in which the laying of the strands for the completed rope is done.

laying-walk (lā'ing-wâk), n. A ropewalk; a long building where ropes are laid.

layka (lä'i-kä), n. [Aymara and Quichua.] A society of shamans, among the mountain Indians of Bolivia and Peru, who are diviners by means of coca-leaves, spiders, and other things. They also are shamans of the hunt, and rain-makers.

lay-over (la'o''ver), n. 1. In railroading, a train, particularly a freight- or local passenger-train, which is detained on a siding to dissolved out of rocks by circulating waters. allow an express-train to pass. [Colloq., U. S.]—2. Same as *lay-down. lay-race (lā'rās), n. That part of the loom-lay

or lathe upon which the shuttle travels as it is thrown from one side of the lay to the

other.

lay-shaft (lā'shāft), n. An independent shaft; a shaft which turns independently of the adjacent machinery. Such a shaft, driven by an independent engine, has been used to some extent for operating the valves of marine engines to secure constant speed; hence the term has come to be used for any shaft that operates the valvea of an engine, as, for instance, the cam-shaft of a gas-engine.

The one lay-shaft paralleling the cylinders operates, through cams, all of the valve movements of the engine.

Elect. Rev., Sept. 17, 1904, p. 456.

Lazaret fever. Same as typhus fever. lazera (laz'e-rä), n. A eatfish, Clarias lazera, found in African rivers.

lazuli-bunting (laz'ū-lī-bun"ting), n. Same

as lazuli-finch.
lazuline (laz'ū-lin), a.

lazuline (laz'ū-lin), a. [lazuli + -incl.] Of the color of lapis lazuli; bluish.

lazulitic (laz-ū-lit'ik), a. [lazulite + -ic.]

Pertaining to, resembling, or containing lazulite.

lazurite (laz'ū-rīt), n. [ML. lazur (azure lapis lazuli) + -ite².] The sodium-aluminium silicate which forms the essential part of the

ornamental stone lapis lazuli.

Lazy brand, in stock-raising, a cattle-brand so placed on the animal that its longer axis is horizontal, as -,

lazy-bar (lā'zi-bār), n. A portable iron bar placed across the opening of the fire-door of a furnace to serve as a rest for the fire-tools when they are in use in eleaning the fire.

lazy-jack, n. 2. Naut., a length of rope rove through a thimble, seized on to the boomtopping lift, and made fast to the boom. When the sail is lowered the jacks prevent the folds of canvas from falling on the deck.

lazy-scissors (la'zi-siz"orz), n. sing. and pl. Same as tazu-tongs.

L, B. An abbreviation (b) of the Latin Legum Baccalaureus, Bachelor of Laws.

L-bar (el'bar), n. A bar of metal, which has a cross section resembling the capital letter L; an angle-bar; an angle-beam. Also called

L-beam (el'bēm), n. Same as $\star L$ -bar.

1. b. w. In cricket, an abbreviation of leg before wicket. A batsman is out leg before wicket if with any part of his person he stops a ball which, in the opinion of the umpire at the bowler's wicket, has been pitched in a straight

lead line from it to the striker's wicket and would have hit it. *Hutchinson*, Cricket, p. 63.

L. C. Anabbreviation (a) of *Lord Chamberlain*;

that is connected with n. L. Connected with n. L. Connected with a filling between the layers, generally with a filling between the layers and an icing over the top.

L. Ch. An abbreviation of the Latin Lacence that Chirughe, Licentiate in Surgery.

L. C. J. An abbreviation of least common An abbreviation of least common

The process L. D. An abbreviation (a) of Lady-day; (b) by spreading of Light Dragoons; (c) of Low Dutch; (d) [l. c.] vers of bark. of the Latin litera dominicalis, dominical letter; (e) same as L. H. D.

An abbreviation of Licentiate in

Ldp. Lp. Contractions (a) of Ladyship; (b)

for the completed rope is done.

laying-tool (la'ing-töl), n. A rectangular flat trowel used by plasterers in laying and smoothing plaster.

Lying-trowel (la'ing-trou''el), n. Same as *\text{laying-tool}\$.

laying-walk (la'ing-wak), n. A ropewalk; a Lying-walk (la'ing-wak), n. A ropewalk (la'ing-wak), n. A ropewalk; a Lying-walk (la'ing-wak), n. A ropewalk (la'ing-wak), n. A ro

The experiments in the concentration and in the leaching of the ore have taken shape in the erection of a small metallurgical plant.

R. D. Salisbury, in Geol. Surv. of New Jersey, 1900,

[p. xxvii.

leach², n. 4. A tank in which hot water is passed through ground bark to obtain tannin. Mod. Amer. Tanning, p. 27. Also latch.—Leach brine. See *brine1.

leaching (leching), n. 1. Same as lixiviation.
2. The process of obtaining tannin from bark. C. T. Davis, Manuf. of Leather, p. 48. leach-tank (lech'tangk), n. A tank in which metallic ores are separated by subjecting them to chemical reagents and subsequently washing and draining.

lead¹, v. i.—To lead through, in whist and bridge, to make it difficult for the second player on a trick to know what to do: as, to lead through a singly guarded king in the dummy, the position of the ace not being known.—To lead up to. (b) In card-playing, to make a playe: fourth hand in any trick, as, in bridge for the pone to lead up to the dummy's weakness in a suit.

lead¹, n. 3. (c) In Australia, an old or 'dead' river-bed in which gold is found.

7. In elect.: (c) The advance of phase of one electric wave over another: a term used mainly in alternating-current circuits.—10. In forestry, a snatch-block with a hook or loop for fastening it to convenient stationary objects: used for guiding the cable by which logs are dragged.—11. A flock of flying wildfowl.

After the aportsmen were in the hole and everything was ready, Stewart called "Here comes a lead from the west."

Forest and Stream, Jan. 24, 1903, p. 68.

was ready, stewart caused "Here comes a lead from the west."

Forest and Stream, Jan. 24, 1903, p. 68. Albany lead, in whist, an opening to show four trumps and three of each plain suit: so named because made popular by the Albany Whist Club.—American leads, in whist, leads that show the number of cards in the auticled. They are never used in bridge.—Angle of lead, in elect., the angular displacement by which an alternating current leads the electromotive force: the opposite of *Magin an alternating-current circuit.—Angular lead, in describing a valve-motion operated by an eccentric, or in adjusting it, an angular displacement of the center line of the eccentric ahead of its normal relation to the center line of the crank, which is given so that the opening of the port may precede or lead the beginning of the piston-stroke by a determined amount.—Blue lead, a bluestained stratum of gold-bearing gravel. [California.]—Deep lead, in Australian gold-mining, an ancient rivercourse, which is now only disclosed by deep-mining operations.—Forward lead in elect., a rotation of the brushes of a generator or motor from the neutral position in the direction of rotation of the commutator.—Hysteretic lead, in elect., the difference of phase between the magnetic flux and the magnetomotive force in an alternating circuit containing iron. circuit containing Iron.

Due to the hysteretic lead a, the lag of the current is

Steinmetz, Elements of Elect. Engineering, p. 50.

Irregular lead, in whist and bridge, a lead which la
a departure from the usual custom, such as the Sled from
10, S, 6, and 4.—Linear lead, in a steam-engine, the linear distance by which the port is open when the piston
begins its stroke.—Negative lead, in a steam-engine;
(a) The angle through which the crank has turned from
the dead-center when the valve opens to admit steam.
(b) The linear distance which the valve has to travel,
after the crank has passed the dead-center, before the
valve opens.—On the lead, held by a chain or leather
thong, as a dog.—Original lead, in bridge and whist, the
suit first opened.—Stringer lead, a small veinlet, which
is followed in the hope that it will conduct to larger
hodies of ore. lead², n—Chemical lead, lead which is free from alloy of other metals, notably zine and antimony used in the assay processes and where the presence of other metals would unfit the lead for the required purpose.—Corroding lead, refined lead suitable for the production of white lead by the corroling processes and where the presence of the production of white lead by the corroling processes are considered and the cast-indicated by a separate fireplace. The cast-indicated for about three hours, and is then reduce, and after being thickened with lime the charge undergoes a second calcination and is finally reduced and tapped. This sequence of operations is varied in according to the cast-indicated and tapped. This sequence of operations is varied in according to the cast-indicated and tapped. This sequence of operations is varied in according to the cast-indicated and tapped. This sequence of operations is varied in according to the cast-indicated by the action of nitric acid on red lead: nad to a small extent in cold water.—Lead-chamber crystalline substance, soluble in hot water and to a small extent in cold water.—Lead dloxid, a beat and the cast-indicated by the action of nitric acid on red lead: need by the action of nitric acid on red lead: as different and to a small extent in cold water.—Lead dloxid, a lead in the cast of the cas

 $[lead^1 + -age.]$ The disleadage (lē'dāj), n. tance from a coal-mine to the point where the coal is shipped.

lead-bar (léd'bär), n. equalizing bar used for the leading horses of a lead-spar, n. 2. Anglesite or other similar The swingletree four-in-hand team. See swingletree.

leaden (led'n), v. t. [leaden, a., or lead² + -en¹(3).]
lt. To fasten or cover with lead.
-2. To weigh down with or as with lead, as one's spirits.

Pader 1, n. 5. (k) In marine hardware, an eye, ring, or pulley used as a guide for a rope or chain. It may be a aimple casting having an eye and designed to be bound to a wire rope; or an eye in a screw-plate, as the tiller-rope leader of a boat; or an eye swiveled to a deck-plate, as a jib-leader; or a simple half-ring screwed to the deck, as a sheet-leader, a bell chain leader, a cross-tree leader.

10. The first player on any trick in a game of

leader-block (le'der-blok), n.

leaderette (lē-der-et'), n. A short leader in a newspaper. [Eng.]

lead-flat (led flat), n. A nearly flat roof covered with sheet-lead. A similar roofing, in which tin plates are used instead of lead, is called in the United States a deck. [Eng.]

leading¹, p.a. 4. In naval arch., said of the edge or end of a surface or blade, as a propeller-blade, which is in advance when moving through water: opposed to *following.

In the case of a plate set obliquely to its line of motion through water, it has been explained that the centre of pressure is nearer the leading edge than the after edge (see 19. 439).

White, Manual of Naval Arch., p. 499.

Leading part (naut.), the part of a tackle that is hauled upon.

leading-beam (lē'ding-bēm), n. One of two or more beams adjusted in position to serve as guides for placing the other beams of the series.

One of two or more piles driven into position to serve as guides for driving the other intermediate piles

2. A staff with a hook in one end, used to lead a bull by putting the hook through a ring in his nose.

leading-strings, n. pl. 3. Naut., an old name

leading-truck (lē'ding-truk), n. A fair-lead or guide for leading a rope or cable to a windlass; a leading-block or pulley-block used to lead a rope to a capstan or so that it can be

lead-light (led'lit), n. 1. A single piece of glass prepared for a window, to be put in a lead sash, as of a decorative window.—2. The whole of a piece of sash with lead bars prepared to fill a light, that is, a separate

lead-line¹, n. 3. In pathol., a bluish mark at the edge of the gums occurring in cases of

lead-line2 (led'lin), n. In lumbering, a wire rope, with an eye at each end, used to anchor the snatch-block in setting a lead.

lead-off (lēd'ôf), n. In exper. physiol., the passage of a constant current through a nerve, while the latter is connected with a galvanometer, by means of two electrodes placed either both along the course of the nerve, or one along its courso and the other at its transone along its course and the other at its transverse section. Philos. Trans. Roy. Soc. (London), 1897, ser. B, p. 7.—Longitudinal lead-off, the passage of a constant current through a nerve which has been arranged upon two electrodes so connected with a galvanometer that neither is in contact with a transverse section of the nerve, both touching the nerve along its conrse.—Transverse lead-off, the passage of a constant current through a nerve which has been arranged upon two electrodes so connected with a galvanometer that the transverse section of the nerve lies upon one and its body upon the other.

lead-paper (led 'pā "pėr), n. White paper which has been dipped into a solution of a colorless salt of lead and dried. It serves as a test for sulpbureted bydrogen or for soluble hydrosulphid, being blackened by exposure to these substances.

lead-reeve (led'rev), n. In mining, an official with whom aggrieved miners lodge complaints.

lead-reins (led'ranz), n. pl. In a four-in-hand lurness, the reins used to guide the leaders.

lead-riveting (led'riv"et-ing), n. In mining, a method of locking a safety-lamp by fasten-ing it with a lead rivet which receives an impression and acts as a seal, so that any tampering with the lamp may be detected.

lead compound.—Red lead-spar, crocoite.

lead-tree, n. 2. Arber Saturni, or tree of Saturn: an old name for the arberescent growth of metallic lead, in thin crystalline leaflets, which forms on a strip of sheet-zine placed in a solution of a lead salt, as lead acctate or nitrate.

lead-wash (led'wosh), n. Same as lead-water. lead-work (led'werk), n. In building, work other than ordinary plumbing, in which lead is used, as in gutters, reefing, etc. [Rare in U. S., but common in Great Britain.]

10. The first player on any trick in a game of cards; the player who sits on the dealer's left.

leader-block (lē'der-block), n. In marine hardware, a deck-block used to guide or lead a rope from the sail to the cleat, as the jib-sheet leader-block of a small yacht where the sheets are led aft to the cockpit.

leaderette (lē-der-et'), n. A short leader in a newspaper. [Eng.]

lead-flat (led'flat), n. A nearly flat roof leader-block of a hinge which is secured to a stationary object, as a door-post.

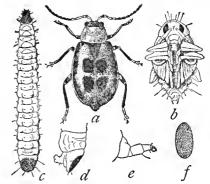
in leaf-areole (lef'ar "e-el), n. Same as *leaf-

leaf-bar (lef'bar), n. A transverse slat or grid, in different parts of the scutching- or pickingmachinery in a cotton-mill, for the arrest, and separation from the cotton, of leaves and other foreign matter.

leaf-base (lef'bas), n. That part of a leaf, or rather of its stalk or petiole, which remains within the trunk or stem after the leaf has fallen: used chiefly of fossil trunks, as of Lepidodendron, Cycadeoidea, etc.

leaf-beetle, n. Particular leaf-beetles (and so with leaf-cutters, root-borers, etc.) are known by some distinctive adjective or attribute prefixed, as bean leaf-beetle ('leaf-beetle of the bean'). All such three-word names may be taken also as bean-leaf beetle ('bectle of the bean-

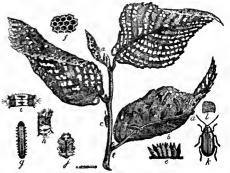
leaf'), etc.—Bean leaf-beetle, a chrysomelid beetle, Cerotoma trifurcata, which feeds on the foliage of the bean and pea in the United States, from Maryland and



Bean Leaf-beetle (Cerotoma trifurcata).

a, beetle; b, pupa; c, larva; d, anal segments of larva; ϵ , leg of same; f_i erg; a_i , b_i , c_i enlarged about five times; d_i , ϵ , f_i more enlarged. (Chittenden, U. S. D. A.)

Illinois southward: also, Cerotoma caminea.—Cherry leaf-beetle, an American chrysomelid beetle, Galeracella cavicollis, which feeds on the foliage of the cherry.—Clover leaf-beetle. Same as clover-veevil.—Cottom-wood leaf-beetle. Same as popular *leaf-beetle.—Elm leaf-beetle, a European chrysomelid beetle, Galeracella luteola, first introduced into the United States near Baltimore about 1840. It has spread north and south, and is



Elm Leaf-beetle (Galerucella Inteola).

a, eggs; b, larvæ; c, adult; e, eggs (enlarged); f, sculpture of egg; g, larva; h, side view of greatly enlarged segment of larva; h, dorsal view of larva; j, pupa; k, adult; l, portion of elytron of beetle (enlarged). (Riley, U. S. D. A.)

the principal enemy to the elms grown as shade-trees in most eastern cities. It is commonly known as the imported elm leaf-beetle, and is frequently referred to in literature as Galeruca xanthomelæna and Galerucella xanthomelæna.—Four-marked leaf-beetle, Cryptocephalus quadrimaculatus.—Larger sugar-beet leaf-beetle, Monoxia puncticollis.—Linden leaf-beetle, Same as *ladder-beetle.—Locust leaf-beetle, Odontota dorsalis.—Long-horned leaf-beetle, any member of the genus Donacta.—Orange leaf-beetle, See *leaf-beetle.—Plum leaf-beetle, san as plum *leaf-beetle, Nodonota tristis, which feeds on the foliage of the pear and the plum.—Poplar leaf-beetle, a chrysomelid beetle, Nodonota tristis, which defoliates poplara in the United States. Also called cottonwood leaf-beetle.—Rose leaf-beetle, Nodonota puncticollis.—Southern corn leaf-beetle. Same as spotted *paria.—Strawberry leaf-beetle, Typophorus canellus.—Willow leaf-beetle, an American chrysomelid beetle, Lina scripta. the principal enemy to the elms grown as shade-trees in

heetle, typonous cateaus.— whow lear-neede, an American chrysomelid beetle, Lina scripta.

leaf-blight, n. A few of the hosts, with their specific leaf-blights, are as follows: buckwheat, Ramularia rufumaculans; cabbage, Macrosporium Brassica; celery, Cercospora Apii; cotton, Cercospora gossppina; pear, Entomosporium maculatum; tobacco, Cercospora Aicotians.—Leaf-blight of almond, a fungous disease of the almond caused by Cercospora circumscissa.—Leaf-blight of corn, a disease which affects the leaves of corn, causing them to turn yellow and die. It is caused by the fungus Helminthosporium inconspicuum.—Leaf-blight of grape, a disease of grape-leaves caused by the fungus Cercospora viticola.—Leaf-blight of mignonette, a disease of the cultivated mignonette, especially when grown under glass, due to the fungus Cercospora Reseder, which causes brownish spots on the leaves.—Red leaf-blight, a disease of cotton, due to the impoverished condition of the soil, which produces an autumn-like coloration in the leaves.—Yellow leaf-blight. Same as mosaic *disease.

leaf-blotch (lef'bloch), n. A blotch on the leaves of plants caused by the attacks of certain fungi.—Leaf-blotch of rose, a fungous disease attacking the leaves of roses, caused by Actinonema Rose, which produces dark blotches on the leaves and soon causes them to drop off. See *Actinonema.—Leaf-blotch of strawberry, a fungous disease of the strawberry, due to Ascochuta Fragariæ, which attacks the leaves, producing dead spots.

leaf-brass (lef'bras), n. Very thin sheet-brass. leaf-bug, n.—Four-lined leaf-bug, an American cap-sid, Paecilocapsus lineatus, wide-spread in the United States. It damages gooseberry-husbes, currant-bushes, and many garden plants, puncturing leaves and small twigs and sucking sap. The eggs are inserted in slits cut lengthwise into the atems of plants. Also called the black-lined plant-bug. Pear leaf-bug. San nished plant-bug (which see, under plant-bug). Same as tar-

leaf-cast (lef'kast), n. A disease of young and seedlings which causes the leaves to fall: due to the fungus Lophodermium Pinastri. See *Lophodermium, *needle-cast, and *casting. 11.

leaf-caterpillar (lef'kat'er-pil-ar), cotton-caterpillar, the larva of Alabama argillacea. See *Alabama. [Southern U. S.] leaf-chafer (lēl'chā fèr), n. Any leaf-cating

leaf-chafer (lēf'chā*fēr), n. Any leaf-eating scarabæid beetle.—Lamellicorn leaf-chafer, any scarabæid beetle which feeds on leaves; specifically, any member of the subfamily Melolonthinæ, which includes the Msy-beetles, and of the subfamily Heurostictu of ftorn. See pleurostict.—Margined leaf-chafer, a rather small American scarabeid beetle. Anomala marginata, which attacks the foliagre of fruit-trees and grapevines in the southern United States.—Pear leaf-chafer, an American scarabæid beetle. Serica ricolum, which often defoliates pear-trees, especially in the eastern United States.—Shining leaf-chafer, the goldsmith-beetle.

leaf-climber (lēf'klī"-mēr), n. A liana in which the petiole or blade of the otherwise unmodified leaf is the



unmodified fear is the irritable supporting organ. Thus Clematis Vitalba and other species are petiole-climbers, varieties of Fumaria officinalis are leaf-blade elimbers, and Flagelloria Indica is a leaf-tip climber. See *tendril-climber. leaf-cover (left kuv*er), n. Same as *litter, 8,

leaf-cure (lef'kūr), v. t. To cure (tobacco) after removing the stalks. See extract under *stalk-cure.

leaf-curl (lef'kerl), n. A disease of the cherry,
peach, and plum, due to various species of
Exoascus.-Potato leaf-curl. Same as potato early

leaf-cushion (lef'kush"on), n. See *cushion. leaf-cutter, n. 1. (b) A leaf-entting ant; one of the tropical or subtropical ants which defoliate trees, as Atta fervens.—Mapleleaf-cutter, an American tineld moth, Incurraria acerifoliella, whose larva perforates the leaves of the maple with elliptical holes, using the removed leaf-substance as a

folds or leaves in the body-cavity of an animal such as the ox or hog.

leaf-fiber (lēf'fī"ber), n. The fiber of leaves.

-Leaf-fiber machine. See *fiber1.
leaf-filter (lēf'fī]"ter), n. See *filter1.
leaf-flea (lēf'fīē), n. A flea-beetle or any hom-

opterous insect of the family Psyllidæ; a flealonse

leaf-folder, n.—Lesser apple leaf-folder, a tortri-cld moth, Alceris minuta, whose larva folds the young leaves of the apple and skeletonizes them. It is common throughout the sonthern Atlantic United States.

Leaf-foot bug. Same as leaf-footed *plant-bug. leaf-frog (lef'frog), n. A small tree-frog of the genus Hylodes, peculiar to tropical America. The most common species, H. martinicensis, is noteworthy from the fact that it was the first known instance of a frog the metamorphosis of which took place within the egg.

leaf-gall (lef'gal), n. A gall of leaves.—Trumpet leaf-gall. Same as trumpet-gall.
leaf-gneiss (lef'nis), n. Gneiss composed of quartz and feldspar, in which the quartz is disposed in little parallel leaves among the

grains of feldspar.

leaf-gold, n. 2. Native gold in thin, leaf-like

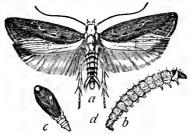
leaf-green (lef'gren), n. Chlorophyl.

leaf-green (lef'gren), n. Chlorophyl.
leaf-hopper, n.—Brown leaf-hopper, Agallia sanguinolenta.—Destructive leaf-hopper, an Americau leaf-hopper of the family Jassides, Cicadula exitiosa, which sometimes seriously damages winter wheat in the southern United States.—Grain leaf-hopper, Diedrocephalus flavierps.—Rose leaf-hopper, Diedrocephalus flavierps.—Rose leaf-hopper, Thempoa rose, frequently swarning on the leaves of the rose.—Saddle-backed leaf-hopper, Thamnotettix clitellarius, which occasionally damages the plum and other fruit-trees.
leaflet, n. 4. (c) One of the thin plates or leaves contained in the lung-books of certain spiders. (d) One of the leaf. of certain spiders. (d) One of the leaf- Destra

like branchiæ of certain aquatic insectleaf-midge (lef'mij), n. A midge that infests leaves.—Clover leaf-midge, a cecidomyild

fly, Cecidomyia trifolii, common to Europe and the United States, whose larvæ live in the folded leaves of white clover, Trifolium repens.

leaf-mildew (lēf'mil"d $\hat{\mathbf{u}}$), n. leaf-mildew (lef'mil*du), n. A mildew of leaves.—Cherry leaf-mildew. Same as cherry-blight. leaf-miner, n.—Apple leaf-miner, a fueld moth, Tischeria malifoliella, whose larva mines the leaves of the apple, blackberry, raspberry, and other rosaceous plants in the eastern United States, forming its pupa within the folded leaf.—Beet leaf-miner, the larva of afly, Pegomyia vicina, of the family Anthomyidae.—Cabbage leaf-miner. (a) An American drosophilid my, Scaptomyza adusta, whose larva mines the leaves of cabbage and other cruciferous plants in the southern United States. (b) S. grantinum, a congeneric European insect, also occurring in the United States. tt is also called imported cabbage fleaf-miner.—Clover leaf-miner. See *Agromyza, with ent.—Oak leaf-miner, any one of several species of tineine moths whose larve mine the leaves of oak. More than fifty European species have this habit. Lithcoalletis hamadryadella and L. fitchella are two of the commonest North American examples.—Palmetto leaf-miner, the larva of an American tineid moth. Homaledra sobalella. It feeds on the upper surface of the leaf of the saw-palmetto in Florida, destroying the skin as well as the fleshy part of the leaf.—Parsnip leaf-miner, the larva of a trypetidity, Acidia fratria.—Pear leaf-miner, the larva of an American tineid moth, Orniz quadripunetella.—Pine leaf-miner, the larva of an American tineid moth, Orniz quadripunetella. The reversal and called the interior of the needles or leaves of pitch-pine and other stout-leaved species of Pinus, cansing the needles to turn white.—Tobacco leaf-miner, the larva of a gelleaves .- Cherry leaf-mildew. Same as cherry-blight.



Tobacco Leaf-miner (Phthorimea operculella), a, moth; b, larva; c, pupa: all enlarged, (Howard, U. S. D. A.)

echiid moth, Phthorimsea operculella, common to the southern United States and Europe. It makes blotches in the leaves of tobacco and other solauaceous plants. It

is known to Southern tobacco-planters as the split-worm.

—White-blotch oak leaf-miner, the larva of an American theid moth, Lithocolletis hamadryadella. It mines between the two surfaces of the leaves of several species of oak, making white blotches, which are often so abundant as perceptibly to whiten the foliage of a large tree.

empress and case.

leaf-door (lēf'dōr), n. A folding door.

leafery (lē'fer-i), n. [leaf + -ery.] Leafage; leaf-mite (lēf'mīt), n. 1. Any mite of the foliage.

leaf-fall (lēf'fâl), n. The fall of the year; lister-mite, or gall-mite of the the autumn.

or oak, making and dant as perceptibly to whiten the foliage or a range tree.

dant as perceptibly to whiten the foliage or a range tree.

family Tetranychidæ; a red spider.—2. Any blister-mite, rust-mite, or gall-mite of the family Eriophyidæ (formerly Phytoptidæ).

which turn brown the leaves of carnations, which turn brown the leaves of carnations, cotton, grapes, melons, and other plants. Also called white mold, because of the white patches produced on the under side of the discolored leaves. Some of the hosts, with their specific leaf-molds, are as follows: carnation, Heteroeporium echinulatum; cotton, Ramularia areala; grape, Septosporium heterosporum; horse-radish, Macrosporium herculeum.

leaf-mosaic (lef'mō-zā"ik), n. Same as mosaic *disease.

leaf-notcher (lef'noch"er), n. An American curculionid beetle, Artipus floridanus, greenish blue or copper brown in color and covered
with white scales. It eats jagged notches in
the leaves of the orange. Also called orange
leaf-notcher and orange leaf-beetle.

leaf-notcher and orange leaf-beetle.

leaf-notcher and orange leaf-beetle.

leaf-notcher and orange leaf-beetle.

leaf-green leaf-g

leaf-red (lef'red), n. A red pigment found in leaves; erythrophyl.

leaves; erythrophyl.

leaf-roller, n.—Basswood leaf-roller, an American pyralid moth, Pantographa limata, whose larvæ roll the leaves of basswood into tubes, within which they live.

The moth is straw-colored, with olive markings and a purplish Iridescenee, and occurs in North, Central, and South America.—Box-elder leaf-roller, the larva of Archips semiferana.—Fruit-tree leaf-roller, a moth, Archips argyrospila, whose larvæ injure the foliage and fruit of the apple, pear, and strawberry.—Grape-vine leaf-roller, a pyralid moth, Desmia funeralis, whose larve live in folded grape-leaves.—Noat strawberry leaf-roller, the larva of Exartema permundanum.—Oblique-banded leaf-roller, a torticid moth, Archips rosaceana, inhabiting the northern United States from Colorado eastward, where its larvæ roll the leaves of various rosaceans, inhabiting the northern United States from Colorado eastward, where its larvæ roll the leaves of various rosaceons plants, including many important fruit-trees. The adult is brown in color, with its fore wings banded with contrasting shades of the same color.—Orange leaf-roller, the larva of Platymota rostrana.—Peach leaf-roller, the larva of Archips persicana.—Raspberry leaf-roller, Same as neat strawberry *leaf-roller.—Red-banded leaf-roller, the larva of Eulia triferana, infesting clover.

leaf-rust, n.—Orange leaf-rust, a disease of wheat leakance (lô'kans), n. [leak + -ance.] In and similar grasses, due to Uredo rubigo-vera.—Pineleaf-rust, a fungous disease of pine-leaves, eaused by Coteo-sportum Pini.

leaf-scar (lef'skär), n. The scar left on a trunk after the fall of the leaf. In fossil trunks these are of high diagnostic importance,

and the term is chiefly used by paleobotanists. See scar1, 4, and compare leaf-*cushion and $\star leaf$ -base.

One [specimen] represents an upper portion of the stem with leaf-scars and remains of petioles; another a lower

portion, with aerial roots.

Dawson, Geol. Hist. of Plants, p. 94.

leaf-scorch (lef'skôrch), n. A fungous disease of the leaves of the cherry, causing a scorched and withered appearance. It is most destructive in Europe and is attributed to Gnomonia erythrostoma. See *Gnomonia, with cut.

leaf-sewer (lēf'sō'er), n. Same as leaf-roller.
—Chapin's apple leaf-sewer, an American tortricid moth, Ancylis nubculana, whose larva aewa together the leaves of the apple.

leaf-spot, n. 2. The common name given to a large number of fungi which produce spots upon the leaves of plants. A few of the hosts, with their specific leaf-spots, are as follows: alfalfa, Pseudopeziza Medicaginis; apple, Phyllosticta pirina; blackberry, Septoria Rubi; egg-plant, Phyllosticta hortorum; lettnee, Septoria consimilis; maple, Phyllosticta

rum; lettnce, Septora acericola.—Angular leaf-spot, a bacterial disease of cotton disease of cotton leaves characterized by the formation of watery angular spots bonuded by the vein-lets of the leaf.— Black leaf-spot, the fungous disease of maples produced by Rhytisma acerinum. tisma acerinum.— Cherry leaf-spot, a fungons disease of the cherry due to Cylin-drosporium Padi or Cercospora cerasella. - Clover leaf-spot, a disease of clover due to the fungus Phyl-lachora Trifolii. lachera Trifoli.—
Leaf-spot of pea, s
fungous disease due to
Ascochyta Pisi, occurring upon the leaves
and viues of the pea.
See *Ascochyta.—



Strawberry Leaf-spot (Mycosphærella Fragariæ).

See *Ascochyta.—
Leaf-spot of violet,
a fungous disease of
the violet caused by sice); b, tuft of conidiophores and coneither Phyllosticta idia which have broken through the
Violæ or Alternaria upper epidermis (enlarged); c, section
of perithectum, showing asci within
case.—Quince leafspot, a fungous discasport, a fungous discase of quince-leaves
caused by Entomosporium maculatum.—Rose leaf-spot,
with the constant of t

ease of quince-leaves caused by Entomosporium maculatum.—Rose leaf-spot, a fungous disease of rose-leaves caused by Mycosphærella rosigena.—Strawberry leaf-spot, a fungous disease of strawberry-leaves caused by Mycosphærella Fragariæ.

leaf-table (lef'tā"bl), n. A table with a leaf or flap which can be turned up or down; a lea

or flap which can be turned up or down; also, au extension-table, that is, one with leaves which can be slipped in or out to vary its size. leaf-tier, n.—Green apple leaf-tier. Same as lesser apple *leaf-folder.—Greenhouse leaf-tier, the larva of a pyralid moth, Phlyetænia rubigalis, common to Europe, Asia, and the United States. It feeds on the leaves of various plants, especially in greenhouses, and ties the leaves together.

leaf-wasp (lef'wosp), n. Any saw-fly leaf-worm (lef'werm), n. Same as *leaf-caterpillar.

in Ireland. See Land League, under leaguet leaguer [leaguer] (lé'gèr), n. [Also leager, legar; prob. C. D. ligger, G. leger, also legger, a large cask; cognate with E. ligger, lier!.] A large cask; a tun; specifically (naut.), a cask for water holding 159 imperial gallons, carried on vessels before the introduction of water-tanks.

Leaia (lē-ā'yā), n. [NL., named after Isaac Lea.] A genus of fossil phyllopodous crustaceans of the family Limnadiidæ, characterized by a bivalved carapace, each valve of which is marked by two diagonal ridges radiating from the anterior end of the dorsal margin. Forms of this genus are very numerous in certain Carboniferous beds of Enrope and North America.

leak, n.—Electric leak, escape of current from a conductor through its insulation.

ductor through its maniation. leakage, in elect., that part of the magnetie flux of a magnetic circuit which does not traverse the desired path, as in dynamo-electric machines; the magnetism which strays from field-pole to field-pole without passing through the armature; in alternatingcurrent apparatus, the self-inductive flux.

It follows that any ordinary telegraph circuit may be made approximately distortionless by adding a certain amount of leakance, or leakage conductance.

Encyc. Brit., XXXIII. 215.

leak-stopper (lek'stop"er), n. Nant., a device for temporarily covering a hole in the bottom or side of a vessel below water while it is afloat. thus stopping the flow of water into the in-

The ship must sink: unless the power of her pumps is sufficient to overcome the lesk; or some means is devised for checking the inflow, by employing a sail, or a mat, or some other leak-stopper.

White, Manual of Naval Arch., p. 24.

leal¹ (lēl), adv. [leal¹, a.] 1. Loyally.—2. Thoroughly; exactly.—3. Lawfully. leal² (lā-āl²), n. [Pg., orig. 'legal': see leal¹, a.] 1. A former silver coin of Portugal, worth 15 cents.—2. A colonial Portuguese copper coin,

worth 16 cents, struck at Goa.

leam³ (lēm), r. [Also leem, leme, limb; perhaps ult. identical with limb¹, v.; cf. Norw. lcma, lemma, lima, Icel. lima, dismember.] I. trans. To separate or remove the shell or husk from (nuts); shell; husk.

II. intrans. To become separated from the shell, as nuts; to separate easily from the

shell or husk. [Prov. Eng.]
leam³ (lēm), n. [Also limb; appar. a variant of limb¹, with a form and sense depending on the verb leam³.] The shell or husk of a nut. [Prov. Eng.]

leam⁴ (lem), n. [Origin obscure.] A drain; a cut; in the fen district, a watercourse. [Origin obscure.] A drain; [Eng.]

leaning-stock (le'ning-stok), n. In organ-building, a horizontal bar or brace against which the pipes of a stop lean so as to be kept which the pipes of a stop lean so as to be kept ishes. Lepomis megalotis, having a long dermal firmly in place: sometimes it is indented to fit

the pipes.

leap-day (lēp'dā), n. An intercalary da especially the 29th of February in leap-year. An intercalary day,

leaper, n. 4. Naut., a sea that breaks on board a vessel; a wave that leaps over the rail.

leaping (le'ping), p. a. [ME. lepynge.] That leaps; jumping.—Leaping encumber. Same as squirting cucumber (which see, under cucumber).

leapingly (le'ping-li), adv. By leaps and bounds.

leaping-pole (le'ping-pol), n. A pole used to aid a jumper to increase the length or height

leaping-spider (le'ping-spi'der), n. Any salti-

grade spider; a jumping spider. leap-work (lep'werk), n. Any mechanical

device for producing intermittent motion.

Learic (ler'ik), n. [Lear (see def.) + -ic; in punning allusion to lyric.] A name given to a five-line nonsense-verse of the kind used by Edward Lear in his "Book of Nonsense": now called a *limerick (which see).

The Academy (29 Jnly, 1899) and Truth put the word in circulation by proposing competitions on the model of my 'Irish Literary Learies,' which they nsmed expressly.

M. Russell, in N. and Q., 9th ser., X1L 8.

lea-rig (le'rig), n. A grassy ridge left unplowed at the end of a plowed field. N. E. D. [Eng.

dial.] 4. In Australian mining, a mining leasehold; a piece of ground leased for the purpose of mining.—Reversionary lease, one which is to become effective at some time in the future.

lease-band (les'band), n. One of the bands or rods which alternately separate the warpthreads in a loom; a lease-rod.

lease-pin (les'pin), n. A warping-pin; a pin on a warping-beam for holding the yarn.

leash, n. 4. In physiol., an aggregation of similar cord-like structures, such as fibers, nerves, blood-vessels, etc.

A man for many years had chronic ulcers, small leashes of vessels running across the cornes to the ulcers.

Lancet, May 30, 1903, p. 1516.

leashing (le'shing), n. 1. The forming of a leash (or lease) in the warp-threads in a loom between the warp-beam and the heddles.—2. Same as *shaft-lashing.

leasing* (le'sing), n. An erroneous form of *leashing (in weaving).

leather, n. 5. In cricket, the ball. [Colloq.]—6. pl. (a) Wearing-apparel made of leather, as breeches, leggings, etc. (b) One who wears leathers.

"All the coaches are full with the men going down," Spayln said. . . . "Get into my yellow; I'll drop you at Mudford. . . . Come along; jump in, old boy—go it, leathers!" Thackeray, Pendennis, xx.

Acid leather, leather which retains an appreciable quantity of sulphuric or other mineral acid used to plump or raise the hide in preparation for tanning. Such leather is objectionable for military purposea, as it corrodes soldiers' socks and causea their accourtements to rust.—Bastard leather, a skin naed in binding books. It is as atrong as

gostskin in resisting tearing, but the surface is tender and shows many imperfections.—Leather-finishing machine, a machine for glazing, rolling, or pebbling leather.—Leather-measuring machine, a machine for ascertaining the number of square feet in a hide or askin.—Olitanned leather, leather made, chiefly from the skin of the sheep, calf, or deer, by partly removing or roughening the grain side of the skin, liming, thoroughly saturating with fish- or seal-oil forced in by beating, exposing to heated air until much of the oil has become oxidized, and removing the surplus unaltered oil by expression or by washing with an alkaline solution. The product is very soft and pliant, and is extensively used for lining cases for silverware, etc., for gloves, for liming articles of clothing, and in various other ways.—Satin leather, in shoemanuf, black leather for uppers, made from hide finished on the flesh side. Modern Amer. Tanning, p. 112.—Spanish leather. (b) Decorated leather made in Spain, where the art of stamping and working leather was brought to a high state of perfection.

leather-awl (leth'er-al), n. A tool for piercing holes in leather.

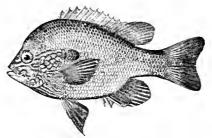
leather-bark (lefh'er-bark), n. Same as leatherwood, 1. [Rare.]

leather-brown, n. 2. Same as Bismarck or phenylene brown.—3. A basic coal-tar color of leave1, v. t.—To leave over, to leave for future use, the disazo type, prepared by combining two consideration, or decision.

molecules of diazotized para-acetanilide with leawill (le'a.wil), n. [Also leeawell; < aborigone molecule of meta-phenylene diamine: particularly suited for the coloring of leather and jute.—4. A name occasionally applied to *phosphene.

leather-buffer (lefth'er-buf'er), n. A machine for grinding or fleshing hides or skins. leather-bush (letil'ér-bush), n. Same

fishes, Lepomis megalotis, having a long dermal



Leather-ear (Lepomis megalotis). (From Bulletin 47, U.S. Nat. Museum.)

opercular flap, found in the fresh waters of the eastern United States.

leather-fish (leth'er-fish), n. The file-fish, Monacanthus hispidus.

leather-hunting (leath'er-hun"ting), n. In cricket, fielding, especially fielding while a large number of runs are made by the oppos-

leather-jack, n. 2. Any species of the genus Oligophites, fishes of the family Carangidæ. leather-jacket, n. 2. In bot.: (b) In Australia, any one of several other trees, so called from the toughness of their bark; especially the cooper's-wood, Alphitonia excelsa, the coach-wood, Ceratopetalum apetalum, Cryptocarya Meissneri of the laurel family, and Weinmannia rubifolia of the family Cunoniaceæ. - 3. The larva of any one of several species of erane-flies of the family *Tipulidæ*. It lives underground in pasture-lands and has an especially tough skin.

This will kill slugs and leather-jackets.

Massee, Plant Diseases, p. 45.

4. In Australia, a thin paneake made of flour and water.

leatherneck (leth'er-nek), n. [Eng. naval slang.]

When we played ship's theatricals of Vigo, Glass'ere played Dick Deadeyc to the moral, though the lower deck wasn't pleased to see a leatherneck interpretin' a strictly

wasn t preason a maritime part.

R. Kipling, The Bonds of Discipline, in Traffics and [Discoveries, p. 47.

leather-paste (leth'er-past), n. Paste used in attaching leather to the surface of other materials, as in bookbinding.

leather-powder (leth'ér-pou"dér), n. Scrap leather ground to powder, for use as a manure. The nitrogen which slone gives it value as such is not readily given up in a condition available for plants.

leather-presser (leth'er-pres"er), n. leather-manuf., a press used to remove the grease from skins which are to be used for fancy stock.

leatherwood, n. 2. (b) The Tasmanian pink-leche², n. Same as *lichi².

wood, Eueryphia Billardieri. See *pinkwood, Lecher system. See *system.

2.—3. In the southeastern United States, lechosa (lā-ehō'sä), n. [Sp. lechosa, milky, < Cyrilla racemiflora, a bush or small, wide-leche, milk.] In Porto Rico, the papaya, or

spreading tree of bottom-lands, with a hard wood and, at the base of the trunk, a spongy pliable bark, recommended for a styptic.



Leatherwood (Cyrilla racemiflora).
(From Sargent's "Manual of the Trees of North America.")

More often called ironwood and sometimes he-huekleberry, burnwood, or burnwood-bark, and red or white titi. Sometimes called Southern leatherwood. See Cyrillaeeæ. leav, v. and n. A simplified spelling of leave.

eawill (le'a-wil), n. [Also leeawell; < aboriginal Australian leäwil, le-ow-cl, forms of the aboriginal word otherwise represented by

*leeangle, q. v.] Same as *leeangle.

Leber's plexus. See *plexus.

lebes (le'bez), n. [Gr. λέβης.] In Gr. antiq.,

a metal cal-

dron, usually of bronze, sometimes of gold and silver, often offered as a prize.



lebis (leb'is), n. [Ar. libis.] A cyprinoid fish, Labco niloticus, inhabiting the Nile.

Inhabiting the Mile.
Lebistes (le-bis'tēz), n. [NL., said to be based on Gr. λεβίας, L. lebias, a kind of fish.] A genus of fishes of the family Pæciliidæ, found off the island of Barbaös.

lebrancho (le-bran'cho), n. [Cuban Sp.] cuban name of Mngil brasiliensis, one of the mullets, found in the West Indies and south to Patagonia.

Lecanactidaceæ (lē-ka-nak-ti-dā'sē-ē), n. pl. [NL, & Lecanactis (Lecanactid-) + -aceæ.] family of gymnocarpous lichens named from the genus Lecanactis.

Lecanactis (lē-ka-nak'tis), n. [NL.(Eschweiler, 1824), ζ Gr. λεκάτη, a dish, disk, + ἀκτίς, a ray. The name alludes to the form and appearance of the apothecia.] A genus of simple crustaceous gymnocarpous lichens having disciform seattered or gregarious apothecia and hyaline, spindle-shaped, 2- to 16-eelled spores. About 50 species are known. They occur on rocks and tree-trunks.

Lecanitida (lek-a-nit'i-dā), n. pl. [NL., < Gr. λεκάνη, a dish, + -ites + -ida.] A subdivision of the ammonoid cephalopods of the suborder Discocampyli. It comprises genera with compressed discoidal and involute shells. The primitive representatives have entire sutures with broad, rounded saddles and narrow lobes, while the more complicated have prolonged lateral suture-lines and an indefinite number of inflections of the saddles.

of inflections of the saddles.

Lecanium, n. 2. [l. c.] A scale-insect of the genus Lecanium or of an allied genus.—

Peach lecanium, Eulecanium persicæ, which occurs in Europe, Australia, Nova Scotia, and the United States.—

Plum lecanium, Eulecanium prunastri, a cosmopolitan species which occurs in Europe, Japan, and the United States.—Tuilp-tree lecanium, Eulecanium tulipiferæ, an American species which occurs on the tuilp-tree, magnolia, and rarely on clover. It forms large masses on the twigs of infested trees and sceretes a large amount of honevdew.

Lecanocrinus (lek-a-nok'ri-nus), n. [NL., Gr. $\lambda = \frac{1}{\kappa \kappa n v \eta}$, a dish, $\frac{1}{\kappa \kappa n v v \eta}$, a lily (see erinoid).] A crinoid genus belonging to the family Ichthyocrinidæ, which, like Ichthyocrinus, appears as a solid body when the arms are closed, except that the posterior rays of the six brachials are not in contact, but are separated by anal plates. The genus occurs in the Silurian of North America.

Lecanoraceæ (lek″a-nō-rā'sē-ē), n. pl. [NL., \(Lecanora + -aceæ. \)] The proper form of the name of the liehen family, based on the genus Lecanora. See Lecanorei.

Le Chatelier's law of radiation. See $\star law^1$.

papaw. Carica Papaya, a tree with milky juice and melou-shaped fruit. See papaw, 1, and

lechriodont (lek'ri-ō-dont), u. [Gr. hippor, slanting, + bloir (lobort), tooth.] Ilaving the ledger-stone (lej'er-ston), u. A slab covering vomerine teeth in transverse or posteriorly converging rows: contrasted with *mecodont. ledger-wall (lej'er-wall), u. In mining, the lechriodont (lek'ri-ō-dont). a.

Lechriodonta (lek ri-ō-don'tii), n. pl. [NL.: see */cchrindont.] A division of failed amphibians in which the palatal teeth are restricted to the posterior portion of the vomers and form transverse or posteriorly converging rows.

lechuguilla (lā-chō-gēl'yā), n. [Sp. lechn-quilla, dim. of hchuga, lettuce, \ L. lactuca, lettuce: see lettuce.] The name of several species of Agarc, especially of A. Lecheguilla, which yield a valuable fiber and a saponaeeous substance of various forms called amole. eeous substance of various forms called amole. They are characterized by comparatively narrow, rigid leaves from 10 to 30 inches long which have along their maryin a continuous toothed horny border. The tlower-stalk, rising to a height of from 5 to 8 feet, hears a comparatively slender spike of flowers. Generally speaking, these plants grow on the high table-land of northern central Mexico, western Texas, and Arizona. Their fiber is often called istle, or Tampico fiber.—Jaumave lechugilla, Agare lophantha, the source of Jaumave istle.

lecimicroönin (les-i-mī-krō'ō-nin), n. $\lambda \dot{\epsilon}_{N}(t b c)$, the yolk of an egg. $+\mu \kappa \rho \dot{c}_{c}$ small, $+\lambda \dot{\epsilon}_{N}(t b c)$, the yolk of an egg. $+\mu \kappa \rho \dot{c}_{c}$ small, $+\lambda \dot{\epsilon}_{N}\dot{\epsilon}_{c}$ egg. $+\lambda \dot{\epsilon}_{n}\dot{\epsilon}_{c}$] A substance obtained by Béchamp from the yolk of hens' eggs. It is insoluble in water, but may be dissolved by a weak solution of sodium carbonate, and precipitated from this solution by acetic acid.

lecimicrozymase (les-i-mī-krō-zī'mās), n. [Gr. Σεκι(θυς), yolk of an egg, + μικρὸς, small, + ζύμη, ferment, + -use.] A substance obtained by Běchamp from the yolk of hens' eggs. It is precipitated by alcohol from the acetic-acid filtrate from lecimicroonin, and acts as an enzym, liquefying starch paste.

lecithal (les'i-thal), a. [lecith-in + -al1.] Of

or pertaining to lecithin.

lecithalbumin (les'i-thal-bū'min), n. [lecith-in + albumin.] A compound of lecithin with an albumin: widely distributed in the animal world, but individually little known.

lecithoblast (les'i-thō-blast), n. [Gr. λέκιθος, yolk, + βλαστός, germ.] A name given to the yolk-cells when they constitute a discrete layer in the embryo: same as endoderm in many animals.

lecithoönin (les-i-thō'ō-nin), n. [Gr. λέκιθος, yolk, + φόν, egg, + -in².] A substance obtained by Béchamp from the yolk of hens' eggs. It is soluble in water, but is coagulated by alcohol.

lecithoproteid (les″i-thō-prō'tē-id), n. [Gr. λέκιθος, yolk, + E. proteid.] Same as *lecith-

lecithoprotein (les-i-thō-prō'tē-in), n. [Gr. λέκιθος, yolk, + Ε. protein.] A compound albumin which results from the union of lecithin with a protein radical.

lecithozymase (lesºi-thō-zī'mās), n. [Gr. λέκιθος, yolk, + ζίμη, ferment, + -ase.] A snb-stanee obtained by Béchamp from the yolk of hens' eggs. It is precipitated by alcohol from an aqueous solution, but is not rendered permanently insoluble in water, and acts as an enzym, liquefying starch paste. leck-stone (lek'ston), n. [leck, dial. form of leak, + stone.] A granular variety of trap-

leak, + stone.] A granular variety of trap-rock found in Seetland and used for the bottom of ovens.

Leclaire limestone. See *limestone.

lec-lex (lek'leks), n. [Prob. southwestern American Indian.] An American tenebrionid beetle, Asida sordida, found on the alkaline leelite (le'lit), n.

 $+\tau v \pi v c$, type.] In the nomenclature of types leeringly (ler'ing-li), adv. In a sly, immodest, in natural history, a syntype selected subsequently to the original description, to take the place which in other cases is occupied by a

lecythidaceous (les"i-thi-da'shius), a. Belonging to the plant-family Lecythidaceæ. Ledbury shales. See *shale2.

leden, a. A simplified spelling of leaden. ledger1 (lej'er), v. i. In anyling, to fish with ledger-bait.

Ledger bark. See *bark2.

ledgering (lej'er-ing), u. [ledger(-bait) -ing².] In angling, fishing with ledger-bait. ledger-line (lej'ér-līn), n. In angling, an ar-

rests on the bottom.

716

ledge-rock (lej'rok), n. Rock in place as distinguished from loose fragments.

wall underneath a vein.

ledgit (lej'it), n. [Appar. $\langle ledge^1 + \dim .it$ for et.] 1. The top of the inner half of a window. Banfishire Glossary. [Seotch.]—2. A slip of paper or parelment projecting from the edge of a leaf in a book, upon which notes or memoranda may be written. [Scotch.]

leditannic (lē-di-tan'ik), a. [Ledum (see def.) + tunnic.] Noting an acid, a tannin, C₁₅H₂₀-O₈(?), obtained from wild rosemary, Ledum palustre. It is possibly identical with esculotannie acid.

ledixanthin (le-dik-san'thin), n. [ledi(tannie) + xanthin.] A compound, C₃₀H₃₄O₁₃(?), prepared by the action of dilute acids on leditannie acid or on esculotannie acid.

ledouxite (le-dô'ît), n. [Dr. A. R. Ledoux, of New York City, + -ite².] A copper arsenide, Cu₄As, containing cobalt and nickel in small amount: found in the Lake Superior copper

Ledum camphor. See *camphor.

lee¹. I. n. 3. In gcol., the side of a ledge of rocks which is turned away from the approach lee¹. I. n. of an eroding agent, such as a glacier. other side is the stoss or shock side.

II. a.—Lee anchor, the anchor on the lee bow of a vessel when it is under way: when the ship is at anchor, the lee anchor is the one that is not dropped.—On the lee beam, bearing to leeward (of a vessel) at or nearly at right angles to the line of the keel.

leeangle (le'ang-gl), n. [Also leangle, liangle, langeel, leonile; \(\) Anstralian langeel, leanguel; also in other forms, represented by *leawill, q. v.] A club of the native Australians, bent at the striking end: similar to a pickax with a single pick. E. E. Morris, Austral English.

leech², n.—Skate leech, a large, spinose, greenish leech, Pontobdella muricata, parasitic upon skates and sharks.
leechery (le'cher-i), n. [leech¹ + -ery.] The healing art.
leech-extract (leeh'eks"trakt), n.

An extract prepared from leeches: it

has hemolytic properties.

leech-glass (leeh'glas), n. A glass tube in which a leech is placed, the open end being applied to the part where it is desired to make the leech take hold.

take hold.

Leech-line block (naut.), a block, secured to the yard, through which the leech-line is reeved.—Mizzen leech-lines, the leech-lines which lead from the leeches of the square sails to their respective yards on the nizzen, and thence to the decks, and are used for gathering the sides (leeches) of the sails toward the yards and masts in furling.

leechwort (leeh'wert), n. The ribwert or riborns s. Plantagolanceolata.

wort or ribgrass, Plantago lanceolata. Leeds ware. See *ware2. leefang, n. (b) A deck-horse. See

SkateLeech (Pontodella nuricata), One half small parret green with small parret, green with a searlet breast. Also called green-leek. [Local, Anstralia.]—Native leek, in Anstralia, Bulbine bulbosa, a plant of the lily family, bearing bright-yellow thowers. It is very poisonous to horses and cattle. Celled also native onion and, in Tasmania, yellow lily. History.")

(lē'līt), n. [Named (1818) after J. F. A variety of orthoclase feldspar, from plains of the southwestern United States.

Smithsonian Rep. (Nat. Mus.), 1892, p. 568.

lectica (lek-tī'kā), n.; pl. lectica (-kē). [L. lectica, < lectus, a conch. bed.] In Rom. antiq., a litter, closed or open, borne by slaves.

lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept that I hat the proposedature of twose lectica (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lectotype (lek'tō-tīp), n. [Gr. řektóc, chosen, the concept twose lect

leering way; with a leer.

"How do you do, Mr. Gagin?" said the old hag leeringly.

"Eat a bit o' currie-bhant,"—and she thrust the dish towards me.

"Thackeray, Major Gahagan, i.

leery² (lēr'i), a. Empty, in any sense: as, a leery eart; to be leery and tired.

"I've been strolling in the Walks and church-yard, father, till I feel quite leery.".

"I won't have you talk like that!" he thundered. "Leery," indeed. One would think you worked upon a farm!"

T. Hardy, Mayor of Casterbridge, xx. Leeway indicator, a metal segment of a circle marked with the points of the compass and placed on the taffrail of salling vessels. Its zero-line agrees with the keel line of the ship, and the bearing of the axis of the wake from this zero point shows the leeway, which is reckoned in points and quarter-points.

rangement of fishing-tackle in which the lead leg, n. 2. (b) In telephony, a wire used for connecting a subscriber's line directly with the main switchboard .- 8. Same as water-leg .-In mach.: (a) The movable case which contains the bucket-belt or -conveyer of a grain-elevator. (b) The tube in which the grain is lifted into an elevator.—10. In mining, a peculiar form of quartz-reef, forming a nearly vertical prolongation of the saddle. E. E Morris, Anstral English.—11. A tongue-like portion of some geologic formation which projects from the main mass or intrudes ethers. The term is a local one used in England for sneh relationship in different drift deposits. J. Geikie, The Great Ice Age, p. 362.—12. A
play in which 'leg-business' is a prominent feature. [Theat. slang.]—Deep square leg, in cricket:
(a) A fielder at right angles with the batsman's wicket
and at a distance from it on the legside. (b) Ilia position
in the field. Hutchinson, Cricket, p. 65.—Good leg
(naut.), a satisfactory course.—Lawn-tennis leg, rupture of some of the fibers of the nunseles of the call by
overstrain in playing lawn-tennis.—Leg along (naut.),
the leading out of a rope that is to be haulled on. [Eng.]
—Legs and wings (naut.), said of a ship when its masts
are of extraordinary height and its yards very wide, that
is, an oversparred and oversaided vessel.—Leg ball. See
*ball1.—Leg-before-wicket, in cricket. A batsman is
out leg-before-wicket if with any part of his person he
stops the ball which, in the opinion of the umpire at the
bowler's wicket, has been pitched in a straight line from
it to the striker's wicket and would have hit it.

The law of leg-before-wicket has also been much dissuch relationship in different drift deposits.

to the striker's wicket and would have hit it.

The law of leg-before-wicket has also been much discussed, owing to the general objection to the growing habit of deliberately putting the body or legs in front of a breaking ball instead of playing it with the bat.

Encyc. Brit., XXVII. 277.

Leg-of-mutton sail. Same as shoulder-of-mutton sail (which see, under sail!).—Legs of the martinets (mait.), an old name for the two ropes fastened to the leech-rope of a course and spliced together.—Off the left leg, in golf, that stance assumed by a player by which the ball is played on a line with the left foot.—Off the right leg, in golf, that stance assumed by a player by which the ball is played relatively near to the right foot, with the right leg advanced.—Scissors legs. Same as **xcissor*.—To keep one's legs. Same as ta keep one's feet (which see, under keep).—To make a leg. (b) Naut., to sail on a tack.—To pull a person's leg, to fool or humbug him; to 'do' or obtain money from a person by imposing on his credulity. [Slang.]

leg. An abbreviation (b) of legislative or legislature; (e) of legal; (d) of legate; (e) of the Latin legit, he reads; (f) of legunt, they read. Latin legit, he reads; (f) of legith, they read. legacy, n.—Absolute legacy, a legacy, without condition, which vests immediately upon the death of the testator.—Alternate legacy, a legacy in which one of two or more things is hequeathed without designating which.—Conditional legacy, a legacy which will vest only upon the fulliment of some condition precedent or subsequent.—Indefinite legacy, a legacy in which things not enumerated or ascertained as to amounts, quantities, at a real hequesting as a hequest of unequipmented. sequent.—Indefinite legacy, a legacy in which things of enumerated or ascertained as to amounts, quantities, etc., are bequeathed, as a bequest of menumerated chattels, or all shares in a certain company, or a fund that may be on deposit in a certain bank, etc. A residuary legacy is usually of this class.—Lapsed legacy, a legacy which, by the death of the legate before the testator dies or before some certain event, can never vest.—Legacy by damnationi, in civil law, a legacy in which the testator charged his heir to give a certain thing to a certain legatee. It afforded the legatee a claim against the heir, but prior to delivery no right of property in the thing bequeathed.—Modal legacy, a legacy in which the will directs a particular method of applying the legacy for the henefit of the legatee, as a certain sum to be used for educating a certain person, etc.—Substitutive legacy, a gift by will or codicil Intended to take the place of one already made in either.—Universal legacy, in civil law, a single bequest by which a testator disposes of his entire estate.

legacy (leg'ā-si), v. t.; pret. and pp. legacied,

legacy (leg'ā-si), v. t.; pret. and pp. legacied, ppr. legacjing. [legacy, n.] 1. To bequeath; assign as a legacy.—2. To leave a legacy to. legalistic (le-gal-is'tik), a. [legalist + -ic.] ertaining to legalism or to legalists.

It [book of Jubilees] is really an Haggadic commentary on Genesis, and is practically the sole monument of legalistic Pharisaism belonging to the latter half of the 2nd century B.C., and is a characteristic example of that form of religion against which the Pauline dialectic was directed. It has a secret apologetic aim. It defends and justifies the assumption of the high priesthood by the Maccabees.

Encyc. Brit., XXV. 487.

legality, n. 3. A gambling game. [Slang.] Le Gascon style of bookbinding. See *style1. legatary, n. II. a. Pertaining to or of the nature of a legacy.

legate (lē-gāt'), v.t.; pret, and pp. legated, ppr. legating. [L. legare, pp. legatus, send. appoint, bequeath: see legate, n.] To bequeath; give by will; give and bequeath.

legatee, n.—Residnary legatee. See residuary dev-isce, under residuary.

legationary (le-ga'shon-a-ri), a. [legation + -ary1.] Pertaining to a legation.

legative (leg'a-tiv), a. and n. [ML. legativus, \langle L. legare, send, depute, appoint: see legate, n. and v.] L. a. 1. Possessing power to confer the anthority of a legate upon: as, a legative



natural size (after Bourne). (From Cambridge Natural

bull; a legative commission.—2. Same as legatine, 1 and 2.

IIt. n. A legate. [Once, in a figurative use.] N. E. D.

Legats touch, a style of playing, especially on the pianoforte or organ, that produces a smooth, legate effect: opposed to staccate touch.

legatorial (leg-a-to'ri-al), a. [legator + -ial.] lehua (lā-hō'ä), n. [Hawaiian.] Of or pertaining to one who leaves a legacy; name for a myrtaceous tree, Metros pertaining to a legacy.

legatoryt, n. An obsolete form of legatory. leg-break (leg'brāk', n. In cricket, a ball which breaks from the leg, that is, a ball which, after it has pitched, alters its course, or twists (as viewed by the bowler), from right to left. R. H. Lyttelton, Cricket and Golf, p. 100. legendarian (lej-en-, or le-jen-da'ri-an), n. [legendary + -an.] 1. The writer of a legendary; a chronicler of the saints.—2. One who regards early history, especially gospel history,

as legendary.

legendry (lej'en-, or le'jen-dri), n. [legend + -ry.] The realm of legend; legends collectively; mystic inscriptions or symbols.

leg-gland (leg'gland), n. A gland in the basal joint of the leg of Branchippus, and in the terminal joint of the leg in many insects.

legicide (lej'i-sīd), n. [l. lex (leg-), law, + -cida, < cædere, kill.] An abelisher er destroyer of law or the laws.

by swelling, erosions, and severe lameness. legionry (le'jon-ri), n. [legion + -ry.] Gath-

ered legiens; legions collectively.

legislation, n.—Attractive legislation, legislation which puts a premium en socially useful conduct: opposed to negative or repressive legislation, which enacts penalties for socially harmful conduct; especially, legislation which fosters education and enlightenment. L. F. Ward, Dynamic Sociol., 11, 236.

legislational (lej-is-la'shon-al), a. Pertaining to, resulting from, or of the nature of legislation. legitimate, a. II. n. 1. By ellipsis, legitimate drama (which see, under legitimate).— 2t. An emigrant to Australia who had 'legal 27. An emigrant to Australia who had 'legal reasons' for emigrating. [Slaug.]—3. A legitimate child.—44. Something to which one has a legal right. Milton, Eikon., 31. N. E. D. legitimature (lē-jit'i-mā-tūr), n. [legitimate, v., +-ure.] An office or dignity to which one has a legitimate title. Carlyle, Fred. the Great, VI. 144. N. E. D. legitime, n. II. a. 1. Legitimate.—2. Genuine, as opposed to adulterated or spurious.—3. Orderly: conforming to legal usage.

3. Orderly; conforming to legal vsage, legitimistic (le-jit-i-mis'tik), a. [legitimist +

+-ic.] Maintaining or inclined to the principles of the Legitimists.

legitimity (lej-i-tim'i-ti), n. [F. légitimité; as legitime + -ity.] Legitimaey. Landor, Imag. Con., III. 457. N. E. D.

legoa (lā'gō-ā), n. The Portuguese form of league².

legplek (läg'plek), n. [Cape D., & leggen, lie, + plek, a place.] A pen or inclosure for eattle. [South African Dutch.]

tle. [South African Dutch.]
leg-rope (leg'rop), v. t. In Australia, to repe or lasso by the leg with a nosed rope.
leg-ropes (leg'rops), n. Same as *Bauera, 2.
leg-stump (leg'stump), n. See stump, 5.
leguant (le-gwän'), n. [D. leguaan, < F. Pi-quane or le guane: le, the, iguana, guane, iguana: see iguana and guana¹.] The iguana.
legumelin (le-gu'me-lin), n. [legume+-cl+-in².] A proteid which is said to be present in the pea and other leguminous seeds: it is probably a mixture consisting chiefly of nuprobably a mixture consisting chiefly of nucleo-albumins.

leg-vise (leg'vis), n. In mech., a bench-vise which is partly supported by a leg reaching to

leg-worm (leg'werm), n. A guinea-worm, the female of which lives coiled up in the subcutaneous tissues, usually of the legs, and gives

rise to painful tumors.

lehal (le-hal'), n. [N. Amer. Indian.] A
guessing game of the Indians of Oregon, Washington, and British Columbia, played with two small bones one of which is marked. The bones are hidden in the hands of the players, and the object of the game is to guess in which hand the marked bone is.

1ehm (lām), n [G.] Loam: sometimes used technically for untransported fragmental products of the superficial decay of rocks which resemble loess.

The true loess is distinguished from another, lehia, which Falsan recognizes as the product of atmospheric action, formed, in fact, in place from the disintegration and decomposition of the subjacent rocks.

Smithsonian Rep., 1890, p. 227. A native name for a myrtaceous tree, Metrosideros poly-morpha, found in the Hawaiian, Marquesas, Society, Samoan, Fiji, and Kermadec islands. It bears beautiful red flowers, which are much prized by the natives. The wood is very hard, furnishes the best fuel, and is also used for building purposes. Many of the old idols were made of it. Also called ohia-lehua. See

dress for the head or neck, especially a neck-lace or a wreath of leaves and flowers.

leibzoll (lip'tsől), n. [G., < leib, body (see lije), + zoll, tax (see toll¹).] A personal tax formerly imposed in Germany upon a Jew whenever he crossed the boundary ef a city or petty state. It was removed in Prussia in 1790 and in other German states in 1803.

He Joseph 11.] abolished the Leitzoll, night-notices, passport regulations, and gave the Jews permission to learn trades, art, science, and, under certain restrictions, agriculture.

Enege. Brit., XIII. 685.

Leicester (les'ter), n. The name of a shire in England: applied distinctively (a) to a breed of sheep having a long, tapering head, deep ehest, round body, thin skin, and fine white wool; and (b) to a breed of cattle, practically the same as the lenghorn. This breed, as also the Leicester sheep, was brought into prominence by Robert Bakewell, a noted breeder

and calcium, occurring in green incrustations consisting of fine silky scales: found in Pennsylvania.

Leimacopsidæ (lī-ma-kop'si-dē), n. pl. [NL., \(Leimacopsis + -idæ. \] A family of terrestrial triclad turbellarians, having the dorsal face very convex and the mouth in the anterior part of the body. It contains the genus Leimacopsis. Leimacopsis (li-ma-kop'sis), n. [NL. (Diesing, 1862), \langle Gr. $\lambda \epsilon i \mu a \xi$, a snail, $+ i \psi u c$, appearance.] The typical genus of the family Leimacopsidæ.

leimtype (lim'tip), n. [G. *leimtyp, leimtypic, < leim, glue, gelatin, + typ, type.] In photog., a process in which gelatin prints in high relief are used for direct printing in the ordinary letter printing-press. Woodbury, Encyc. Dict. of Photog, p. 259.

leiocome (lī'ō-kōm), n. [Gr. λεῖος, smeoth, + κόμμι, gum.] Dextrine or starch-gum: made by heating starch cautiously until it becomes entirely soluble in water, furnishing a thick mucilaginous solution.

Lelocottus (1i-ō-kot'us), n. [NL., ζ Gr. λείος, smooth, + NL. Cottus.] A genus of Pacific shore-fishes belonging to the family Cottidæ.

I leiodermia, n. See *liodermia.

Leio gum. See * dum!

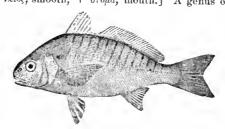
leiomyoma, n. See liomyoma.

Leiopathes (lī-op ' a -thēz), n. [NL. (Gray, 1840). Gr. λειος, smooth, + πάθος, condition, quality.] The typical genus of the family Leiopathidæ.

Leiopathidæ (li-ō-path'i-dē), n. pl. [NL., < Leiopathes + -idæ.] A family of zoantharians, of the order Antipathidea, in which 12 mesenteries are present in the oral cone. It contains the genus Leiopathes.

leiophyllous (li-of'i-lus), a. [Gr. $\lambda \bar{\epsilon} i o c$, smooth, $+ \phi i \lambda \lambda \delta v$, leaf, + -o u s.] Having smooth leaves. leiopus, n. See *liopus.

Leiostomus (li-os tō-mus), n. [NL., ⟨ Gr. lemniscoidal (lem-nis'koi-dal), a. [lemniscoid top), smooth, + στόμα, mouth.] A genus of + all lemniscoid top)



Leiostomus xanthurus (From Bulletin 47, U. S. Nat. Museum.)

sciencid fishes found on the South Atlantic and Gulf coasts of the United States.

leiphamic (li-fam'ık), a. [NL leiph(æmum) + am(ine) + -ic.] Derived from the lichen Hæmatomma leiphæmum.—Leiphamic acid, a bitter compound, $C_{22}\Pi_{46}O_{5}$, contained in the lichen Hæmatomma leiphæmum.

Leishman-Donovan body. See *body.

Leiter's coil. See *eoil. Leithakalk (lī't a-kālk), n. [G., 'Leitha limestone' The river Leitha is a tributary of the Danube.] In gcol., a subdivision or phase of sedimentation of the Miocene series in Austria. The rock is a reef limestone largely composed Austria. The rock is a reel limestone largely composed of corals, calcareous algæ, and bryozoans, with great numbers of mollusks, sea-urchins, and other reel-inhabiting animals. At the edges of the Vienna basin, in which it lies, the rock becomes sandy and conglomeritic (Leithaconglomerate).

leitmotiv (līt' mō-tēf"), n. [Also leitmotif, leitmotiv; ⟨G. leitmotiv, ⟨leiten, lead, + motiv, motive.] In music, a leading motive (which see, under leading1).

leitneriaceous (līt/nē-ri-ā'shius), a. Belonging to the plant family Leitneriaceæ.

Leitneriales (līt - nē - ri - ā'lēz), n. pl. [NL. (Engler, 1897), < Leitneria + -ales.] An order of dicotyledonous archichlamydeous plants

embracing only the family *Leitneriacea*.

lek (lek), n. [lek, r. i.] An assemblage of black cocks, *Tetrao tetrix*, during the pairing season, when the birds select their mates.

As many as forty or fifty or even more birds congregate at the leks; and the same place is often frequented during successive years. Darvein, Descent of Man, p. 460.

lekane (le-kä'nā), n. [Gr. λεκάνη, a dish.] In Gr. archæol., a covered pottery vessel in the nence by Robert Darkewen, a noted of ceder of the eighteenth century.

Leichhardt's bean. Same as Queensland *bean.—
Leichhardt's tree. See *tree.

Leidyite (li'di-it), n. [Named after Dr. Joseph Leidy (1823-91) of Philadelphia.] A hydrous lish Literature.

Lish Literature.

lembergite (lem'berg-īt), n. [Lemberg (see def.) + -ite².] An artificial mineral, a hydrous silicate of aluminium and sodium, 5NaAlSi- $O_4 + 2H_2O$, first described by J. F. Lemberg as nephelin hydrate.

lemmanee (lem-a-nē'), n. [Also lemone; frem an East Indian source.] A fine cotton mate-rial made in India. Yule and Burnell, Hebson-Jobson (s. v. piece-goods).

"Lemone Handkerchiefs" were advertised in the Boston Gazette (in 1755). These were of the India cotton material lemnanee.

A. M. Earle, Costune of Colonial Times, p. 124.

lemming, n. The North American lemmings, 8 or 10 species of which are now recognized, have been divided into two geniera, Lemmus and Dicrostonyz, and the species once familiar as Myodes obensis is now Lemmus alascensis. The black-footed lemming, L. nigripes, is peculiar to St. George Island, Bering Sea. The common northeastern species is D. hudsonius.

lemming-mouse (lem'ing-meus), n. One of the small, short-tailed mice of the genus Synaptomys, the best known and most widely naptomys, the best known and most widely distributed being S. cooperi. Nine species are now recognized, five of which are included in the subgenus Mictomys.—Cooper's lemmingmouse, Synaptomys cooperi, a small mouse resembling the deer-mouse in general appearance, but having a shorter tail. It is common in the eastern United States, and is found from Massachusetts west to Minnesota and south to Georgia.

lemnaceous (lem-nā'shius), a. Belonging te the plant family Lemnacew.

emniscate, n. (e) The locus of the point in which the straight through the center and the lemniscate, n. projection of a point of a circle on a fixed tanprojection of a point of a circle on a fixed tangent are cut by the perpendicular from this point to the diameter from the contact point. This is the lemniscate of Gerono, a curve of the form of an 8, whose equation in simplest form is $y^4 = y^2 - x^2$.—Lemniscate of Bernouilli. See lemniscate, i. (a). lemniscoid (lem-nis'koid), n. [lemniscus + -oid.] A curve resembling the lemniscate, that is, shaped like a figure eight. Amer. Jour. Sci., July, 1903, p. 55.

Sci., July, 1903, p. 55.

+ -al¹.] Resembling a *lemniscoid (which see). Amer. Jour. Sci., July, 1903, p. 58.

lemniscus, n. 4. A kind of reference-mark such as the modern asterisk, obelisk, etc., consisting of a straight line drawn between two points or dots (÷), formerly used by textual critics in their annotations.

Lemoine circles, parallels, point, straight. See *circle, etc.

lemon, n.— Desert-lemon. Same as native *kwaquat.
—Syrup of lemon, a cane-sugar syrup of lemon-juice flavored with lemon peel. It is used as a vehicle in phanaay.—Wild lemon, in Australia, Plectronia latifolia, a small tree of the madder family, yielding a hard, close-mained streament winkish work. grained, streaked, pinkish wood.

lemencito (lā-mēn-sē'tē), n. Same as *limon-

lemonet, n. See *lemmance.

lemoniid (le-mo'ni-id), n. and a. I. n. A member of the lepidopterous family Lemoniidæ.

II. a. Having the character of or belonging

to the family Lemoniida.

lemon-kali, n. 2. A mixture of bicarbonate of potash with citric acid (originally obtained from lemon- or lime-juice), both in powder and flavored with a little oil of lemon. On addition of water it effervesces from escape of carbon-dioxid gas and produces a drink of mildly laxative effect. See lemon-kali, 1.

lemon-lily (lem'on-lil"i), n. See *lily. lemon-lobelia (lem'on-lobelia), n. Same as lemon-balm

lemon-monarda (lem'on-mo-nar"dä), plant, Monarda citriodora, of the dry plains of the western United States. It has somewhat the odor of lemons.

lemon-rob (lem'on-rob), n. Lemon-juice that has been thickened or concentrated by evapo-

has been thickened or concentration. [Eng.]
lemon-scab (lem'on-skab), n. See *scab.
lemon-scab (lem'on-skab), n. See *scab.
lemon-sole, n. 3. In New South Wales, Paraplagusia unicolor, of the family Pleuronectides or flatfishes: also, in New Zealand, the New Zealand turbot. E.E. Morris. Austral English.
lemonweed, n. 2. In the southwestern United States, Peetis filipes, P. papposa, and P. longipes, small yellow-flowered lemon-scented eomposites with linear leaves dotted with oilglands. These plants are used medicinally by glands. These plants are used medicinally by the white settlers, in the form

lemon-wood (lem'on-wid), n. 1. See lemon wood, under wood!.—2. In New Zealand, the hedge-laurel or tarata, Pittosporum eugenioides. Also ealled mapan and New Zealand oak. See *mapan and *tarata.

lemony (lem'on-i). a. [lemon + -y1.] Like lemon in taste or smell.

lemoparalysis, n. Same as *læmoparalysis. lemuravid (lem-ū-rav'id), n. One of the Lemuravidæ

lemuravoid (lem-ū-rav'oid), a. Related to er having the characters of Lemuravas.

lemurian² (lē-mū'ri-an), a. Resembling er characteristic of a lemur; lemurine: correlated

with cebian, pithecian, etc.

Frontal sinuses well marked, cheek and jaw bones very large, orbits large and distant, an unsymmetrical face, the masal overture of a pheleiform type, and lemurian attachment of the under jaw.

Smithsonian Rep., 1890, p. 621.

lemuriform ($\frac{1}{6}$ -mū'ri-fôrm), a. Resembling lens, n. 5. [eap.] [NL. (Stickman, 1754).] a lemur: having the characteristics of a lemur. A genus of dicotyledenous plants of the familienad (len'ad), n. [le(ucite) + n(ephelite) + illowed] illy Mimosacex. There are about 14 species, lenad (len'ad), n. [le(ucite) + n(ephclite) + -ad.] In petrog., in the quantitative system of igneous rocks (see *rock1), a standard feldspathoid mineral - leucite, nephelice, or a

Lenæa (lē-nē'ā), n. pl. See Lenaia. Lenard effect, ray, tube, window. **effect, etc.

lending-house (len'ding-hous), n. A charitable institution for lending money to the poor

at a very low rate or gratis.

lendofelic (len-dō-fel'ik), a. [len(ad) + do(minant) + fel(dspar) + -ic.] In petrog., in
the quantitative classification of igneous
rocks (see *rock1), noting a division in which

rocks (see *rock*), noting a division in which the normative feldspars are dominant over the normative lenads (leucite, nephelite, sodalite) within the limits (\(\frac{7}{2}\)\)\(\frac{5}{2}\)\(\frac{1 lenads are in equal, or nearly equal, proportions, that is, are within the limits $\langle \frac{1}{2} \rangle \frac{3}{6}$.

lengenbachite (leng'en-bäch-īt), n. genbach, a small stream in the Binnenthal, Switzerland.] A sulpharsenite of lead with antimony, silver, and copper in small amount; it occurs in thin-bladed crystals, probably triclinic, of steel-gray color and metallic luster: found in the dolomite of the Binnenthal, Switzerland.

length, n. 9. (a) In the brachiopod shell. the distance from the apex of the more projecting valve axially to the anterior margin.
(b) In the pelecypod shell, commonly the greatest distance across the shell fore and aft, but more correctly the distance from the beak obliquely along the ereseence-line, or line of most rapid growth .- 10. In cricket: (a) The distance between the bowler's wicket

and the spot where the ball pitches: said of a ball bowled. (b) The proper distance at which a ball bowled should pitch; a good ball bowled. (b) The proper distance at which a ball bowled should pitch; a goed pitch. [Colleq.]—At arm's length. See *arm1.—Basal length, in craniom., the distance from the basion to the gnathion.—Basilar length, in craniom., the length from the basion to the heast of the crowns of the premolar and molar teeth.—Fundamental length, in craniom., the combined lengths of the crowns of the premolar and molar teeth.—Fundamental length, in thermom., the distance between the fiducial points of a thermometer after correcting these to what they would have been under the standard atmospheric pressure.—Length ball. See *boll1.—Length bowling. See *bowling!—Length of an arc. See *arcl.—Measure of length. See *measure.—Merchantable length, in forestry, the total length of that portion of the stem of a tree which can be used under given conditions.—Mesial length, in anat. the distance between the frontal and occipital points. It radicka, in Amer. Anthropologist, 1901, p. 491.—Optical length of a ray, the product of the distance traversed and the index of refraction.—Palatal length, in craniom., the distance from the medial point on the liner side of the alveolar such to the posterior medial point of the palatal bones, excluding the posterior medial point of the palatal bones, excluding the posterior medial point of the palatal bones, excluding the posterior medial point of the same see increamfable *length.—Prince's length, in archery, the ranges of 100, 80, and 60 yards: so named from the Prince of Wales, afterward George IV.—Rupture length, a constant used to express the strength of paper. The breaking stress of a sample is measured by stretching, and the length of a strip of the same paper, equal in width to the sample and having a weight equal to the breaking load, is computed. This length, in kilometers, is the rupture length.

718

the character of or belonging to the group of lenads (leucite, nephelite, and the sodalites), equivalent to the feldspathoid minerals.

lenigallol (len-i-gal'ol), n. [L. lenis, smooth, + E. gallol.] The trade-name for pyrogallol

triacetate, $C_6H_3(C_2H_3^{1.2.3}O_2)_3$, prepared by the action of acetyl chlorid on pyrogallol. It forms a colorless crystalline powder and slowly liberates pyrogallol in contact with inflamed skin, hence it is used as a remedy for eczema and similar diseases. lenirobin (len-i-rō'bin), n. [L. lenis, smooth, + E. (chrysa)robin.] The trade-name for chrysarobin triacetate, $C_{30}H_{23}O_4(\text{OCOCH}_3)_3$. It is used instead of chrysarobin in the milder forms of various skin diseases. milder forms of various skin diseases.

lennilite (len'i-lit), n. [Lenni (see def.) + Gr. λίθος, stone.] A greenish orthoelase from Lenni, Pennsylvania.

leno-weaving (le'no-we'ving), n. Same as

*gauze-weaving.

which the best-known is L. phaseoloides, the match-bex bean or simitar-pod. See Entada, maten-bex bean or simitar-pod. See Entada, *gogo, sea-bean, 1, and simitar-pod.—6. In entom.: (a) The crystalline lens or cone. (b) One of the facets of the compound eye.—7. In geol., a body of ore having a lenticular shape. This type is specially common in metamorphic rocks, such as schists or slates, and is very frequent with magnetic and specular iron ores, pyrites, and some gold-quartz veins. Lenses of magnetite or pyrites often overlap like shingles.

They have revealed valuable ore bodies of two great

They have revealed valuable ore bodies of two great types, those which occur as lenses, roughly parallel to the bedding, and those which occur in fracture or fissure zones. U. S. Geol. Surv., Contrib. to Econ. Geol., 1902, p. 113.

A surface-condenser made of two round, dished plates bolted together, resembling in form a double-convex lens. [Lecal, U. S.]

There are no coils in the stellis, but the steam is conducted into what are termed "lenses," which resemble a lensed (lenzd), a. [lens + -ed².] Fitted with double-convex lens. Sci. Amer., Sept. 5, 1903, p. 165. a lens or lenses.

double-convex lens. Sci. Bifocal lens, a lens the upper part of which is ground for the correction of distant vision, the lower part for that of near vision in reading, writing, etc. The several parts are either cemented or fused together.—Billet's split lens, an instrument for producing interference-fringes, and showing the effect of a plate interposed in the path of one of the interfering pencils in displacing

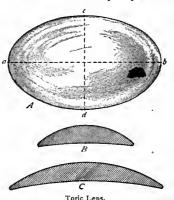
the path of one of the interfering pencils in displacing the fringes. It consists of a lens, l, l', out in halves, which can be separated or brought close together at will by means of a micrometer-screw. Light from a luminous source, o, produces two images,



lentamente

a and b, close together. The light diverging from these images produces fringes on a screen placed anywhere in their common path and it is easy to interpose plates of any transparent substance in the path of either or of both simultaneously.—Bull'a-eye lens, a very convex lens used in the bull's-eye lantern.—Convergent lens, one which so refracts rays of light that they converge toward a single point.—Convertible lens, in photog., a type of objective consisting of three separate systems, each of which can be used alone, each being corrected for spherical and chromatic sberration and for astigmatism.—Coquills lens, a lens of uniform thickness, convex on one side and equally concave on the other: used merely as a shield to the eye.—Dispersion lens, a diverging lens; any lens having greater thickness in the axis than at the edge.—Equivalent lens, a single lens which is equivalent to a given lens system in that the Image formed by it is of the same size as that formed by the entire system.—Field of a lens, in photog., the illuminated space on a screen produced by any lens working with full aperture. Woodbury.—Midangle lens, a lens having a focal length greater than that of a wide-angle lens, a photographic lens having snangle of view of from 40° to 50°: opposed to wide-angle lens.—Narrow-angle lens, a photographic lens having snangle of view of from 10 sn, a microscope objective of high power which when used is immersed, in focusing, in a drop of oil placed on the cover-glass of the slide.—Planar lens, in photog., a special anastigmatic objective. When of short focal length it is well adapted for Instantaneous photography, for enlarging and reducing pictures, and for projection apparatus; when of greater focal length it is evel adapted for Instantaneous photography, for enlarging and reducing pictures, and for projection apparatus; when of greater focal length it is evel adapted for Instantaneous photographic *dens. a multiplying lens.—R. Lens, in photog., an abbreviation for rapid rectifuear lens. Wood

lentamente



Toric Lens. A, front; B, section on c, d; C, section on a, b.

ground on one surface, the other surface being ground concave. A periscopic spherocylindric lens is thus produced which is much superior to the universal grindings.

lens-board (lenz'bord), n. In photog., the board which forms the front of the cameraand carries the lens.

The focusing arrangement should be by rack and plnion at the side of the tensboard, instead of by a release at the back of the camera, or under the lens and shutter.

Photo-Miniature, Sept., 1901, p. 243.

lens-hood (lenz'hud), n. Same as *lens-screen. lens-screen (lenz'skren), n. In photog., a contrivance fitted to the front of the lens to screen off side-light in making exposure. It. may be of cardboard.

lens-star (lenz'star), n. A star-shaped figure formed by radiating fibers of the crystalline lens of the eye.

-lent. [L. -lentus (sometimes -lens), usually with the vowel of a preceding stem -u-lentus, -o-lentus, aometimes -i-lentus, a compound composed of -l(o)- or -l(i)-, + -entus, -ento-, a suffix connected with the participial suffix -ens (-ent-): see -ent.] A suffix in some adjectives of Latin origin, as flatulent, pestilent, pulverulent, turbulent, vinolent, riolent, virulent, etc. It is not used in new English formations.

lentamente (len-tä-men'tā), adv. [It., < lento, (L. lentus, slow.] In music, slowly; with de-

liberation.

lentelliptical (lent-e-lip'ti-kal), a. [L. lens (lent-), lentil, + E. elliptical.] Lenticular and elliptical.

Lenten kail, or pie, broth or pie made without meat,

lenten-tide (len'ten-tid), n. The season of leopardite (lep'ard-it), n. [leopard + -ite2.]

lenticle (len'ti-kl), n. [L. lenticula, dim. of lens, a lentil: see lentil.] In geol.: (a) A stratum of sedimentary rock, which from its central point of maximum thickness tapers to a thin point of maximum thickness tapers to a thin edge in every direction; a common form of limestone in shales. (b) A mass of eruptive rock squeezed and sheared into a shape like the typical sedimentary lenticle.

spotted species of fizing, Crompagens according to the western limestone in shales. (b) A mass of eruptive United States from Nevada to Texas. leopard-mackerel (lep'ard-mak*e-rel), n. A scombroid fish, Cybium guttatum, of East Indian according to the common of the dry plains of the western limestone in shales.

Lenticles or eyes of uncrushed diorite may be traced, round which the more crushed parts have moved and have assumed the achistose condition.

Engage Ref. XXVIII 654

dian seas.

leopard-marmot (lep'ard-mar'mot), book-name for the 13-lined spermophil

lenticula, n. 4. The lenticular nucleus in the leopard-plant (lep'ärd-plant), n. See *Ery-

lenticular, a. 3. Of or pertaining to lenses leopard-rock (lep'ard-rok), n.

The lenses revolve at a given speed so proportioned to the dismeter of the iliuminant, and the lenticular apparatus, that the light is made to show continually.

Sci. Amer., Feb. 7, 1903, p. 98.

Lenticular bed, a stratum of sedimentary rock in the form of a broad, thm lens, as in the case (frequently) of limestones in shales: more commonly called lentil.bed. See *lenticle (a).—Lenticular loop, ore. See *loop1, *orel.—Lenticular rose spots. See *spot.

see *kenticle (a).—Lenticular loop, ore. See *kloop!, *\text{*cert.}—Lenticular rose spots. See *kspot. lenticularis (len-tik-\(\bar{u}\)-l\(\bar{u}\)-l\(\bar{v}\)-izer sold spots. See *kspot. lenticularis (len-tik-\(\bar{u}\)-l\(\bar{u}\)-l\(\bar{u}\)-izer adopted by the International Conference at Innsbruck, September, 1905, for clouds having an ovoid form tember, 1905, for clouds having an ovoid form with sharp edges: as, cumulus lenticularis, cumulo-stratus lenticularis. Such clouds occur especially in connection with sirocco, mistral can silver coin of the value of 5 paoli. and foehn winds, and frequently show rainbow colors.

lenticulate (len-tik'ū-lāt), a. [NL. *lenticulatus, < lenticula, lentil.] Same as lenticular. latus, < lenticula, lentil.] Same as lenticular.
lenticuliform (len-tik'ū-li-fôrm), a. [< L. lenticula, lentil, + forma, form.] Lentiform; Lentiform; lenticular.

lenticulo-optic (len-tik/u-lo-op'tik), a. Having reference to the lenticular nucleus.

lenticulothalamic (len-tik"ū-lo-thal'a-mik), a. Having reference to the lenticular nucleus and the optic thalamus.

lenticulus (len-tik'ū-lus), n. [NL., cicula, lentil.] Same as os orbiculare. [NL., < L. len-

lentil, n. 4. A body or mass having the general form of a double-convex lens; a lenticular body or mass; a lenticle.

DOGy or mass; a renerge.

In the southwestern belt there is a line of Devonian limestone lentils which may be traced with many interruptions for over 100 miles.

Amer. Jour. Sci., May, 1903, p. 344.

Lentil-bed. See *lenticular bed.

Lentilla (len-til'a), n. [NL. (Wight, 1906), a diminuity of lens (lent-), the lentil.] A genus of leguminous plants. It contains about 6 species, one of which is the lentil. See lens, 4, lepard, n. A simplified spelling of leopard.

lentil-powder (len'til-pou"der), n. powdered seeds of the common lentil.

Lentinus (len-ti'nus), n. [NL. (Fries, 1825), (L. lentus, tough, lasting.] A genus of agaricaceous fungi having a tough, leathery pileus and decurrent gills. The species occur on deand decurrent gills. The species occur on decaying wood. L. lepideus is a common species.

lentisco (len-tis'kō), n. An extract of the leaves of the mastic-tree, Pistacia Lentiscus: said to be used as a substitute or adulterant for snmac.

lentitis (len-tī'tis), n. [NL., < lens (lent-), lens, + -itis.] Same as phacitis.

leonina (lā-ō-nō'nā), n. [It., < Leone, Leo.]
A gold coin of 2 scudi, struck by Leo XII., 1823-29.

leonine, n. 2. pl. Leonine verse.

The Speculum is not . . . written either in classical metre or in leonines.

Saturday Rev., Sept. 21, 1861, p. 306. N. E. D.

leonite (lē'ō-nīt), n. [Leo(pold) (see def.) + -n- + -ite².] A hydrated sulphate of potassium and magnesium, K₂SO₄.MgSO₄ + 4H₂O, analogous to blödite in formula, and hence also called kaliblödite. It occurs in massive form rarely in monocinic crystals, in the salt regions of Leopoldshall and Westergelu, Germany.

Lepeta (lep'ē-tā), n. [NL. (Gray, 1847).] The typical genus of the family Lepetidæ.

Lepeta (lep'ē-tā), n. [NL. (Gray, 1847).] The typical genus of the family Lepetidæ.

Lepeta (lep'ē-tā), n. [NL. (Cray, 1847).] The typical genus of the family Lepetidæ.

Lepeta (lep'ē-tā), n. pl. [NL., ⟨ Lepeta + idæ.] A family of docoglossate gastropods in which the stanidis realisis promine Lower Silurian to the Carboniferous.

Lepeta (lep-e-rī'zā), n. [NL. (Herbert, 1821), terflies (lepidotic acid) on warming with distermine the wings and excrement of butterflies (lepidotic acid) on warming with distermine the lower pigment in the wings and excrement of butterflies (lepidotic acid) on warming with distermine the lower silurian to the Carboniferous.

Lepeta (lep-e-rī'zā), n. [NL. (Gray, 1847).] The typical genus of the family Lepetidæ.

Lepeta (lep'ē-tā), n. pl. [NL., ⟨ Lepeta + idæ.] A family of docoglossate gastropods in which the stanidis realisis prometical prometic acid.)

Lepidopsetta (lep'ē-dop-set'ā), n. [NL., ⟨ Gray, 1847).] The typical genus of the family Lepetidæ.

Lepeta (lep-e-rī'zā), n. [NL., ⟨ Lepeta + idæ.] A family of docoglossate gastropods in lepidopteric (lep'i-dop-ter'ik), a. [Lepidop-ter'ik), a. [Lepidop-ter'ik)

leontiasis (16-on-ti'a-sis), n. [ML, ζ Gr. λ_{ε} which the ctenidia, pallial branchiæ, and eyes options, ζ (λ_{ε} λ_{ε} λ_{ε} (λ_{ε} λ_{ε} which the ctenidia, pallial branchiæ, and eyes are absent. It contains the genus λ_{ε} λ_{ε} are absent. It contains the genus λ_{ε} λ_{ε} face, due to tubercular leprosy: from the fan-

cied leonine aspect produced by it.—Leontiasis ossea, nodular enlargement of the bones of the head and

leopard, n.—Clouded leopard. Same as clouded tiger , under tige

In petrog., a fine-grained teldspathic quartzite, or quartz-porphyry, spotted with oxi manganese, occurring in North Carolina. oxid of

leopard-lizard (lep'ärd-liz"ärd), n. A large, spotted species of lizard, Crotaphytus wisli-

n. book-name for the 13-lined spermophile, Spermophilus trideeemlineatus.

A metamorphosed augite-syenite, characterized by oval spots of granular feldspar encircled by darkgreen augite: associated with apatite veins of Ontario.

leopard-shark (lep'ard-shark), n. A shark, Seylliorhinus eanicula, a small species abundant in the Mediterranean and vicinity: so

A Belgian gold coin with an issue-value of 25

Leotia (lē-ō'shi-ä), n. [NL. (Hill, 1751)] ζGr. λείος, smooth (λείοτης, smoothness).] A genus of ascomycetous fungi having stalked gelatinous, more or less irregular-shaped ascocarps,

ous, more or less irregular-snaped ascocarps, and hyaline elongate spores. L. lubrica is a common species, of a greenish-yellow eolor. lepachys (lc-pak'is), n. [From Lepachys, an untenable genus name, ⟨Gr. λεπίς, a scale, + παχίς, thick; in allusion to the thickened apex of the recentagular bracts.] Any species of of the receptacular bracts.] Any species of Ratibida, a genus of plants of the family Asteraceæ, especially R. columnaris. See *Ratibida. Lepadocrinus (lep-a-dok'ri-nus), n. [NL., Gr. Lepadocrinus (tep-a-dok ri-nus), n. [NL., (Gr. λεπός, limpet, + κρίνον, a lily (see crinoid).] A very peculiar genus of cystids, of the family Callocystidæ, with oval or pyriform ealyx, consisting of 20 plates (arranged in five rows) and a column which consists of two parts, thereby differing from all other associated genera. The genus occurs in the Union Silvagin of North genus occurs in the Upper Silurian of North America.

lepargylic (lep-är-jil'ik), a. [Gr. $\lambda \varepsilon \pi(ic)$, scale, $+ \dot{a} \rho \gamma v(\rho o c)$, silver, $+ \cdot l - + \cdot ic$. The acid crystal*lepidophute. lizes (acid).

Lepargyrea (lep-är-jī-rē'ä), n. [NL. (Rafin-esque, 1818), ζGr. λεπίς, scale, + apγίρεος, silvery. The name alludes to the character of the leaf-surface in the type species, L. argentea.] A genus of dicotyledonous plants belonging to the family Elæagnaceæ. See Shepherdia.

leper¹ (lep'er), r. t. [leper¹, n.] To strike with leprosy; leperize; taint with leprosy.

Leperditia (lep-èr-dit'i-a), n. [NL., from a proper name, Leperdit.] A genus of fossil ostracode crustaceans, of the family Leperditide, characterized by oblong unequal valves with straight dorsal edge and rounded ventral outline overlapping ventral edge of the right role.

Lepidophytic (lep*i-dō-fit'ik), a. Belonging or relating to the lepidophytes.

Lepidopornhytin (lep*i-dō-nôr'fi-rin), n. [lep*i-dō-nôr'fi-rin], n. [lep*i-dō-nô line, overlapping ventral edge of the right valve, eye-tubercle, and subcentral interior muscular imprint. The genus extends from the Lower Silurian to the Carboniferous.

the asteroid Echinodermata, belonging to the order Cryptozonia. It has a rather large disk and 13 arms, and its lower side is covered by imbricating platea which run in two series alongside the ambulacral furrows.

Lepidechinus (lep*i-de-kī'nus), n. [NL., < Ger. $\lambda \varepsilon \pi \iota g$ ($\lambda \varepsilon \pi \iota d$ -), scale, $+ \dot{\varepsilon} \chi \dot{\iota} \nu \sigma g$, sea-urchin.] A genus of fossil echinoids or sea-urchins which belong to the family Archxocidaridx. It possesses narrow ambulacra, consisting of two series of imbricating plates and broad interambulacra. The genus is found in the Devonian and Carboniferons of North

Lepidesthes (lep-i-des'thēz), n. [NL., \(\rightarrow\) Gr. λεπίς (λεπιδ-), scale, + ἐσθής, dress.] A genus of echinoids or sea-urchins of the family Melonitidæ, characterized by having a large test and broad ambulacra consisting of eight to eighteen or or authorized consisting of eight to eighteen columns of small imbricating plates. The genus is found in the Subcarboniferous rocks of North America.

lepidine¹ (lep'i-din), n. [²L. lepidus, fine, neat, +-ine².] A colorless compound,

 $C_6H_4 < \overline{\sum_{\substack{N: \text{CH. CH: } \text{CCH}_3}}}$

obtained by the distillation of cinchonine with potassium hydroxid; py-4-methylquinoline. It has an odor of quinoline, melts below 0° C., and boils at 261-263° C. Also called quinolepidine.

lepidine² (lep'i-din), α. [Gr. λεπίς (-ιδ-), scale, Scaly. $-ine^{1}$.

Lepidion (le-pid'i-on), n. [NL., \langle Gr. $\lambda \epsilon \pi i \delta \iota ov$, dim. of $\lambda \epsilon \pi i \epsilon (\lambda \epsilon \pi \iota \delta)$, scale.] A genus of fishes related to the codfish, found in deep water in both the Atlantic and the Pacific Ocean.

Lepidocentrus (lep"i-dō-sen'trus), n. [NL., ζ Gr. λεπίς (λεπιό-), scale, + κέντρον, center.] A genus of Devonian echinoids or sca-urchins which belong to the family Archæoeidaridæ, characterizad by 5 to 11 cells a characterizad by 6 to 12 cells a characterizad by characterized by 5 to 11 columns of interambulacral plates and very narrow ambulacra which continue beyond the peristomial margin to the true mouth.

Lepidocoleus (lep'i-dō-kō'lē-us), n. [Gr. $\lambda \epsilon \pi i c$ ($\lambda \epsilon \pi i d$ -), scale, $+ \kappa o \lambda \epsilon c c$, sheath.] A very primitive Paleozoic genus of cirriped crustaceans belonging to the family Lepidocolcidæ. It is characterized by the elongate, blade-shaped form of the sheli, which is composed of two aeries of plates interlocking on the dorsal edge but only in apposition on the vertical edge.

Lepidodendraceæ (lep'i-dō-den-drā'sē-ē), n.
pl. [NL. (Engler, 1892), < Lepidodendron +
-aceæ.] A family of Paleozoic fossil plants of the order Lyeopodiales, typified by the genus Lepidodendron (which see). Several other genera have been described, as Knorria, Halonia, Ulodendron, etc., which, however, are now believed to represent so many parts or aspects of Lepidodendron; but Lepidophloios seems to be a distinct genus. The roots belong to Stigmaria, but do not constitute all that is included under that name. See all the above

| γν(ρος), silver, ¬ -ι- γ -ι coast of North America.

Lepidomeda (lep-i-dom'e-dā), n. [NL., \langle Gr. $\lambda \epsilon \pi i \varepsilon$ ($\lambda \epsilon \pi i \delta$), scale, + NL. Meda.] A genus of minnows found in Arizona.

lepidophyte (lep'i-dō-fīt), n. [Gr. λεπίς (λεπιό-), scale, + ovrov, plant.] Any fossil plant of the great group supposed to represent the ancestors

lepidoporphyrin (lep"i-dō-pôr'fi-rin), n. [lep-ido(tic) + Gr. πορφίρα, purple, + -in2.] Α purple product which results from the yellow

Lepetiaæ (1e-pet 1-ae), n. pl. [NL., (Lepeta + -idæ.] A family of docoglossate gastropods in which the ctenidia, pallial branchiæ, and eyes are absent. It contains the genus Lepeta.

Lepidaster (lep-i-das'tèr), n. [NL., (Gr. λεπίς, scale, + ἀστήρ, star.] A Silurian genus of longed boiling in hydrochloric acid.

lepidopterological (lep-i-dop*te-rō-loj'i-kal), lepocytode (lep-ō-sī'tōd), n.
a. Of or pertaining to lepidopterology. + κυτος, a hollow (a cell), lepidopterologist (lep-i-dop-te-rol'ō-jist), n. Same as lepocyte. De Bary. a. Of or pertaining to lepidopterology, lepidopterologist (lep-i-dop-tg-rol'o-jist),

same as lepidopterist.

| levidopterology (lep-i-dop-te-rol' \(\bar{\rho}\)-ji), n. | NL. Lepidoptera + Gr. -λογια, ζέγειν, speak.]
| That branch of entomology which treats of the Lepidoptera, or butterflies and moths.

lepidosis, n. scaly outgrowth: specifi-cally, the 'horn' ou the nose of the sand-viper. Lepidospermæ



pera ammodytes. Side view of head of sand-viper (Pipera ammodytes), showing the nasal horn, or lepidosis.

(lep#i-dō-sper meb, n. pl. [NL. (Ward, 1904), \langle Gr. $\lambda \epsilon \pi i \rho$ ($\lambda \epsilon \pi i \delta$), seale, $+ \sigma \pi i \rho \mu a$, seed.] A class of fossil plants of the phylum Pteridospermatric form of the phylum <math>Pteridospermatric form of the phylum Pteridospermatric form of the phylum <math>Pteridospermatric form of the phylum Pteridospermatric form of the phylum <math>Pteridospermatric form of the phylum Pteridospermatric form of the phylum <math>Pteridospermatric form of the phylum Pteridospermatric form of the phylum <math>Pteridospermatric form of the phylum Pteridospermatric form of the phylum <math>Pteridospermatric form of the phylum Pteridospermatric form of the phylum <math>Pteridospermatric form of the phylum Pteridospermatric fophyta (Cycadofilices). They have the external aspect of lepidophytes, but bear seeds instead of macrospores. The genus Lyginodendron, which is now known to have borne the seeds called Lagenostoma, seems to belong to this class

Lepidosternidæ (lep*i-dō-ster'ni-dō), n. pl. [NL., \(\lambda\) Lepidosternon + -idæ.] A division of the Amphisbænidæ, or footless lizards, formed by Gray for the reception of the genus Lepidosternon and its relatives.

lepidosternoid (lep"i-dō-ster'noid), a. [Lepidosternon + -oid.] Relating to or having the characters of Lepidosternon, a genus of Amphisbænidæ.

lepidotic (lep-i-dot'ik), a. [lepido(p)t(cr)ic.]
Noting an acid, similar to uric acid, said to be present in the pigments of many species of Lepidoptera.

lepidotrichium (lep"i-dō-trik'i-um), n.; pl. lepidotrichia (-ii). [NL., \langle Gr. $\lambda \varepsilon \pi i \varepsilon$ ($\lambda \varepsilon \pi \iota \varepsilon$ -), scale, $+ \theta \rho i \xi$ ($\tau \rho \iota \chi$ -), hair.] One of the rays that form the fins of the bony fishes.

In Teleostomi (bony fishes and ganeids), on the other hand, we find small unjointed, horny rays (actinotrichia) on the edges of the fins, which are probably remnants of the ceratotrichia, and, in addition, branched, bony lepidorichia, developed externally to the actinotrichia, and in primitive forms closely resembling the body-scales.

Nature, May 5, 1904, p. 13.

Lepidotus (lep-i-dō'tus), n. [NL., ⟨Gr. λεπι-όωτός, sealed, sealy, ⟨ λεπίς (λεπιδ-), seale.] A genus of fossil ganoid fishes of the family Semionotidæ, characterized by thick, deeply imbricating scales with more or less produced overlapping edges, and numerous hemispherical successional teeth which make a revolution of 180° in passing from the incipi-ent to the mature condition. The genus ranges from the Keuper to the Lower Cretaceous, and is widespread in Europe, India, Siberia, and Brazil.

Lepiota (lep-i-ō'tä), n. [NL. (Fries, 1821), ir-

reg. $\langle \text{Gr.} \lambda \varepsilon \pi i \varsigma,$ a scale, $+ o i \varsigma$ (ωτ-), ear. The name refers to the scales on the pileus. 1 A large genus of agaricaceous fungi having a fleshy pileus, white spores, and an annulate stipe. Over 250 species, distributed throughout the world, have been described. L. procera, the parasol mushroom, is ful edible species which has a movable annulus.



Parasol Mushroom (Lepiota procera).
One fourth natural size.

lepismatid (le-pis'ma-tid), n, and a. I. n. insect of the thysanirous family Lepismatidæ. II. a. Having the characters of or belong-

ing to the family Lepismatidæ. Also lepismid. lepismid (le-pis'mid), a, and n. Same as *lepismatid.

Lepisosteidæ (lep"i-sos-tē'i-dē), n. pl. Lepisosteus + -idæ.] A family of Lepisosteidæ (lep"i-sos-tē'i-dē), n. pl. [NL., < Lepisosteus + -idæ.] A family of fresh-water ganoid fishes commonly known as the garpikes, which are found in North America and China.

Lepisostens (lep-i-sos'tē-us), n. [NL., irreg. ⟨ Gr. λεπίς, scale, + όστίον, bone.] A genus of ganoid fishes which inhabit fresh waters of North America and China, and are commonly known as garpikes.

[Gr. λέπος, scale, , + είδος, form.]

lepolite (lep'o-līt), n. [Gr. λέπος, scale, + λίθος, stone.] A gray to pink variety of anorthite from Finland which occurs in complex crystals. Lindsayite (lindesite, or linseite) is a somewhat altered variety.

Lepominæ (lep-ō-mī'nē), n. pl. [NL., < Lepo

mis + -inæ.] A subfamily of sunfishes.

Lepophidium (lep-ō-fid'i-um), n. [NL., < Gr., ετος, scale, + όφίδων, dim. of δφε, serpent.]

A genus of fishes of the family Ophidlidæ; the cusk-eels: found in deep water on both coasts of America.

of America.

Leporidæ, n. pl. Somewhat over 150 species and subspecies of this family have been described, just about one half the number being from North America, where the geographic and climatic conditions are favorable for the production of local races. They have been divided, by Dr. Lyon, into 10 genera: Lepus, Oryctologus, Sylvilagus, Limnolagus, Brachylagus, Pronolagus, Ronerolagus, Nesolagus, Caprolagus, and Pentalagus. The most remarkable of these are Romerolagus, which has long clavicles and resembles the pikas somewhat, and the heavily built Pentalagus from the Locohoo Islands.

leporine, a. II. n. Same as leporide.

lepospondylous (lep-ō-spon'di-lus), a. [Gr. λέπος, a husk, sealo, + σπόνδυλος, vertebra.]

Having vertebræ consisting of a thin shell of bone surrounding the notochord, a type found

bone surrounding the notochord, a type found in some extinct batrachians.

Relating to or having the leprarin (lep'ra-rin), n. [Lepraria + in^2 .] A losternon, a genus of Am-colorless bitter compound, $C_{21}H_{20}O_{10}$, contained in the lichen Lepraria latebratum. It crystallizes in small lustrous plates or prisms which melt at 155° C.

leprolin (lep' τ ō-lin), n. [lepra + -ol- + -in².] A toxin which is obtained from cultures of the leprosy bacillus.

eprologist (lep-rol'ō-jist), n. [leprolog-y + ist.] One who devotes special attention to leprologist (lep-rol'o-jist), n. the study of the nature and origin of leprosy and to its treatment.

leprology (lep-rol'o-ji), n. [Gr. λέπρα, leprosy, + -λογια, < λέγειν, speak.] The pathological study of leprosy.

leprosy, n.—Anesthetic leprosy. Same as lepra nervorum (which see, under lepra, 1).—Leprosy bacillus. See *bacillus.—Lombardian leprosy. Same as pellugra.—Tubercular leprosy. Same as lepra tuberculosa (which see, under lepra, 1).
Leptæna (lep-tēna), n. [NL., < Gr. λεπτός,

Leptæna (lep-te'nä), n. [NL., < Gr. λεπτός, thin, + -aiva, a fem. suffix.] A genus of extinct brachiopods of the family Strophomenidæ,



Leptana rhomboidalis Wilchens, Silurian, (From Nicholson and Lydekker's " Palaeontology.")

characterized by convexo-concave shells, the flatter portions of which are covered with corrugations and wrinkles. It ranges from the Silurian to the Carboniferous, and is very common in certain formations.

leptænoid (lep-tē'noid), a. [Leptæna + -oid.] Resembling or related to the brachiopod Leptæna.

Leptagonus (lep-tag'ō-nus), n. [NL., ζ Gr. λεπτός, thin, small, + NL. Agonus.] A genus of agonoid fishes of the North Pacific Ocean.

Leptamnium (lep-tam'ni-um), n. [NL. (Rafinesque, 1818). ζ Gr. λεπτός, small, + άμνίον, a bowl for sacrificial blood. The calyx resembles a cup.] A genus of dicotyledonous plants belonging to the family Orobanchaceæ. See Eniphegus.

Leptictidæ (lep-tik'ti-dē), n. pl. [NL., < Leptietis + -idæ.] A family of small, extinct insectivorous mammals, having trituberculate molars: found from the Eocene to the Oligocene of North America. Gill, 1872.

Leptictis (lep-tik'tis), n. [NL., ζ Gr. λεπτός, small, + ἰκτις, weasel.] A genus of small Insectivores from the Oligocene (White River) of North America.

Leptilon (lep'ti-lon), n. [NL. (Rafinesque, 1818), ζ Gr. λεπτός, small, delicate.] A genus

of plants of the family Asteraccæ. It is closely related to Erigeron, but has very small panicled heads, with ray-flowers not longer than the diameter of the disk. There are about 20 species, natives of America and Asia. The name was originally applied to Leptilon divaricatum, the dwarf fleahane of the eastern United States. L. Canadense, the horseweed or Canada fleabane, is the best-known species. See horseweed.

Leptocampyli (lep-tō-kam'pi-lī), n. pl. [NL., ⟨ Gr. λεπτός, thin, + καμπίλος, curved.] A suborder of Jurassic or Cretaceous ammonoid cephalopods, characterized by peculiar crenulated ornamentation, discoidal shells, and extremely complex sutures with much reduced saddles and excessively developed lobes.

leptocephalia (lep"tō-se-fā'li-ā), n. [NL.] Same as leptocephaly.

leptocephalid (lep-tō-sef'a-lid), n. and a. I.

n. A member of the family Leptocephalidæ.

II. a. Of or pertaining to the Leptocephalidæ.
leptocephalous (lep-tō-sef'a-lus), a. Same as

leptocephalic.

leptocerid (lep-tos'e-rid), n. and a. I. n. An insect of the trichopterous family Leptoceridæ. II. a. Pertaining to or having the characters of the family Leptoceridæ.

leptochlorite (lep-tō-klō'rīt), n. [Gr. λεπτός, thin, + χλωρός, green, + -ite.] A name proposed by Tschermak for those members of the chlorite group which commonly occur in fine scales or indistinctly fibrous forms. See also \star orthochlorite.

leptoclase (lep'tō-klās), n. [Gr. λεητός, thin, + κλάσις, fracture.] A name proposed by A. Daubrée for the smallest fractures or cracks in rocks. Geikic, Text-book of Geol. (4th ed.), p. 658.

Leptoclinus (lep-tok'li-nus), n. [NL., ζ Gr. λεπτός, thin, + NL. Clinus.] A genus of blennioid fishes found in arctic seas.

Leptocœlia (lep-tō-sē'li-ā), n. [NL.. ⟨ Gr. λεπτός, thin, + κοίλος, höllow.] A genus of extinct Brachiopoda with plicated shallow valves and an internal spiralium. The genus is widespread throughout the world in the faunas of the early Devonian.

study of leprosy.

leproma (le-prō'mä), n.; pl. lepromata (-matā). [NL., < lepra + -oma.] One of the tuber-eles which occur in leprosy.

Leptoconger (lep-tō-kong'ger), n. [NL., < Gr. λεπτός, thin, + L. conger.] A genus of eels of the family Murænesocidæ, found in West

Leptocottus (lep-tō-kot'us), n. [NL., ζ Gr. λεπτός, thin, + NL. Cottus.] A genus of cottoid fishes found on the Pacific coast of North America.

Leptodera intestinalis or stercoralis, synonyms for the more common term Strongyloides intestinalis, an intestinal parasite occasionally found in man.

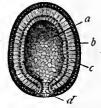
leptodermia (lep-tō-der'mi-ä), n. [NL., \langle Gr. $\lambda \epsilon \pi \tau \delta \varsigma$, thin, fine, + $\delta \epsilon \rho \mu \sigma$, skin.] Fineness or delicacy of the skin.

leptodermic (lep-tō-der'mik), a. Having a thin skin; relating to leptodermia.

leptodermous (lep-tō-dèr'mus), a. Leptodermic: specifically, in bot., thin-coated: applied especially to the capsules of mosses.

leptogastrula (lep-tō-gas'rro-la), n.; pl. leptogas-trulæ (-lē). [NL., < Gr. λεπτός, thin, small, + NL. gastrula.] In embryol., a gastrula, like that of Amphioxus, which has no foodyolk in the gastrocele and in which the entoderm consists of a simple layer of cells.

leptoid (lep'toid), n. $\lambda \epsilon \pi \tau \delta \varsigma$, thin, + -oid.] cell of an alga which is differentiated in some way from the surrounding cells. o'tom), n. [See A specialized leptom (lep'tom), n. leptome. conducting tissue in marine algæ, whose function it is to transmit organie nitrogenous substances.



Leptogastrula.

Leptogastrula.

The fully formed gastrula of Amphicaus blsected horizontally: the
ventral half is represented
as seen from above. Magnified, (After Hatschet),
a, gastrocele; b, ectoderm; c, entoderm; d,
blastopore. (From Marshall's "Vertebrate Embryology.")

The tissue developed to meet the demands for conduction in such cases always shows some of the characters described. It is known as leptom, each constituent cell being a leptoid. Encyc. Brit., XXV. 409.

leptomatic (lep-tō-mat'ik), a. [NL. *leptoma (i-) + -ic. See leptome.] Of, pertaining to, or of the value of leptome.

The primary leptome is no longer visible, but three secondary leptomatic strands have become developed outside each of the primary and secondary rays of hadrome.

Amer. Jour. Sci., Sept., 1907, 2, 246.

leptomeningeal (lep" $t\bar{q}$ -më-nin'jë-al), a. [Gr. λέπτος. thin, + μῦνιγέ, membrane, + -αll.] Relating to the pia mater and the arachnoid membrane.

leptomeninx (lep-to-me'ningks), n. The singular of leptomeninges.

leptomere (lep'tō-mēr), n. [Gr. λεπτός, thin, small, + μερος, part.] One of the iunumer-

able minute particles of which Asclepiades supposed the body to be composed.

Leptomeria, n. 2. [l. c.] A delieacy of bodily structure.

Leptomitaceæ (lep'tō-mī-tā'sē-ē), n. pl. [NL. \(Leptomitus + -aeeæ. \)] A family of fungi of the order Saproleguiales: named from the genus Leptomitus.

and on submerged branches, etc.

Leptonacea (lep-tō-nā'sē-ä), n. pl. [NL., $\langle Gr.$ $\lambda \epsilon \pi \tau \delta \nu$, the small intestine, neut. of $\lambda \epsilon \pi \tau \delta \varepsilon$, thin, small.] A superfamily of teleodesmaceous pelecypods which is characterized by having the incurrent and excurrent openings between the mantle-lobes at opposite ends of the body. It comprises Tertiary and recent species, and numerous commensal and parasitic forms.

leptonacean (lep-tô-nā'shian), a, and n. I. a. Of or pertaining to the Leptonacea.

II. n. A mollusk of the superfamily Leptonacea.

λεπτός, thin, small. + ὁφίδιον, dim. of ὁφις, serpent.] A genus of fishes of the family Ophidiidæ, found in deep water on both coasts of North America.

leptophonia (lep-tō-fō'ni-ä), n. [NL., \langle Gr. $\lambda \varepsilon \pi \tau \delta \varsigma$, thin, $+ \phi \omega v \dot{\eta}$, sound, voice.] Weakness or thinness of voice.

leptophonic (lep-to-fon'ik), a. [leptophonia + -ie.] Having a voice of small volume or earrying power; pertaining to leptophonia.

leptophyllous (lep-tô-fìl'us), a. [Gr. $\lambda \epsilon \pi \tau \delta \varsigma$, slender, $+\phi i\lambda \lambda o v$, leaf, + -o n s.] In b o t., having slender leaves.

leptoprosope, n. 2. A leptoprosopie skull or individual.

leptoprosopous (lep-tō-pros'ō-pus), a. [Gr. λεπτός, thin, small, + πρόσωπον, face, + -ons.] In ant'.cop., having a skull with a facial index of 90 and over. [German authropologists.] See leptoprosopic.

leptoprosopy (lep-tō-pros'ō-pi), n. [leptoprosop-ons + -y³.] The quality or condition of heing leptoprosopons. W. R. Macdonell, in Biometrika, March-July, 1904, p. 214.

leptopterons (lep-top'te-rus), a. Having small, fine, delieate wings. Energe. Dict.

Leptopuccinia (lep"tō-puk-sin'i-ä), n. [NL., ζ Gr. λεπτός, thin, + NL. Puccinia.] A division of the genus Puccinia, proposed by Schroeter to include those species which form only teleutospores.

leptorrhinian, a. II. n. A person or race having narrow nasal bones. Deniker, Raees of Man, p. 63.

of Man, p. 63.

Leptosphæria (lep-tō-sfē'ri-ā), n. [NL. (Cesati and De Notaris, 1863), ⟨Gr. λεπτος, thin. small, + σφαίρα, sphere.] A large genus of pyrenomycotous fungi of the family Pleosporaeeæ. The perithecia are small at first and embedded in the host, but finally become more or less superficial. The spores are elongate, three or more septate, and colored. Nearly 500 species have been described. L. Dudiolum and many other species are found on dead herhaceous stems. L. Tritici and a few other species are regarded as the cause of certain plant-diseases.

Leptospondyli (lep-tō-spon'dl-lī), n. pl. [NL., ⟨ Gr. λεπτός, thin, + σπόνονλος, vertebra.] A subgenus of the stegocephalous Amphibia havsing a persistent notochord inclosed in constricted bony cylinders and simple conical hollow teeth. The group includes chiefly small lizards from the Carboniferous and Persistence. mian formations.

leptospondylous (lep-to-spon'di-lus), a. [Lep-

to spondyl-us + -ous.] Having the notochordal for an alkaline lye with soap, employed in characters of the genus Leptospondylus.

leptostaphyline (lep-tō-staf'i-lin), a. [Gr. λεπτός, thin. small, + σταφιλή, the uvula.] In anthrop., having a skull with a narrow palate the width of which is 80 per cent. or less of its

leptostaphylinic (lep#tō-staf-i-lin'ik), a. Same as *leptostaphylinc. Jour. Anthrop. Inst., 1901, p. 258.

leptostaphyly (lep-tō-staf'i-li), n. [leptosta-phyl-ine + -y3.] The quality or condition of being leptostaphyline. W. R. Macdonell, in Biometrika, March-July, 1904, p. 237.

as λεοσια.

Leptostroma (lep-tō-strō'mi), n. [NL. (Fries, 1815), ζ Gr. λεπτός, thin, + στρῶμα, layer (see stroma).] A genus of fungi, typical of the family Leptostromataeæe, having dimidiate pyenidia which suggest a thin stroma, whence the name. the name. The pycnidia open by a more or less elongate slit. The spores are hyaline and one-celled. The species occur chiefly on dead leaves and stems. L. punctiforme is regarded as a parasite on leaves of the willow,

Leptostromataceæ (lep#tō-strō-ma-tā'sē-ē), n. pl. [NL., < Leptostroma (Leptostromat-) + -aeeæ.] A family of Fungi Imperfecti of the crder Sphæropsudales, characterized by the

naeca.

leptopellic (lep-tō-pel'ik), a. [Gr. λεπτός, thin, + πέκλα, bowl (pelvis), + -ic.] Relating to or characterized by narrowness of the pelvis; dolichopelvie. Brinton. Races and Peoples, -40

dimidiate or shield-snaped pycnicia.

Leptostrophia (lep-tō-strō'fi-ä), n. [NL., < Gr. λεπτος, thin, + στροφη, a turning, < στρεφείν, turn, twist.] A genus of Devonian Brachiopoda of the family Strophomenidæ, remarkable poda of the family Strophomenidæ, remarkable solutions. for its large plauo-convex or flat shells. It has two pustulose diverging ridges in the pedicel-valve which bound the sides of the muscular area, and broad and flabellate eardinal scars.

Leptothyrium (lep-tō-thi'ri-um), n. [NL. (Kunze, 1823), < Gr. λεπτός, thin, + θυρεός, an oblong shield.] A genus of Fungi Imperfecti of the family Leptostromataceae, closely related to Leptostroma, from which it differs chiefly in the irregular manner in which the pyenidia rupture. About 100 species have been described, mostly found on leaves. L. acerinum occurs on maple leaves in Europe.

leptynite (lep'ti-nīt), n. [F. leptynite (Haüy, 1822). irreg. \langle Gr. $\lambda \varepsilon \pi \tau i \nu \varepsilon \nu$, grow thin, + -ite².] In petrog., same as granulite.

leren, n. See *lleren.

lern, lernd, lerning. Simplified spellings of learn, learned, learning.

lerpamylum (ler-pam'i-lum), n. [lerp + Gr. άμυλος, fine flour.] A compound resembling manna, said to be present in lerp, the sweet exudation of the leaves of the Australian mallee, Eucalyptus dumosa.

number of Australian homopterous insects of the family Psyllidæ whose larval cases are composed of a secretion known as 'lerp' or coefficient.

The seal are part of the natives. The coefficient.

O Mortality. lerp-insect (lerp'in sekt), n. Any one of a genera Spondyliaspis and Cardiaspis are espe- lethality, n. 2. Mortality.

restainment (i.e-sna-form). n. [Heb. (Yiddish, of the Fibrian control of State of St

lesion, n.—**Trophle lesion**, a morbid change due to alteration in the blood supply of the part, which causes a disturbance of nutrition.

Lesquerella (les-ke-rel'ii), n. [NL. (Watson, 1888), named in honor of Leo Lesquereux, an American botanist of Swiss birth.] A genus of plants of the family Brussieaceæ. See Vesicaria and bladder-pod, 2.

lessive (le-sēv'). n. [F. lessive, < L. lixiva, lye.] An adopted French name for lyo: used mainly

washing

enaracters of the genus Leptospondytus.

leptosporangium (lep "tō-spō-ran'ji-um), n.; pl. leptosporangia (-ii). [NL, ζ Gr. λεπτός, slender, + NL. sporangium.] A sporangium of the leptosporangiate ferns, that is, one derived from a single epidermal cell.

leptostankuling (len tō stoff) lin) at ton series with the madeira Islands in the winter series of the general series (las 'tā), n. [Pg. leste, east wind: l', the, este, east: see cast.] The dry, hot, and dusty east wind of the Madeira Islands in the winter

In lestiwarite (les-ti-wä'rīt), n. [Lestiware. Finland, + -ite2.] In petrog., a phanerocrystalline granular syenite composed of microperthite, with very subordinate amounts of pyroxene or amphibole. These rocks have also been called symite-haplites, and are associated with nephelite-syenite in Norway and Finland. Rosenbusch, 1896.

Lestrigon (les-trī'gon), n.; pl. Lestrigones (lestrig'ō-nēz). [An early modern E. spelling of *Lestrygon, < L. Læstrÿgon, Lestrÿgon, < Gr. Λαιστρυγών, pl. Λαιστρυγόνες, a legendary people.] In Gr. legend, one of a race of caunibal giants mentioned in Homer's Odyssey; hence, any inhuman monster.

Lestrigonian! (les-tri-gō'ni-an), a, and n. [L. Lastrygonius, \langle Gr. $\Lambda a a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \delta \nu \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \nu \gamma \sigma (c, \langle \Lambda a \sigma \tau \rho \sigma (c, \langle \Lambda a \sigma \sigma (c, \langle \Lambda a \sigma \sigma \rho \sigma (c, \langle \Lambda a \sigma \sigma \rho \sigma (c, \langle \Lambda a \sigma \sigma (c, \langle \Lambda a \sigma \sigma \rho \sigma (c, \langle \Lambda a \sigma \sigma (c, \langle \Lambda a \sigma$ Lestrigones.

II, n. Same as *Lestrigon.

Lesueuria (les-ū-ū'ri-ā), n. [NL., \(\alpha Lesueur\), a French naturalist.] The typical genus of the family Lesueuridæ. Milne-Edwards.

Lesueuridæ (les-ū-ū'ri-dē), n. pl. [Nl., < Les-ueuria + -idæ.] A family of lobate etenophorans having the lobes and the lobe-windings of the vessels rudimentary, and the aurieles long and ribbon-shaped. It contains the genus Lesueuria,

Lesueuria,

let¹, r. t.—To let draw (naut.), to slack away the sheets of the head-sails when tacking ship, so as to let the clues travel across the deck rendy to be sheeted down again to leeward when on the new tack.—To let go and haul (naut.), when tacking a square-rigged vessel, to let go the fore-bowline and lee-head braces, and to haul around the head-yards.—To let go by the run (naut.). Some as to let run (which see, under run¹).—To let go under foot (naut.), to let go (the anchor) so that it drops and remains directly beneath the hawse-pipe.—To let in. (e) To fit, as one timber or plank into another.—To let into. (b) To pitch into; 'go for.' [Slang.]—To let off. (c) To lease in portions; let. [Eng.] (d) In cricket, to miss a chance of catching (a batsman) out.—To let (one) down gently, to let one know something derogatory to himself (letting him down to a lower plane of self-esteem) without damaging his self-respect; spare.—To let one's self go, to abandom self-restraint; allow imagination, animal spirits, or emotion full course. [Colloq.]

He fretted under the severe drudgery of copying plaster casts, and yearned "to let himself 40" in a color way, . . . and so, . . . he set himself to painting that which his fancy dietated.

J. C. Van Dyke, Modern French Masters, p. 133. let2, n. 2. In lawn-tennis, hand-tennis, and other games played with a net, a service-ball which strikes the top of the net and then goes into the proper court; also, any unforeseen or accidental hindrance of a like nature which the umpire may on appeal so designate.

Let., Lett. Abbreviations of Lettish.

let. Hebt. Abdrum, n. A blow to one's self-esteem; a 'come-down'; a circumstance

genera Sponagaucepro eially noted.

lerret (ler'it), n. [Also lerrett, lerrit; etym. unknown.] A boat of great strength, built for the heavy seas: used about the Isle of Portland.

The trip in the stern of the lerret had quite refreshed T Hardn, Trumpet-Major, xxxiv.

The trip in the stern of the lerret had quite refreshed turn. The anal fin is wanting.] A genus of ophielthyoid eels found in rather deep water on the Florida eoast.

letheomania (lē"thē-ō-mā'ni-ā), n. [Gr. $\lambda / \theta \eta$, forgetfulness, $+ \mu avia$, madness.] Addiction to a narcotic drug.

Simplified spellings of

lethiferal (le-thif'e-ral), a. [L. lethum, prop. letum, death, + ferre, bear, + -all.] Death-bringing; deadly; fatal.

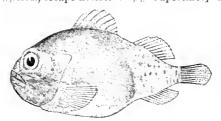
A singular loadstone for theologians, also, is the Beast of the Apocalypse, whereof, in the course of my studies, I have noted two hundred and three several interpretations,

each lethiferal to all the rest.

J. R. Lowell, Biglow Papers, 1st ser., vil.

A genus lethomania, n. See \star lethomania. See Vesi-Lethostole (le-thos ' tō-l̄-l̄-l̄-, n. [NL., < Gr. $\lambda \dot{\eta} \beta c \sigma \theta a$, escape notice, + $\sigma c \delta \dot{\eta}$, stole.] A genus of atheriuoid fishes found in fresh waters of

ληθεσθαι, escape notice. + τρημα. aperture.] A



Lethotremus muticus. (From Bulletin 47, U. S. Nat. Museum.)

genus of fishes of the family Cyclopteridæ, found on the north Pacific coast of North

letificant (lē-tif'i-kaut), a. [L. lætificans (-ant-), ppr. of lætificare, make glad: see letificate.] Tending to stimulate or make cheerful: said of a medicine.

let-off, n. 3. A festive occasion; a let-off of youthful spirits.—4. Part of a property which youthin spirits.—4. Far of a property which is leased or let off. [Eng.]—5. A failure to utilize some manifest advantage in a game; for example, in *ericket*, the failure on the part of a fielder to get the batsman out when he has the opportunity. N. E. D.

Lett, n. 2. The Lettish language; Lettic. See Lettish.

letten (let'en), p. a. Let; rented; leased. [Rare.]

Lettenkohle (let'en- $k\bar{o}^s$ le), n. [G., \langle letten, loam, + kohle, coal.] In geol., a division of the Kenper in the Triassic system in Germany. The name, though usually applied to the formation otherwise termed the Kohlenkeuper, has special reference to the thin seams of earthy coal which this formation contains

the thin seams of earthy coal which this formation contains.

letter3, n.—Before the letter or before letters. See proof before letter, under proof.—Chromatic letter. Same as chromatic type.—Letter of absolution, in cocles, law, a writing whereby formerly an abhot dismissed a monk to another religious order.—Letter of indication. See *indication.—Letter of recall, an official notice from one government to another, that an ambassador or other-diplomatic representative sent by the former to the latter has been recalled.—Letter of recredentials, an official communication in reply to a *letter of recall (which see). It is delivered to the recalled representative by the government to which he is accredited and addressed to the executive of the representative's country.—Letters of safe-conduct, in law, passports issued under the great seal of England to citizens of a company at war with her, whereby the bearers and their merchandise were free from molestation. English ambassadors can now issue passports having equal value.—Letters of supplement. See supplement.—Eetters requisitory. Same as letters rogatory (which see). [Rare.]—To affect the letter; to devote oneself to alliteration.

1 will something affect the letter, for it argues facility.

Shak, L. L. L., iv. 2.

Chatter is perfolicata. One with spinulose-denticulate leaves and showy yellow heads, the rays with spinulose-denticulate.

With spinulose-denticulate. With spinulose-denticulate and showy yellow heads, the rays one therefolicate one that show yellow heads, the rays of eriexed.

Lettuce-shark (let'is-shark), n. See shark-moth.

lettuce-water (let'is-wa*ter), n. A decoction of crushed lettuce-leaves.

leucaxhiopia, n. See *Leucethiopia.

leucaxhiopia, n. See *Leucethiopia.

leucaxhiopia, n. See *Leucethiopia.

leucaxhiopia, n. See *Leucethiopia.

leucaxiid (lū-kā'ni-id), n. aud a. I. n. A member of the lepidopterous family Leucanidae.

Leucascidæ (lū-kas'i-de), n. pl. [NL., < Leucasci

letter-ballot (let'er-bal"ot), n. See *ballot1.
letter-board, n. 3. The board or part of a
vessel which earries its name and hailingport.

letter-bound (let'er-bound), a. Bound by the letter and not the spirit of a law, a text,

letter-card (let'èr-kärd), n. A card (not a cal genus of the family Leucascidæ. postal card) which can be closed, stamped, leucaurin (lū-kà'rin), n. A colorless com-

letter-head, n. 3. A postage-stamp. [Dialect, Eng.

letter-high (let'er-hi), a. In printing, descriptive of an engraving in relief, properly

tive of an engraving in renct, properly mounted, as high as the type about it.

called triphenylolmethane.

lettering, n. 3. Specifically, in bookbinding, leucein (lū'sē-in), n. [Gr. λευκός, white, + -e-the act or process of affixing the alphabetical in.] One of a group of substances related to the notehed front margin of an the leucins, but differing from them in having the leucins are the leucins. indexed book; also, the addition of the name of the book on its back.

lettering-block (let'er-ing-blok), n. The stamp, usually of engraved brass, which contains the letters stamped on the cover of a

lettering-book (let'er-ing-buk), n. man's, card-writer's, or sign-painter's samplebook, showing styles and varieties of letters used in lettering and (sometimes) also the conventional signs used in map-making, sur-

lettering-pen (let'er-ing-pen), n. A steel or quill pen adapted to making letters for signs or on cards and maps.

lettering-templet (let'er-ing-tem/plet), n. guide used in making letters on cards, signs, or maps with a pen or pencil. It is marked with the letters that can be formed with each of the angles in which the guide is cut.

Lethotremus (le-thot'rē-mus), n. [NL.. < Gr. lettering-triangle (let'er-ing-trī'ang-gl), n.

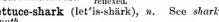
A form of lettering-templet.

A form of lettering-templet.

lettiga (le-tē'gā), n. [It. lettiga, lettica, < L. leucinic (lū-sin'ik), a. [leucin + -ie.] Derived leucinic, a litter, sedan: see litter, n.] A kind of sedan-chair, for two persons, who sit facing of sedan-chair, for two persons, who sit facing leucinosis (lū-si-nō'sis), n. [NL., < leucin + -osis.] Acute yellow atrophy of the liver, in the second sedan excessive production of Lettonian (le-tō'ni-an), a. and n. Same as

Lettuce, n.—American lettuce, Same as wild lettuce (b).
—Arrow-leaved lettuce, Lactuca sagittifolia, of eastern North America, the lanceolate-acuminate stem-leaves of which are sessile with a sagittate clasping base.—Canada or Canadian lettuce. Same as wild lettuce (b).—Canker-lettuce, the round-leaved wintergreen, Pyrola rotundifolia.—Florida lettuce, Lactuca Floridana, of the eastern and southern United States, with blue flowers and lyrate-pinnatifid leaves.—Hairy lettuce. Same as miner's *kelettuce.—Indian lettuce, (b) Same as miner's *kelettuce.—Miner's lettuce, Claytonia perfoliata, an annual American plant, ranging from British Columbia to Mexico and now established at one locality in Ohio. It is remarkable for the pair of large, connate upper leaves forming a cup out of which the panicle fises. It is used by the Indians as a salad plant and has long been grown in England for this use.—Red wood lettuce, Lactuca hirsuita of the castern and southern United States, having reddish-yellow flowers, more or less hairy stems, and sinuate pinnatifid leaves. The involucre is often red or purple.—Spanish lettuce. Same as miner's *kletlettuce, n. -American lettuce. Same as wild lettuce (b).





halant canals which converge toward the oscula, the outer ends being covered over by a dermal periferous membrane, and the skeleton being composed of irregular radiate spicules. It includes the genus Lencascus.

Leucascus (lū-kas'kus), n. [NL. (Dendy, 1892), (Gr. λευκός, white, + ἀσκός, a bag.] The typical genus of the family Leucascidæ.

pound, $\tilde{C}H(C_6H_4O\tilde{H})_3$, prepared by the reduction of aurin by means of zinc dust and sodium hydroxid. It crystallizes in prisms duction of a dye and giving the dye again by and is readily reconverted into aurin. Also

two atoms of hydrogen less: they are possibly amido-aerylic acids.

The **Leucethiop** (lū-sē'thi-op), n. [L. Leucæthiopes, otherwise Leucoæthiopes, and Leucæ Æthiopes, 'white Ethiops,' $\langle Gr. \lambda \varepsilon v \kappa \delta \varepsilon, white, + A i \theta i \circ \sigma \varepsilon \varepsilon$, Ethiopiaus: see Ethiop.] 1. One of a people located by Pliny south of the Mauritanian Getulians: identified by some authors as the nanistic people of the northern Sahara.—2. [l. e.] An albino negro; also, more generally, an albino.

leucethiopia (lū-sē-thi-ō'pi-ā), n. [NL. leu-cæthiopia, < leucothiop, n., 2.] Albinism oc-leucocythemic, leucocythæmic (lū"kō-sī-thē'-mik). a. Same as leucocythæmic. curring in negroes.

leucethiopic (lū-sē-thi-ō'pik), a. [leucæthiop Leucocytic crystals. See *crystal. thiopia or albinism.

leucic (lū'sik), a. [Gr. λευκός, white, + -ic.]
Pertaining to leucin or leucic acid.—Leucic
acid, a colorless compound, Cll₃(Cll₂)₃Cll(OH)COOH,

prepared by the action of nitrous acid on leucin. It crystallizes in needles, melts at 73° C., and sublimes at 100° C. Also called 2-hexanolic acid.

-osis.] Acute yellow atrophy of the over, in which there is an excessive production of leucin.

leucite, n. 1. This mineral has been shown by C. Klein (1903) to be an essential constituent of the meteoric stone which fell at Schafstädt, in Saxony, in June, 1861. It is associated with anorthite and angite in a brown, glassy ground-mass, and this type has been named leucituranolite. Leucite probably also occurs in the Pavlovka meteoric stone (1882). 2. A small yellowish body found in the cotyle-

dons of a germinating plant that has not been exposed to sunlight.

leucitis (lū-sī'tis), n. [NL., ζ Gr. λευκός, white, + -itis.] Same as sclerotitis.

leucitophyric (lu^{*}si-tō-fir'ik), a. [leucite + (por)phyr(itie) + -ic.] Noting a porphyritic rock whose phenocrysts are leucite. Dana, Manual of Geol. (4th ed.), p. 77.

Handar of Geof. (4411 ed.), p. 11.

leucituranolite (lū"sit-ū-ran'ō-līt), n. [Gr. λευκός, white, + -ιτης, Ε. -ite², + οὐρανός, heaven, + λίθος, stone.] A rock type represented in the meteorie stone of Schafstädt, sented in the meteoric stone of Schafstädt, Saxony (1861). See *leucite, I, and *meteorite. Leuckartia (lū-kār'ti-ā), n. [NL., named after Prof. Leuckart of Leipzig.] The typical genus of the family Leuckartidæ. Moniez, 1878. Leuckartidæ (lū-kār-tī'i-dē), n. pl. [NL., < Leuckartia + -idæ.] A family of dibothridiate cestoid worms, of the order Pseudophyllidea, lacking evident bothria. It includes the genera. Leuckartia and Blanchardella persistici fishes

Leuckartia and Blanchardella, parasitic in fishes. leuco-agglutinin (lū"kō-a-glö'ti-nin), n. An agglutinin directed against the leucocytes.

leucobase (lū'kō-bās), n. A coloriess base which gives a dye on oxidation and which is formed by the reduction of the dye.

leucoblastic (lū-kō-blas'tik), a. Relating to a leucoblast. Buck, Med. Handbock, II. 23. leuco-body (lū'kō-bod"i), n. Same as *leucocompound

leucochalcite (lū-kō-kal'sīt), n. [Gr. λευκός, white, + χαλκός, copper, + -ite².] A basic copper arseniate which occurs in white silky

acicular crystals.

leucochroi (lū-kok'rō-ī), n. pl. [NL. pl., < Gr. λευκόχροος, of white complexion, < λευκός, white, + χρόα, color, complexion.] In anthrop., persons of a white skin.

In this essay ["Geographical Distribution of Mankind"]
Mr. Dallas proposes Leucochroi, Mesochroi and Æthochroi as substitutes for White, Yellow and Black respectively.

Keane, Ethnology, p. 234, note. leucochroic (lū-kō-krē'ik), a. [As leucoehroi

+ -ic.] 1. In anthrop., having a light-colored skin: contrasted with *mesochroic and æthochroic ('black-colored').—2. Abnormally light. in color; albinotic: contrasted with melano-

 $\begin{array}{lll} \textbf{leucocidic} & (\textbf{l\ddot{u}-k\ddot{o}-sid'ik}), \ a. & [leuco(cyte) + \textbf{L.} \\ -eida, & & cxedere, \ \textbf{kill.} + -ic.] & \text{Causing the de-} \end{array}$ struction of leucocytes.

leucocidin (lū-kō-sid'in), n. -in2.] A bacterial cytotoxin which causes the destruction of leucocytes.

duction of a dye and giving the dye again by oxidation.

leucocratic (lū-kō-krat'ik), a. [Gr. λευκός, white, + κρατεῖν, dominate, + -ic.] In petrog., a term proposed by Brögger (1896) to designate igneous rocks characterized by a preponderance of light-colored minerals, or rather of minerals that are normally light-colored (chiefly feldspar and feldspathic minerals, and unarty). quartz), as contrasted with those (melano-eratic) in which there is a preponderance of dark-colored minerals.

leucocyclite (lū-kō-sik'līt), n. [Gr. λευκός, white, + κίκλος, eirele, + -ite².] A variety of apophyllite. See *chromocyclite.

leucocytal (lū'kō-sī-tal), a. [leucocyte + -al¹.]

mik), a. Same as leucemic.

+ -ic.] Characterized, as a negro, by leuce- leucocytiform (lü-kō-sit'i-fôrm), a. [leucocyte thiopia or albinism. + L. forma, form.] In histol., shaped like a

leucocyte, as the cells found in the reticular tissue of the phagocytic organs of the Gryllidæ and certain Locustidæ. de.



leucocytolysis (ln ko-si-tol'i-sis), n. cocyte + Gr. λίσις, dissolution.] The destruction of leucocytes by specific leucocytoxins. leucocytolytic (lū-kō-sī-tō-lit'ik), a. [leucocytolysis (-lut-) + -ic.] Having reference to the action of leucocytotxins.

leucocytopenia (lū"kō-sī-tō-pē ni-ā), n. [NL., ⟨ leucocyte + Gr. πενία, poverty.] Same as

*leucopenia.

leucocytopenic (lū'kō-sī-tō-pen'ik), a. [leucocytopenia + -ic.] In pathol., of or relating to a decreased number of leucocytes, or color-

less blood-corpuscles.

leucocytosis, n. 2. The number, actual or relative, of white corpuscles in a given specimen of blood, an excess being designated hyperleucocytosis, and a number below the normal hypoleueocytosis or leucopenia.

The highest leucocyte count observed in this case was 22,000, and occurred on January 10; the average had been 17,000, and at present the leucocytosis was 16,600.

Med. Record, Jan. 24, 1903, p. 159.

Med. Record, Jan. 24, 1993, p. 159.

leucocytotic (lū*kō-sī-tot'ik), o. [leucocytosis | leucophlegmasia (lū*kō-fleg-mā'si-ā), n. [NL., or the production of leucocytes.

leucophlegmasia (lū*kō-fleg-mā'si-ā), n. [NL., prop. leucophlegmatia: see leucophlegmacy.]

Same as leucophlegmacy.

leucocyturia (lū*kō-si-tñ'ri-ā), n. [NL., < leucocyte + Gr. aipor, urine.] The presence of leucocytes in the urine.

leucoderivative (lū ko-dē-riv'a-tiv), n. Same as *leuco-compound.

leucodermatous (lū-kō-der'ma-tus), a. [Gr. $\lambda \epsilon \nu \kappa \delta c$, white, + $\delta \epsilon \rho \mu a(\tau -)$, skin, + -ous.] Marked by deficient pigment in the skin.

Marked by deficient pigment in the skin.

leucodrin (lū'kō-drin), n. [Leucod(endron) +
-in².] A colorless, very bitter, levorotatory
compound, C₁₈H₂₀O₉, contained in the leaves
of Protea concinna (Leucodendron concinnum
of Robert Brown). It erystallizes in prisms
and melts at 212° C.

and meits at 212° C.
leucoencephalitis (lū"kō-en-sef-a-lī'tis), n.
[NL., ⟨ Gr. λευκός, white, + ἐγκέφαλος, brain, + -itis.] Same as *forage-poisoning.
leucogallol (lū-kō-gal'ol), n. [Gr. λευκός, white,

+ E. gallol.] A colorless compound, $C_{18}H_8$ - $O_{12}Cl_{12}.2H_2O$, prepared by the action of chlorin
on pyrogallol. It crystallizes in small needles
which melt at 104° C.

leucolinic (lū-kō-lin'ik), a. [leucoline + -ic.] Pertaining to leucoline or loucol.—Leucolinic acid, a colorless compound, C₉H₉NO₃, prepared by the exidation of quinoline from coal-tar (leucoline). It crystallizes in needles which melt at 162° C.

leucolysin (lū-kol'i-sin), n. [leucolys-is + -in².]
A substance that produces leucolysis.

leucolytic (lū-kō-lit'ik), a. [leucolysis (-lyt-) + -ic.] Causing the destruction of leucocytes. leucomaine, n.—Toxic leucomaine, a leucomaine having toxic properties.

leucomelanic (lū-kō-me-lan'ik), a. Same as leucomelanous.

leucomyelitis (lū"kō-mī-e-lī'tis), n. [NL., Gr. λευκός, white, + μυελός, marrow, + itis.] Inflammation of the spinal cord confined wholly or chiefly to the white matter.

Leucon (lū'kon), n. [NL. (Kröver, 1846), < 1862.

Gr. λευκός, white.] 1. The typical genus of the family Leuconidæ.—2. [l. c.] Any sponge belonging to the group Leuconaria.

1862.

Leucosoleniidæ (lū-kō-sō-lē-nī'i-dē), n.

leuconecrosis (lū"kō-ne-krō'sis), n. [NL., ζ Gr. λενκός, white, + NL. necrosis.] A form of dry gangrene in which the dead tissue is

white instead of black.

leuconic (lū-kon'ik), a. [Gr. λευκός, white, +
-n-+-ic.] Noting an acid, a colorless sweet
compound, C₅H₈O₉, prepared by the action of
chlorin or nitric acid on an alkali croconate. It crystallizes, with 1H₂O, in small needles which become anhydrous at 100° C.

Leuconidæ (ln-kon'i-dē), n. pl. [NL., < Leucon + -idæ.] A family of cumacean crustaceans which have an elongated body and no telson. It contains the genera Leucon, Eudorclia, and Eudorellopsis.

leuconoid (lū'kō-noid), a. [leucon + -oid.]
Pertaining to or resembling a lencon: as, the
leuconoid type of canal system in sponges. Contrasted with *syconoid.

Leuconostoc (lñ-kō-nos'tok), n. [NL. (Van Tieghem, 1878), ζ Gr. λευκός, white, + E. nostoc.] A genus of bacteria. The cells are spherical and united in chalms which are inclosed in a slimy envelop. L. mesenterioides occurs in beet-juice and syrups, forming gelatinous masses.

[icu- leuconuclein (lū-kō-nū'klō-in), n. [Gr. λευκός, leucospheric (lū-kō-sfer'ik), a. strue- white, + NL. nucleus + ...u².] A decomposi- + -ic.] Of or pertaining to the

leucopenia (lū kō-pē'ni-ā), n. [leuco(cyte) + Gr. πενία, poverty.] Ä diminution in the number of white corpuscles in the blood. Also called hypoleucocytosis.

The leucopenia is of diagnostic value, especially in children, in whom most febrile affections produce a leucocytosis. More data are needed to determine the priority of appearance of a "positive" serum reaction or a leucopenia.

Med. Record, July 11, 1903, p. 66.

leucophanite (lū-kof'a-nīt), n. [leucophane +

[NL., \(\left(leu-\)]\] leucophœnicite (lū-kō-fen'i-sīt), n. [Gr. presence of λενκός, white, + φοίνιξ (φοινικ-), purple, + -ite².] A basic orthosilicate of manganese chiefly, also zine and calcium, related to humite in formula. It occurs in crystalline masses of a raspberry-red color at Franklin Furnace, New Jersey

leucophyllous (lū-kō-fil'us), a. [Gr. λευκόφυλλος, white-leaved (< λευκός, white, + φίλλου, leaf), + -ous.] In bot., having white leaves.

leucophyre (lū'kō-fīr), n. [Gr. λευκός, white, + (por)phyr(y).] In petrog., a name given by Gümbel (1874) to certain light-colored aftered diabases, with saussuritized feldspars, pale-green angite, and much chlorite. The name having fallen into disuse it has been proposed in the quantitative system of classification of igneons rocks (1902) to apply it, in the classification for field use, to any light-colored perphyry, in distinction to a dark-colored porphyry (metaphyre).

leucorrhagia (lū-kō-rā'ji-ā), n. [NL., < Gr. λευκός, white, + -ραγια, < ὑηγνίναι, breuk.] Profuse leucorrhea.

leucoryx (lū'kō-riks), n. [NL., ζ Gr. λευκός, white, + ὅρυξ, an antelope.] The specific name of the saber-horned antelope, Oryx leucoryx, adopted as a common name.

leucosin (lū'kō-sin), n. [Gr. λευκός, white, + -osc + -in².] An albuminous substance found in various cereals.

A substance that produces leucolysis.

leucolysis (lū-kol'i-sis), n. [leuco(eyte) + Gr. in various cereals.

λίσις, dissolution.] The destruction of leucocytes by means of specific leucotoxins or leucolysins.—Venom leucolysis, the destruction of leucocytes by means of snake-poison.

leucocytes by means of snake-poison.

[leucolysis (-lyt-)]

lin various cereals.

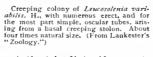
leucosism (lö'kō-sizm), n. [Gr. λείκωσις, a whitening, a white spot, < λευκόυ, whiten, < λευκός, white.] The presence of white coloring in parts of the bodies of animals in which the normal coloring is not white; partial al-

Leucosolenia (lū "kō -sō-lē 'ni-ä), n. [NL.,

 Gr. λευκός,
 white, + σωλήν, The pipe.] typical pical genus the family Leucosoleniidæ. Bowerbank. 1862

dæ (lû-kō-sō-lō-nī'i-dō), n. pl. [NL., < Leucosolenia + -idæ.] A fam-ily of homocœl-

ous, calcareous sponges haverect ing an form. with monaxon spic-



The state of the s

ules always present, the triradiate, if present, alate, the collar-cells with an apical nucleus, and the larva an amphiblastula. It contains the genera Leucosolenia and Ascyssa.

the genera Leucosotema and Aseyssa.

leucosphenite (lū-kō-sfen'īt), n. [Gr. λευκός, white, + φόρν, wedge, + -ite².] A titanosilicate of barium and sodium, which occurs in wedge-shaped monoclinic crystals, white to grayish blue in color, with vitreous to grayish blue in color, with vitreous to levelage (lev'el-āj), n. [level¹ + -age.] In mining, leveling. pearly luster: obtained from sonthern Greenland.

leucosphere (ln'kō-sfēr), n. [Gr. λευκός, white, + σφαίρα, sphere.] A name coined by Lock-yer for the inner portion of the snn's corona: so called because of its whiteness, in contrast with the scarlet chromosphero.

[lewcosphere white, + NL. nucleus + ...'n².] A decomposition-product of nucleohiston.

leucotephrite (lū-kō-tef'rīt), n. [leucite + tephrite.] Same as leucite-tephrite. See tephrition of having white lines or patches beneath the nails.

leucotephrite (lū-kō-tef'rīt), n. [leucite + tephrite.] Same as leucite-tephrite. See tephrition of having white lines or patches beneath the nails.

leucotephrite (lū-kō-tef'rīt), n. [leucite + tephrite.] Same as leucite-tephrite. See tephrite (lū'kō-tin), n. [Gr. λευκός, white, + leucotephrite] līn chem., a crystalline substance which forms the chief constituent of stance which forms the chief constituent of the leucosphere.

E. coto + -in².] In chem., a crystalline substance which forms the chief constituent of the extract of paracoto bark. See Coto bark. leucotoxic (lū-kō-tok'sik), a. [leucotox-in + -ic.] Same as *leucolytic. leucotoxin (lū-kō-tok'sin), n. [Gr. λενκός, white, + E. (cyto)toxin.] A cytotoxin specifically directed against leucocytes.

leucotrichia (lū-kō-trik'i-\(\bar{u}\)), n. [NL., \langle Gr. $\lambda \epsilon \nu \kappa \delta \epsilon$, white, + $\theta \rho i \xi$ ($\tau \rho r \chi$ -), hair.] Marked diminution or absence of pigment in the hair. leucopenic (lū-kō-pen'ik), a. [leucopenia + λευκός, white, + θρίξ (τρίχ-), hair.] Marked diminution or absence of pigment in the hair. nia or paucity of the white corpuscles of the leucoturic (lū-kō-tū'rik), a. [Gr. λευκός, white, an acid. a colorless crystalline compound, $C_6H_6O_6N_4$, prepared by the reduction of parabanic acid in acid solution.

leukemia, leukæmia (lū-kē'mi-ä), n. Same

leukopenia, n. Same as *leucopenia.

Leuresthes (lū-res'thēz), n. [NL., said to allude to the toothless jaws, irreg. < Gr. λευρός, smooth, + εσθίειν, cat.] A genus of atherinoid fishes found on the coast of California.

Leuroglossus (lū-rō-glos'us), n. [NL., < Gr. λευρός, smooth, + γλώσσα, tongue.] A genus



Leuroplossus stilbins (From Bulletin 47, U. S. Nat. Museum.)

of fishes of the family Argentinidæ, found in rather deep water off the coast of California.

leva (la'va), n. [Bulg.] A current silver coin of Bulgaria, of the value of 20 cents. One hundred stotinki equal one leva.

levancy (lev'an-si), n. [See levant1.] The actor state of rising up. See levant and couchant, under conchant.

It may be measured, like a manorial right, by levancy and couchancy, or it may be limited to a fixed number of animals.

Encyc. Brit., XXVII. 168.

levant2, n. 4. In leather-manuf., artificial blood used instead of real blood for obtaining a perfect black. Mod. Amer. Tanning, p. 109.

Levantine stage. See *stage.

levator, n.—Levatores capitis, in entom., the extensor muscles of the head. There are two pairs: one arises from the middle of the pronotum, diverges, and is inserted on the anterior upper margin of the occipital foramen; the other arises from the prophragma and is inserted near the middle of the npper margin of the occipital foramen. This applies to the European Maybeetle, Melolomtha vulgaris, and doubtless to many other Coleoptera.

levee', n. 3. In irrigation, one of the small continuous ridges of earth surrounding the fields, or compartments, of land that is to be irrigated. The leves are usually from three to five feet wide at the bottom, and a foot or more in height, being broad and low, so that wheeled agricultural implements can pass ever them without injury.

levee-check(le-vē'chek), n. Same as *eheck1, 20. level, n. 1. (b) The correction for level of an astronomical instrument; the deviation of its axis from exact horizontality. Science, Jan. 4, 1901, p. 13.—4. (b) In landscape-gardening, one of the horizontal surfaces in which an irregular piece of land may be arranged. By the use of different levels the designer may place various features of his design above or place various features of his design above or below the eye.—Level of no strain, a neutral surface, within the crust of the earth, in which the strains due to temperature and the action of gravity neutralize each other.—Plezometric level, the relative level or altitude of two layers of air measured in standard barometric pressures, as distinguished from orometric levels, which are measured in linear units; or thermometric levels, which are measured in temperature units; or pyenometric levels, which are measured in density units.

level-constant (lev'el-kon"stant), n. viation from exact horizontality of the axis of an astronomical instrument. It should be sensibly constant if the instrument is well made and firmly mounted. Science, Jan. 4, 1901, p. 13.

he direction of the strike: at right angles to the line of dip or rise.

leveler, n. 3. [cap.] (b) One of a secret sothan; vast or monstrous, ejety of rebels in Ireland in the latter half of levir (lever), n. [L. levir, brother-in-law.] A the eighteenth century; named from their principles and the leveling of park palings and walls, practised by them. -6. In currying, a composition used to eradicate the grease be- levirate, n. II. a. Of or pertaining to the levifore leather is dyed. Mod. Amer. Tauning, p. 151.—7. In golf, a hole of such length that no player can reach the green in one stroke and any player can reach it in two strokes.— 8. A person who uses an engineer's level; a member of an engineering or surveying party.

level-error (lev'el-er or), n. In work with astronomical and geodetic instruments, the small error in a quantitative observation made with a transit instrument due to the fact that the horizontal axis is not truly level.

level-free (lev'el-fro), a. In mining, drained by a water-level.

by a water-level.

leveling, u.—Geodetic leveling, the method of determining the difference of level or elevation between two distant points on the earth's surface, by observing at one point the angle of elevation or depression of the other and calculating therefrom the vertical lineal distance of one point above the other after correcting for refraction and for curvature of the earth.

leveling-machine (lev'el-ing-ma-shēn/), n. In shoe-manuf., a machine for pressing down the sole of a shoe while on the last, to give the shoe its correct form. Some machines employ a roll that passes over the sole of the shoe under heavy pressure. In others, direct pressure is used. Also called beating-out machine.

leveling-stand (lev'el-ing-stand), n. An instrument for supporting glass plates or vessels in a horizontal position.

level-line (lev'el-lin), u. In naval arch., the curved line cut by a horizontal plane on the surface of the hull. A series of such lines cut by equidistant horizontal water-planes is used to define the form of the vessel in the

levelman (lev'el-man), n. Same as *leveler, 8. level-point (lev'el-point), n. 1. Any fixed point, as a bench-mark, stake, point of rock, or point on any permanent material or structure, whose elevation above a given datum, as the sea-level, is determined and referred to in comparisons of elevations.—2. One of two or

level-stone (lev'el-ston), n. In mining, one of the stones on the surface marking the direction of levels underground.

the stones on the surface marking the direction of levels underground.

lever, n.—Change-speed lever. See *change-speed.—Compensating-lever, a beam or lever with equal or unequal arms, used to obtain a mean effect of two equal or unequal efforts. In the locomotive the weight of the frame is applied at the fulcrum of such a lever, and the ends of the lever are attached to the springs which transmit the load on each to the axlebearing. Any unequal reaction of the track is followed by a descent of one or the other end of the lever, and hence the load on each spring is always the same, no matter how the track-surface varies. This compensating-lever is usually called the equalizing-lever, and it not only mitigates shocks by dividing then between the two springs but also delivers to each wheel its share of the weight for adhesion, and slipping is lessened. The whilfletree of a two-horse wagon is a compensating-lever. The arms may be unequal, if the loads are unequal.—Dead lever see live lever, under live?—Equalizing-lever. See compensating-**tever.—Locking-lever, a lever connected with the faller of a spinning-unile, which locks the faller in position at the heginning of the whinding of the yarn on the eop or bobbin.—Mendoza lever, a hinged lever on a cotton-spinning mule connected with the backing-off motion of the spinule-carriage.—Optical lever, a device for the measurement of amirror, the amount of deflection being shown on a scale over which the light travels. Such a lever is used in the tangent galvanometer.

lever-fly (lev'ér-fli), n. A machine for punching or shearing metal plates, in which a constantly running fly-wheel is temporarily lewisite (lū'is-īt), n. [Named for Professor W. J. Lewis of Cambridge.] A titano-antilever; a power-punch.

lever-motion (lev'er-me "shon), n. A motion transmitted by one or more levers; a motion taken from a moving lever.

leverrierite (le-ver'i-er-īt), n. [Named for Le Vertier, a French mining engineer.] A lewisson (lū'i-son), n. Same as lewis, 1. -ous.] Same as libanotophorous. hydrated silicate of aluminium, allied to kao-lex, n. 2. ln numis, the money standard fixed libate, v. i. 2. To take a drink. [Slang.] linite: it occurs at several localities in France. lever-scales (lev'er-skalz), n. pl. Same as

use of levers.

leviathanic (le-vi-a-than'ik), a. Like a levia-

brother-in-law; a male relative of a man who, after the latter's death, has the right, and the duty, to marry his widow.

rate: as, levirate marriage; levirate law. Levit. An abbreviation of Leviticus.

levitant (lev'i-tant). n. [levit-ate + -ant.] One who exhibits or professes to exhibit the spiritualistic phenomena of levitation.

levitative (lev'i-tā-tiv), a. [levitate + -ive.] Having the power of using or causing other things to rise in the air; having the alleged power of levitation.

Leviticism (le-vit'i-sizm), n. [Levitic + -ism.] Same as Levitism.

levocamphene, lævocamphene (lō"vō-kam-fēn'), n. See *camphene, l.

levo-compound, levo-compound (le'vo-kom"-pound), n. In chem. that isomerie form of a substance which produces left-handed rotation of the plane of polarization of light.

levogyral, lævogyral (le-vo-ji'ral), a. Samo ragyrate.

levolactic, lævolactic (lē-vō-lak'tik), a. [L. lærus, left, + E. luctic.] Noting an acid, the

levoracemate, lævoracemate (lē vē-ras'ē-māt), n. [L. lærus, left, + E. racema + -ate¹.]

levorotation, lævorotation (le "vō-rō-tā'-shon), n. [L. kevus, left, + E. rotation.] The rotation of the plane of polarization of light toward the left.

A minute difference in the lærorotation of two fractions seems insufficient evidence for the assumption that aromadendral exists in the oil of E. corymbosa.

Nature, April 2, 1903, p. 525.

half breadth plan of the sheer-draft. Also levosin, levosin (lev'\(\tilde{0}\)-sin), n. [? L. levis, L.G. An abbreviation (a) of Life Guards; (b) smooth, + -ose + -in^2.] A colorless amorof the level-man (lev'el-man), n. Same as *leveler, 8. level-point (lev'el-point), n. 1. Any fixed point, level-point (lev'el and melts at about 160° C.

levotartaric, lævotartaric (lē vo-tar-tar'ik), [L. lævus, left, + E. tartaric.] Noting an acid, a form of tartaric acid which turns the plane of polarized light to the left.

more points having the same elevation above levotartrate, lævotartrate (lē-vē-tār'trāt), sea-level.

Notartrate (levotartrate, lævotartrate) A salt of levotartrate.

Notartrate (levotartrate) A salt of levotartrate (levotartrate) A salt of levotartrate. tartaric acid.

levulan, lævulan (lev'ū-lan), n. worse intoxicant, thiamba (Cannabis Indica). + -an.] A colorless, amorphous, levorotatory carbohydrate, $C_6H_{10}O_5$, found in beet-sugar **L. H. T.** An abbreviation of Lord High Treasmolasses. It is quantitatively converted into urer. [levul(ose) levulose by boiling with dilute acids, and L. I. melts at about 250°C.

levulosan, lævulosan (lev-ū-lō'san), n. [lev-losan, lævulosan, lævulosan, lev-losan), n. [lev-losan, lævulose + -an.] A colorless syrup, C₆H₁₀O₅, liana, n. prepared by rapidly heating cane-sugar at 160° C. It is optically inactive, and is converted into levulose by boiling with water.

levulosuria, lævulosuria (lev/ū-lō-s $\bar{\mathbf{u}}$ 'ri- $\bar{\mathbf{u}}$), n-[levulose + Gr. olyov, urine.] I levulose in the urine when voided. Presence of

levynite (lev'i-nit), n. [levyne + -ite2.] Same liangle, n. Same as *lecangle. as levune.

Lewisian (lū-is'i-an), a. Noting the oldest rocks in Great Britain: so named by Murchison from the island of Lewis where they are exposed. They consist chiefly of gneisses similar to the Laurentian types of North America. See Lewisian *group.

These lines of movement traverse the *Lewisian* plateau in various directions, producing planes of disruption, molecular rearrangement of the minerals and the development of foliation.

monate of calcium occurring in minute vellow to brown octahedrons: found in the gravels of Tripuhy, Minas Geraes, Brazil.

Lewis's counter-gambit. See *counter-gam-

A lewisson (lū'i-son), n. Same as lewis, 1. by imperial or other constituted authority. W. C. Hazlitt.

Lexell's circle. See *circle.

lever-shears (lev'er-shērz), n. sing. and pl. lexiarchus (lek-si-är'kus), n.; pl. lexiarchi Hand- or power-shears, for cutting metal, in (-kī). [Gr. ληξίαρχος, ζ λῆξίς, assignment by

level-course (lev'el-kors), a. In mining, in which the necessary force is obtained by the lot, + ἀρχειν, rule.] One of a board of six officers at Athens who attended to the registration of citizens, assigned the young men to their place on the list of the deme, and were stationed at the entrance to the Pnyx, to prevent the intrusion of those who were not citizens. They were assisted by thirty armed officers. Jour. Hellenic Studies, VIII. 107.

> lexic (lek'sik), a. [Gr. λεξικός, of or for words, $\langle \lambda \dot{\epsilon} \dot{\epsilon} \dot{\epsilon} \dot{\epsilon} \dot{\epsilon} \rangle$, a saying, speech, phrase, word, a partienlar word, $\langle \lambda \dot{\epsilon} \dot{\epsilon} \dot{\epsilon} \dot{\epsilon} \dot{\epsilon} \rangle$, say, speak: see *lexicon*, etc.] Of or pertaining to words, as to the voeabulary of a language; consisting of words;

Frimitive languages are essentially structural or morphologic, only incidentally lexic. . . . With the attainment of writing, the function of linguistic association largely disappears, and speech hecomes essentially lexic, only incidentally morphologic.

Rep. Bur. Amer. Ethnol., 1897-98, p. 832.

lexicalic (lek-si-kal'ik), a. Same as lexical. G. P. Marsh, Leet. Eng. Lang., p. 141.

lexicog. An abbreviation (a) of lexicographer;
(b) of lexicography.

lexicografer, lexicografy. Amended spellings of lexicographer, lexicography.

lexigraphically (lek-si-graf'i-kal-i), adv. In such a manner that each character represents a word.

variety of lactic acid which rotates the plane of a ray of polarized light to the left.

evoracemate, lævoracemate (le, vo-ras e māt). n. [l. lærus, left, + E. racema + -ate].

A salt of levotartarie acid.

level in this spelling (see lea1) is used specifically of a plantation of grasses or other plants grown for their herbage (clovers, etc.), to serve either as meadow or as pasture. Leys are planned for one or a few years or for permanency, their composition being governed accordingly. [Great Britain.]

The extended duration of the ley justifies the addition of timothy and an increase of cockstoot.

M. H. Sutton, Permanent and Temporary Pastures,

Leyden's crystals. Same as Charcot's crystals (which see, under erystal).

L. F. P. S. An abbreviation of Licentiate of the Faculty of Physicians and Surgeons.

An abbreviation of Lord High Ad-L. H. A.

miral. L. H. C. An abbreviation of Lord High Chan-

cellor. lhiamba (le-äm'bä), n. [Native African name.] Indian hemp, Cannabis Indica. See bhang,

*dagga, Cannabis and hashish.

The imported gin keeps the African . . . from his worse intoxicant, *thiamba* (Cannabis Indica).

Mary Kingsley, West African Studies, p. 667

An abbreviation (a) of Light Infantry; of Licentiate of Instruction; (e) of Long

isana, n. In phytogeog., a liana is a plant which roots in the ground and, by means of long stems with long internodes and the assistance of various devices, climbs over other plants and, more rarely, over rocks. The name was formerly given only to woody plants; but its use has been broadened to include herbaceous annuals and perennials, thus becoming synonymous with climber. See *leaf-climber, *root-climber, *xerambler, 2, twiner (b), and phrases under *tendril-climber.

Liassian (li-as'i-an), n. [F. liassien: as Lias + -ian.] In geol., a term applied by d'Orbigny and other French geologists to the middle division of the Lias in France.

Liassic, a.—Upper Liassic clay, the upper member of the Lias, which is itself the lowest division of the

With the aid of other shallow wells in the Lincolnshire Limestone, this rock is shown to have a decided dip to the west down the face of the escarpment, as though it had settled down upon the eroded surface of the *Upper Liassic Clay*.

Nature, Nov. 27, 1902, p. 95.

lib. An abbreviation (b) of librarian; (c) of library; (d) of the Latin libra, pound.

libaniferous (lib-a-nif'e-rus), a. [LL libanus, frankineense, +-fer, \(\circ\) ferre, bear, +-ous.] Same as libanotophorous.

libanophorous (lib-a-nof'ō-rus), a. [Gr. λίβα-νος, frankincense, + -φορος, ζφέρειν, bear, + -ous.] Same as libanotophorous.

Gents, this is shorely the sociablest crowd I've crossed up with as yet. Let's libate! A. H. Lewis, Sunset Trail, xi.

libational (li-bā'shon-al), a. [libation + -alⁿ.]
Pertaining to libations; of the nature of a libation.

pillar cult of Mycenæan civilization. It has four legs surrounding a sacred pillar or bætylus.

libel, n. 7. In law, a petition for a decree in divorce.—Mutation of libel, in admirally and eccles, law, an amendment allowed which changes the substance of a libel, so that a new cause of action is introduced, or another remedy demanded.

libelee, libellee (lī-be-lē'), n. In law, the defendant in actions or suits in which the complaint or first pleading is libel. (From "Journal of Helenc Studies," by permis See libel, 2.

libella, n. 5. A Roman brass coin, the as of diminished weight.

Libation-table

Libellatic (li-be-lat'ik), n. [L. libellatici, pl., \(\) L. libellus, a paper, a certificate: see libel.]

One of the class of Christian apostates who, during the Decian and Valerian persecutions, secured from the magistrates by bribery a false certificate (libellus) testifying that they had satisfied the requirement of sacrificing to the heathen gods.

liberal. I. a.—Liberal-Republican party. See Republican.—Liberal science. See science.

II. n. 3. One who holds liberal views in theology. [U. S.]

In Boston a minister is called a *liberal* when he rejects the Andover creed, and, perhaps, the Apostles' creed. *The Beacon* (Boston), Jan. 8, 1887. N. E. D.

liberal-legal (lib" e-ral-legal), a. Noting a stage of civilization marked by freedom of thought and criticism, liberty of personal action, freedom of contract, and the establishment of constitutional law and government. Compare *religious-military. Giddings, Prin. of Sociol., p. 309.

liberative (lib'e-rā-tiv), a. [liberate + -ive.] Same as liberatory.

liberticidal (lib'er-ti-sī"dal), a. [liberticide + That destroys liberty.

liberticide¹, n. II. a. That destroys liberty; li berticidal.

libertin, n. and a. A simplified spelling of

libertine, n. 8. At Aberdeen University, a free seholar; one who has no bursary. See bursary, 2. N. E. D.

liberty, n.—Laws of liberty. See *law1.

liberty-day (lib'er-ti-da), n. Naut., a day on which liberty is granted.

liberty-liquor (lib'er-ti-lik"or), n. Formerly, a certain limited amount of liquor (rum) which a member of the crew of an English man-of-war was permitted to purchase from the purser for the purpose of entertaining a visitor.

liberty-party (lib'er-ti-par"ti), n. Members of a ship's company to whom leave to go ashore has been granted.

liberty-ticket (lib'ér-ti-tik"et), n. A written or printed paper given to a man-of-war's-man, Lichen planns, in pathol., a form of lichen, occurring on on which is specified the date and period of his liberty. The possession of it insures him smooth and are the seat of much itching.

liberty-tree (lib'ér-ti-trē), n. See Tree of Liberty, under tree.

Libonia (li-bō'ni-ā), n. [NL. (C. Koch, 1863), named in honor of Libon, a traveler in Brazil.] An untenable generic name still frequently used by florists for certain species of Jacobinia, a genus of plants of the family Acanbinia, a genus of plants of the family Acanthacea. They are half-shrubby greenhouse subjects bearing a profusion of slender, tubular, irregular red or orange flowers. The commonest species is Jacobinia paucifora, often known by florists as Libonia fortibunda, a native of Brazil. It is a very floriferous plant, with small, and entire, elliptic-oblong leaves and drooping, or declined, scarlet, yellow-tipped flowers an inch long. The plant known to florists as Libonia Penrhosiensis is a hybrid between Jacobinia pauciflora and J. Ghiesbreghtiana, with still more showy flowers.

libra, n. 4. A money of account at Alicante in Spain; the pess, worth 10 reals.—5. A new gold coin of Peru, struck under a decree of January 10, 1898, and of the same standard lichen. lichen. lichen. + -ficatio(n). < -ficare. and weight as the pound sterling.

library, n.—Traveling library, a selected set of books sent from a central source to a club or school in some place where there is no public library. The books are returned when read and another collection is sent to take its place.

libation-table (lī-bā'shon-tā'bl), n. A peen-librational (lī-brā'shon-al), a. [libration + lichenivorous (lī-ke-niv'ō-rus), a. [L. lichen, nected with the tree-and-tion; in astron., pertaining to the librations lichen, + rorare, cat, + -ous.] Feeding on lichen, as reindeer. of the moon or of the planets Mercury and lichenize (li'ken-iz), r. t.: pret and pp. lichen-Venus.

libroplast (lī'brō-plast), n. [L. liber, free, + cover with liehens. Gr. $\pi \lambda a \sigma \tau \delta c$, formed.] A stabiloplast which lichenologic (lī'ken-ō-loj'ik), a. lies free from the chromatophere along the middle line of some diatom cells.

Libyo-Teutonic (lib//io-tū-ton/ik), a. Libyan as related (in theory) to Tentonic peoples: applied to the blond type of man in Morocco and Algiers in its supposed physical relationship with the blond Teutonic type of northern Europe. Brinton, Races and Peoples, p. 106.

licarene (lik'a-rēn), n. A colorless cyclic, optically active hydrocarbon, $C_{10}H_{16}$, prepared by the dehydration of licarcol. It is a limonene.

licareol (li-kar'i-ol), n. Same as *linatool.

Licea (li'sē-ā), n. [NL. (Schrader, 1797),

⟨ L. licium, thrum, thread.] A genus of slime-molds which have sessile sporangia containing brownish or reddish spores and no capillitium. Nine species have been de-

Liceaceæ (lī-sē-ā'sē-ē), n. pl. [NL., < Licea + -acex.] A family of slime-molds named from the genus Licea.

the genus Licea.

license, n. 1. (f) Naut., a certificate issued to a merchant-marine officer showing him to be qualified for the position named on the paper; also, a certificate issued to a vessel testifying that it has been inspected by government officials and pronounced seaworthy in hull, boilers, machinery, and equipment.—License system, a term used to denote the laws governing the conditions under which the sale of alcoholic or intoxicating beverages may, or may not, be carried on.—Steamship license, a document granted to a steam-vessel, specifying the waters on which she is permitted to sail, the pressure of steam allowed, etc.

lichadid (li'ka-did), n, and a. I, n. A mem-

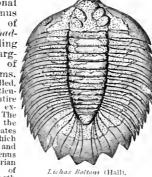
ber of the family Lichadidæ.

II. a. Pertaining to or resembling the Li-

Lichadidæ (lī-kad'i-dē), n. pl. [Lichas (Lichad-) + -idæ.] A family of trilobites typified by lick, r. i. 2. To tear along; ride at full gallop. [Collog.]

lichadoid (li'ka-doid), a. Allied to er resem-lick, m. bling the trilobite genus Lichas.

Lichas (lī'kas), n. [NL., ζ Gr. Λίχας, a personal name.] A genus of trilolites of the family Lichardincluding some of the largest known of these organisms.
All are thin-shelled, and so loosely articulated that entire specimens are ex-tremely rare. The anterior tobe of the glabella dominates the other lobes, which are reniform small. The genus occurs in the Silurian and Devonion and Devonian of Europe and North America.



lichen (lî'ken), r. t. [lichen, n.] To lichenize. Lichenales or lichens. Lindley.—Lichenal alli-ance, the name proposed by Lindley for the Lichenales or lichens.

Lichenales (lî-ke-nâ'lēz), n. pl. [NL., < lichen + -ales.] Same as Lichenes.

Lichenalia (li-ke-nā'li-ä), n. [NL., ζGr. λειχήν, blichen, H-alia.] A genus of cyclostomatous bryozoans of the family Fistuliporidæ. They possess massive or ramose zoaria, the zoacia of which have vovid or pyriform apertures, thin walls, and complete horizontal diaphragms. The genus extends from the Silurian to the Permian. Also Fistulipora.

**Toler of the dogs or to the gun, to permit the near approach of a dog or a sportsman before ffying: said of game-birds.

Liebanata (School of the genus extends from the shaft of a club makes with the head. A club has a flat lie when the angle is very obtuse, and an

lichenate (li'ken-āt), n. [$lichen-ic + -ate^1$.] A salt of lichenic acid.

lichen-fungus (lī'ken-fung"gus), n. Any fungus which enters into combination with an alga to

lichen, lichen, + -ficatio(n), < -ficare, make.] Conversion of a portion of the skin, usually about the flexures of the joints, into a condition resembling liehen planns.

In some cases the lesions had flattened and left a state of marked licheniscation. Lancet, July 18, 1903, p. 165. lie-days (lī'dāz), n. pl. See *lie-time.

ized, ppr. lichenizing. [lichen + -ize.] To cover with lichens.

Same as tichenological.

Lichenopora (lī-ke-nop'ō-rā), n. [NL. (Defrance), \langle Gr. $\lambda \epsilon \iota \chi / \nu$, lichen, $+ \pi \delta \rho o \varepsilon$, pore.] The typical genus of the family Lichenoporidæ. Lichenoporidæ (lī ke-nō-por i-dē). n. pl. [NL., \(Lichenopora + -idæ. \)] A family of cyclosto-

National Action of the Alleman All Manily of cyclostomatous cetoproctous polyzoaus. The zoarcium is discoid, simple or composite, adnate or partially free and stipitate; the zoarcia are tubular, erect or nearly so, arranged in more or less distinct series radiating from a free central area; and the intermediate surface is cancellate or porous. It contains the genera Lichenopora and Domopora, lichi² (lē'elii), n. [Also leche; S. African.]

Kobus lichi (lcche), one of the larger antelones of South Central Africa: related to the waterbuck, but with shorter, more recurved horns.

Lichnophora (lik-nof'ō-rā), n. [NL., ζ Gr. / ίχνος, a glutton, + -φορος, ζ φέρευν, bear.] The typical and only genus of the family Lichnophoridæ. It occurs as an ectoparasite on various ma-rine animals, as arthropods, medusæ, snails, and worms. Claparède, 1867.

Lichnophoridæ (lik-nō-for'i-dē), n. pl. [NL., < Lichnophora + -idæ.] A family of peritrichens, ciliate infusorians. They have a secondary circlet of cilia around the opposite end in addition to the adoral zone, which is a left-wound spiral, and the hinder end of the body forms a sucker for attachment. The family contains the genus Lichnophora.

Lichnophorina (lik″nō-fō-rī'nii), n. pl. [NL., ⟨Lichnophora + -ina².] Same as *Lichnophor-

lichadid (lī'ka-did), n. and a. I. n. A mem-licht-coal (licht'kōl), n. Cannel-coal; gas-[Scoteh.]

Lichtenberg's alloy, an alloy of eadminm, bismuth, tin, and lead which has a low meltingpoint.

[Colloq.]

[ck. n. 7. An aberration of the appetite, with a merbid desire to eat foreign substances having no food value, which attacks nearly the domestic animals. In the exit is called piea, in the sheep wool-cating, etc.

lickety-whittle (lik'e-ti-hwit'l), adv. Reek-lessly fast. Dialect Notes, II. vi. [Vulgar.] lick-fingers (lik'fing"gerz), n. 1. A greedy fellow; a glutton.—2. A cook: often used by the Elizabethan dramatists as the personal name of a cook.

licking, n. 3. The adhesion of textile fibers (cotton) to any surface in the process of manufacture

lick-ladle (lik'lā/dl), n. A parasite; a lickplatter

Lic. Med. An abbreviation of Licentiate in Medicine.

incurcine.

licorice, n.—Wild licorice, (e) In the West Indics and British Guiana, any one of several species of trees belonging to the genus Cassia, having fruits which contain a sweet pulp tasting somewhat like licorice; especially C. pistula and C. grandis.

licorice-juice (lik'ō-ris-jös), n. The extract of Spanish or Russian licorice-root. Glucurrhiza

Spanish or Russian licorice-root, Glycyrrhiza alabra.

licorice-powder (lik'ō-ris-pou'der), n. Finely ground licorice-root; used as a mild laxative. lichenal (li'ken-al), a. Of or pertaining to the licorice-sugar (lik'o-ris-shug'ar), n. Glycyrrhizine-ammonia, the sweet principle of licorice and monesia bark. Sci. Amer. Sup., Jan. 18, 1908, p. 43.

lid (lid), r. t.; pret. and pp. lidded, ppr. lidding. [lid, n.] To put a lid on (something); put a cover on; hide.

a flat lie when the angle is very obtuse, and an upright lie when it is less obtuse. (b) The position of a ball at rest on the course .- Hanging lie, in golf, the position of a ball when it rests slope downward in the direction of play.

liebenerite (le'ben-er-it), n. [Named after L. Lichener.] An alteration-product, probably of nephelite, allied to gieseckite.—Liebenerite-porphyry, a nephelite-porphyry which occurs near Predazzo in Tyrol, and in which the nephelite has been altered to a dense aggregate called liebenerite, approaching muscovite in composition.

liefly liefly (lef'li), adv. gladly. [Archaic.]

And liefly, mine own vassal folk

Do yield their fealty.

M. J. Preston, Cartoons, Bishop's Ban, st. 7.

lie-key (li'kē), n. lu well-boring, a tool on which boring-rods are hung when being raised or lowered. [Scotch.]

or lowered. [Secton] lien?, n.—Tax lien, a charge or encumbrance upon property which attaches by reason of failure to pay taxes duly assessed thereon; the claim of the state upon property to the amount of unpaid taxes and interest thereon. It has precedence over all other encumbrances on the property. The property may be sold by the state to satisfy the claim. lienitis (li-e-ni'tis), n. [NL., < L. lien, spleen, + -itis.] Inflammation of the spleen.

lienogastric (li e-nō-gas'trik), a. spleen, + Gr. γαστήρ (γαστρ-), stomach, + -ic.] Same as gastrosplenic; specifically, in ichth., noting an artery which supplies the stomach, spleen, and part of the pancreas of sharks and other fishes.

lienomyelogenous (li e-nō-mī-e-loj'e-nus), a. [L. lien, spleen, + Gr. μυελός, marrow, + -γενης, -producing.] Originating in the spleen and bone-marrow: said of a form of leucocythemia. Buck. Med. Handbook, H. 69.

lie-time (li'tim), n. In mining, the time for life-zone (lif'zon), n. See \neq zone, making up accounts, payment for which has lift?, v. t. 10. In ericket, to hit (to lie over till the following pay-day. Also into the air.—11. In archery, to lying-time. [Scotch.]

An abbreviation of Lieutenant-Lieut.-Col. Colonel as a title.

lieutenancy, n. 4. In archery, a rank or prize at a shooting-match: usually awarded to the archer who makes the second greatest number of hits without regard to score, or who first hits the second or next to the innermost circle of the target.

lieutenant, n. 3. In archery, the winner of a second lieutenant, a shooting-match.—Additional second lieutenant, a supernumerary second lieutenant in the United States army: a grade created by Congress, and filled only when the number of graduates in any class of the United States Military Academy exceeds the number of vacancies in the grade of second lieutenant in the army. army.

lieutenant-at-arms (lū-ten'ant-at-armz'), n. An old English term for the junior lieutenant, on a man-of-war, whose duty it was to drill the erew in musket and broadsword exercise.

Lieut.-Gen. Au abbreviation of Lieutenant-General as a title.

Lieut.-Gov. An abbreviation of Lieutenant-Governor as a title.

life, n. 17. In base-hall, an opportunity given to the batsman or base-runner, through an error of the opponents, of continuing without being put out; in sports in general, an unexpected or undeserved opportunity.—Good life, in ins., an insurable risk; one who, according to his present age and condition of health, can secure ordinary life-insurance.—Joint lives, in law, the duration of an estate limited upon the natural lives of two or more persons.—Life zone. See *zone.—Natural life, in law, life the duration of which is determined by actual rather than civil death than civil death.

life-buoy, n.—Lnminous life-buoy, a buoy which is self-lighting when thrown into the sea, or one which is coated with a phosphorescent paint and shows against the

school or academy for which the living model, school or academy for which the living model, bridge, n.—Rolling lift-bridge, a form of lift-bridge which carries a highway or railway over a naviga-

life-form (lif'fôrm), n. In phytogeog., same as *vegetation-form.

(Ecological Plant Geography, which considers the *life-forms* of species, their associations, and their relations to the life conditions. R. Smith, Nat. Science, XIV. 110.

life-guard, n. 3. A man employed on a bathing-beach to guard against accidents to bathers. [U.S.]

life-holder (lif'hol"der), n. One who holds property for a life or lives.

life-horizon (līf'hō-rī"zon), n. In gcol., a stra tum characterized by one or more fossils which in their range are restricted to it.

life-kite (lif'kît), n. Naut., a kite flown from a vessel wrecked on a lee shore, for the purpose of sending a line to the beach, when, owing to the severity of the wind, a line cannot be shot to the ship.

life-line, n. 2. A line used by firemen to lower people from a burning building .- Life-line gun. See *run1.

ife-net (lif'net), n. A large net, attached by steel springs to a stiff ring, held by firemen at life-net (līf'net), n. the height of their shoulders, into which persons may jump from a burning building.

Sorbus Americana. (c) The American spikenard, Aralia racemosa. (d) The bush-honeysuekle, Diervilla Diervilla.

life-plasma (līf'plas"mä), n. The fundamental plasma or substance in which life or vital force resides.

It is possible that the first life-plasma was stationary.

L. H. Bailey, Survival of the Unlike, p. 17.

life-ring (lif'ring), n. Naut., the ring to which the under part of a breeches-buoy is attached. life-safe (lif'saf), n. A safe-conduct.

The Advocate . . . has wrung your life-safe out of Simon ad the Duke.

R. L. Stevenson, Catriona, ix. and the Duke.

life-saver (līf'sā"ver), n. A man employed in the life-saving service.

Life-saving station. See station.

life-school (lif'sköl), n. See *life-class.
life-slide (lif'slīd), n. A shallow glass cell
used to retain minute living organisms while they are under microscopic examination.

lifesomely (lif'sum-li), adv. In a lively way; lifting-pallet (lif'ting-pal'et), n. A pawl or with abounding animal life.

lift², v. t. 10. In ericket, to hit (the ball) high into the air .- 11. In archery, to shoot at an clevation, or with a high trajectory, in order lifting-sail (lif'ting-sāl), n. A head-sail the to cover the required distance: said of an tendency of which is to lift or raise a vessel's arrow.—12. In forestry, to pry up (seedlings in a seed-bed), so that they may be pulled up lifting-shaft (lif'ting-shaft), n. The shaft in a by hand for transplanting .- 13. To pay off; take off (a mortgage). [Ü. S.]

So then the spectral mortgage could never be lifted. F. R. Stockton, the Spectral Mortgage.

14. To bring (a constellation) above the horizon in sailing, etc. N. E. D. [Colloq.]

It's the Barralong, to Australia. She'll lift the Southern Cross in a week,—lucky old tub!
R. Kipling, Light that Failed, vii.

15. To drive (sheep or cattle) to market. [Australia.]

lifted a finer mob this season.

Rolf Boldrewood, Squatter's Dream, iv.

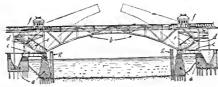
Lifting magnet. See ★magnet.

lift², n. 7. (c) In coal-mining, a slice or cut taken off a pillar in stoping. [Seotch.]—9. In textile-manuf., the extent of the traverse of a guide-eye or bobbin, as on a spinningframe.-10. In lawn-tennis, a little added power at the end of the stroke.—**Hydraulic** ifft, a hydraulic elevator; an elevator or lift worked by hydraulic pressure on a piston or plunger. [Eng.]—**Main lifts**, naut., the lifts of the yards on the main sof the main yard.—**Mizzen lifts**, naut., the lifts of the yards on the main yard.—**Mizzen lifts**, naut., the lifts of the yards on the mizzennast; the supports for the yards.

lift-battery (lift'bat"er-i), n. A coast-defense disappearing battery in which the guns and their carriages are placed on platforms which are raised and lowered like those of piston elevators.

The first 12-in. guns to be installed were the two in the lift battery, which was finished in 1895. In this each gun, with its carriage, is mounted on a platform which can be raised and lowered by a direct-acting hydraulic ram.

Encyc. Brit., XXVIII. 454.



Rolling Lift-bridge.

ble channel or other passage to be temporarily opened, in which one end of the lift-bridge remains on the abutment and the other lifts or revolves vertically about the stationary end, which is curved like a hoop and rolls backward along a track on the abutment. Frequently the bridge is divided at the center into two half-bridges, each

lifter1, n. 2. (b) In founding: (1) A tool used

[lief + -ly².] Willingly; life-of-man (lif'ov-man"), n. The name of lifting-arms (lif'ting-armz), n. pl. 1. A pair several plants: (a) The live-forever, Sedum of arms in a locomotive valve-gear for lifting telephium. (b) The American mountain-ash, the links.—2. Arms for raising valves which the links.—2. Arms for raising valves which are opened by the action of cams, as in some internal-combustion motors.

lifting-cam (lif'ting-kam), n. A cam or lobe on a revolving or rocking shaft which imparts a lifting movement to valves or other mechan-

lifting-cog (lif'ting-kog), n. A curved lever or cam-shaped arm for lifting a poppet-valve in an engine.

lifting-crane (lif'ting-krān), n. 1. A crane for lifting weights.—2. A swing-crane or derrick in which the arm moves up and down to raise and lower the load, the hook being attached directly to the arm without the interposition of a hoisting-device.

lifting-jet (lif'ting-jet), n. The steam-jet which lifts and forces the water in an ejector or injector.

lifting-nozle (lif'ting-noz"), n. The combining or forcing nozle in an injector or inspi-

projection on a lever or other part of a mechanism used for lifting.

lifting-poker (lif'ting-po"kėr), n. Same as $\star poker^1(d)$.

lifting-shaft (lif'ting-shaft), n. The shaft in a locomotive valve-gear which carries the arms for raising and lowering the links or linkblocks.

lifting-toe (lif'ting-tō), n. The revolving arm of the rock-shaft of a valve-gear. It takes against the toe on the lifting-rod and transmits motion.

lifting-valve (lif'ting-valv), n. See valve, 2. lift-jigger (lift'jig"er), n. A double and a single block-tackle made fast to the hauling part of a lift to multiply its purchase.

Well, Masther John, . . . I won't deny that I have n't liftman (lift'man), n.; pl. liftmen (-men). An fled a finer mob this season.

Relate Relate record Squatter's Dream, iv. elevator attendant. [Eng.]

lift-smoke (lift'smok), n. A game of cards litt-smoke (lift'smök), n. A game of cards played by from four to six persons, with the full pack. The cards are dealt one at a time, six to four players, five to five, and four to six. The last card that comes to the dealer is the trump. The play is as at whist. The winner of each trick draw at the top card from the stock and leads again. As soon as a player's carda are exhausted he withdraws from the game. The one who outlasts the others, having a card when his adversary has none, wins the pool.

lig (lig), n. Naut., a combination fish-hook and sinker.

and sinker.

lig (lig), n. Naut., a combination fish-hook and sinker.

ligament, n.—Cervical ligaments, two ligaments, the anterior of which connects the basilar fissure of the occipital bone with the bodies of the first few cervical vertebre, and the posterior of which is the same as the ligamentum nuche.—Douglas's ligament. See Bouglas's *fold.—Gastropancreatic ligament, gastrophrenic.—Hepatic ligaments, folds of peritoneum, passing from the liver to adjacent parts, which serve to prevent displacement of the organ.—Hepatocolic ligament, a peritoneal fold passing between the liver and the colon.—Hepatorenal ligament, a peritoneal fold stretching from the liver to the right kidney.—Iliopubic ligament. Same as Poupart's ligament, a ligament connected with the Weberian ossicles of certain fishes.—Ligament of Bertin, the iliofemoral ligament.—Ligament of Henle, the internal portion of the rectus abdominis muscle.—Ligaments of Cooper, fhers passing between the skin and the mammary gland; that part of the fascia of the transversalis which passes from the licopectineal eminence to the spine of the pubes: fibers passing, on the inner side of the elbow, from the coronoid process to the olecranon.—Metacarpal ligament, a ligament connecting the lower ends of the last four metacarpal bones.—Pancreaticosplenic ligament, a lold of peritoneum passing between the tail of the pancreas and the spleen.—Rhomboid ligament, (b) A ligament passing from the lower end of the radius to the unciform and cunciforn bones.

ligation, n.—Distal ligation, the tying of an artery, for the cure of aneurism, on the side of the dilatation

Rolling Lift-bridge.

a, foundation of concrete resting on piles; \$\delta, \delta, \text{spans}\$ of bridge, closed and forming a cautaliver arch; \$\delta_i\$, that on which span rolls in rising to open position; \$\delta_i\$, curred face or tread that rolls on track; \$\delta_i\$, counterweights; \$\delta_i\$, buses for motor and control; \$\delta_i\$, \$\delta_i\$ fender-piles. Dotted lines show spans rolling backward and upward and half open.

ble channel or other passage to be temporarily opened, in which one end of the lift-bridge remains on the abuttment and the other lifts or revolves vertically about the stationary end, which is curved like a hoop and rolls backward along a track on the abuttment. Frequently the ward along a track on the abuttment.

Frequently the archive results and the dilated position of the arcry.

bridge is divided at the center into two half-bridges, each half revolving vertically about the end of the abutment. Iiffer 1, n. 2. (b) In founding: (1) A tool used by molders for lifting loose sand from the bottoms of flange- and rib-molds. (2) One of the hooks suspended from the bars of a molding-box into the mold to support the sand.

artery.

**Ligature forceps, needle. See **forceps, *needle.— Ligatures of Stannius, two ligatures, one of which is placed between the sinus venous of a frog's heart and the auricles can be the sum of flange- and rib-molds. (2) One of the hooks suspended from the bars of a molding-box into the mold to support the sand.

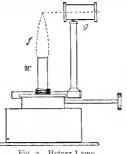
visional ligature, a broad ligature passed around a large artery and tied during an operation, but removed when this is completed.—Soluble ligature, a ligature, made of catgut or other animal material, which is absorbed after remaining a time in the tissues.

Ligerian (lī-jē'ri-an), n. LigerLoire) + -ian.] In geol., a substage of the Cretaceous system on the continent of Europe taking its name from the Loire river. It coustitutes the lower division of the Turonian stage, and lies immediately above the Cenomanian beds. Also used attributively.

light¹, n. 15. In mech., an opening; a space clear of obstructions.—16. In an acrostic puzzle, each of the words which are to be guessed, clear of obstructions.—16. In an acrostic puzzle, each of the word is which are to be guessed, their initials and finals forming the word or words in which the answer to the puzzle consists. N. E. D.—Actinic light, light capable of affecting a photographic film or of producing other chemical effects. This property belongs chiefly, but not exclusively, to the violet and ultra-violet regions of the spectrum. The longer wavelengths, such as those transmonders are the order of the spectrum. The longer wavelengths, such as those transmomenty termed some chiefly of the spectrum. The longer wavelengths, such as those transmomenty termed some chiefly of the spectrum. The longer wavelengths, such as those transmomenty termed some chiefly of the spectrum. The longer wavelengths, such as those transmoments of the spectrum. The longer wavelengths is considered to the spectrum of the spectrum. The longer wavelengths in the most when the spectrum of the special design used for signaling at sea. They are named from their inventor. Also called Costen signals. Efficiency of a source of light. See *electro-etherend.—Peast or Pestival of Lights. See *Hanukah.—Finsen light treatment, the treatment of diseases of the skin by exposure to the violet and ultra-violet rays of the spectrum, a method devised by Dr. Niels Flinsen of Copenhagen. Either sunlight or the electric arc-light may be used, but the latter is usually preferred. See *apparatus.—Holmer's light, a device used, in practice, to show the movements of a locomotive torpedo. It is an arrow-headed cannister pierced with several holes and filled with phosphilde of calcium. The contact of water with this chemical produces bubbles which bmst into flame or reaching the surface and also emit dense smoke having the odor of garlie.—Lattent light, in photogy, the light or actinic influence (sufficiently provertial to allect a photographically sensitive surface even after the lapse of several monthis which is found to be stored up in paper with this chemical produces bubbles which bm their initials (or initials and finals) forming the word or words in which the answer to the puzzle

device is known as the inceneers series. On account of the variable character of the fuel employed, it affords results hut little better than those obtained with the standard candle or with ordinary oil or gas flames, all of which are deficient in constancy. It is now universally recognized that in order to obtain a flame suitable for a light standard it is necessary to use a fuel of definite chemical composition in a lamp of accurately apecified construction. The only light standard thus far produced which fulfils these conditions is that obtained by the use of the lamp invented by the late Von Hefner Alteneck and known as the Hefner lamp. The fuel employed is amyl acctate (C₅H₁₁C₅H₂O₅), a volatile organic liquid which burns with a luminous flame similar in color to the flame of petroleum and gas, but of slightly greater relative Intensity in the red than the latter. The Hefner tamp (Fig. 2) is of simple construction. It has a wick-tube (w) of German silver, the length,

diameter, and thickness of wall of which are carefully specified, since the brightness of the flame depends upon these details, The flame (f), which burns in free air, is similar in size and shape to a candle flame, and its height, which under normal conditions should be precisely 40 millimeters, is controlled by turning the wick up and down and is measured by means of a



and down and is measured by means of a flame-grage (P.) (See ***/fame-grape**.)

**The principal read of the flame of this standard is that due to atmospheric moisture to the cubic meter. The effect of the temperature and pressure of the alm of this standard is that due to atmospheric moisture. The effect of the temperature and pressure of the alm and of the amount of earbon dioxid present are been found that Hefner lamps outside pressure of the alm and of the amount of earbon dioxid present are with the mechanical specifications give light-values which when corrected for the humility of the atmosphere agree with each other within 2 per cent, and since this is the best result obtained with any primary light standard, this lamp has been adopted as the reference standard in photometry. To reduce measurements made with the Hefner lamp to British standard candles is used. The articles of So. British standard candles is used. The articles of So. British standard candles is used. The articles of So. British standard candles is used. The articles of So. British standard candles is used. The articles of So. British standard states, has a flame of pentane-vapor burning within a metal chinney. An aperture in the chinney is so adiasted as to give light of either 1 or 10 candle-power. The pentane-lamp is not reproducible with accuracy, and is usually calibrated by means of some other standard was proposed by Violie to avoid the uncertainties to which all flame standards are necessarily subject. The primary standard of light is the light emitted from a square centimeter of surface of a mass of platinum at its temperature of solidification. The brightness of this standard, which is called the riodic, is approximately 20 candle-power. The bacque determine this unit accurately by means of the platinum standard, and the bought of the proposed as a standard candles as a unit, which is called the riodic, is approximately 20 candle-power. The bacque determine the surface of a mass of platinum at its temperature of solidification.

Römer (1676) from observationa upon the eclipses of the moons of Jupiter. The observed times when the satel-lites of Jupiter disappear behind the disks of the planet moons of Jupiter. The observed times when the satellites of Jupiter disappear behind the disks of the planet
and reappear again are several minutes earlier when Jupiter and the earth are in conjunction than when they
are in opposition. From such observations Römer found
the time required for a wave of light to cross the earth's
orbit to be 169 minutes. The diameter of the earth's
orbit being known, the velocity of light could then be
computed. The velocity as thus determined was 302,
300,000 meters per second, a value now known to be too
large. Another astronomical method of computation
(Bradley's method) is based upon aberration, a planomenon consisting in the apparent displacement of a star due
to the motion of the earth in its orbit. This displacement depends upon the velocity of light, which, computed from such observations, is found to be 299,300,00
meters. The first direct measurements of the velocity of
light by a method independent of the motion of the earth
in its orbit, was made by Fizeau (Fizeau's method), who
introduced into the path of a beam of light a rapidly revolving toothed wheel. Light passing between two adjacent teeth of this wheel is reflected back upon its path
by means of a distant mirror, and when the wheel is
driven at a certain speed the returning light is intercepted
by the adjacent tooth. To an observer looking through
the teeth of the wheel toward the mirror the light coming
from the mirror to the eye will be extinguished when the
proper speed has been attained. The arrangement of the
essential features of the apparatus is shown in Fig. 1, in

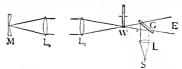


Fig. 1. Velocity of Light-Fizeau's method.

which S is the source of light, G an unsilvered glass plate reflecting the light in a horizontal direction, W the rewhich S is the source of light, G an unsilvered glass plate redecting the light in a horizontal direction, W the revolving wheel, so placed that the apertures between its teeth lie in the focus of the lens L₁. This lens renders the beam of light parallel, and L₂ focuses it upon a concave mirror M. This mirror returns the light through the lenses L₂ and L₁, and a portion is transmitted through the glass plate G to the eye at E. At the proper speed, as mentioned above, the returning light is intercepted by the wheel. In 1850 Foucault's method). He employed a revolving mirror driven at a high rate of speed by means of an air-turbine. The essential features of this method are indicated in Fig. 2. A beam of light from S, thrown

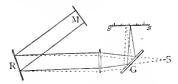


Fig. 2. Velocity of Light-Foucault's method.

Fig. 2. Velocity of Light—Foucault's method.

upon the revolving mirror R, is reflected to a distant mirror M, thence back to the revolving mirror, and thence to the glass plate G, from the surface of which a portion is reflected to the scale **s.* If In the interval occupied by the beam of light in traveling from the revolving mirror to the fixed mirror M and back again the revolving mirror moves through an appreciable angle, the portion of the scale reached by the returning ray will not coincide with that which it would have reached had the revolving mirror been at rest. From the deflection of this beam of light along the scale, the angular velocity of the mirror, and the distance between the revolving mirror and the fixed mirror, the velocity of light is computed. In 1874 Cornu made a determination of the velocity of light by a refinement of Fizeau's method, and obtained the value 300,400,000 meters per second in vacuo. In 1879 Michelson repeated Foucault's measurements with a greatly improved apparatus set up upon a sea-wall at the Naval Academy in Annapolis. The speed of the revolving mirror was 250 revolutions per second, and this was determined with great accuracy by comparison with the period of a standard tuning-fork. The distance between the revolving mirror and the fixed mirror was very great (about 500 meters) and the deflection of the returning ray was 133 millimeters. Michelson's result for the velocity of light was 299,94,000 meters per second. These experiments were afterward repeated by Newcomh. That the velocity of light in vacuo and in air is nearly the same, whatever be the wave-length of the light, is well established. Any considerable difference of velocity would show itself in Michelson's observed. That the different wave-lengths reaching the eye from the stars travel st the same rate is shown by the fact that no momentary color effects are produced in the occultation of the stars by the moon or in the eclipse of Jupiter's atellites. In refracting media such as glass, however, the velocit

light³, v. i.—To light in, to run lightly or easily: applied to the inward traverse of the spindle-carriage of a spinning-mule.

lightage ($(i't\bar{a}j)$, n. [light¹ + -age.] 1†. A toll paid by a ship coming to a port where there is a lighthouse. N. E. D.—2. A system

of lighting; the supply of gas, electricity, or other illuminant used for lighting.

light-buoy (lit'boi), n. A life-buoy which automatically ignites a flare upon striking the water, or a channel buoy which carries a light from sunset to sunrise.

light-contrast (lit'kon trast). n. brightness-contrast. See *contrast, 5.

lightening-hole (līt'niug-hōl), n. lu iron shipbuilding, a hole cut in a plate which forms a part of a vessel's structure, to reduce its weight without reducing its strength for the purpose See cut at *keel1, 2, intended.

light-equation, n .- Constant of light-equation.

light-filter (lit'fil tèr), n. lu photog., a screen which transmits light selectively and is used to control the composition of the radiation light-vector (lit'vek"tor), n. A vector or line lignum² (lig'num), n. [An abbreviated pro-

which falls upon the sensitized plate.

light-horseman, n. 2. A fish, Chetodipterus fabrr, of the family Ephippidæ: found from Cape Cod to Rio de Janeiro. See Chetodipterus, with cut.

ighting-station (li'ting-stā'shon), n. An establishment for the generation of electric current to be used in lighting.

light-line (lit'lin), n. Nant. the water-line at which a vessel floats when at light displacement. See *displacement, 3. White, Manual of Naval Arch. p. 47

Naval Arch., p. 47. light-liquor (lit'lik'or), n. The liquid obtained in the manufacture of glucose or starch-sugar by sufficiently boiling statch with dilute sulphuric acid, neutralizing the acid with calcium carbonate, and separating the calcium sulphate by subsidence, before filtration and the coneentration which produces 'heavy-liquor.

light-mill (līt'mil), n. Same as radiometer, 2. Enege. Brit., XXXII, 128.

lightning¹, n.—Dark lightning, dark lines which sometimes appear on photographs of lightning. They are sometimes due to the excessive actinic intensity of the light from the flash which causes a reversal, giving a positive or bright line on the negative plate and a black line on the positive.

lightning-beetle (līt'ning-bē'tl), n. Same as

lightning-pains (lit'ning-panz), n. pl. Sharp

lightning-recorder (līt'ning-rē-kôr"der), n. A modification of the Marconi apparatus for wireless telegraphy which serves to record auto-

lightning-stone (līt'ning-ston), n. Same as

lightning-tree (lît'ning-trê), n. In the Baha-

peared. See coral-tree and Erythrina. light-port (lit'port), n. Naut., a port-hole; an opening in the side of a vessel for admitting light into a cabin, state-roem, or other compartment

light-pressure ($lit'presh''\tilde{u}r$), n. The mechanical pressure due to the impact of light-waves upon a body placed in their path. sure, 2(b).

light-sensation (līt'sen-sā "shon), n. See light.

lightskirts (lit'skertz), n A woman of lax behavior. [Rarc.] A woman of lax behavior. [Rarc.] A brown eompound, $C_{20}H_{23}O_8N$, Hath not Shor's wife although a light skirts she, Given him a chast long lasting memory? Iterary from Pernassus, II. i. 2. light-spot (lit'spot), n. 1, See the extract. In view of the recent work of Haberlandt on the light sense-organs of leaves, it may be of interest to record the discovery of similar organs in xerophilous stems. Certain of the epidermal cells of the young stems of the Ephedreus have on their external wall conical structures of the nature of papille, the core of the papilla being mucilaginous, This structure acts as a collecting lens focussing the in-

and pyramid of light, light-stuff (lit'stuf), n. and pyramid of light.

light-stuff (lit'stuf), n. A trade-name for a volatile liquid obtained in rectifying commercial coel-tar benzine in aniline-dye works: used to some extent as a solvent for indiarubber.

See *tele-table beauty (151'table 5 5 mi) a See *tele-table beauty of light and hard wood. See

light-telephony (lît'tel ç̄-fō-ni), n. See *tele-

phony.

which indicates by its length and direction the magnitude and character of the disturbance of the ether (the so-called light-disturbance) at any point in a region traversed by polar-ligulate-flowered (lig'ū-lāt-flou'erd), a. Same ized light. The light-disturbance s is defined as lightly light as lightly light as lightly light. by the equation

 $\mathbf{s} = \mathbf{A} \sin \left(2\pi \frac{\mathbf{t}}{\mathbf{r}} + \vartheta \right),$

where A is the amplitude, t the time, T the of phase

light-year (lît'yēr), n. The distance traversed by light in one year; the unit usually employed in expressing the distances of the fixed stars: for example, the distance of a Centauri is $4\frac{\pi}{10}$ for example, the distance of a Centauri is $4\gamma_0^2$ light-years. In terms of the smaller astronomical unit (the mean distance of the earth from the sun), it is found by dividing the number of seconds in a sidereal year by the number of seconds occupied by light in coming from the sun to the earth. According to our best present determinations, it is 62,243 astronomical units. It bears to the smaller astronomical unit very nearly the ratio of the mile to the inch.

Ligia, n. 3. A genus of plants of the family Daphnaceæ. See Thymclæa.

lignicolous (lig-nik'ō-lus), a. [L. lignum, wood, + eolere, inhabit.] Living in wood: applied to certain bivalve mollusks, as Teredo, the ship-worm.

lightning-hopper (lit'ning-hop*er), n. A homopterous American insect of the family Fullgoridae. See Fulgara.—Prosted lightning-nopper, alightning-hopper, Ormenis pratinosa, of a pale green or lead color, covered with a whitish powder which makes it seem frosted.

lightning-pains (lit'ning-pānz), n. pl. Sharp darting pains of brief duration experienced in locomotor ataxia.

lightning-recorder (lit'ning-rē-kôr"der), n. A modification of the Marconi apparatus for wireless telegraphy which serves to record automatically the occurrence of distant lightning or weaker electric discharges. The natural electric discharge produces an induced current in a local receiving radioconductor or circuit of wire including some form of coheter, tapper, and relay. The latter actuates the recording apparatus proper. Various forms of the lightning-tree (lit'ning-stôn), n. Same as lightning-stone (līt'ning-stôn), n. Same as radgarite.

lightning-tree (līt'ning-trē), r. In the Bahamas, the West Indian coral-tree, Ervuturina corallodendrom. Its leaves are decidnous and at certain seasons the bright searlet flowers cover the tree before the new leaves have appeared. See coral-tree and Erythrina.

called baslose.

lignoceric (lig-nō-sē'rik), a. [L. lignum, wood, + cera, wax, + -ie.] Noting an acid, a color-less compound, C₂₄H₄₈O₂, contained in beechwood tar and in the saponification-products of earthnut-oil. It crystallizes in needles and melts at 80.5° C.

ligno-eosin (lig-nō-ē'ō-sin), n. A trade-name for a product said to be the sodium salt of lignone-sulphonic acid. It is obtained from the waste digester-liquor of the sulphite process for making woodpuln, and has been proposed for use as a reducing agent in chrome-mordanting wool for dyeing.

lignoin (lig'nō-in), n. [L. lignum (ligno-), wood, ligno-in), lignoin (lig'nō-in), n. [L. lignum (ligno-), wood, like sam Hill. Same as *tike sin, like sin, like sin, like slin, like slin, like sin, like sin, like slin, like

lightskirts (līt'skirtz), n A woman of lax lignoin (lig'nō-in), n. [L. lignum (ligno-), wood,

Liliales

cident rays of light, and a definite area of the cytoplasm of the back wall of the cell is thereby illuminated. Fig. 1, which is a photomicrograph taken in diffuse light of a mounted preparation of epidermis, shows the appearance of these light.spots as seen under 2 objective. Of any objective their in the path of the incident rays an image is formed by each of these light sense-organs.

1. The definition of the incident rays are incident as a by-product in the manufacture of cellulose. It consists of sulphur dioxid and aromatic compounds which are probably derived from the first of the sulphit sense of the compounds which are probably derived from the first of the room in which the patient remains being saturated with a lower control of the sulphit. mounted preparation of epidermis, shows the appearance of these light-spots as seen under to objective. Of any object held in the path of the incident rays an image is formed by each of these light sense-organs.

R. J. D. Graham, in Nature, April 4, 1907, p. 535.

2. A cone-shaped area of reflected light on the drum-membrane. Also called eane of light and pyramid of light.

Also called eane of light and pyramid of light.

the Australian species mentioned under lig-

nunciation of polygonum.] Any species of the wiry plants of the genus Polygonum. [Australia. I

liguloid (lig'ū-loid), a. [L. ligula, a var. of lingula, a little tongue, + -oid.] Having the form of a ligula or little tongue; tongueshaped.

period of the disturbance, and ϑ the constant Ligurian. I. a. 2. Pertaining to a division of phase and the Rigi. These beds lie at the base of the series, consist of marls and limestones with marine fossils, and form a part of the great series of deposits termed Modasse or Flysch. Included in the division are the Glarus shales, celebrated for their abundant fish fanna

2. The Ligurian division. Also II. n. known as the Rigi beds.

Ligurianize (li-gū'ri-an-īz), v. t.; pret. and pp. Ligurianized, ppr. Ligurianizing. [Ligurian + -ize.] To render Ligurian; specifically, make (an apiary or a colony of bees) Ligurian by introducing Ligurian queen bees.

ligustrone (li-gns'tron), n. [Ligustrum (see def.) + -one.] A colorless bitter compound contained in the bark of Ligustrum vulgare. It erystallizes in needles, melts a little above 100° C., and boils at 260-280° C.

ship-worm.

lightning-beete (in fining-beete (in fining-b

Cayenne cedar.-Essence de likari. See linatoa-

2. In golf, a stroke which equalizes like 2 , n. the number played by the other side. like², adv. 5. As well as; as also.

I can counterfeit the deep tragedian; ...
Tremble and start at wagging of a straw, ... ghastly looks
Are at my service, like enforced smiles,
Shak., Rich. III., iii. 5.

Like a lamplighter, with long, rapid strides. Dialect Notes, II. vi. [Colloq.]—Like all possessed, as if bewitched. Dialect Notes, II. vi. [Colloq.]—Like anything, like everything, with such rapidity and intensity of effort as to preclude comparison. [Colloq.]

The Walrus and the Carpenter
Were walking close at hand:
They wept like anything to see
Such quantities of sand.
Lewis Carroll, Through the Looking Glass, Walrus and
[Carpenter, st. 4. The Walrus and the Carpenter

Like Sam Hill. Same as *like sin.—Like sin, intensely; very hard: as, to work like sin. [Slang.]—Like smoke. See smoke.

bfuish-gray color shown in the coats of some domesticated mice.—California lilac, the blue myrtle, Ceanothus thyrsiforus.—Cape lilac, in Australia, a variety of Metia Azedarach, the tree called white cedar by the colonists. See Metia.—Native Illac, in Tasmania, Prostauthera rotundifolia, a strong-smelling bush of the mint family, bearing quantities of deep-lilac-colored flowers.—Summer Illac, the dame's-rocket, Hesperis matronalis. See cut under rocket2, 2.

lilial (lil'i-al), a. [NL. *lilialis, < L. lilium, lily.] Designating plants of the lily kind or related to the lily: as, the lilial alliance. Lind-

related to the lily: as, the lilial alliance. Lind-

lignosity (lig-nos'i-ti), n. [lujnos(e) + -ity.] Liliales (lil-i-ā'lēz), n. pl. [NL. (Lindley, 1833), < Lilium + -ales.] A large order of monocotyledonous plants It includes the lily

family and 11 others, the most important being the Juncaceæ (rushes), Convallariaceæ (lilies-of-the-valley), Smilacaceæ, Amaryllidaceæ, Dioscoreaceæ (yams), and Iridaceæ. The lilial alliance of Lindley embraced only the Liliaceæ, and the Pontederiaceæ, the latter of which is now referred to the order Xyridales.

liliated† (lil'i-ā-ted), a. [L. lilium, lily, + -ate¹ + -ed².] Ornamented with lilies, especially with the lilies of France.

Lille pottery. See *pottery.

lillianite (lil'i-an-īt), n. [Lillian, name of a mining company in Colorado, +-ite2.] A lead sulphobismutite, Pb₃Bi₂S₆, which occurs in steel-gray crystalline masses: found in Sweden and in Colorado.

Lillienthal coefficients, See *coefficient,

lillikin (lil'i-kiu), n. [Also lellicins, lellokans; origin obscure.] A special size of pin the name for which began to be common in New England about 1775.

Harriot Paine . . had "corkins, middlings, short whites, tillikins, and lace pins."

A. M. Earle, Costume of Colonial Times, p. 186.

lilliputianize (lil-i-pū'shan-īz), r. t.; pret. and lilliputianized, ppr. lilliputianizing. make like the Lilliputians in size; dwarf.

lilt, r. i. 3. To sway up and down, as a bird on a spray.

Young—of a reddish face—with blue eyes, and he litted a little on his feet when he was pleased, and cracked his finger-joints. . . . He went to England, and he became a young man, and back he came, litting a little in his walk.

R. Kipling, A Sahiba' War, in Traffics and Discoveries,

lily. n.—Asa Gray's lily, Lilium Grani, a delicate plant with oblong-lanceolate leaves and long-peduncled red flowers tinged at the base and spotted within; found on the Peaks of Otter and on high mountain summits of North Carolina.—Barbados lily, the common name of Hippeastrum equestre, a member of the family Amaryllidacew. It is a globular bulb 2 inches in diameter, producing offsets, with brown scales and a short neck; the leaves on the Peaks of Otter and on high mountain summits of North Carolina.—Barbados Illy, the common name of Hippeastrum equestre, a member of the family Amaryllidaces. It is a globular bulb 2 inches in diameter, producing offsets, with brown scales and a short neck; the leaves are from 6 to 8 in number and develop fully after the flowers. It is an old garden-plant, and one of the best for winter and spring blooming. The varieties pleudens, fulgidum, and ignesseene are some of the more common forms of this species. The Rarbados Illy is found in the region extending hetween Mexico, Chile, and Brazil.—Beaver-Illy, the yellow pond-lily, Symphaea adsean. Also called beaver-root.—Bermuda Illy, the Easter Illy, a cultural form of Litium longiforum: so named because it is extensively grown in Bermuda.—Brisbane Illy, Eurycles Cunninghami, a Queenslamd plant of the amary lils family.—Bullhead Illy. Same as beaver-killy.—Canada Illy, L'ium Canadense. See lily, L.—Carolina Illy, Lilium Carolinianum, of the sontheastern United States, a rather showy species with orange-red flowers nodding on long peduncles, the long, acuminate, recurved perianth-segments parple-spotted below.—Chamise-Illy, the name on the Pacific coast of America for plants of the genus Erythronium. See Afanen-illy.—Chaparral-lily, a true illy, Lilium ruhescens, of the northern half of California in the Coast Range. It is stem sometimes rises 7 feet or more and often bears as many as 25 flowers, these at first pure white dotted with purple, soon pink, and finally of a deep ruby-purple. It is said to be the most fragrant of liles. Near the coast called reducood-lily in land by this name. Also ruby lily.—Cintonia lily, Clintonia borealis, a plant of northeastern North America related to the lily-ofthe-valley. See Clintonia.—Corn-lily, the small hind weed, Convolculus averenia.—Cow-lily, (a) Same as beaver-killy.—Hucklebular and seed of the Great Plains. It has been seed the seed of the Great Plains. It has seed to the lily.—Grand and Brown's also other species of

limen

lily, the day-lily, Hemerocallis fulva.—Liver-lily, the blue flag or flag-lily, Iris versicotor.—Lotus-lily, any species of Netumbo.—May-lily, the lily-of-the-valley.—Meadow-lily, Same as Canada *\lily.—Murray lily, Lilius Philadelphia lily, either the Canada lily or the American Turk's-ap lily.—Northern lily. Same as Clinton's *\lily.—Philadelphia lily, the red lily, Lil. imm Philadelphia lily, the red lily, Lilius Philadelphia lily, (a) Either of the two species of Cooperia, C. Drummondii and C. pedunculata, of the southwestern United States and Mexico. They are bulbous annaryllidaceous plants, with narrow, grass-like commenses and one-thowered scapes, the large terminal flower having a salver-form, white or pinkish perianth. (b) Same as gunebo *\lily.—Red lily, Lilium Philadelphia lily, Lilium Philadelp

eommonest and most attractive of American lilies. The flowers are red or orangered, the perianth segments reflexed and purple-spotted below. The southern red lily is L. Catesbæi.—Redwood-lily, See chaparrad-*kily.—Rice-root lily, Same as *mission-bells.—Ruby lily. See chaparrad-*kily.—Snake-lily, the blue flag, Iris versicolor.—Spear-lily, See spear-lily.—Spear-lily, the spiderwort, Tradescantia Virginiann.—Spotted lily,

the spiderwort, Tradescantia Virginians.—Spotted lily, in the West Indies, Cordyline hyacinthoides: so named hyacinthoides: so named hyacinthoides: so named spotted leaves. See (From Britton and Brown's Sansevieria.—Spring lily, the white dog-tooth violet or Northern States and Canada.") adder's-tongue. Erythronium albidum, which flowers in early spring.—Straw-lily, the sessil-eleaved beliwort, Ucularia sessilifolia.—Trinity lily, the large-flowered wake-robin, Trillium granditorum.—Tront-lily, the yellow dog-tooth violet or adder's-tongue, Erythronium Americanum.—Yellow lily. (b) In Tasmania, same as natice & leek. native *leek

lily-disease (lil'i-di-zēz"), n. See *discuse. lilywort (lil'i-wert), n. A plant of the lily family.

lim, n. and v. t. A simplified spelling of limb. limacin (lim'a-sin), n. [L. limax, snail, + -in².]
An organic substance obtained by Braconnot from the garden-snail (Limax agrestis).

limacodid (lim-a-kō'did), a. and n. I. a. Having the characters of or belonging to the lepi-

dopterous family Limacodidæ.

II. n. A member of the family Limacodida lima-lima (lē-mä'lē-mā'), n. [Tagalog limu-limu, a reduplication of lima, five, = Bisaya lima = Samoan, etc., lima, Maori rima, five.] See *galamai-amo.

liman (lē-män'), n. [Russ. limanŭ, an estuary, = Turk. liman, harbor, ζ NGr. λιμάνι, Gr. λιμήν, harbor.] A marsh, usually salt, at the mouth of a river; especially applied to the delta of the Dnieper river, Russia.

Limanda (li-man da), n. [NL., \lambda L. limus, mud.] A genus of flounders found on both coasts of northern North America and in eastern Asia: known as "dabs." Lima oil. See *oil.

Limatula (lī-mat'ū-lä), n. [NL., dim. of Lima.] A genus of Jurassie prionodesmaceous pelecy-pods, characterized by valves which are medially ribbed, laterally smooth, and without lime-liniment (lim'lin"i-ment), n. A mixture

limb¹, n. 6. In gcol., that portion of an anticline or syncline which lies on either side respectively of the arch or trough. Also ealled leg and flank.—Pectoral limb, pelvic limb. See pectoral, pelcic. limb², n. 4. In bot.: (b) The blade or broad part of a leaf.

limbation (lim-bā'slign), n. [NL. limbatio(n-), ∠ L. limbatus, edged, bordered, ∠ limbus, edge: see limb².]
 1. The formation of a distinct border or margin.—2. A margin or border. Smithsonian Rep. (Nat. Mus.), 1897, p. 331.

limber-hook (lim'ber-huk), n. Same as nintle-

limber-passage (lim'ber-pas"āj), n. nel on each side of the keelson of a wooden vessel to permit the bilge-water to flow to the pumps. Same as limber 2, 3. See ent under pumps. $kecl^1$, 2.

limber-plate (lim'ber-plat), n. Same as limber-board.

 $\limsup_{n \to \infty} n$.—Limbo of fools ($limbus\ fatuorum$), a fools paradise.

limbo² (lim'bō), n. [Zulu ulembu. web.] A kind of coarse cotton cloth worn by South Africans.

limbous (lim'bus), a. [NL. *limbosus, < L. limbus, edge; see limb².] Having a definite border.

of calcium carbonate greater than could be taken up by the water alone. It is very doubtful whether such an acid salt really exists; it has never been obtained in separate form.—Canstle lime, calcium hydroxid; also, calcium oxid.—Chlorid of lime. Same as bleaching-powder. It probably has the composition Ca- \{(1)\): not to be controlled with a blirth of the confounder with a blirth of the confounder with a blirth of the calcium oxid.

It probably has the composition Ca-{ClO.: not to be confounded with chlorid of calcium (Ca Cl₂). See calx chlorata, under calx1.— Dead-burnt lime. See **dcad-burnt.—Dead lime, a lime that does not slake with water: opposed to quicklime.— Lime cylinder, lime in the form of a cylinder which is from time to time revolved, and upon which a jet of oxylydrogen flame is thrown in producing the so-called calcium light.— See **cask.— Lime uranite. Same as **autunite.— Overhurnt lime, lime uranite. Same as **autunite.— Overhurnt lime, lime ande from limestone containing silicious matter, such as clay, and heated so strongly in the kiln that silica and alumina have entered into combination with a part of the lime, causing it to slake slowly and imperfectly.— Permanganate of lime, the chief ingredient in the mixture recommended by Crookes for use in purifying the dangerous drinking-water which was encountered by British troops in the Ashanti campaign of 1873-74. The mixture, intended also to clarify the water, consisted of 1 part of lime (or calcium) permanganate, 10 parts of aluminium sulphate, and 30 parts of fine clay.— Vienna lime, a mixture of caustic potash and slaked lime used surgically as an escharotic, and also in scouring metals to remove grease. See Vienna caustic.

lime 3.—Finger-lime, Citrus Australasica, a small tree of eastern Australia, bearing stender thorns, and elline.

metals to remove grease. See Vienna caustic.

lime3.— Finger-lime, Citrus Australasica, a small tree of eastern Australia, bearing slender thorns, and ellipsold or almost cylindrical fruits, 2-4 inches long, tasting like lemons.—Native lime, in Australia: (a) The finger-lime; (b) An evergreen tree, Citrus australis, which reaches a height of from 30 to 50 feet and hears globular, acid fruits about the size of walnuts. Its beautiful light-yellow wood is hard, close-grained, and takes a high polish. Called also native orange.—Queensland lime, Citrus nodora, bearing sharply acid fruits and inodorons flowers.—Lime-oil. See *wil. lime-berry (lim'ber'i), n. In the East Indies, same as *lime-nug* (lim'bus), n. A scale-insect found.

lime-bug (līm'bug), n. A scale-insect found on the lime-tree, either Eulecanium tiliæ or Pulvinaria tiliæ.

lime-coal (līm'kōl), n. Small coal used for lime-burning: one of the grades formerly made at collicries in the cast of Scotland.

lime-craig (līm'krāg), n. Limestone rock in situ: the face of a limestone quarry. [Scotch.] lime-juicer, n. Hence-2. A British ship on which the lime-juice law is carried out.

The working of the ship, the life of the men, their trials and amusements are all combined in the story; in fact, the book gives a better idea of the life on a "lime-juicer" than any previous work we have seen.

Forest and Stream, Feb. 21, 1903, p. 153.

3. In Australia, a new-comer; one who has made the voyage on a lime-jnieer; a greenhorn; a 'new chum.'

or emplsion consisting of equal parts of a solution of lime or lime-water and linscedoil: earron-oil: used for burns.

lime-mud (lîm'mnd), n. Same as *lime-sludge. lime-myrtle (līm'mer"tl), n. In the West Indies, Triphasia trifoliata. See Triphasia.

limen (lī'men), n.; pl. limens (-menz), L. limina (lim'i-nä). [L. limen, threshold.] 1. In exper. psychol. and psychophys., the threshold: the dividing line between noticeableness and unnoticeableness of stimulus. The linen is dennnoticeableness of stimulus. The linen is defined in physical or physiological terms as that amount of
stimulus or degree of excitation (or as that stimulus
difference or difference of excitation) which, after complete elimination of all errors, remains just noticeable to
an accurate observer; or again as that amount of stimulus (or stimulus difference) which, after elimination of
constant errors, remains just noticeable to the observer
in one-half of a long series of observations. The term
may be applied to any one of the four possible aspects of
stimulus and excitation (intensity, quality, duration, extension), and to any stimulus that serves as the condition
of mental state or process; so that we may speak of the of mental state or process; so that we may speak of the intensive limen, the temporal limen, the affective limen, the limen of attention, etc. It is clear that the correlate of the limen, upon the mental side, is not a part of real experience, not a state or process that can be ideated and remembered and voluntarily reproduced: liminal values are always ideal values.

The object of these experiments was to determine the limens of approach and recession of the fixation-object for various distances.

Amer. Jour. Psychol., April, 1903, p. 173.

The term limen (Schwelle, threshold) was introduced into psychology by Herbart in 1811; a liminal stimulus,

re luminal stimentas diference, is that which lifts the generation or the sense-difference over the threshold of the control o

parable in origin and mode of formation to the organic deepsea oczes which cover the floor of the present reams.—Presh-water limestone, a compact deposite remains of fresh-water algo, shells, and Entomostraca.—Glenrose limestone, a subdivision of the Lower Cretaceous beds in Texas constituting the middle part of the Trinity formation, underlain by the Trinity sands and overfain by the Palmxy sands.—Grenrulle-data, the chief member of the Grenville series: Precambrian in age. In it was found the supposed enry fossil Ecozion cenadense.—Gutenstein limestone, a subdivision of the Trinists eavier in the northern Alpine basin in upper and lower Austria, which is underlimentone, and equivalent to the lower Muschelkalk of Germany.—Hippurite limestone, a limestone which contains in abundance the singular pelecypod genus Mippurites. Such beds occur at various horizons in the Upper Cretaceous strata and give a distinctive facies to the Chalk facies. The beds with Hippurites are highly developed in southern Europe, where they have been rather closely subdivided according to the prevailing species. They also extend into southern Asia, and a lippurite limestone has been determined in the Lower closely subdivided according to the prevailing species. They also extend into southern Asia, and a dimensione beat composed of shells (mostly the brachloped Pentamerus) and intercalated in the May Hill sandstone (Upper Handwery).—Hose and Handwers of the Hill shell and in the Handwery and the reads of the series and consists in some parts of sheets of lithodendron consists in some parts of sheets of lit

Ilimestone

and various local sames have been given them. In places they are of greater they are dependent of the places they are dependent of the places they are dependent of the places they are dependent of a limit of boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or boundary.

Immittal (lim'i-tal), a. Pertaining to or of the nature of a limit or of a li

gases or absorbing from them acid gases or gases or absorbing from them acid gases or vapors. It consists of an upright cylinder of glass, with two tubulines, one at the top, the other at one side at the bottom. This being loosely filled with fragments of line, the gas is brought in at the one tubulure, usually at the bottom, and drawn out at the other, and is thus brought into contact with a large surface of line, which acts as a drying and purifying agent. The same apparatus is often filled with calcium chlorid instead of line when desiccation only is desired. tion only is desired.

tion only is desired.

limettic (li-met'ik), a. [NL. limetta (Citrus limetta) + -ic.] Noting an acid, a crystalline compound, C₁₁H₈O₆, obtained by the oxidation of oil of limes or oil of rosemary. It is crystalline and volatilizes without decomposition.

limettin (li-met'in), n. [NL. limetta + -in².] $A \, colorless \, compound, (CH_3^{3.5}O)_2C_6H_2 \Big< \underbrace{CH=\overset{i}{C}H'},$ contained in the ethereal oil of Citrus limetta. It crystallizes in small prisms or needles melting at 147.5° C.

liminal, a. Specifically-2. In psychophys. pertaining to the stimulus limen or differential limen. See *limen.

We may also introduce the concept of the linen, defining the just noticeable deviation from indifference as a timinal pleasantness or unpleasantness.

O. Külpe (trans.), Outlines of Psychel., p. 243.

The average liminal value obtained in these preliminary

series gives us a norm or standard for the later work.

E. B. Titchener, Exper. Psychol., L 1. 85.

liminary (lim'i-nā-ri), a. [L. liminaris, < limen, threshold: see liminal.] Being at the threshold; introductory; preliminary.

liming-box (li'ming-boks), n. A vessel for holding a thin solution of lime to be used in the process of bleaching cotton cloth and the like

liming-machine (lī'ming-ma-shēn"), n. bleaching, a machine for washing cotton cloth in a solution (or milk) of lime.

limit, n. 7. In poker, an amount, agreed upon before play begins, by which any one player may increase his bet over that of another. Sometimes called the raise.—Limit class, a class or division limited to animals possessing certain qualifications or characters: mually employed with reference to some exhibition or contest in which prizes are given.—Limit of resolution, the smallest visual angle which two points may subtend if they are to be separated in the image formed in the eye or by any optical instrument. The actual limit for the eye is about a minute of arc; for a telescope having an objective of 20 centimeters in diameter it is 0.7 seconds of arc.—Natural limit, a limit beyond which the series representing a fuoction cannot be continued.—The limit, the atmost that is possible; the worst there is; as applied to a person, one so queer or so objectionable as to be almost beyond toleration. [Colloq.] limit, n. 7. In poker, an amount, agreed upon

"What with your spook horses and cats you've got me going, I can tell you. You're the limit. You — you —" he sputtered, so furious he could not finish the sentence.

C. S. Pearson, Romance of the Race Course, iv.

Uniform limit, in math., a one-valued limit. limit, v. t.-Limiting point. (b) See *point1.

limnanthaceous (lim-nan-thā'shius), a. Be longing to the plant family Limnanthaccæ.

Limnatis (lim-nā'tis), n. [NL., an error or altered form for *Limnitis, < Gr. λιμνῆτις, fem. aftered form for *Limnitis, \(\) Gr. \(\lambda \text{\(\lambda \)}}}} \)}}}}}}}}}}}}}}}}}}}} \)} \) of the modern of the modern}}}}}}} \) of the modern of the modern of the modern of the

In phylogeog., same as *limnetic.

These all, with floating stems and leaves, form with Eleocharis interstincta, E. mutata, and E. cellulosa a mingling of the Hydrocharidian and Limnaran classes of hydrophytes.

C. Mohr, Plant Life in Alabama, p. 126.

limnemia, limnæmia (lim-në'mi-ä), n. [NL. limnæmia, ζ Gr. λίμνη, marsh, + αίμα, blood.] Malarial cachexia.

limnemic, limnæmic (lim-nē'mik), a. [lim-nemia + -ic.] 1. Relating to or suffering from malarial cachexia.—2. In biol., adapted to live in marshes or marshy places.

Limnerpeton (lim-ner pē-ton), n. [NL., ζ Gr. λίμνη, marsh, + ἐρπετόι, reptile.] A genus of branchiosaurian Amphibia with naked body and broad frog-like skull, from the Permian rocks of Bohemia.

limnetic (lim-net'ik), α. [Gr. λιμνήτης, living in marshes, + -ic.] 1. Living in fresh in marshes, + -ic.] 1. Living in water; pertaining to fresh-water life.

The development of timnetic copepods.

Amer. Nat., July, 1903, p. 503.

Specifically-2. Noting the free-floating or free-swimming microscopic organisms found in rivers, lakes, pools, and other bodies of fresh water. Sometimes used synonymously with pelagie.

The limnetic or pelagic organisms are those that make their home in the open water. They float or swim freely and are drifted about by every current. . . Then there are organisms that may be said to be facultative timnetic forms, that is, they are sedentary or free-swimming at will.

G. C. Whipple, Microscopy of Drinking-water, p. 105. Limnetic plankton. See *plankton.

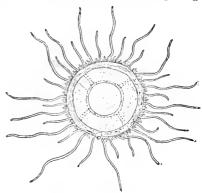
limnigraph (lim'ni-graf), n. An erroneons form of *limnograph.

limnimeter (lim-nim'e-tér), n. An erroneous form of *limnometer.

limnimetric, a. An erroneous spelling of *lim-

limnobatid (lim-nob'a-tid), n. and a.

ing to the family Limnobatidæ. limnobiologic (lim"nō-bī-ō-loj'ik), a. [limno-



Limnocnida, from the oral surface (after Günther), (From Lankester's "Zoology.")

of fresh-water hydromedusans known only from Lake Tanganyika.

Limnocodium (lim - no - ko ' di - um), n. (Gr. λίμνη, marsh, lake, + (?) κώδιον, a fleece. A genns of Hydromedusæ occurring in fresh





A. Limnecodium as seen floating; about three times natural size. MR, marginal nerve and cuido-blast ring; Ve, velum; PT, perradial tentacle. (After Lankester.) B, polyps of Limnecodium on weed, (After A. G. Bourne.) (From Lankester's "Zoology.") d, Limnocodium as

water and found up to the present time only in the Victoria regia tank of the Royal Botauical Society of London.

The discovery and description of the Okapi, Cenolestes, Nyctotherus, Rhabdopleura, Cephalodiscus, Linnocodium, and Pelagohydra, . . . were the work of British zoologists. Rep. Brit. Ass'n Advancement of Sci., 1903, p. 673.

limnogram (lim'nō-gram), n. [Gr. λίμνη, marsh, lake, + γράμμα, a writing.] The curve of height of water for each moment of time as recorded automatically by a limnograph.

limnograph (lim'nō-grát), n. [Gr. λίμνη, marsh, lake, + γράφειν, write.] An apparatus for keeping a continuous record of the height of water, especially in a lake. See *limnometer.

In order to study the seiches in Loch Ness, a limnograph, constructed in Geneva under the supervision of Dr. Ed. Sarasin, was set up. Nature, Jan. 7, 1904, p. 236.

hamboatid (hin-nor n-tid), n. and a. 1. n. Sarasin, was seen.

A member of the heteropterous family Limnobatidæ.

II. a. Having the characters of or belonging to the family Limnobatidæ.

III. a. Having the characters of or belonging to the family Limnobatidæ.

III. a. Having the characters of or belonging to the family Limnobatidæ.

III. a. Sarasin, was seen.

Imnologic (lim-nō-loj'ik), a. [limnology. Smithsonian Rep., 1898, p. 506.]

III. a. Sarasin, was seen.

III. a. Sarasin, was seen.

III. a. Ilimnologic (lim-nō-loj'ik), a. [limnologic limnologic]

Rep., 1898, p. 506.

III. a. Sarasin, was seen.

*limnologie.

limnology

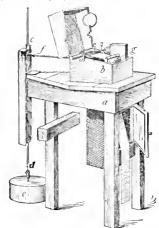
limnology (lim-nol' δ) ji), n. [Gr. $\lambda inv\eta$, marsh, lake, pond, $+ -\lambda v_i'a_i < \lambda \hat{\epsilon}_i \epsilon iv$, speak.] The scientific study of lakes and ponds, with especial reference to the organisms which live in them.

in them.

In the last quarter of the 19th century the study of lakes was raised to the rank of a special science, mainly by the exertions of Prof. F. A. Forel, to whom is due the generally accepted name tunnology. Linnology includes the complete study of lakes, geographical, physical, chemical, and biological, so conducted as to throw light on the mutual relations of all the natural conditions affecting them.

Energy, Brit., XXX, 271.

limnometer (lim-nom'e-ter), n. [Gr. Σίμνη, a marsh, lake. + μετρω, measure.] A form of



Sarasin's Limnometer.

a, table supporting box \(^k\), containing the self-registering apparatus, whence a rotating rod \(^f\) extends to a pulley-wheel near \(^k\), around which is wound a flexible copper band attached to the rod \(^d\), and moving with the float \(^e\) which is surrounded by a large cylinder (not shown in figure), to ward off objectionable waves, riples and winds. The rotations of \(^f\) are recorded on a long sheet of paper wrapped about the roller \(^k\), which revolves by clockwork.

tide-gage, first devised by Forel and Sarasin for recording small oscillations in Swiss lakes and applied by Nakamura and Yoshida to tidal oscillations in Japanese harbors; specifeally, Sarasin's limnometer of 1901, which is properly a *limnograph (which soe).

limnometric (lim-nō-met'rik), a. [Also limnimetric; ⟨Gr. λίμνη, marsh, lake, + μέτρον, measure, + -ic.] Pertaining to the measurement of bodies of fresh water, such as lakes or ponds.

A Federal hydrographic office has, with the help of some Cantonal governments, spread over the territory of Switzerland a net of limnimetric stations, where observations on the slope, depth, discharge, width, and variations of the watercourses are regularly carried on.

Geog. Jour. (R. G. S.), IX. 318.

The following table gives some of the *limnometric* values communicated by the author or obtained provisionally from the material now available.

Geog. Jour. (R. G. S.), XVI. 219.

limnophilid (lim-nof'i-lid), n. and u. I. n. A member of the triehopterous family Limnophilidæ.

II. a. Having the characters of or belonging to the family Limnophilidæ.

limnoplankton (lim-nō-plangk'ton), n. [NL., ⟨Gr. λίμνη, marsh, lake, + NL. plankton.] The floating and swimming organisms of fresh water, considered collectively and as contrasted with the floating and swimming fauna an'l flora of the ocean, or haliplankton. See *haliplankton.

The totality of the awimming and floating population of the fresh-water may be called limnoplankton, as opposed to the marine haliplankton which we here briefly

osed to the man solution and the light plankton.

Haeckel (trans.), Planktonic Studies, in Rep. U. S. Fish (Com., 1889-91, p. 580.

limon² (lē-môn'), n. [F. limon, OF. limun, (ML*limo(n-), (L. limus, mud, slime: see lime1 and limous.] A deposit of detritus along the borders of rivers; loess.

At the foot of the Alps, where black schists are largely developed, the loess is dark gray; but west of the secondary chain the same deposit is yellowish and composed almost entirely of silicious materials, with only a very little carbonate of lime. This limon, or loess, . . . is generally modified towards the top by the chemical action of rain.

Smithsonian Rep., 1890, p. 226.

limoncillo (lē-mon-thēl'yō), n. [Sp. dim. of limón, lemon.] 1. In Porto Rico, any one of several trees of the myrtle family, especially Pimenta racemosa, from the leaves of which is distilled the oil used for making bay-rum.—
2. In the southwestern United States and Mexico, any one of several species of Pectis,

especially P. papposa, P. diffusa, and P. uni-aristata, small, yellow-flowered composites, with linear glandular-dotted leaves, and a strong odor of lemon. In many localities these plants are used for making beverages and are administered in the form of decoctions as a remedy for fever and ague and for other maladies. Also called lemonweed and romerillo.

limoncito (lē-mōn-thē'tō), n. [Sp. limoneito, diminutive of timón, lemon.] In the Philippine Islands, Guam, and on the west coast of Mexico, the orange berry, Triphasia trifoliata, a shrub with glossy, dark-green, trifoliate leaves, white flowers with the fragrance of hyacinth, and globular berries of an orangescarlet color filled with a somewhat gummy, bitter-sweet pulp, which has the flavor of euração liqueur. The plants send up many shoots from the root and form dense thickets if undisturbed. They are much used for hedges, and from the fruit marmalade and jelly are made, of an orange-like flavor, but having a constipating effect if eaten in any quantity. Also called limoncito de China and lemoneito.

Dense thicket of lemoncito (Triphasia aurantiola) not now in bloom, thorny shrubs with glossy trifoliate leaves, sending up shoots from the roots and consequently well adapted for hedges. Found a few lemoncito herries remaining on the bushes, orange-scarlet in color, filled with a somewhat gummy, bitter-sweet pulp, with a flavor like Curaçoa liquor.

limonene (lī'mō-nēn), n. [NL. limonum, Inmonene (li'mō-nēn), n. [NL. limonum, lemon, +-ene.] 'A general term applied to certain terpenes, C₁₀H₁₆. The dextrorotatory derivative is also called hesperidene, carrene, and citrene. The inactive compound is termed dipentene, cajuputene, cinene, diisoprene, isoterchene, etc.

limonillo (lē-mō-nēl'yō), n. [Amer. Sp., dim. of Sp. limón, lemon: see lemon.] A composite plant, Picradenia odorata, of the southwestern United States. It exhalss the odor of lemons

United States. It exhales the odor of lemons. Also limonilla.

limonitization (lī/mo-nī-ti-zā'shon), n. [limonite + -ize + -ation.] In petrog., the change of a mineral or rock into limonite.

of a mineral or rock into moniton.

Limonium (lī-mō'ni-nm), n. [NL. (M.ller, 1759) (L. limonion, lemonion), < Gr. λειμώνιον, sea-lavender or snakeweed, prop. neut. of λειμώνιος, adj., < λειμών, a moist meadow.] A genus of dicotyledonous plants of the family

Plumbaginaceæ.
Limont limestone. See *limestone. limophthisis (li-mof'thi-sis), n. [NL., \langle Gr. $\lambda \mu \nu \rho$, hunger, $+ \phi \theta i \sigma \nu \rho$, wasting.] Emaciation due to inability to take sufficient nourishment.

limotherapy (lī-mō-ther'a-pi), n. [Gr. λιμός, hunger, + ψεραπεία, medical treatment.] The treatment of disease by reduced diet.

limousine (lim-ö-zen'), n. [F., fem. of limousin, a., of Limousin (or Limoges).] 1. A cloak of goats' hair or coarse wool worn by peasants and wagon-drivers.—2. A type of automobile body, in which the rear seats are inclosed by fixed sides, back, and top. The front seats are commonly separated from the rear part of the body hy movable glass windows.

limpet-hammer (lim'pet-ham "èr), n. prehistoric archwol., one of the oblong flak-ing-hammers found in kitchen-middens and Lindley, professor of botany at the University helieved to have been used to knock limpets off rocks.

limu (lē'mö), n. [= Polynesian limu, or rimu, moss or seaweed, Chamorro and Malay lumut.] Throughout Polynesia, a generic name for Thronghout Polyhesia, a generic name for mosses and seaweeds. —Limu fuafua, in Samoa, Caulerpa clavifera, an alga with a pepper-like taste similar to that of Laureneia pinnatifida: used by the natives for food and said to be much relished by turtles.—Limu Ilpoa, in Ilawaii, Dictyopteris playiogramma, the favorite seaweed of the natives, who always have it at their feasts and celebrate it in their songs.

limule (lim'ūl), n. [NL., < Limulus.] A king-

erab, Limulus. limulid (lim'ū-lid), n. One of the Limulidæ. $\lim_{lind^1} (\ln lin), n.$ A provincial pronunciation of

linage² (lī'nāj), n. [Also lineage; \langle line² + -age. Compare lineage¹.] 1. Lining; arrangement in line.—2. In printing: (a) The [Also lineage; < line2 + quantity of matter estimated in lines. Payment or rate of payment by the line.

linaloa-oil (lin-a-lō'ā-oil), n. See ★oil. linalool (lin-a-lo'ol), n. [linaloa + -ol.]

name of two chemical compounds, differing in their effect on polarized light. The dextrorotatory isomer is identical with coriandrol. The levorotatory derivative, which is also called licareol, is contained in linaloa-oil, from the white cedar of Cayenne, and in

the oils of spike, lavender, thyme, sassafras-leaf, and many other plants. It is a colorless liquid, boiling at $190-195^\circ$ C.

linamarin (li-nam'a-rin), n. [L. linum, flax, + amarus, bitter, + -in.] A bitter glucoside contained in Linum usitatissimum. It erystallizes in needles, melts at 134° C., and yields hydrocyanic acid when hydrolyzed.

Linc., Lincs. Abbreviations of Lincolnshire. linch3 (linch), v. t. [linch(-pin), n.] To fasten

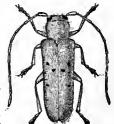
with a lineh-pin. linerusta (lin-krus'tä), n. [lin(seed-oil) + L.

crusta, erust.] A trade-name for a kind of linoleum or oil-cloth, embossed and colored in various designs, intended as a covering for the surface of walls and ceilings. It is made with wood-fiber, oxidized linseed-oil, resinons matter, and pigment. In full, linerusta Walton. lindackerite (lin-dak'e-rit), n. [G. Lindaeker, name of the first analyzer, + -ite².] A hydrous arseniate and sulphate of copper and niekel, occurring in green tabular crystals and reni-

occurring in green tabular crystals and reniform masses: from Joachimsthal, Bohemia. Linden inchworm. See *inchworn.—Linden leafbeetle. Same as *ladder-beetle.—Southern linden, Tilia pubescens, a small tree of the eastern United States, chiefly southward, but ranging from Long Island to Florida and Texas. It has small leaves, often not heartstaped, and sometimes densely woolly beneath.—White linden, the white basswood, Tilia heterophylla, a large tree of the Appalachian region, having large leaves which are white beneath and have a fine downy pubescence.

linden-borer (lin'denbor er), n. An Ameriean cerambycid beetle, Saperda vestita, whose larvæ bore into the trunks and branches of the basswood or linden.

linden-worm (lin'denwerm), n. Any one of several lepidopterous larvæ which feed on the foliage of the linden, notably the larva of the lime-tree wintermoth (which see, under



Enlarged one half.

winter1), the larva of the notodontid Datana ministra, and that of the pyralid Pantographa

Lindernia (lin-dér'ni-ä), n. [NL. (Allioni, 1755), named in honor of F. B. von Lindern (1682-1755), a German botanist and physician.] A genus of plants of the family Scrophulariaceæ. See Vandellia, bitter-blain, and *haimarada.

lindesite (lin'dēz-īt), n. Same as *lindsayite. Lindia (lin'dē-ā), n. [NL.] A genus of freshwater rotifers, of the family Notommatidæ. The body is elongated and cylindrical, with a projecting tail, but not annulose, the corona is obliquely truncated, the head bears auricles, and the trophi are virgate. Also Notom-

lindiform (lin'di-fôrm), a. [Lindia + L. forma, form.] In entom., having the shape of the genus of rotifers Lindia: said of certain insect larvæ.

Lindley, professor of botany at the University of London, 1829-60, and author of a "Natural System of Botany," which was published in several editions, the first in 1830. The system was hased on that of De Candolle. It was characterized by the use of a new style of nomenclature, with uniform suffixes, from which corresponding English terms were formed. formed.

The discovery of the exogenous structure in many Carboniferons Pteridophytes (Calamites, Stigmaria, Sigillaria, even Lepidodendron) overthrew the old *Lindleyan* classification into endogens and exogens, which was supposed to be fundamental.

Science, July 1, 1904, p. 26.

lindoite (lin'dō-it), n. [Lindö, an island near Christiania, Norway, + -ite².] In petrog., a name given by Brögger to certain fine-grained syenites, sometimes having a trachytic tex-ture, composed chiefly of alkali-feldspar, with little or no ferromagnesian constituents. They are in part highly feldspathic facies of solvsbergite. Rosenbusch classes them with bostonites.

Lindsæa (lind-zē'š), n. [NL. (Dryander, 1793), named after John Lindsay, a surgeon in Jamaica.] A genus of small polypodiaceous ferns of the tribe Davallieæ, with mostly pinnate or bipinnate fronds, having oblong or lunate, unilateral pinnæ or pinnules with linear marginal sori borne in a continuous or intermeted line at the summit of the radiate interrupted line at the summit of the radiating forked veins, and uniting two or more of them. There are about 30 species, mainly tropical, in appearance closely resembling Adiantum of the tribe Pterideæ, but readily distinguished by the presence of a special indusium attached on the interior side, forming with the plane margin a bilabiate furrow within which the sori are borne.

lindsayite (lind'zā-īt), n. [From a proper name, Lindsay, + -ite².] See *lepolite.

line², n. 4. Specifically—(b) pl. In naval arch., the form of a vessel as shown by the lines formed by the intersections of its the lines formed by the intersections of its surface with three sets of parallel planes. The intersections with the transverse vertical planes give the square stations or frame-lines corresponding to the frames shown in their true form in the body-plan; the intersections with the horizontal planes give the water-lines or level-lines shown on the half-breadth plan; and the intersections of the vertical longitudinal planes give the bowand buttock-lines shown on the sheer-plan. Besides these three sets of planes, diagonal planes are used to assist in defining the form by the diagonal lines (which see, under **liagonal**). See cut showing the lines of the forward half of a vessel, under forebody.

18. In elect.: (a) Short for line of magnetic force. See magnetic **circuit* and magnetic **circuit* and magnetic **circuit* and magnetic **circuit**.

force. See magnetic *circuit and magnetic force, under magnetic.

This machine has a flux of 2,100,000 lines. At this flux the density in the pole piece will be 2,100,000 divided by 47½ equals 44,210.

Practical Electricity, p. 68.

(b) That part of an electric circuit which connects generaling and receiving stations or apparatus. It may be overhead and consist of electric conductors supported by insulators on poles and brackets, or it may be underground and consist of insulated cables.

19. In fencing, that part of the body directly opposite to the enemy, in which the central part of the right side, the right arm, and the sword ought always to be found, and in which are also to be placed the feet, at the distance of 18 inches from each other. In this sense, a fencer is said to be in his line, to go out of his line, etc. Chambers .- 20. In printing, a straight row of type or of print as it appears in the page of a book or the column of a newspaper. With letters or characters it is a line of print; without them it is a white line; if partly print and partly blank it is a broken line.

21. In boat- or yacht-racing, an imaginary line extending between two fixed points and marking the beginning or end of the course, or both .- 22. In art, the conventional representation of the theoretical limits of surfaces or of their elements. It is usually a mark made by a dark substance upon a light one; but the reverse may be true. It may represent the contour of an object, in which case it is called outline, or the direction of action, or be simply decorative. A acries of lines may give the impression of light and shade, as in engraving or etching.

decorative. A acries of lines inay give the impression of light and shade, as in engraving or etching.

At the present time all criticism of art is determined by the "line." All caprices and whims of the "line" are now ridden as much to death, and with the same enthuslasm, as were formerly those of "light."

Encyc. Brit., XXXII. 448.

All along the line. (a) Milit., from one end to the other of the line in a military formation. Hence—(b) At every point.—Baillarger's line, a band of nerve-fibers in the cortex of the brain. Also called Baillarger's larger. Encyc. Brit., XXXII. 544.—Basal lines. Same as basal **Atraights.—Blackiston's Line, an imaginary line passing through Taugaru Strait, between the main island of Japan (Hondo) and the island of Hokkaldo (formerly called Yezo), separating the temperate and semitropical fauna of southern Japan from its subarctic fauna. This line marks the northern limit of moukeys, pheasants, cat-fishes, and numerous other forms of life of warm regions.—Black line. See **blood.** *blue.—Bottom-set line. Same as **bottom-line.—Break line. See **full (ine (b).—Brocard line. Same as **Bocard **straight.—By line, with perfect accuracy.

fect accuracy.

Yes, sir, to carry quarrels,
As gallants do; to manage them by line.

As part of the Alchem

As gallants do; to manage them by line.

B. Jonson, The Alchemist, ii, I.

Center-line. (a) See *center-line. (b) In ship-building, the central fore-and-aft line of a vessel at any level: loosely used for the central vertical longitudinal plane.—
Conjugate lines on a surface, in geom., lines whose directions at any point are those of the conjugate diameters of the Indicatrix at that point.—Dimension lines, the lines on a mechanical drawing which indicate the points or planes whose distance apart is expressed by a given dimension. These lines are drawn very lightly, or with colored ink, to distinguish them from the outlines of the figure.—Douglas's line. See Douglas's *fold.—Dressed line, backled flax, consisting of the long fibers. Nearly all of the best grade of long fiber. "dressed line"

Dressed line, hackled flax, consisting of the long fibers.

Nearly all of the best grade of long fiber, "dressed line," is used for making twines, yacht cordage, etc.; cheaper grades are made into binder twine.

Yearbook U. S. Dept. Agr., 1901, p. 542.

Enhanced line, a line which is made more conspicuous relatively to other lines in the same spectrum by substituting a strong electric spark for the electric are in producing the spectrum. It has been very generally assumed that the spark is hotter than the are and that the enhancement is due to the increase in temperature, but this is not true in all cases.—Euler's line. Same as Euler's straight.—Patre's line, a whitish mark on the ovary indicating the line of attachment of the mesovarium.—Fast line, in surv., a line determined in position and

measured.— Frégier line. Same as Frégier ★straight.— Halleyan line, an imaginary line which passes through all points on the earth's surface that have the same magnetic declination; an isogonic line.—Influence line, in engin. a line or curve having as abscisse the distances of a load from one end of a girder and as ordinates the bending moment or shear due to the load.—In line, in state begaling the property of the load.—In line, in stock-breeding, from a particular or definite family: as, to breed in line.

Seek your stock bull with little regard to whether he is bred strictly "in line" or not. Don't be afraid of any good outcross.

Rep. Kan. State Board Agr., 1901-02, p. 56.

Rep. Kan. State Board Agr., 1901-02, p. 56.

Isopiestic line, in thermodynam, a curve showing the relation between volume and temperature in a body or system the pressure of which remains constant; an isobar.—Lemoine line. Same as Lemoine **straight.—Light water-line. See **water-line.—Line-complex. See **complex.—Line-of-battle ship. Same as ship of the line (which see, under ship).—Line of departure, in quanery, the line in which a projectile is moving when it leaves the muzzle of the gun.—Line of march, the ronte followed, as by a column of troops or other body of people.—Line of regard, in optics, the line of vision or line of sight.—Line of slope, on a surface, the line of least inclination to the horizontal plane.—Line of syzygies, in astron., in an orbit, the diameter containing the syzygies.—Line of Vicq d'Azyr, a continuation, near the calcarine fissure, of the line of Baillarger. Also called Vicq d'Azyr so and.—Line of weakness, in goot., a line of disturbance on the earth's surface, so called because along it relief has been afforded for internal strains. Lines of weakness are marked by upheavals (as of mountains), faults, and volcances.—Line with intervals, a line of forts, redouts, or other disconnected field-works.—Loaded line, in elect., a telephone-line or cable in which distributed inductance is made to counteract distributed capacity, thus improving the conditions for the transmission of speech.

To the electrical engineer there is no such word as "fail," and the "loaded line" in which objectionable in-

ductance is made to counteract distributed capacity, thus improving the conditions for the transmission of speech. To the electrical engineer there is no such word as "fail," and the "loaded line" in which objectionable inductance is made to counterbalance and neutralize equally destructive capacity, has produced a circuit whereby even trans-oceanic telephony seems within grasp. Elect. World and Engin., March 5, 1904, p. 447.

Load water-line. See water-line.—Mammary line, an imaginary vertical line bisecting the nipple.—Median line. See *median.—Meridian line. (a) See meridian, a. (b) A north-and-south line.—Moment of two straight lines, the product of the sine of their angle and the length of their common perpendicular.—Multi-station line, in telephony, a line which connects several stations; a party-line. Also called a polystation line. Abbott, Telephony, v. 395.—Nasal line, a line running on each side from the point of junction of the ala nasi and the cheek downward, encircling the corner of the mouth: noted prominently in intra-abdominal disease.—Nasolabial line, the furrow marking the boundary between the lip and the cheek on each side, extending from the ala nast to the angle of the mouth.—Nebular line, a hright line in the spectrum of a nebula.—Neumann lines. These lines are due to the presence of fine twinning lamelie (perhapa of secondary origin) parallel to the faces of the trisoctahedron (22). It is uncertain whether the twinning-plane is a face of the octahedron or of this trisoctahedron.—Neutral line, in telephone practice, a line or trunk wire designed to transmit messagea in one direction only.—On the line. See the *line.—Oppel's lines, in exper. psychol., a figure which embodies

Oppel's Lines.

oppel's Lines.

a variable optical illusion of extent, described by J. Oppel in 1856-57. The two lines of the accompanying figure are objectively equal; but the "filled' line to the right appears longer than the 'unfilled' line to the right appears longer than the 'unfilled' line to the left. See Fig. 3, under *idnoin, 2.—Paris line, an unit of length, equal to *ti* of a Paris foot.—Party-line, in tetephone practice, a circuit which supplies several customers.—Pascal line or Pascal straight, the three opposite pairs in every complete set of connectors of a hexastigm whose dots are in a conic intersect in three co-straight codots whose bearer is called a Pascal straight. This hexastigm has 60 Pascal straights.—Philo's line or Philo's sect, the smallest seet between two given intersecting straights through a given point in their plane. The given point and the foot of the perpendicular upon the Philo sect from the cross of the given straights are equidistant from the mid-point of the Philo sect.—Polystation line, Same as multistation *line.—Simson line or Simson straight, of the point P with respect to the triangle ABC or of ABC for P, where P is on the circumcircle, the straight through the feet of the three perpendiculars from P npon the straights containing the sides of ABC.—Singular line, of a surface, a line all of whose points are multiple.—Steam line, in thermodynam., a curve which indicates the

nam., a curve which indicates the pressure corresponding to any LIQUID temperature which a liquid and its vapor are in equilibrium and at which consequently 940 140 which consequently both phases may be in contact without change of proportion. — Telluric line, any line in a solar or stellar spectrum that is produced by selective absorption in the earth's atmosphere. —The line, (b) In SSL H 20 **VAPOR** -The line. 0° 20°

art-exhibitions, a line opposite the spectator's eye where objects may best he seen and where the best pictures, etc., are usually placed.—To bring

into line. (a) Milit., to aline. (b) Figuratively, to bring into accord; cause (a number of persons) to agree.—
Tonal line, in psychol., the continuous series of tonal sensations, bounded by the highest and lowest audible tones. See Drobisch's *spiral.

Music has selected at option from this continuity single scusations separated by considerable intervals, thus substituting a total scale for the total line.

W. Wundt (trans.), Outlines of Psychol., p. 51.

To ride the line. See line-riding.—Vicq d'Azyr's line. See *line of Vicq d'Azyr.—Wollaston line. Same as Fraunhofer line. See spectrum.

line², v. I. trans.—To line out, to transplant (seed-lings) from the seed-bed to rows in the forest nursery.

II. intrans. 2. To form in a line: usually

with up.

6. In bookbinding, to cover the line³, v. t. inner sides of (a book-cover) with paper; support the back of the folded sections of a book with thin lawn or linen in the process of binding.

binding.

linea, n.—Linea aspera. (b) A line which marks the separation of the dorsal surface of the optic thalamus from the adjoining surface of the tenia and caudate nucleus.—Linea semicircularis. Same as temporal *crest.—Linea thalassinica, a groove or crack which runs lengthwise on each side of the cephalothoracic carapace in certain crustaceans of the tribe Thalassinidea.—Lineæ albicantes, white lines in the skin after stretching, as in the skin of the abdomen after pregnancy.

lineage² (lin'āj), n. Same as *linage².

lineal a. 5 Of or pertaining to the line or

lineal, a. 5. Of or pertaining to the line or officers of the line in the army or navy.

There is a growing belief that the most effective solution of the engineering problem lies in the formation of a corps of line officers for engineering duty exclusively, or one of engineer officers having positive rank and lineal titles, either corps to be recruited yearly by Annapolis graduates in sufficient numbers to maintain it at full strength.

Cassier's Mag., quoted in Army and Navy John, Nov. 18, 11905 n. 21905 n. [1905, p. 315.

lineamentation (lin"ē-a-men-tā'-shon), n. [lin-eament + -ation.] The grouping and forms of

Linear acceleration. See *acceleration.-Linear capacity, in elect., the electrostatic capacity per unit of length of a linear condenser, such as a cable or a line or wire.

Linear projection, in crystal. See *projection.— Linear set. See *set1.— Linear space. (b) Sec *pace. linearifolious (lin*i-ar-i-fo'li-us), a. In bot., having linear leaves.

linearize (lin'ē-a-rīz), v. t.; linearize (lin'ē-a-rīz), v. t.; pret. and pp. tinearized, ppr. linearizing. [linear + -ize.] To represent by means of lines; transform from pietographie to linear characters.

pictographic to linear characters.

Finally, in 1900, his [Dr. Evans's] discovery of the clay archives in the prehistoric Palace of Chossus had supplied conclusive evidence of the existence of both a semi-pictorial and a linearized system of writing of a highly developed kind. The relations of the two scripts, however, had remained obscure. Attenæum, Dec. 5, 1903, p. 757.

linearoid (lin'ệ-a-roid), a. [linear + -oid.] In group, theory, quest-linear

group theory, quasi-linear.

On differential equations belonging to a ternary linearoid group. Science, April 24, 1903, p. 666.

lineature (lin'ē-a-tūr), n. [lineate + -ure.] Outline.

line-ball (līn'bâl), n. In billiards, a ball with its base on a line.

line-bar (līn'bär), n. In the customary printing of hymn-tunes and similar music, a heavy bar to mark the end of a line of the words and of the corresponding musical phrase or strain. Its place may often be in the midst of a measure, but if it falls at the end of a measure it then takes the place of the ordinary bar (see barl. 11). When a line-bar needs to be distinguished from the usual bar the latter is called a measure-bar

line-boat (lin'bōt), n. A boat used for handline fishing in the sea.

line-breeding (līn'brē "ding), n. Another name for in-and-in breeding,

line-car (lin'kar), n. A freight-car owned by a fast-freight company, or by an association of railways, and designed to be used on several different roads or through-freight routes. line-car is thus often a foreign car. See foreign \star_{car} .

line-cod (lin'kod), n. See line-fish.

line-cut (lin'kut), n. A photomechanical reproduction on metal, for relief-printing purposes, of an illustration drawn in outline, showing the object in its relation to white and black only.

line-cutting (lin'kut"ing), n. The cutting of lines of magnetic flux by the conductors of the electric circuit of a generator, considered, in accordance with the conceptions of Faraday, as the source of the induced electromotive force. Encyc. Brit., XXVII. 574.

line-displacement (lin'dis-plas"ment), n. Displacement of the lines in the spectrum of a star, due, generally, to motion of the star in

the line of sight. Displacements may also occur from intense pressures in stellar atmospheres, but in that case different lines are not affected alike.

The line-displacements of the bright star acquaint us The line-displacements of the bright star acquaint wherely with its rate of motion as projected upon the visual plane; they correspond to a mean orbital radius of \$\alpha_000\$ miles, the real path being perbaps six or eight times wider than that spectroscopically indicated, while the companion-ellipse traversed by the dark satellite may be of any imaginable size.

A. M. Clerke, Problems in Astrophysics, p. 321.

line-firing (lin'fir'ing), n. In ret. surg., a method of treating chronic inflammations, consisting in burning parallel lines in the skin, over the seat of inflammation, with a featheredge firing-iron or thermoeautery: used prineage nring-tron or thermoeautery: used principally in cases of chronic tendinitis, spavin, etc., of the horse. U. S. Dept. Agri., Rep. on Diseases of the Horse, 1903, p. 331.

line-hunter (lin'hun'ter), n. A hound which

trails the game by seent alone.

line-hunting (lin'hun'ting), a. Trailing game by the seent alone, as distinguished from hunting by sight.

The old slow line-hunting staghound.

Saturday Rev., Feb. 1, 1890, p. 135.

line-knife (līn'nīf), n. In whaling, a knife used for cutting the harpoon-line when it is foul.

lineless (līn'les), a. [line2 + -less.] Having no lines; without lines.

line-linkage (līn'ling"kāj), n. See *linkage. linen-drapery (lin'en-dra per-i), n. The establishment, occupation, or goods of a linendraper.

linenette (lin-en-et'), n. [linen + -ette.] A eotton fabric made in imitation of linen.

linen-tester (lin'en-tes"tèr), n. Same as linen-

lineocircular (lin*ē-ō-ser'kū-lār), a. [L. linea, line, + circularis, eircular.] A term used by Sylvester as descriptive of the Peaucellier ad-Sylvester as descriptive of the Peaucellier adjustment or linkage for converting circular line-shafting (lin' shaft ting), n. Same as into rectilinear motion or vice verse into rectilinear motion, or vice versa.

line-officer (līn'of"i-ser), n. See line2, 14. lineoid (lin'é-oid), n. [L. linea, line, +-oid.] In math., the assemblage of points of an ordinary (linear) 3-space (space of three dimensions) of point 4-space.

lineole (lin'ē-ol), n. A lineola. line-pair (līn'pār), n. 1. A degenerate form of any sort.

a conic, consisting of two straight lines which together form a locus of the second degree.

i any sort.

line-spectrum (līn'spek"trum), n. A spectrum together form a locus of the second degree.

Of sections of the cone, he [Kepler] says, there are five species from the "recta linea" or line-pair to the circle. Encyc. Brit., XXVIII. 658.

2. A curve of the second order which breaks up into two straight lines.

line-pusher (līn'push"er), n. The appliance the type-channel to the galley.

For "leading" matter automatically there is a receptacle—which the operator can easily keep supplied with leads—out of which, by the action of a small lever, a lead can be delivered behind each line as the *line-pusher* carries it into the galley.

Census Bulletin 216, June 28, 1902, p. 61.

liner¹, n. 6. A fine-pointed red sable brush, with a metal ferrule and wooden handle.—7. with a metal ferrule and wooden handle.—7. ling², n.—Draw-ling, pull-ling. Same as hare's-tail, A vessel engaged in line-fishing at sea.—8. 1.—Wire-ling, the crowberry.

One who writes items for the press, which are lingasarira (ling*ga-sa-re'ra), n. [Skt. lingapaid for by the line; a penny-a-liner.—9. A pieture hung on the line, at an exhibition. [Colloq.] N. E. D.—10. In law, one whose legal domicile must be determined by some specific legislative or judicial act, by reason of the fact that his place of residence is situated upon a boundary line between different jurisdietions.

That J... M. N..., a *liner* between the counties of Chambers and Lee, is declared to be a citizen of Lee County.

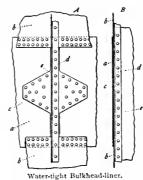
**Laws of Alabama*, 1866-67, p. 175.

liner², n. 3. In mach.: (b) A cylinder or vessel placed inside another cylinder or vessel as a lining: frequently used in engines or pumps to protect the main eylinder from wear and injury and to facilitate making repairs.

5. In iron ship-building, a piece of plate used to fill up a narrow space between a plate and a har or in the seam of two plates so that they can be riveted solidly together in places where, owing to the arrangement of the parts, the adjoining surfaces cannot be brought into close contact. A frame-liner is one whose width is that of the flange of the frame-bar, extending between the edges of adjacent sunken strakes of outside plating and filling the space between the frame-bar and the

strake of outside plating. It is much wider than the flange of the bar to compensate for the weakness in the outside plating due to the close spacing of rivets necessary for water-tightness See cut. A taper liner is one having a wedge shape to fill up a triangular

line-scale (līn'-In skāl), n. printing, measure, simi-lar to a footused rule, show the length of a line.



A, elevation; B, section; a, raised or outer strake of outside plating; b, b, sunken or inner strakes of outside plating; c, liner; d, bulkhead bounding-bar; e, water-tight bulkhead plate.

A line of matter is progressively perforated and charged until, as the end is approached, the line-scale shows that the next word or syllable can not go into that line.

Census Bulletin 216, June 28, 1902, p. 58.

line-screen (līn'skrēn), n. In photog., a sereen upon which fine lines are ruled, used in photoengraving for the manufacture of half-tone engraving for the manufacture of half-tone blocks. The lines are ruled with a diamond, and are filled in with black pigment. Two sheets of such ruled glass are cencented together, face to face, with the lines crossing at right angles, to form the screen.

line-shaft (lin' shaft), n. A main shaft: (a) A long shaft, in a factory or shop, which furnishes nower to the approachets for the

nishes power to the countershafts for the various machines. It may be driven directly by the engine, by a belt from the engine, or by a motor. (b) In marine engin., the part of the propeller-shaft which reaches from the

*line-shaft.

linesman, n. 2. In Amer. foot-ball, one of the forwards; also, the man who has charge of the measurements of the distance gained and assists the umpire in various ways .- 3. A workman engaged in the erection or maintenance of the line-wires of a telegraphic or telephonic system, or of electric circuits of any sort.

eonsisting of bright lines, as distinguished from a band-spectrum or continuous spectrum. A continuous spectrum, like that of the sun, crossed by the dark lines of Fraunhofer is also sometimes referred to as a line-spectrum. See spectrum.

line-sphere (lin' sfēr), a. Pertaining to or eonneeting the straight line and the sphere.

in the monotype type-setting and -casting line-switch (lin'swieh), n. In elect., a switch machine that pushes the finished lines from for opening and closing the main line of an

line-up (lin'up), n. In athletic games such as base-ball and foot-ball, the order in which the

players take their positions.

linework (lin'werk), n. In art, drawing executed with a pen or peneil, as opposed to 'wash.' ling¹, n. 6. Same as *beardy, 3.—Ling-liver oil. See *cil.

carira, the imagined typical or subtle body, c linga, mark, token, image, in the Vedanta philosophy the typical or subtle body (the supposed indestructible original of the gross

name for the supposed astral body. ling-gowan (ling'gou"an), n. See *gowan. lingo³ (ling'gō), n. [Üf. Pg. linga, a strap by which anything is suspended. See lingo¹.] The weight attached to the heddle-cord in a

linguale, n. 2. In eraniom., the upper termilink², n. 3. pl. The ground on which golf is nal point of the symphysis of the lower jaw on played.

its lingual surface. Von Török.

linkage, n. 3. In chem., the hypothetical con-

lingualize (ling'gwa-liz), v. t.; pret. and pp. lingualized, ppr. lingualizing. [lingual + -ize.] To make lingual.

The final i or u of a preposition or other like prefix ordinarily lingualizes the initial s of the root to which it is prefixed.

Whitney, Sansk, Gram., p. 185.

raised strake of outside plating. A wide liner or water-tight bulkhead-liner is one fitted in the space between the bounding-bar of a water-tight bulkhead there is one fitted in the space between the bounding-bar of a water-tight bulkhead and the raised traffic of the space of characterized by a more or less elevated ventral eardinal area which is bisected medi-ally by a narrow pedicel-furrow. It occurs in the Cambrian of North America and Europe.

Lingulepis (ling-gū'le-pis), n. [NL., Lingula, 2, + Gr. λεπίς, a scale.] A genus of atrematous linguloid braehiopods characterized by having the pedicel-valve much pro-duced at the beak with no distinct cardinal It occurs in the Cambrian of North area. America.

linguliform (ling-gū'li-fôrm), a. [L. lingula, lingula + forma, form.] Resembling a lingula.

linguolabial (ling-gwō-lā'bi-al), a. and n. [Prop. *tinguilabial, < L. lingua, tongue, + labium, lip, + -all.] I. a. Of, pertaining to, or formed by the tongue and lips. as a sound or letter. Stud. Yale Psychol. Lab., X.

II. n. A letter or articulation produced by the tongue and lips.

linguonasal (ling-gwō-nā'zal), a. and n. [Prop. *linguinasal, < L. lingua, tongue, + nasus, nose, + -all.] I. a. Of, pertaining to, or formed by the tongue and the nose, as a sound or letter.

II. n. A sound or letter formed by the

tongue and nose.

linguopalatal (ling-gwō-pal'ā-tal), a. and n. [Prop. *linguipalatal, < L. lingua, tongue, + palatum, palate, +-al¹.] I. a. Of, pertaining to, or formed by both tongue and palate: said of various sounds or letters.

II. n. A sound or letter produced by the tongue and palate. Keane, Man Past and Present, p. 124.

linie (lin'i-e), n. [G., MHG. linea, OHG. linea, \(L. \) linea, line: see line2.] The twelfth part of the zoll or ineh; a line. C. Hering, Conversion Tables, p. 33.

linin, n. 2. The substance which forms the reticulum of the nucleus and incloses the

ehromatin.

lining-cloth (lī'ning-klôth), n. Extra pieces of canvas sewed on the back of square sails to take the chafe.

lininoplast (li'nin-ō-plast), n. [linin + Gr. πλαστός, < πλάσσειν, form.] The plasmosome or true nucleolus. G. Eisen, 1899. linity (lin'i-ti), n. [line2, n., + -ity.] See the

extract.

The theory of the "linity," analogous to the linear vector function in quaternions or to the matrix in algebra, is developed in considerable detail.

Nature, April 25, 1907, p. 623.

for opening and closing the main line of an link, n. 8. In math.: (a) A piece of a straight line-up (lin'up), n. In athletic games such as base-ball and foot-ball, the order in which the of one or more measures, intervening between two well-defined sections or phrases.—Link polygon. Same as funicular polygon.—Open link, a chain-link having an opening in one side, the ends lapping but not in contact; a chain-link in which the ends are brought together and butted sgainst each other, but not fastened; an open ring.—Stephenson link, a slotted link or bar in an engine valve-gear, each end of which is connected to an eccentric by a rod. A slider or sliding-block on the link is connected to the valve-stem and may be shifted so that it is moved by either of the two eccentrics, one of which makes the engine revolve in one direction and the other in the opposite direction: so called from its inventor, George Stephenson. See Stephenson *klink-motion.

link¹. v. l.—To link up. (a) In an engine fitted with

supposed indestructible original of the gross visible body), + carira, body. The Sanskrit name for the supposed astral body. ling-gowan (ling'gou'an), n. See *gowan. lingo3 (ling'gō), n. [Cf. Pg. linga, a strap by which anything is suspended. See lingo1.] The weight attached to the heddle-cord in a Jacquard loom. R. Marsden, Cotton Weaving, p. 149.

nection between two atoms. Same as bond, 11.—4. In elect., the product obtained by multiplying the magnetic flux through a coil by the number of turns which the coil contains.

— Hart's linkage. Same as Hart's *kell.— Line linkage, in elect., the linkage of the lines of force of the magnetic circuit of a generator, motor, transformer, or other apparatus, with the electric circuit in which current is induced.

We may, with Faraday, make the transition from line-linkage to the precisely equivalent conception of "line-cut-ting" as the source of E. M. F. Encyc. Brit., XXVII: 574.

Peancellier's linkage. Same as Peaucellier cell (which Stephenson link-motion for a locomotive or link-belt (lingk'belt), n. Same as *link-belting. link-belting (lingk'bel

ting), n. A belt for the transmission of power, composed of a series of de-Link-belt. tachable links.

link-carrier (lingk'kar" i-er), n. A metal piece which carries the link in a locomotive

valve-gear; a stirrup. link-form (lingk'fôrm), n. A transitional form between two races or groups of organisms.

Some stress was laid on Haeckel's discovery of Ctenaria as a possible link-form between Hydromeduse and Ctenophora.

Encyc. Brit., XXVII. 301.

link-grate (lingk'grāt), n. An endless grate made up of links so that it can be run like a made up of links so that it can be run like a belt over sheaves or pulleys. The coal is put on the grate at one end or over one sheave, and is burned while traveling to the end where the ashes are dumped off. Elect. World and Engin., May 7, 1904, p. 863.

link-hanger (lingk'hang'er), n. In a locomotive, the suspension-rod fastened to the link-saddle in a Stephenson link-motion valvectors by which the weight of the link and of

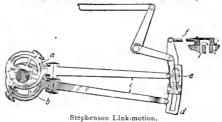
gear by which the weight of the link and of the eccentric-rods is borne, and by which the $\lim_{n \to \infty} a_n = \lim_{n \to \infty} a_n = \lim_$ link itself is raised and lowered.

Linkia (ling'ki-ä), n. [NL. (Cavanilles, 1797), named after Heinrich Friedrich Link (1767-1851), professor of botany at Berlin.] A genus of dicotyledonous shrubs of the family Proteaces. See Persoonia and *gecbung.

linking-up (ling'king-up), n. The act or process of altering the position of the links or link-blocks in a reversing and cut-off engine fitted with Stephenson links, to produce an earlier cut-off and greater expansion; hence, the making of the cut-off earlier in any engine. Also called hooking-up.

Also called hooking-up.

link-motion, n.—Allan's link-motion, a ferm of valve-gear for steam-engines in which the link is raised as in Stephenson's and the valve-rod lowered as in Gooch's, to reverse and produce cut-off; but since the link and slider-block are both moved, each need only be moved half as far as in either of the other forms. The link is straight and not a part of a circular arc, and is more easily manufactured.—Gooch'a link-motion, a form of link-motion, derived from Stephenson's, in which the slot-link was not lifted and lowered, as in Stephenson's, but the rod to the valve was so adjusted in the slet of the link. The valve-rod had to be long enough to be jointed, but no variation in lead occurred, because the eccentric-straps were not swung around the shaft in adjusting the position of the sliding-block. The radius of the link was that of the length of the first section of the valve-rod.—Stephenson link-motion, a form of valve-gear for steam-engines which enables the engine to be reversed easily and to



operate with a variable cut-off. It was first designed by Howe and was osed by Stephenson in early English locomotives. The elements consist of (a) one ecceutric set at the proper angle shead of the engine-crank fer forward movement; (b) another set for backward motion; (c) two eccentric-rods or -blades from these two eccentrics to the top and bottom respectively of (d) the link or slot-link; and (e) the sliding-block in the slot of this link which carries the pin to which the valve-stem (f) is fitted, either directly or through a rocker-shaft and arms. When the link is lowered, the forward eccentric (a) drives (f), when the link is raised, the backward eccentric (b) drives (f). In intermediate positions the block (c) is actuated partly by both (a) and (b), and, as these are in opposite phase or nearly so, the motion of (f) becomes less, and the port is opened during a smaller portion of the piston-stroke, and an earlier ent-off results. Stephenson's is differentiated from other link-motions by having the link raised and lowered, and with it the eccentric blades or -rods, to vary cut-off and reverse; hence, the slot-link has a curvature formed by an are struck with the center of the engine-shaft as a center. The swing of the eccentric-straps and -hlades around the eccentries in the cutting-off and reversing adjustments of the link makes the lead of the valve increase, as the cut-off in forward gear is made earlier.

link-hanger is attached on a locomotive or other engine fitted with the Stephenson valve-gear. lint-box (lint'boks), n. That part of a cotton-link-slot (lingk'slot), n. In a steam-engine, baling press in which the lint (ginned cotton) link-slot (lingk'alot), n. In a steam-engine, the alot or opening in the curved member of a

other reversing-engine. This member is called the link, and in the opening or slot slides the link-block by which the valve is operated as the two eccentrics operate the link itself. See Stephenson *link-motion. link-slotter (lingk'slot"er), n.

attachment for slotting or finishing the curved links for steam-engine valve-gears. link-staff (lingk'staf), n. A slender staff or

rod graduated into feet or links, used in surveying: employed both as a visible object to sight to when held vertically over a given point, and also as a rough linear measuring-scale for short distances such as offsets from a given line

or point; a flag-staff or flag-pole.

link-vine (lingk'vin), n. In the Bahamas,
Vanilla articulata, a tall, leafless climber of the orchid family, growing over trees and shrubs: so called from its stems, the joints of which are smooth, fleshy, and from 8 to 10 inches long.

linkwork, n. 2. A mechanism or device in which motion or power is transmitted by rods and levers, instead of by gearing or by pulleys

and belts; a linkage; a link-motion.

link-worming (lingk'wer"ming), n. Naut.,
the operation of worming repe-cables with chain, as a protection against cutting on a rocky bottom.

having the character or appearance of links. See link2.

ee link2.
Steering by this . . . we made our way across country, and won forth at last upon the *linky*, boggy muirland that they call the Figgate Whins. R. L. Stevenson, Catriona, xii.

inn², n. Same as $\star lin^4$.—Black linn, yellow linn, the cucumber-tree, Magnolia accuminata.

Linnæan.

linography (li-nog'ra-fi), n. [L. linum, flax (see linen), + Gr. γράφειν, write.] The process of photographing the outlines of a picture on linen or cotton cloth, as a basis for painting it in oil. Jour. Soc. Chem. Industry, V11. 588. linolenic (lin-ō-len'ik), a. [L. linum, flax, + oleum, oil, + -ene + -tc.] Noting an acid, a colorless liquid, C₁₈H₃₀O₂, obtained from various oils, such as linseed and cotton-seed. It has an odor of blubber and combines with aix atoms of bromine six atoms of bromine.

Linophryne (lin-ō-frā'nē), n. [NL., ζGr. λίνον, a net, $+\phi\rho i\nu\eta$, a toad.] A genus of fishes of the family Ceratiidæ, found in the mid-Atlantic. Linopteris (li-nop' te-ris), n. [NL. (Presl, 1838), ζ Gr. λίνον, net, + πτέρις, fern.] A genus of fossil ferns with bipinnate fronds, the pinne oblong and multijugate, and the pin- **Lioglossina** (http://o.glo-si/nii), n. [NL., \langle Gr. nules subfalcate, obtuse at the summit and \(\hat{\rho}\in \text{ioc}\), smooth, \(+\gamma\cdot\in \text{ioc}\) and the pin- **Lioglossina** (http://o.glo-si/nii), n. [NL., \langle Gr. nules subfalcate, obtuse at the summit and \(\hat{\rho}\in \text{ioc}\), smooth, \(+\gamma\cdot\in \text{ioc}\), and the pin- **Lioglossina** (http://o.glo-si/nii), n. [NL., \langle Gr. nules subfalcate, obtuse at the summit and \(\hat{\rho}\in \text{ioc}\), smooth, \(+\gamma\cdot\in \text{ioc}\), and the pin- **Lioglossina** (http://o.glo-si/nii), n. [NL., \langle Gr. nules subfalcate, obtuse at the summit and \(\hat{\rho}\in \text{ioc}\), smooth, \(+\gamma\cdot\in \text{ioc}\), and the pin- **Lioglossina** (http://o.glo-si/nii), n. [NL., \langle Gr. nules subfalcate, obtuse at the summit and \(\hat{\rho}\in \text{ioc}\), smooth, \(+\gamma\cdot\in \text{ioc}\), and \(\hat{\rho}\in \text{ioc}\), and \(\ha nules subfalcate, obtuse at the summit and cordate at the base, with a reticulate nerva-tion. It was ealled *Dictyopteris* by Gutbier in 1835, but that name was preoccupied. S. Dietyopteris, with cut, and *Dietyopteris, 2. linotype (li'nō-tip or lin'ō-tip). n. and a.

n. A machine in which stereotyped lines (of lion, n. 5. (c) A silver and a gold coin of the words) are produced, for use in printing. See legian provinces, struck in 1700 m.

II. a. Composed with the linotype machine. linotype (lī'no-tīp or lin'o-tīp), v. t.; pret. and pp. linotyped, ppr. linotyping. [linotype, n.] To set with a linotype machine.

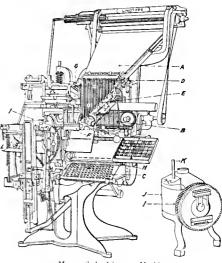
linotyper (lī'nō-tī-per or lin'ō-tī-per), n. Ono

 $ox(yyen) + -in^2$.] The name given by Mulder to the amorphous, tough, and elastic material, somewhat resembling india-rubber, which is left as the product of the 'drying' of linseed-oil which has been exposed to the air, from which it absorbs oxygen. He found it to be a chemically neutral substance which on analysis gave figures leading to the formula $C_{32}H_{54}O_{11}$, but later researches have made it doubtful whether it is a single, definite substance. linseed-tea (lin'sēd-tē"), n. An infusion of lingeed-tea (lin'sēd-tē"), n.

seed; flaxseed-tea. It contains mucilage, and is therefore demulcent.

the lead of the valve increase, as the cut-off in forward gear is made earlier.

link-saddle (lingk'sad*1), n. The plato or bar bolted to the side of the link and to which the link hand to which had the link usitatissimum.



Mergenthaler Linotype Machine.

A, matrix magazine: B, rols from finger-keys to matrix-releasing device: C, keyboard: D, matrix channels: E, traveling-belt to convey matrices to F: F, assembling-stick for matrices; G, rack containing spaces; H, space-releasing bar: I, mold-wheel J, melting-pot; K, pump-plunger for forcing metal into mold; L, receiving galley for finished lines.

linter¹, n. 2. Same as lint-doctor.—3. pl. The short fibers of cotton which are removed by a second ginning process, from cotton-seed which has been once ginned. Also called regins. Linters, or delint, as the short fiber is also called, find extensive application in the arts.

L. L. Lamborn, Cottonseed Products, p. 34.

Linn. An abbreviation (a) of Linnæus; (b) of lintonite (lin'ton-īt), n. [Named after Miss Linnæan. L. A. Linton, who analyzed it.] A variety of linography (li-nog'ra-fi), n. [L. linum, flax thomsonite, occurring in green spherical forms, derived from the amygdaleid of Grand Marais, Lako Superior.

linty (lin'ti), a. [$lint^1 + -y^1$.] 1. Like lint or flax; soft.—2. Covered with or full of lint.

linusic (li-nū'sik), a. Noting an acid, a color-less compound, $C_{17}H_{29}(OH)_6COOH$, prepared by the oxidation of linoleic acid with potassium permanganate. It crystallizes in rhombic plates or needles and melts at 203° C. Also called hexahydroxystearic acid.

Liocetus (lī-ō-sē'tus), n. [Gr. λείος, smooth, + κῆτος, a large sea-animal.] A genus of deep-sea fishes of the family Ceratiidæ.

liodermia, leiodermia (lī-ō-der'mi-ā),n. Glossiness of the skin.

nus of flounders known only from the Gulf of California.

Liognathus (lī-og 'na-thus), n. [NL., ζ Gr. λείος, amooth, + γνάθος, jaw.] Same as Coc-

of the gold lion was about \$6.50.—Easex lion, a calf.—Order of the Golden Lion, an order for civil and military merit in Luxemburg: founded in 1858.

lion-fish (lī'on-fish), n. A name applied to

Pterois lunatus, Scorpæna grandicornis, and other stinging fishes of the family Scorpænidæ, from their mane-like spines.



Lion-Gate at Mycenæ, Greece.

facing each other. The motive appears in early Hellenic or Mycenæan decoration and is especially common in early Phrygian art. The most important example is at Myceme

in the Peloponnesus. lionization (li on-i-zā'shon). n. lionizing or making a 'lion' of some one.

The limitation of the German marines by the Rusat Vladivostock some time ago.

The Forum, Jan.-March, 1904, p. 470.

terized by equivalve, oval, thin shells which are gaping in front and compressed behind and are held together by a hinge with a nymph and projecting process on each side.

Liopleurodon (lī-ō plö'rō-don), n. [NL., ⟨Gr. λείος, smooth, + πλειγόν, rib, + ὐδοὺς (ὐδοντ-), a tooth.] Same as Pliosaurus.

Liopropoma (lī-ō-prop'ō-mā), n. [NL., \langle Gr. \rangle reiog, smooth, $+\pi\rho\delta$, before (pre-), $+\pi\delta aa$, lid (operculum).] A genus of Serranoid fishes found only on the coast of Cuba.

Liopsetta (li-op-set a), n. [NL., \langle Gr. $\lambda ε i o \varsigma$, smooth, $+ \psi \bar{\eta} \tau \tau a$, flounder.] A genus of flounders found on both sides of the Arctic Pacific.

liopus, leiopus (lī'ō-pus), n. [NL, < Gr. λείος, smooth, + ποίς, foot.] One who has flat feet. liotheid (lī-oth'ē-id), n. and a. I. n. A member of the mallophagous family Liotheidæ.

II. a. Having the characters of or belonging to the family Liotheidæ.

liotrichan, leiotrichan (li-ot'ri-kan), a. and n. [liotrich-ous + -an.] I. a. Same as liotrich-

A liotrichous person. See Liatrichia II. n. liotrichian, leiotrichian (lī-o-trik'i-an), a. Same as liotrichous.

lip, n. 6. In zool.: (b) In the Blasloidea, one of the distal ends of the radial sinuses. (c) In the Gastropoda, the outer or thickened inner margin of the aperture of the shell. -12. In metal., the part of a ladle or forehearth over which the metal flows. *Phillips and Bauerman*, Ele-ments of Metallurgy, p. 673.—Baelz's disease of the lip, an inflictation and ulceration of the mucous glands of the lips. *Buck*, Med. Handbook, 1, 722.

lip, v. I. trans. 4. In mach., to flange; turn over a lip on (a piece of sheet-metal).

The oil box covers are lipped and hitged, and fitted with springs that keep the lids tightly closed or hold them open as desired.

Elect. World and Engin., March 28, 1903, p. 533.

5. To lap; touch the edge of (anything) with a slight rippling sound.

We left the dying ebb that faintly lipp'd Tennyson, Audley Court, 11. The flat red granite. The flat red granite. Tennyson, Andley Court, 11.

The dory heeled until the water lipped the rail.

J. C. Lincoln, Partners of the Tide, xviii.

II. intrans. 2. To project in the form of a broad tab or lip.—3. To have an irregularity of the surface caused by overlapping of molds: said of a casting.

lipacidæmia (lip"as-i-dē'mi-ä), n. [NL., < Gr. λίπος, fat, + NL. aeidum, acid, + Gr. αμα, blood.] The presence of fatty acids in the blood.

lipaciduria (lip″as-i-dū'ri-a), n. [NL., ⟨ Gr. lipogastrism (lī-pō-gas'trizm), n. [NL., ⟨ Gr. λιπος, fat, + NL. acidum, acid, + Gr. oὐρου, λιπος, fat, + γαστήρ (γαστρ-), stomach, + -ism.] urine.] The elimination of fatty acids in the Lipogastrosis.

lipanin (lip'a-nin), n. [Gr. λίπος, fat, +-an +
-in².] A mixture of 94 parts of olive-oil and 6
parts of oleie aeid, used as substitute for codliver oil.

liparid (lip'a-rid), n. and a. I. n. A member of the lepidopterous family Liparidæ.

II. a. Having the characters of or belonging to the family Liparida.

liparoid (lip'a-roid), a. [Gr. λιπαρός, fatty, + είδος, form.] Fatty.

Liparops (lip'a-rops), n. [NL., \langle Gr. $\lambda\iota\pi\alpha\rho\delta\varsigma$, fatty, $+\dot{\omega}\psi$, eye, face.] A genus of fishes belonging to the family Cyclopteridæ; it is found in Kamehatka.

liparous (lip'a-rus), α. [Gr. λιπαρός, fatty, + ous.] Same as *liparoid.

lipase (lī'pās), n. [Gr. λίπος, fat, + -ase.] widely distributed ferment occurring in both the animal and the vegetable world, which splits fats into fatty acids and glycerin,

is also capable of bringing about the syn-Lipogenys (li-poj'e-nis), n. [NL., \langle Gr. $\lambda i\pi o \varsigma$, thesis of fats, and is thus reversible in its fat, $+ \gamma \epsilon r v \varsigma$, under jaw.] A genus of deep-sea action. The synthetic activity of this ferment was first demonstrated by Kastle and Loevenhart, and Hanriot.

Since the discovery of diastase, in 1814, a large number of enzymes have been recognized, and what is of still greater interest and physiological significance, a large number of them, such as diastase, tipase, trypsin, etc., etc., have been found in both the vegetable and the animal organism, and, for that matter, in nearly every living cell.

Science, May 17, 1901, p. 767.

The Forum, Jan.—March, 1994, p. 479.

lion-monkey, n. 2. The wanderoo, Silevus science, and a control of its tufted tail and neck-ruff.—3. Macacus lconiums of India, which is of a yellowish cast.

Liopistha (li-ō-pis'thā), n. [Nl... ⟨ Gr. λείος, smooth, + ὁπιστε, behind.] A genus of Cretasmooth, + ὑπιστε, behind.] A genus o lip-pressure proper for a certain articulation. Scripture, Exper. Phonetics, p. 398.

lipemia, n. See lipæmia.

lipic (lip'ik), a. [Gr. λίπος, fat, + -ic.] Noting an acid, a colorless compound, probably identical with succinic acid, said to be formed by the oxidation of oleic acid.

ment of the lips. Amer. Jour. Psychol., XIII.

A half-caste, the offliplap (lip'lap), n. spring of a native of the Dutch East Indies and a Dutchman.

The question is, therefore, not as to the acclimatisation of the Dutch race, whose numbers apart from the officials and militury, are insignificant, but as to that of liplaps, signos, and mannas, as the Dutch half-castes are variously called.

Academy, Feb. 11, 1893, p. 122.

lipochrin (lī'pō-krin), n. [Gr. $\lambda i\pi o g$, fat. + $\delta \chi p \delta g$, yellow, + $-in^2$.] A yellowish-green pigment found in the fat-droplets which occur in the retinal epithelial cells of some of the lower animals: for example, the frog.

lipochrome (lī'pō-krōm), n. [Gr. λίπος, fat, + χρωμα, color.] A pigment found in fatty tissue, liporhodin (lī-pō-rō'din), n. [Gr. λίπος, fat, commonly of a yellow or red color. Such products occur widely distributed both in the lipostomism (lī-pos'tō-mizm), n. [lipostom-y animal and the vegetable world. The yellow $+ \cdot \iota sm$.] Lipostomosis. animal and the vegetable world. The yellow +ism. Lipostomesis, eolor of the blood-serum, of the corpora lutea, and of the yoke of birds' eggs, and the reddish pigment of carrots and tomatoes belong to of the walls. Compare *lipogastry. this order. Their composition is for the most lipothymial (1:- $p\bar{0}$ -thī'mi-al), a. Relating to part nnknown.

lipochromic (lī-pō-krō'mik), a. [lipochrome + -ic.] Of the nature of a lipoehrome.

lipochromogen (li-pō-krō'mō-jen), n. chrome + -yen, -producing.] A substance which gives rise to the formation of a lipoehrome.

lipochromoid (lī-pō-krō'moid), n. [lipochrome lipoxanthin (lī-pō-zan'thin), n. . [Gr. $\lambda i \pi o \varepsilon$, + -oid.] A pigment of the order of, or resembling, the lipochromes. fat, + $\xi a v \theta \delta \varepsilon$, yellow, + -in².] A yellow lipochrome.

lipocyanine (lī-pō-sī'a-nin), n. [Gr. λίπος, fat, + κύανος, blue, + -ine².] A blue lipochrome. lipodystrophy (li-pō-dis'trō-fi), n. [Gr. 2ίπος, fat, + E. dystrophy.] In pathol., a disturbance of the metabolism of fat.

A new clinical entity—intestinal lipodystrophy.

Med. Record, Nov. 16, 1907, p. 821.

lipogastry (lī'pō-gas-tri), n. [Gr. λiπος, fat, + γαστμρ (γαστρ-), stomaeh, $+ -y^3$.] In sponges, the temporary obliteration of the gastral cavity by the contraction of the surrounding walls. See *lipostomy, 2.

In the first place, any sponge, whether of simple or complex form, may under certain conditions contract itself and close up its pores and osculum. In extreme cases even the gastral cavity becomes obliterated. Such changes of form are of course only of temporary duration and are of no morphological or classificatory value. Sooner or later the sponge expands again. . . Nevertheless, sponges in a state of contraction have . . . been described . . . as a distinct species, genus or family; while the temporary obliteration of the osculum or gastral cavity has been dignified by the coinage of the terms lipostomy and lipogratry respectively. Lankester, Zoology, 11. 4. In the first place, any sponge, whether of simple

Lipogenyidæ (li"pō-jē-ni'i-dē), n. pl. [NL. < shiper.

Lipogenys + -idæ.] A family of fishes known liq. An abbreviation (a) of liquid; (b) of only from a single specimen taken in the Gulf liquor. Stream in the deep sea.



Lipogenys gillii. (From Bulletin 47, U. S. Nat. Museum.)

fishes of the family Lipogenyida, found only

of fat.

The fat of the nerve-cells. It consists chiefly of cholesterol and lecithin.

lip-fern, n.—Hairy lip-fern, Cheilanthes lanosa, a species of the eastern United States which has its segments more or less closely covered with rusty hairs.

lipolysis (li-pol'i-sis). n. [NL., ζ Gr. λίπος, fat, + λίσις, dissolution.] The eleavage of fats into fatty acids and glycerin. fats into fatty acids and glycerin.

Since the bile salts are known to increase *lipolysis*, the effects of the sodium salts of cholic, glycocholic and taurocholic acids in n/500 solutions were tested on lipolytic hemolysis.

Science, Sept. 27, 1907, p. 418.

lip-key (lip'kē), n. In psychophys., a form of lipolytic (lip-ō-lit'ik), n. [Gr. λίπος, fat, + λίσις, dissolution, + -ie.] Capable of eausing the an electric circuit is made or broken by a move-cleavage of fats into fatty acids and glycerin;

for example, lipase. lipomatoid (li-pom'a-toid), a. [lipoma(t-) + oid.] Resembling a lipoma.

lipomorph (li 'pō-morph), n. [Gr. λείπειν, λι-πειν, leave out, + μορφή, form.] An organism which characterizes a district by its absence from it. See the extract.

In many cases the absence of certain forms of animal In many cases the absence of certain forms of animal life in countries where they might be naturally expected to occur is a marked feature of certain parts of the world's surface. For example, bears (Ursus) and deer (Cervus) are altogether absent from the Æthiopian regions, and eats (Felis) from Australia, though these forms are widely distributed over other lands. It is proposed to designate such forms as "lipemorphs" (λείπω, deficio, and μορφή, forma) as regards the particular areas in which they are not found.

P. L. Sclater, in Geog. Jour. (R. G. S.), IX. 678.

lipothymy; syncopal. lipotropic (li-pō-trop'ik), a. [lipo-ic.] Promoting an increase of fat. [lipotrop-y +

lipotropy (li-pot'rō-pi), n. [Gr. λίπος, fat, + -τροπια, < τρέπειν, turn.] The increase of fat -τροπια, $\langle \tau \rho$ in the body.

Lipowitz's alloy. See *alloy.

lipperings (lip'er-ingz), n. pl. The mixture of oil, water, and blood that drains from the blubber when cutting in a whale, and the pieces of blubber used to wipe up the deck. lipper2, 1.

After the solid matter has been disposed of, both the deck lipperings and blubber-room lipperings are usually deposited in barrels or tubs and there scalded with hot oil.

Sci. Amer. Sup., March 5, 1904, p. 23552.

lip-speaking (lip'spe#king), n. Speaking to a deat person, with a somewhat emphasized movement of the lips, in the course of instruction known as lip-reading.

lip-stop (lip'stop), n. In organ-building, same as flue-stop. See stop1, 6.

lip-turner (lip ter ner), n. In shoe-manuf., a machine for cutting and turning back a lip on the in-sole of a shoe, to form a shoulder against which the sewing-machine sews the upper and the welt.

lipuria (lī-pū'ri-ā), n. [NL., ζ Gr. λίπος, fat, + olpov, urine.] The elimination of fat in the urine: a pathological event.

lip-worship (lip'wer'ship), n. Insincere worship, coming from the lips and not from the

lipogenic (li-pō-jen'ik), a. [Gr. λίπος, fat, + heart. - γενης. -producing, + -ic.] Forming or tending to form fat; relating to lipogenesis. lip-worshiper (lip'wer ship-er), n. One who worships with the lips only; an insincere worships with the lips only in the li shiper.

liquation, n. 4. In mixtures of fluids, a sepa-

	Crit.	Temp. °F,	Boiling	g-Point. °F.	Crit. Pressur Atmosphere
H	234	-389	-246	-411	20
0	-119	-182	-181	295	51
N	-146	-231	194	-317	35
Alr	-140	-220	191	-312	39
	+ 31		80	112	77
Argor	-121	-186	-187	305	50.6

Argon—121—186 —187—305 50.6

For the liquefaction of gases having only moderately low critical temperatures, freezing mixtures produce sufficient cold. Gases thus liquefied, if allowed to evaporate under low pressure, produce still greater cold, which can be used in the liquefaction of other gases; or, the gas to be liquefied can be compressed, cooled as much as possible, and allowed suddenly to expand. In many cases this sudden expansion will cool the gas sufficiently to produce partial liquefaction and even solidification. By such methods Pictet and Caliletet anceeded in 1877 in liquefying oxygen, nitrogen, and hydrogen. More recently Wroblewski, Dewar, and Olzewski produced these liquids in quantities large enough to permit their critical constants to be studied. In the process later perfected by Linde, Dewar, Hampson, and others, and applied most notably to the liquefaction of air, the gas to be liquefied is compressed to a pressure of from 1,200 to 3,000 pounds per square inch, cooled to the ordinary atmospheric temperature, and then led through a long coil of pipe and allowed to escape through a small orifice. The escaped gas, cooled by expansion, is led back around the coil of pipe, cooling the compressed gas on its way to the orifice. This cooled compressed gas therefore after expansion becomes colder than the gas preceding it, and upon flowing back around the pipe produces still greater cooling of the luconing gas; hence the temperature of the escaped gas will gradually diminish until equilibrium is reached either by gain of heat from the outside the liquid will accumulate and can be drawn off, in some machines at the rate of several gailons an hour. If sir thus liquefied he exposed to the atmosphere the nitrogen, having the lowest boiling-point, boils away with sufficient rapidity to keep itself at a temperature of—181°C, its boiling-point at atmospheric pressure. Liquid air will probably find its greatest commercial application lu various refrigerative processes and in operative surgery. It cannot be

liquefler, n. Specifically-2. An apparatus for the liquefaction of gases, especially of air. See Hampson's liquid-*air apparatus, and *liquefaction, 1.

liquesce (li-kwes'), v. i.: pret. and pp. liquesced, ppr. liquescing. [L. liquescere, become liquid: see liquescent.] To become liquid; liquefy.

liqueur (li-kėr'), r. t. To flavor or treat (wine

with a liqueur.

liquid. I. a.—Liquid assets or liquid securities, property instantly convertible into cash, as stocks, bonds, or other securities upon which banking institutions will at once advance loans.—Liquid crystal. See *crystal.

at once advance loans.—Liquid crystal. See *crystal.

II. n.—Crystalline liquid. See tiquid *crystal.—
Elasticity of liquids. See *clasticity.—Fuming
liquid or spirit of Libavius. Same as libavius.—
Grison liquid, a fungicide preparation designed for application (by spiraying) to plants in treating them for mildew. One of the recipes for making it calls for 3 pounds of flowers of sulphur, 3 pounds of quickline, and 6 gallons of water, to be boiled together until reduced to 2 gallons. The yellow solution so obtained is allowed to settle, and the clear part preserved in well-stoppered bottles: one part of the solution is to be diluted with 100 parts of water when required for use.

liquidate. V. t.—Liquidating partner. See *para-

liquidate, v. t.—Liquidating partner. See *part-

ner.
Liquidator of vessels, one of a number of officials belonging to the New York Custom-house.
liquidogenous (lik-wi-doj'e-nus), a. [L. liquidus, liquid, +-genus, -producing.] Of or pertaining to the liquid phase of matter: opposed to *gasogenous.

Liquidus curve. See *curve.

liquiform (lik'wi-fôrm), a. [For *liquidiform, (L. liquidus, liquid, + forma, form.] Resembling a liquid.

Signt projections.

(L. liquidus, liquid, + forma, form.] Resembling a liquid.

Signt projections.

(Mex. Sp., dim. of Sp. lisa: see *lisa.1 A name in Maxima of Maxima.)

liquorous² (lik'er-us), a. [liquor + -ous.] Liquid; like liquor.

lira¹, n.—Lira Dalmata, the lira current at Zara, Cattaro, and throughout Servia and the adjacent regions, worth about one third less than the Venetian.

lira³ (lī'rā), n.; pl. liræ (-rē). [L., also a furrow. Compare delirium.] the grooves or furrows on a shell. [L., a ridge One of

Three out of the four examples examined have a number of fine lira within the outer lip, a feature not present in the 'Challenger' shell.

Annals and May. Nat. Hist., June, 1904, p. 459.

lirate (li'rāt), a. [NL. *liratus, < L. lira, a furrow: see *lira3.] Bearing liræ; marked by

liræ, as a shell. A very delicate species, vitreous, 10-whorled, delicately spirally lirate; the lirae distant, tew, and conspicuously once acutely keeled at the centre of each whorl.

Proc. Zool. Soc. London, 1901, II. 357.

liration (li-ra'shon), n. [NL. *liratio(n-), < *liratus: see *liratc.] A system or collection

of liræ on a shell. This liration hears small tubercles connected by short cross-ridges with the dentations of the keel.

Annals and Mag. Nat. Hist., June, 1904, p. 459.

lirazza (le-rät'zä), n. [It. dial., pejorative of lira; see liral.] A Venetian base silver coin (1762-97), equal to 30 soldi, and worth about ls. 3d. or 10 gazzettas.

lirellous (li-rel'us), u. [lirella + -ous.] Same

as lirellate.

L-iron (el'ī'ern), n. A piece of structural iron or steel which has an L-shaped eross-section.

lirone (lē-rō'ne), n. [lt., aug. of lira, a lyre: see lira².] The largest size of the viol, having

sometimes as many as 24 strings.

lis², n. 2. A gold piece of Raymond IV., Prince of Orange (1340-93).—3. A silver coin of France in 1655; also, a gold coin of the same with two angels on the reverse, support the saints, as chanted on the feast of St. Mark, April 25.

lis³ (lis), n. [Also liss: \langle Ir. lios, OIr. liss, less, W. llýs, a hall, palaec, eourt, = Bret. lez, les, also lis, leis, a court; recorded in OCeltie as a place-name, L. Lissus, Gr. Λίσσος, a city in Illyrieum, now Lisso or Lješ.] In Irish antiq., a round inclosure walled with earth, sometimes used as a fort.

[L. lisa (lē'sā), n. [Also liza; < Sp. lisa, liza, a

lisena (li-sē'nā), n. [NL. lisena, G. lisene,

a mullet found on the Pacific coast of Mexico and Central America.

lispound (lis' pound), n. [Also lispund, lispond, lesh pund; \(\) D. and LG. lispund, a contraction of Livsch pund (ML. Livonicum talentum, 'Livonian pound'): see Lironian.] A unit of weight used around the Baltic, varying at different times and places: in Denmark, 17.4 pounds avoirdupois; in Sweden, 18.7 pounds; at Riga, 18.4 pounds. In the Shetland Isles and the Orkneys it was used especially for butter and other provisions, and gradually interested from 12 pounds avoirdupois to 30 pounds, and even more.

lissactinic (lis-ak-tin'ik), a. See *lysactinic. lissamphibian (lis-am-fib'i-an), n. A member of the Lissamphibia, a division of the Amphibia which contains those species which are covered with a smooth skin.

lisse, n. 2. A fine, sheer fabric of cither silk or eotton, used for women's neekwear and for ruching.

lissoneoid (li-son'e-oid), n. [Appar. based on Gr. λισσός, smooth (?).] The stream-line curve of least resistance.

lissotrichi (li-sot'ri-kī), n. pl. [NL., pl. of lissotrichus, \langle Gr. $2\iota\sigma\sigma\delta\varsigma$, smooth, $+\theta\rho\iota\xi$ ($\tau\rho\iota\chi$ -), hair; lissotrichous races of man with smooth hair; lissotrichian (lis-ō-trik'i-an), a. [lissotrichous + -i-an.] Same as lissotrichous. list⁴, n. 11. A division or lock of the hair or

beard.

And lissome Vivien . . .

. . . letting her left hand
Droop from his mighty shoulder as a leaf,
Made with her right a comb of pearl to part
The lists of such a beard as youth gone ont
Had left in ashes.

Tennyson, Vivien, 1. 94.

listen, v. t.-To listen in, in telephony, to restore (circuits) after connection with subscribers to a condition for subsequent use.

The removal of the operator's plug end of line, or her "listening in," restores the circuits to their proper condition for subsequent use.

Elect. World and Engin., May 7, 1994, p. 875.

listening (lis'n-ing), n. The act of one who listens.

listening-cam (lis'n-ing-kam), n. In telephony, a form of *listening-key (which see).

listening-key (lis'n-ing-ke), n. In telephony, a key used by the operator to make the connections necessary to enable him to listen to a subscriber.

listerine (lis'ter-in), n. [Named from Sir Joseph Lister, an English surgeon, the founder of antiseptic surgery.] An antiseptie preparation consisting of a solution of benzoie acid, borie acid, thymol, etc.

listing-machine (lis'ting-ma-shēn"), n. A computing-machine which prints a list of numerical items, and indicates their sum. Engin. Mag., July, 1904, p. 607.
Listing's law. See *law!

listrium (lis'tri-um), n.; pl. listria (-ā). [Gr. λίστρον, a little shovel, dim. of λίστρον, a shovel.] A chitinous plate which closes the progressive track of the pedicel opening in some neotrematous brachlopods, posterior to the apex of the ventral valve: especially characteristic of the Discinidæ.

characteristic of the Discinual.

listvanite (list'van-īt), n. [Appar. G. *list-wānit, < Russ. listvennit, leafy, + -it, E. -ite².]

In petrog., a granular schistose rock, green or yellow, resembling tale-schist, and rich in quartz and dolomite: found in Ural mines.

lit. An abbreviation (b) of liter.

litaneutical (lit-a-nū'ti-kal), a. [Gr. λιτανευτικός, for supplication, < λιτανεύευν, supplicate, < λιτανείων, supplicate, control of the control of th

Lit. B., Litt. B. Abbreviations of the New Latin Litterarum Baccalaureus, Bachelor of Letters or Literature.

Maine, + -ite².] In petrog., a name proposed by Bayley (1892) for nephelite-syenite occurring at Litehfield, Maine. It is composed of albite and nephelite, with lepidomelane, and has variable amounts of orthoclase, cancrinite, and sodalite.

lisa (lé´sä). n. [Also liza; ⟨ Sp. lisa, liza, a mullet.] The Spanish (and American Spanish name of several species of mullet.

lisena (li-sē´nā), n. [NL. lisena, G. lisene, laschene, a pilaster-strip.] A pilaster with very slight projections.

lista (leˇ-seˇtä), n. [Mex. Sp., dim. of Sp. lisa: see ★lisa.] A name, in Mexico, of Mugil hospes,

letter: as, literal errors, literal rhymes.

The manuscript miscellanies of the time of James I. and Charles I. contain several copies of literal rhymes not very unlike "A, B, C, tumble down D."

**Hallicell, Nursery Rhymes, p. 135.

Literal agraphia. See *agraphia.
II. n. 2. In printing, a literal error; that is, a wrongly placed letter; a misprint.

literalistic (lit e-ral-is'tik), a. [literalist + -ie.] Having the characteristics of a literalist or of literalism.

literate, n. 3. One who can read and write: opposed to illiterate.

literatesque (lit/e-rā-tesk'), a. Having a literary quality; fit to be

-esque.] Having a literary quality; fit to be considered literature. [Rare.] literator, n. 3. One who concerns himself with verbal and textual criticism. [Rare.]

N. E. D.

Specifically. - 5. In scientific literature. n. usage, the body of monographs, original papers, etc., dealing with a particular topic: papers, etc., dealing with a particular topic. Indicational stappy (inthe particular as, the literature of the scale-insects and mealy [Gr. $\lambda i\theta o_{\mathcal{C}}$, stone, $+ \chi \rho \tilde{\omega} \mu a$, color, bugs; the literature of the reaction experiment.—6. Printed matter of any kind intended for circulation, as the circulars and reproducts of a relition as the circulars and lithography. Also, lithography. pamphlets of a political party, of an insurance company, or of a quack advertiser. [Colleq.] Lith. An abbreviation (a) of Lithuanian; (b) [l. e.] of lithograph and lithography.

litham (le'tam?), n. [Tuareg?] A cloth wound twice around the head and face, so as to leave exposed only the eyes and nose: used by the

Tuaregs of the Sahara.

Tuaregs of the Sahara.

The Touareg always keeps his face covered with a litham, a sort of mask; he lives in it, he sleeps in it, and when eating or drinking merely pulls it away from the lower part of his face and passes the food or cup up to his mouth from beneath it. The litham was undoubtedly originally intended as a protection against the sun and the scorching winds, and according to Sir Frederick Lugard, especially against the impalpable dust of the Sahara, but the original use of this garment has been so forgotten through the abuse of custom that the Touareg now considers it immodest to show his face even to members of his own family. Jour. Franklin Inst., May, 1904, p. 326.

lithanthracic (lith-au-thras'ik), a. [lithan-thrax (-ae-) + -ie-] Of lithanthrax; noting an extract formed of those portions of coal-tar which are soluble in benzol and ether.

lithatic (li-thā'tik), a. [lithate + -ic.] Pertaining to or consisting of a lithate.

II. n. A remedy supposed to cause the solution of stone in the bladder or kidney. lithical (lith'i-kal), a. [lithic1 + -all.] petrog., a term proposed by Fletcher (1895), for the texture of rocks, including the size, shape, and arrangement of the component minerals; textural.

lithify (lith'i-fi), r.; pret. and pp. lithified, ppr. lithifying. [Gr. 260c, stone. + -fy.] I. trans. To convert into stone: more commonly pet-

Both the sedimentaries and the eruptives undergo a Both the sedimentaries and the eruptives undergo a further change, which to a greater or less extent obscures their origin, for the original formations are metamorphosed, that is, recrystallized and lithifed; so that the planes of sedimentation are partly or largely obscured and the beds of lacolites, intrusive sheets, confecs, dikes, chimneys, and tuffs have a new structure imposed upon them, and are then known as metamorphic rocks.

Powell, Truth and Error, p. 49.

To become converted into II. intrans. stone.

stone.

lithionite (lith'i-e-nīt), n. [Gr. λίθιον, dim. of lithogenetic (lith"ō-jē-net'ik), a. [lithogenesis (-et-) + -ic.] Of or pertaining to lithogenesis.

niea; lepidolite. Lithionite is used as a pre-lix before the names of rocks characterized by lithography, lithographer, etc. fix before the names of rocks characterized by it: as, lithionite-granite.

ithiophorite (lith-i-of'ō-rīt), n. [NL. lithium + Gr. -\$0006, -bearing, + -ite².] An impure hydrated manganese ore related to psilomelane, but peculiar in yielding lithium.

lithite (lith'it), n. [Gr. 2:00c, stone, + -ite².] In zoöl., a calcareous particle contained in a sac, as an otolith, especially of medusæ. Parker and Haswell, Textbook of Zool., I. p.

lithobiid (li-thō'bi-id), n. and a. I. n. A member of the myriapodous family Lithobiidæ. II. a. Having the characteristics of or belonging to the family Lithobiidæ.

lithobilic (lith-ō-bil'ik), a. [Gr. λίθος, stone, + L. bilis, bile, + -ic.] Noting an acid, a

literal. I. a. 6. Affecting or relating to a letter: as, literal errors, literal rhymes. colorless compound, $C_{30}H_{58}O_6$, contained, to-Lithological heterogeneity. See *heterogeneity. See *heterogeneity. gether with lithofelic acid, in oriental becoars, neity, the gall-stones of an antelope. It forms militholysis (li-thol'i-sis), n. (Gr. $\lambda i\theta o \varepsilon$, stone, croscopic crystals, melts at 199° C., and gives $+\lambda i \sigma \varepsilon$, dissolution.) Same as $+\lambda i tho dialysis$. an intense red-violet color with hydrochloric acid. (li-thom'e-ter), n. [Gr. $\lambda i\theta o \varepsilon$, stone, $+\mu \epsilon \tau \rho \sigma v$, measure.] An instrument for stone, $+\mu \epsilon \tau \rho \sigma v$, measure.] An instrument for

lithobolia (lith-ō-bō'li-\(\bar{u}\)), n. [Gr. λιθοβολία, \langle λιθοβόλος, throwing stones, \langle λίθος, stone, + $\beta \acute{a}\lambda \lambda \epsilon \imath \nu$, throw.] Stone-throwing, as a superstitions ceremony or traditional custom. This stitious ceremony or traditional custom. This custom was common in ancient Greece, but was especially associated with the Damia and Auxesia at Trezen, in which the women pelted each other with stones. There seems to have been also a lithobolia at the Eleusinia. The custom appears in the Roman festivals of the None Caprotine and Lupercalia. It has been found in Poland and other countries.

lithocarbon (lith- $\bar{\phi}$ -kär'bon), n. ithocarbon (lith- ϕ -kar' bon), n. [67. $\lambda u v v_{\phi}$] stone, + E. earbon.] An asphalt-like matelithmethrotomy (lith ϕ -nef-rot' ϕ -mi), n. rial which is extracted from a bituminous limeless [Gr. $\lambda u v v_{\phi}$] in $v v_{\phi}$, kidney.] In $v v_{\phi}$ in Uyalde county, Texas: incision into the kidney for the purpose of stone occurring in Uvalde county, Texas: used in making varnish and in insulating

electric conductors.

lithochromography (lith/ō-krō-mog'ra-fi). n. [Gr. λίθος, stone, + χρωμα, color, + -γραφια, ζγράφειν, write.] Same as chromolithography. [Gr. $\lambda i\theta o \varsigma$,

The occurrence in many areas of similarly regular networks of streams in which the elements are essentially straight lines in parallel series over considerable distances has now long been known, and has been given an adequate explanation by Daubrée as conditioned by the system of fractures (lithoclases) of the region, in part by the faults (paraclases) and in part by the joints (diaclases).

W. H. Hobbs, in Jour. of Geol., Nov.—Dec., 1902, p. 886.

W. H. Hobbs, in Jour. of Geol., Nov.—Dec., 1902, p. 886.

W. H. Hobbs, in Jour. of Geol., Nov.—Dec., 1902, p. 886.

W. H. Hobbs, in Jour. of Geol., Nov.—Dec., 1902, p. 886.

W. H. Hobbs, in Jour. of Geol., Nov.—Dec., 1902, p. 886.

lithoclasty (lith'ō-klas-ti), n. [Gr. λίθος, stone, + κλαστός, broken, $\langle κλαν$, break.] The crushing of a stone in the bladder; lithotrity.

ing of a stone in the bladder; lithotrity.

ithocolla (lith-\(\tilde{0}\)-kol\(\frac{2}{3}\)), n. [Gr. $\lambda(\theta)$ 0c, stone, $+ \kappa \delta(\lambda)\lambda a$, glue.] A trade-name for a cement used to unite broken pieces of marble or other + $\phi \omega v h$, sound.] A surgical instrument which lithocolla (lith-ō-kol'ä), n. [Gr. λίθος, stone,

ithoculture (lith'ō-kul-tūr), n. [Gr. λίθος, stone, + L. cultura, culture.] In anthrop., that type of culture in which stone is used as the most important material for making implements.

The Serl Indians of the Gulf of California as typical of The Serl Indians of the Gal.. the beginnings of lithoculture.

Amer. Anthropologist, 1902, p. 561.

taining to or consisting of a lithate.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the United States. The name is also applied to artificial mineral waters of similar constitution.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithodesma (lith-ō-des'mä), n.; pl. lithodesmata (-ma-tä). [Gr. λίθος, stone, + δέσμα, a bond.]

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithing solution.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithing solution.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithing solution.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithing solution.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithing solution.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithing solution.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the lithing solution.

Lithia water, mineral water of similar constitution.

Lithia water of similar constitution.

Lithia water of similar constitution. lime in the form of an accessory shelly piece which serves for the reinforcement of the resilium. Also called ossiculum. W. H. Dall. lithodialysis (lith"ō-dī-al'i-sis), n. [NL., $\langle Gr. \lambda i\theta o \varepsilon$, stone, $+ \delta i a \lambda \nu \sigma \iota \varepsilon$, separation.] The solution or reduction to a pulverulent condition of a biliary or vesical calculus.

lithofellic (lith-ō-fel'ik), a. [Gr. λίθος, stone, + L. fel (fell-), gall, + -ic.] Pertaining to Th. let (Jett-), gain, The landing to gall-stones.—Lithofellic acid, a colorless compound, 0_{20} ll $_{36}$ 04, 18_{20} 0, contained, together with lithobilic acid, in oriental bezoars, the gall-stones of an antelope. It forms microscopic hexagonal crystals, melts at 204° C, and gives an intense red-violet color with hydrochloric

lithog. An abbreviation of lithograph or lithog-

lithogenesis (lith - ō - jen'e - sis), n. [Gr. λίθος, stone, + γένεσις, origin.]
1. The production or origin of minerals or rocks; lithogenesy.—
2. In pathol., the formation of concretions in the body.

| Litteræ American | Litteræ Ame

lithol. An abbreviation of lithology.
Lithologic individual, an important geological formation in a given district, consisting of one kind of rock.

A map whose cartographic units were discriminated solely on the lithologic characters of the so-called 'lithologic individuals' was not entitled to be called a geologic map. It was really a lithologic map.

Science, Feb. 28, 1902, p. 351.

determining the size of a stone in the bladder. lithometra (li-thom'e-trā), n. [NL., < Gr. λίθος, stone, + μήτρα, uterus.] A condition in which there are more or less extensive calcareous or osseous concretions in the wall of the

lithonephritis (lith"ō-nef-rī'tis), n. [NL., Gr. λίθος, stone, + νεφρίτις, inflammation of the kidney.] Inflammation of the kidney

caused by the irritation of calculi.

removing a stone.

lithopædion, lithopedion (lith-o-pe'di-on), n. Same as lithonædium.

ithophany (li-thof'a-ni), n. [G. lithophanie; as lithophane + -y3.] The art of making porcelain transparencies for lamp-shades or stone, $+\chi\rho\bar{\rho}\mu\alpha$, color.] Same as chromolithography. Also lithochrome. Igr. $\lambda i\theta\sigma\zeta$, stone, $+\chi\rho\bar{\sigma}\mu\alpha$, color.] Gr. $\lambda i\theta\sigma\zeta$, stone, lithoclase (lith' $\bar{\phi}$ -kl $\bar{a}z$), n. [Gr. $\lambda i\theta\sigma\zeta$, stone, $+\kappa\lambda\dot{a}\sigma\zeta$, breaking.] A fracture in a rock. See *diaclase.

phil, $\langle Gr. \lambda i\theta o \varsigma$, stone, + $\phi i\lambda \epsilon i v$, love.] Lithophilous.

design to the surface of a plate of zinc or aluminium from which impressions are after-

gives forth a plainly audible sound when it touches a calculus in the bladder.

ithophotogravure (lith of configuration), n. [Gr. λιθος, stone, + E. photogravure.] A photomechanical printing-process in which a lithographic stone is uniformly etched with fine lines; a photographic transfer is then applied, and the stone etched a second time, and a print is taken as in ordinary lithography.

lithophyte, n. 2. In phytogeog., any plant which grows upon the surface of rocks or stones, aerial or submerged, with or without the presence of humus: sometimes opposed to

*chasmophyte (which see).

lithosiderite (lith- $\bar{0}$ -sid'e-rīt), n. [Gr. $\lambda i\theta o \varsigma$, stone, $+ \sigma i\delta \eta \rho o \varsigma$, iron, $+ -ite^2$.] A meteorite intermediate in character between the stones (aërolites) and the irons (siderites), characterized by nickeliferous iron which forms a coherent mass even in sections, the silicates term siderolite (which see). See also *meteor-

lithosis (li-thō'sis), n. [NL., (Gr. λίθος, stone, +-osis.] Same as pneumonoconiosis. Encyc. Brit., XXXI., Fig. 16, opposite p. 513. lithosperm (lith'ō-spèrm), n. A plant of the

genus Lithospermum.

Lithotomy forceps. See *forceps.

lithotype, n. 3. (a) The art of reproducing type-writing print on lithographic stone or aluminium plate. (b) An apparatus or making the complement these operations. chine that combines these operations. (c) The print so produced.

Lit. Hum. An abbreviation of the Latin

mass, that is, one like fine porcelain, aphanitic, and not vitreous.

Latin Litterarum Magister, Master of Letters

(or Literature).

Litmus-milk, in bacteriol., a medium used for detecting acid-producing organisms.

Litopterna (lit-op-ter'na), n. pl. [NL., so named in allusion to the character of the caleaneum; ζ Gr. λιτός, smooth, plain, + πτέρνα, heel.] A suborder of extinct ungulate mamsouth America of which Macrauchenia is a typical example. The canines are small or wanting, endsof cervicals flattened, femur with a third trochanter, bones of carpus and tarsus not interlocking or afternating. In general build the members of the group resembled horses or llamas. Ameghino, 1889.

Lit-par-lit (le par-le injection or saturation. See injection.

Lit-par-lit (le par-le injection.

Lit-par-le injection.

Lit-par-le injection.

Lit-par-le injection.

Lit-p South America of which Macrauchenia is a

Tables, p. 55.
Litt. An abbreviation of the French ltttéra-

teur, a literary man.

litter, n. 8. In forestry, the rubbish of dead liven, v. II. intrans. To become lively or litter, n. 8. In forestry, the rubbish of dead liven, v. II. intrans. To become lively or more lively; generally with up: as, he livened

litteratrice (lit-e-ra-tres'), n. [F. littératrice, liveness (liv'nes), n. [live², a., +-ness.] The \(\times\) NL. "litteratrix, fem. of litterator: see litera-quality of being alive: energetie: alert tor.] A woman engaged in literary work; a

woman whose profession is literature.

little-good (lit'l-gud), n. 1. See little-gude.—

2. The sun-spurge or wart-spurge, Euphorbia

Helioscopia.

Melioscopia.

little-peach (lit'l-pēch), n. See *peach¹.

little-wale (lit'l-wāl), n. The gromwell, Lithospermum officinale. Also lithywale.

Littoral benthos. See *benthos.—Littoral race. Sce *Atlanto-Mediterraneam.

Lituaria (lit-ū-ā'ri-ā), n. [NL. (Valenciennes. 1850), ⟨ L. lituus, a crooked staff, a curved through the control of the litture. The transport of the litture. trumpet: see lituus.] The typical genns of

trumpet: see tituus.] The typical genns of the family Lituaridæ. (lit-ū-ā-ri-dē), n. pl. [NL., < Lituaria + -idæ.] A family of sea-pens with short spicules. It contains the genera Lituaria, Veretillum, Policella, and Clavella, found mostly in the Atlantic and Indian Oceans.

lituitoid (li-tū'it-oid), a. [Lituites + -oid.]

Resembling or related to the genus Lituites.

Liturg. An abbreviation of liturgies.

liturgician (lit-èr-jish'an), n. [liturgic + -ian.] A student of liturgies or liturgies.

liturgiological (li-tèr'ji-ō-loj'i-kal), a. [liturgiolog-y + -ical.] Of or pertaining to liturgiology

liturgistical (lit-er-jis'ti-kal), a. [liturgist +

iturgistical (lit-er-jis ti-kal), a. [nuargist + -ic-al.] Of or pertaining to liturgists.

liturgize (lit'er-jiz), v. i.; pret. and pp. liturgized, ppr. liturgizing. [liturg-y + -ize.] To perform a liturgical aet; celebrate liturgically. [Rare.] N. E. D.

Litvak (lit'väk), n. [Yiddish, < Pol. Litwak, a Lithrapion] A name given to laws of the

Lithuanian.] A name given to Jews of the Lithuanian provinces, by their coreligionists of the Polish government. The former, in turn, call the latter Pollacks or Pollackim. *Pollack. There is a marked difference in the Yiddish jargon as well as in the mannerisms of the two classes.

liv A simplified spelling of live.

liv. An abbreviation (a) of the An abbreviation (a) of the French livre, book; (b) of the French lirre, pound (weight liver-pancreas (liv'er-pan'krë-as), n. A hepaor coin).

live, v. i.—To live with hounds, in hunting, to keep up with the hounds; live the pace.

The check . . . was most welcome to the contingent who still lived with haunds.

St. James's Gazette, Nov. 15, 1898. N. E. D.

7. In mach., having motion, as distinguished from fixed or stationary: as, a live

Of course, this construction carried with it the live rear or course, this construction carried with it the are rear axle, a large majority of the ears shown being equipped with these, which has led to a close fight for supremacy between the spur and bevel differential gear, the spur, however, being still in the lead.

Sci. Amer., Feb. 7, 1903, p. 91.

8. In elect., connected directly or indirectly with a source of electric power, whether earrying current or not: said of a circuit.—Live liver-rock (liv'er-rok), n. Homogeneous sand-load, a moving load; a load which is not fixed in position, but may move: as, the load on a bridge when a vehicle passes over it, as distinguished from the load due to the weight of the bridge itself, called the dead load, liver-shark (liv'er-shark), n. Same as bask-liver-shark (liv'er-shark), n. Same as bask-liver-shark (liv'er-shark), n.

It is designed that these stiffening trusses shall carry their own weight, neither more or less—the live load, that is the elevated ears, trolley cars, etc., and the load of the floor system, being carried by the nain cables.

Sci. Amer., Jan. 16, 1904, p. 38.

mals from the Mioeene and Pleistocene of monoclinic crystals in the dolomite of the Bin-livor, n. 3. Lividity; the mark of a blow. nenthal, Switzerland.

Perez has proposed a classification of characters, based solely on an objective phenomenon,—viz., the movements, their rapidity and energy. He distinguishes, in the first place, the lively, the slow, and the eager; further, as mixed types, the lively-ordent (vifs-ardents), the slow-ardent, and the deliberate (pondérés).

Ribot (trans.), Psychol. of Emotions, p. 384.

up a bit after dinner.

The 'tiveness' of the New Scholarship. N. E. D. Saturday Rev., March 22, 1890, p. 357. Saturday Rev., March 22, 1890, p. 357.

Live-oak, n.—Cañon Itve-oak, Quercus chrysolepia, an evergreen oak of the Pacific coast, which ranges from southern Oregon to Lower California, New Mexico, Arizona, and Sonora, but attains its maximum development in central California, both in the Coast Ranges and the Sierras. It is a very valuable tree, its wood being extensively used in the manufacture of agricultural implements and wagons. The under surface of the leaves is fulvous with a thick tomentum of stellate hairs. Also called golden oak, maul-oak, and Valparaiso oak.

S. liver? n. 3. Tenpoer or irritation as a result.

liver2, n. 3. Temper, or irritation, as a result of a disorder of the liver. [Slang.]

The Colonel . . . carries a power av liver undher his right arrum whin the days are warm an' the nights chill. . . . Tis he sez so. 'I'm all liver to-day,' sez he; an' wid that he ordhers me ten days.

R. Kipling, The God from the Machine, in Soldiers

[Three, p. 11.

[Three, p. 11.

Aberrant duct of the liver. See *aberrant.—Brimstone liver, a condition observed in certain cases of congenital syphilis in which the liver is enlarged and is of a deep-yellow color.—Gin-drinkers' liver, cirrhosis of the liver.—Iced liver. See *iced.—Liver loaf. See *loaf!.—Livers of antimony. See *thio-antimonite.—Nutmeg liver, a liver which on section presents a mottled appearance, the result of cirrhosis.—Sago liver, a liver which is the seat of amyloid degeneration, the changed acini resembling boiled sago.—Wandering liver. Same as *footing liver.

[Increase of content of the liver is a liver which is the seat of amyloid degeneration, the changed acini resembling boiled sago.—Wandering liver. Same as *footing liver.

liver-berry (liv'er-ber'i), n. Any plant of the

genus Streptopus. See Streptopus. liver-cylinder (liv'ér-sil'in-dér), n. In embryol., one of the originally solid cords of eells proliferated from the walls of the liver diverticulum in the embryos of higher vertebrates.

liver-fluke, N.—Astatte liver-fluke, Opisthorchis sinensis (Cobbold, 1875), a trematoid worm 10 to 20 millimeters long, found in the liver, spleen, and intestine of man and of cats, in Asia, and producing a serious incurable disease known as opisthorchiasis.

liverish (liv'er-ish), a. [liver² + -ish¹.] 1. Like liver in consistency or color.—2. Having symptoms of a disordered liver; bilions. [Colloq.] Hence—3. Bad-tempered; irritable, as if having a disordered liver. [Colloq.] liver-lily (liv'ér-lil'i), n. See *lily.

liverpool (liv'er-pöl), n. [Named in reference to the 'Liverpool Grand National' steeplechase, run at Aintree near Liverpool, since 1839.] In steeple-chasing, a jump constructed (according to the rules of the National Steeplechase and Hunt Association) of a ditch five feet wide and two feet deep, guarded on the taking-off side by a single rail, and having on the landing side a fence of not less than four feet and six inches in perpendicular height.

Liver(pool) + puddle (humorously substituted for pool in allusion to the city's muddy waters) + -ian.] I. a. Of or pertaining to Liverpool.
II. n. An inhabitant of Liverpool.

ing-shurk

liver-starch (liv'er-stäreh), n. Same as glycoliverwort-lettuce (liv'er-wert-let"is), n. See

*lettuce.

livyere (liv'yer), n. [Also liveyere; lit., one of those who 'live here.] In Labrador, and hence in Newfoundland and elsewhere, a native or a permanent resident of that country: a term universally used between themselves and others. [Local.]

Even tea and molasses, usually found amongst the "livyeres" (live-heres) of the coast, were lacking.

Dillon Wallace, The Long Labrador Trail, xxiii.

liza, n. See *lisa.

lizard, n.—Bearded lizard. See ★jew-lizard.—Bowline-lizard (naut.), a short pendant with a thimble
spliced in each end; a part of the bowline-bridle on the
leeches of square sails.—Buntline-lizard, a piece of rope
having two legs, with thimbles spliced into the ends,
through which the buntlines reeve.—Greaved lizard,
an American lizard of the family Teinide, a group characterized by the absence of a bony roof to the temporal
fosse, and by the shields of the head being completely
free from the underlying bones; while there are no hony
plates on the body.

The general lizards computes over one hundred spaces.

The greaved lizards comprise over one hundred species, arranged in thirty-five genera.

R. Lydekker, Nat. Hist., p. 153.

R. Lydekker, Nat. Hist., p. 153.

Horned lizard, a book-name for the horned toad, coined with the idea of correcting the wrong impression that might be conveyed by the commonly used name.—Knobnosed lizard, Lyriocephalus scutatus, a Ceylonese species.—Pine-tree lizard, Sceloporus undulatus: norcommonly known as fence-lizard (which see).—Ringneeked lizard, Crotaphytus collaris, a common and beantiful species of the southwestern United States, which has a conspicuous black mark just above the front legs.—Rough-tailed lizard. Same as starred *tizard (a).—Rough-tailed lizard, Lophurus auboinensis, a large species from Java, Celebes, and the Moluccas, having a high creat on the front half of the tail.—Scale-footed lizard, any one of the family Pygopidæ in which the fore limbs are wanting and the hind legs are represented externally hy rounded, scaled flaps.—Spiny lizard, Moloch horridus, a curious little Australian species. Also called mountain devil.—Starred lizard. (b) The thorn-tailed lizard, uromastic acanthinurus.

lizard-canary (liz'ärd-ka-nā"ri), n. A breed

lizard-canary (liz'ard-ka-na"ri), n. of canary-birds having the top of the head marked with a well-defined cap of clear gray or yellow. The body feathers have dark centers, and are almost black at the tips; they are edged with the color of the eap and their overlapping gives the bird a spangled appearance.

lizard-catcher (liz'ard-kach"er), n. One of the larger American enekoos, Saurothera dominicensis, found in Hayti: a near relative of the rain-bird, of Cuba, S. vetula.

L. J.; pl. L. JJ. An abbreviation of Lord

L. L. An abbreviation of limiting limen.

LL., L. L., L. Lat. Abbreviations (a) of Late Latin; (b) of Law Latin; (c) of Low Latin.

An abbreviation of Lady Literate in L. L. A. See the extract.

The St. Andrews diploma of L. L. A.—which means 'lady literate in arts'!—has been given this year on examination to 101 candidates. Science, Aug. 9, 1904, p. 256.

llama-twill (lä'mä-twil), n. A three-harness twill. Also called drilling-, regatta-, jean-, jeanette- (etc.) twill.

Llanberis (thlan-ber'is), n. [W., a local name.] In gcol., the lowest sedimentary division of the Lower Cambrian in Wales. It rests on volcanic rocks.

llanchama (lyän-chä'mä), n. [Native name.] On the upper waters of the Marañon river in Peru, Couratari Tauari, a forest-tree belong-Peru, Couratari Tauari, a forest-tree belonging to the family Lecythidaccæ, widely spread in tropical South America. It yields an excellent bast-fiber, and the inner bark is used by the Indians for blankets, sleeping-mats, and clothing, after having been prepared by soaking, washing, and pounding, somewhat in the same manner as tapa is prepared from the bark of the paper-mulberry by the Polynesians. Articles of clothing and ornament made of llanchama bark exhibited at the World's Columbian Exhibition, are now in the collection of the United States National Museum. Also called tahuari and tauari.

Llanvirn (thlan-vērn'), n. [W., a local name.] In geol., a term introduced by Hieks to include certain Lower Silurie strata in Wales, which comprise the upper part of the Arenig and the lower part of the Llandeilo, about 2,000 foot in all feet in all.

Llb. An abbreviation of the Latin libra,

used for roller-bearings, etc.

live-car (līv'kār), n. Same as live-box.

livedo (lī-vē'dō), n. [L. livedo, ⟨livere, be bluish or livid: see livid.] Cyanosis.

liveingite (liv'ing-īt), n. [Named after G. D. Liveing, an English ehemist.] A lead sulpharsenite, Pb4As6S13, which occurs in liveingite (liv'ing-named after G. D. Liveing and a liveing technique) and supplied spelling of live-liveing and spinate in livery-one (liv'er-i-fīn), n. The fine paid on entering one of the livery companies in London: the entrance fee. N. E. D.

Same as live-box, 2.

liveing-tan'), n. [Native name.] In Porto Rico, Calalhea allouia, a plant about three feet high, belonging to the Marantaeeæ. It bears numerous erisp, egg-shaped, edible tubers having an agreeable nutty flavor. Also written leven.

L. L. L. An abbreviation of Lord Lieutenant of Ireland.

LL. M. An abbreviation of the Latin Legum Magister, Master of Laws.

Magnster, Master of Laws.

Lloyd's numbers. Same as *Lloyd's numbers used in determining the scantlings of all parts of a merchant ship of any given size and type according to Lloyd's rules (see *Lloyd's rules). The pirst, transeres, or framing numeral is the number obtained by adding together the depth, half-breadth, and half-girth of the vessel measured in feet; by entering the tables in the rules with this number, the sizes of all transverse parts such as frames, floors, and bulkheads may be found. The second, longitudinal, or platting numeral is the product of the pirst numeral by the length of the vessel in feet; this number is need in a similar manner to determine the sizes of longitudinal parts such as outside plating, keel, keelsons, etc. Also called Lloyd's Register containing detailed rules and regulations for the building and classification of merchant vessels. In this book the sizes of all parts of the various types of vessels are specified in detail and requirements as to the qualities of material used and methods of inspection and classification are given. Separate sets of rules are published for iron vessels, for steel vessels, for wooden vessels, and for yachts.

LLOY American Loyd's Rules, a book issued the containt vessels, and for yachts.

LLOY Children Loyd's Rules, a book issued to the qualities of material used and methods of increase are published for iron vessels, for steel vessels, for wooden vessels, and for yachts.

lluchu (lyŏ'chō), n. [Aymará.] See ★chullu. L. M. An abbreviation (a) of Liecntiate in Medicine; (b) of Liecntiate in Midwifery; (c) [cap.] of long meter.

load2, n. 8. In elect., the output of a generaload², n. 8. In elect., the output of a generator, motor, or power-station. The load of a direct-current generator depends upon the ohmic resistance of the receiving circuit and is measured in watts, kilowatts, horse-power, or any convenient unit of activity or power. If the electromotive force of the generator is E and the current in the line is 1, the product El gives the load in watts. If there be any source of counter-electromotive force in the circuit, the electromotive force used in overcoming resistance. E, is less than E and the load is E' 1. In the case of a direct-current motor the load, w, or useful output, is given by the equation $\mathbf{w} = 2\pi \mathbf{n} \mathbf{T}.$

$$w = 2\pi nT$$
,

where T is the effective torque and u is the speed of the motor. The load of such a motor varies with the current supplied to it and is expressed by means of a load curve. In the case of a series-motor on a constant-potential circuit the load curve has the form shown in Fig. 1. It rises

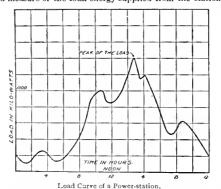
LOAD CURVE CURRENT

Load Curve of a Series-motor.

onstant-potential cir-wn in Fig. 1. It rises to a maximum for a certain value of the current and then falls gradually to zero as the current is further increased. Such a curve is sometimes called the load characteris-tic. The term load curre is also applied to any curve indicat-

Load Curve of a Series-motor.

Curre is also applied to any curve indicating the load of a machine, as a function of its speed, electromotive force, field excitation, or of any factor upon which in operation it may depend. In the case of an alternating-current machine, as a generator or transformer, the energy consumed in the receiving circuit, which measures the load of the machine, depends on the impedance of the circuit, the difference of phase between the electromotive force and current, and the wave form. We have therefore to distinguish, in such cases, between the inductive load of a circuit having inductance as well as resistance and the non-inductive load of a circuit whose impedance is solely that due to resistance. The load of a power-station or lighting-station, which varies with the time of day, is likewise represented by a load curve. The maximum of this curve, which indicates the time when the demand for power is greatest, is called the peak of the load. The area inclosed by the curve affords a measure of the total energy supplied from the station.



—Curvs of loads. See ★curves of ship calculations.
—Dead load. (a) A load which stays in the position in which it is placed; a stationary load; a fixed load. (b) In a bridge or other structure, the fixed weight of the structure due to the material of which it is made, and structure due to the materiel of which it is made, and which is not removable, or affected by movable weights on the floor or roof. (c) In railway service, the weight of cars, trucks, engine, and tender, which must be hauled in order to carry the paying houd of freight or passengers.—Inductive load, in elect., load due to the inductance in the receiving circuit of a generator. See *load2, 8.—Lighting-load, that portion of the load of a generating station which is used for the supply of electric lamps.—Load characteristic, in elect., a curve showing the power output or load of an alternating-current machine, generator, or motor, as a function of the current. See *load2, 8.—Load current. the current in the receiving circuit of an tor, or motor, as a function of the current. See *load2, s. Load current, the current in the receiving circuit of an electric generator. See *load2, s.—Load curve. See *curve and *load2, s.—Load-diagram of a station, a

curve which represents the output of a station for a given time, say for the twenty-four hours of the day. Houston, Elect. Dict.—Load factor. See *factor.—Load of a dynamo, the current delivered by a dynamo.—Motor load, that portion of the load of an electric generating station which is used in operating motors.—Non-inductive load, in elect., load due to the olmic resistance of the receiving circuit of a generator. See *load2, S.—Paying load, in railway service, the net weight of freight to the sengers which is moduletive of income. See dead to the source. [Australia of the sengers which is moduletive of income. See dead to the source.] Paying load, in railway service, the net weight of freight or passengers which is productive of income. See dead **load (c) -- Peak load. See **peak-load. Rolling load, a weight on a bridge or other structure borne upon the wheels of a train or wagon which passes over it. Also called the moving load.—Tidal load, the pressure, weight, or load imposed on any portion of the earth's crust by the inflow of an oceanic tidal wave; also the increase of pressure, either upward or downward, due to the tidal stress produced by the action of the san and moon on the rotating crust of the earth.—Top load, in lumbering, a load of logs piled more than one tier high, as distinguished from a **bunk-load."

load², r.t. 8. To add to (the net amount of the premium fixed as the actual cost of issuing a policy of insurance) such an amount as will cover the office expense of carrying the policy. loaded2, p. a. 3. Filled with extraneous substances, especially for the purpose of fraudu-

lently increasing the weight.

To compare the difference between a pure and toaded sponge, take a 2 ounce sponge of each grade, wetting them both up, and it will be found that the pure article will measure about nineteen inches in circumference, or thereabout. The loaded article in comparison will only measure about sixteen inches in circumference and less.

Sci. Amer. Sup., Feb. 14, 1903, p. 22670.

4. Coated or furred: noting a condition of the tongue.—Loaded line. See *loading, 7.—Loaded nucleus. See *nucleus. Loaded nucleus.

loader, n.—Top loader, in lumbering, that member of a loading-crew who stands on the top of a load and places logs as they are sent up.

load-factor (|\delta d\)/fak*tor), n. The ratio of the

average to the maximum demand for power from an engine, motor, or power-plant. See

The load-factor of most public hydraulic power supplies is considerably under 30 per cent.

Encyc. Brit., XXXI. 894.

load-governor (lod'gnv"er-nor), n. A governor which operates when the load on the

engine changes: it does not keep the speed of the engine very uniform. loading, n. 6. The process of filling silk

loading, u. 6. The process of filling silk with metallic compounds, for which it has a great attraction when in solution, in order to increase its weight.—7. In elect., a method invented by M. J. Pupin, of reducing the attenuation of telephonic currents in underground cables and long-distance lines (and therefore improving the operation). It consists in inserting into the telephone-line at certain definite intervals self-induction coils, which neutralize the deleterious effect of the electrostatic capacity of the line.—8. The exorbitant profit exacted from workmen under the truck system (which see, under truck1). [Trade-union slang.]

Notwithstanding a nominal uniformity of rate, both labor, cost and real wages will vary according to the extent of the truck business in each firm, the economy and ability with which this subsidiary store-keeping is managed, and the profit or "loading" which each employer chooses to exact, the latter amounting, in effect, to a fraud upon the workman.

Webb, Industrial Democracy, I. 318.

loading-berth (lo'ding-berth), n. Naut., a wharf or other place where a vessel takes in her cargo; a place convenient for a vessel to ship her freight.

loading-chain (lo'ding-chan), n. In lumbering, a long chain used in loading or piling logs with horses. Also called decking-chain. loading-jack (lo'ding-jak), n. A platformed

framework upon which logs are hoisted from the water for loading upon ears.

load-panel (lod'pan'el), n. In elect., the panel

of a central-station switchboard provided with apparatus for indicating the total stationload. Houston, Elect. Dict.

load-spring (lod'spring), n. A spring on an engine-governor by compressing which a greater load can be put on the governor, thus changing the speed at which it allows the engine to run.

Ine engine to run.

loaf¹, n.—Chicken-loaf, chicken prepared somewhat like veal-loaf, but without ham, and with slices of hard-boiled egg in the bottom of the mold, so that they appear imbedded in the loaf when the mold is taken oft.—Cottageloaf. See ★oottuge.—Liver-loaf, a preparation somewhat like a pate de foie gras, but with flour panada and butter mixed in it: served cold, in slices.—Mushroom-loaf, a loaf of bread hollowed out and filled with a preparation of mushrooms, with seasoning.—Oystera preparation of mushrooms, with seasoning.—Oyster-loaf, an article of food made like mushroom-loaf with oysters in place of the mushrooms.—Veal-loaf, minced yeal with ham and various spices, made into the form of a loaf and baked; caten sliced and cold.

loaming (lo'ming), n. In mining, a method of prospecting for gold-veins the outcrop of which is covered and concealed, by washing numerous samples of earth and thus tracing the gold to its source. [Australia.]

loam-mill (lom'mil), n. A mixing and pulverizing mill used to mix loam for foundry

Loan for use. Same as commodate.—Maritims loan, a loan of money upon the security of a vessel or its contents. The contract provides that if the security is unavoidably lost the loss shall fall upou the lender, unless a part is saved equaling the value of the loan. Such a loan is exempt from usury laws.

Loanda thimbles. See *thimble.

loan-form (lon'fôrm), n. In philol., a form that is borrowed from another language. Compare loan-word.

Wechkawo selijil (obviative) is a Passamaquoddy loan-form; in Passamaquoddy wechkoyalijil. Amer. Anthropologist, Jan.-March, 1902, p. 31.

loan-god ($l\bar{o}n'god$), n. An alien god adopted in the worship of a particular tribe or people.

The reply to me takes the form of ignoring, or disabling the evideuce, or of asserting that these superior beings are 'loan-gods,' borrowed by savages from Europeans or Islamites.

A. Lang, Magic and Religion, ii.

loan-myth (lon'mith), n. An alien myth adopted by a people.

Their mythologies . . . resembled each other in some points . . . but the inference that many Greek myths are "loan-myths," as certain Homeric words are "loan-words," from Phoenicia, must not be too hastly drawn. A. Lang, Myth, Ritual, and Religion, I. 322, note.

loathsum, a. A simplified spelling of loathsome.

lob1, n .- Dealer in lobs, in cricket, an underhand bowler.

lob1, v. t. 3. In mining, to break (ore, etc.) into pieces with a hammer for sorting.

Lobachevskian (lo-bä-chef'ske-an), a. Pertaining to or created by the Russian geometer Nicolai Ivanovich Lobachevski (1793-1856).— Lobachevskian geometry, space. See *geometry,

lobal (lō'bal), a. [lobe + -all.] Having lobes; lobed: said of wheels or cams.

Noting an acid, a colorless compound, C₁₇H₁₆O₅, contained in the lichen Lobaria adusta. It forms warty aggregates.

lobbyism (lob'i-izm), n. The practices of a

lobbyism (lob'i-izm), n. The practices of lobbyist; the system of lobbying. [U. S.]

a datista. It forms warty aggregates.

I lobbyism (lob'i-izm), n. The practices of a lobbyist; the system of lobbying. [U. S.]

lobe, n. (e) In the septate cephalopods like Nautilus and the ammenites, any division of the septal suture which makes a convex curve toward the apex: contrasted with saddle, which is a curvature toward the aperture. (f) In the trilobites, one of the divisions of the glabella; a glabellar lobe. (g) In geol., a projection from a glacier, it like a peniusula: especially nsed of the continental icesheet of the glacial epoch. See ★cole-be. Adipose lobe. See ★adipose.—Antennal lobe, in entom., one of two hemispherical lobes forming a part of the brain. They are connected with a medullary mass and also in part attached to the optic ganglia. Also called olfactory tobe.—Columellar lobe. See ★columellar.—Electric lobe, a lobe of the medulla oblongata of the electric apparatus.—Esophageal lobes, the tritocerebrum of an insect's brain; two lobes situated far apart in front of the mouth and connected by a boudle of fibera passing behind the esophagus. From them the labrum and viscem are innervated.—External lobe, in the summonoid cephalopods, the sutural lobe formed on the outer or ventral side of the septum and divided by the mesal plane.—Olfactory lobe. (b) Same as antennal ★lobe.—Oral lobes, in lamellibranchs, the labial palps.—Palpebral lobe, in the trilobites, that portion of the cranidium which projects into the ocular curve of the free cheeks; usually, the depressed curved area behind and within the creation of the eye. In primitive Cambrian types (Paradoxids) it is long and crescentic; in secondary derived types (Bronteus and Phacops) it is short and semicircular; in certain highly specialized types (Encrinurus and Acidaspis) it is elevated to form the inner side of a peduncle upon the raised summit of which is the visual surface of the eye.—Paranal lobes, in entom, two subtriangular plates placed on either side of the anus in the cockroach and other insects, and in the nymphs of the drag

lobe-angle (lōb'ang'gl), n. The angle at the Lobulus appendicularis. Same as *lobus floccenter of a shaft occupied by a cam or by a culi.

| content of a shaft occupied by a cam or by a culi. | interiores, small lobes or diverticula | inter lobe-angle (löb'ang"gl), n. The angle at the center of a shaft occupied by a cam or by a culi.

lobe on a wheel attached to the shaft; the angle through which the shaft turns while the angle through which the shaft turns while the mesencephalon and lie just behind the infundibulum.

eam or lobe is acting.

lobelacrin (lō-be-lak'rin), n. [Lobel(ia) + acr(id) + in².] Said to be the acrid lobelicacid salt of the alkaloid lobeline, contained in

Lobelia inflata.

Lobelia, n.—Bladder-pod lobelia, the official lobelia, Rapuntium inflatum.—Blue lobelia, Rapuntium siphiliticum. Also called great lobelia and blue cerdinal-flower.—California lobelia, Bolelia putchella, a low-spreading annual plant of the Sacramento Valley, Nevada, and Oregon, closely related to Rapuntium. It has intensely azure-blue flowers with a large whitish or vellow eenter. w eenter.

lobelianin (lō-bē'li-a-nin), n. [Lobelia + -an A volatile oil contained in commereial lobelia from Indian tobacco, Lobelia inflata. It is crystalline and melts at 71° C. lobelic (lō-bē'lik), a. [Lobelia + -ic.] Per-

taining to lobeline.—Lobelic acid, a colorless compound, present in combination with lobeline in Indian tobacco, Lobelia inflata, It forms non-volatile acicular crystals.

Lobites (lō-bī'tēz), n. [NL., ζGr. λοβός, a lobe, + λίθος, a rock.] A genus of ammonoid cephalopods from the Alpine Trias, constituting the family Lobitidæ. It is an isolated group with a phylogerontic construction of the living-chamber like the Anarcestidæ and satures like the Prolecanitidæ; with entire saddles, but bild lateral lobes in the young.

loblolly-wood (lob'lol-i-wid), n. See *guara3. lobola (lō'bō-lā), n. [Zulu?] A present, usually of cattle, given by the bridegroom to the father of the bride, as is customary among the Zulus and other tribes of South Africa; also, the custom itself Ren Brit Ass'n Agrance the custom itself. Rep. Brit. Ass'n Advancement of Sci., 1900, p. 905. obous (lō'bus), a. Same as lobose.

lobons (lō'bus), a. Same as lobose. lobscouser (lob'skou-sėr), n. One who eats lobscouse; a sailor.

lobster1, n. 6. Adull fellow, who is easily imposed upon; an irritating blockhead; a foolish bore; a chump: a vague term for contempt. [Slang.]—Unboiled lobster, in England, a policeman, so called from his blue coat: in distinction from a boiled lobster, or red-coated British soldier. See def. 5. [Slang.]—Unboiled lobster, in England, a policeman, so called from his blue coat: in distinction from a boiled lobster, or red-coated British soldier. See def. 5. [Slang.]—England a policeman local viewpoint; specifically, in med., one who regards every disease as having a local origin.

lobster² (lob'ster), n. [lob1, v., + -ster; in humorous allusion to lobster¹, n., 5 or 6.] In cricket, a bowler of lobs or underhand balls. See lob1, 8.

lobster-basket (lob'ster-bas#ket), n. A basket-trap for eatching lobsters.

lobster-boat (lob'ster-bot), n. A boat used in lobster-fishing.

The lobster boats may be conveniently divided into two classes; first, the smaller boats, with or without sails, . . . used by the fishermen in tending their pots, and, secondly, the smacks acting as earriers to the different markets.

Fisheries of the U. S., Sec. 5, 1L 669.

lobster-caterpillar (lob'ster-kat"er-pil-är), n. The larva of the lobster-moth.

lobster-crab (lob'ster-krab), n. A porcelain- localization, n.—Germinal localization. See $\star ger$

lobster-flower (lob'ster-flou"er), Christmas flower, or flor de Pascua, of Mexico and Central America, Poinsettia pulcherrima: so called on account of its conspicuous bright

foral bracts. See Poinsettia, 2.

lobsterling (lob'stèr-ling), n. [lobster + ling1.] A young, undeveloped lobster at about the fifth molt, at which time it more nearly resembles the adult in shape and habits than at earlier stages.

After one failure 5,000 larvæ were successfully hatched; but of these, despite every care, very few attained the "lobsterling" stage.

Nature, Jan. 12, 1905, p. 255.

lobster-net (lob'ster-net), n. 1. A hoop-net for catching lobsters.—2. A lobster-pot of netting supported upon a framework of

lobster-toad (lob'ster-tod), n. A species of

lobule, n. 2. A terminal bronchus, with the air-cells, vessels, and nerves related to it.—3.
In bot., same as *disculus.—Hippocampal lobule.
See *lobus pyriformis.—Petrosal lobule, the foccular appendage of the cerebellum; the flocculus. Trans. Linnean Soc. London, Zool., Feb., 1903, p. 333.

lobulose (lob'ū-los), a. [lobule + -ose.] Having lobules.

lobulous (lob'ū-lus), a. [lobule + -ous.] Same as *lobulose.

issence proposed and he pass behind the Infishes the so-called lobi inferiores appear behind the fundibulum.

Buck, Medical Handbook, II., 271. infundibulum.

In Isbes the so-called toot interiores appear behind the infundibulum. Buck, Medical Handbook, II., 271.

Lobus antiens, the anterior azygous lobe of the cerebellum. Trans. Linnean Soc. London, Zool., Jan., 1890, p. 363.

- Lobus flocculi, a lateral appendage of the cerebellum in mammals supposed to correspond with the flocculum in the human brain. Also known as lobulus appendicularis. Trans. Linnean Soc. London, Zool., Jan., 1890, p. 362.

- Lobus posticus, the posterior azygous lobe of the cerebellum. Trans. Linnean Soc. London, Zool., Jan., 1899, p. 365.

- Lobus pyriformis. (a) The base of the hemisphere of the mammalian brain, which is of a pyriform shape, broadest at the posterior end and tapering to the olfactory bulb. By some the term is restricted to the posterior are a which has been variously known as natiform eminence and hippocampul lobule. (b) A small elevation near the middle of the inferior vermiform process of the cerebellum, between the biventral lobes.—Lobus pyriformis anticus, the tapering portion of the pyriform lobe anterior to the vallecula Sylvii.—Lobus pyriformis posticus, the expanded portion of the pyriform lobe posterior to the vallecula Sylvii.—Alobus pyriformis minence, hippocampal lobule.

ocal. I. a.—complex, simple local sign, local death, local express, local stamp. See $\star sign$, $\star death$,

II. n. 3. A local train; an accommodation train which stops at all stations. - 4. A local examination: as, the university locals.

local (lô'kal), v. t.; pret. and pp. localed, la-called, ppr. localing, localling. [local, a.] In called, ppr. localing, localing. [local, a.] In Scots law: (a) To apportion (an increase of the stipend of a minister of the established church) among the different heritors or landholders. Jamieson. (b) To lay the charge of the stipend of a minister of the stabled or or who a stipend of a minister of the stabled or or big. such a stipend on or upon (a landholder or his land). \hat{N} . E. D.

localist (lõ'kal-ist), n. [local + -ist.] One who has much regard for local conditions; one who studies what is local, or is inclined to treat

locality, n. 5. In phytogeog., the approximate geographic position of an individual specimen: less definite than station. F. V. Coville.—Bump of locality, a phrase borrowed humorously from phrenology, to denote the power of finding one's way easily and certainly amid novel surroundings: as, I have absolutely no bump of locality.—Sense of locality. (a) In general, the power of finding one's way easily and certainly amid novel surroundings, as in a city visited for the first time. (b) In psychol., a phrase loosely formed on the analogy of 'sense of space,' 'sense of time,' etc., to denote the power of cutaneous localization, that is, of referring a cutaneous stimulus to the area of the skin to which it is applied.—Type locality, in zool, the place where an sulmal which was described as a new species was taken; the locality where a type specimen was obtained.

Cauis latrans Say [Coyote]. Type locality.—Vicinity of Council Binffs, Pottawattamic County, Iowa.

Proc. Bost. Soc. Nat. Hist., Dec., 1901, p. 208.

localize, r. l.—Localized capacity, electrostatic eapacity introduced at given points in an electric circuit by means of condensers, as distinguished from the distributed capacity of the circuit itself.—Localized inductance, inductance introduced into an electric circuit by means of properly wound coils, as distinguished from the distributed inductance of the circuit itself.

locate, v. I. trans. 3. In the Meth. Ch., to appoint to a fixed charge or station.

II. intrans. 2. In the Meth. Ch., to settle as lock-lug (lock'lng), n. The raised portion on a permanent preacher; cease to be itinerant. location, n. 6. An intuitive perception of distance and direction.

These birds [penguins] must have a wonderful power of location, as the male dived when about 600 yards from the vessel, reappearing close by the floe where his mate was seated, the intervening space being covered with icefloes.

Geog. Jour. (R. G. S.), XVI. 382, for a hydraulic lock. Also location or place intended or snitable for a hydraulic lock. Also lock-site.

locational (lö-kā'shon-al), a. [location + -all.] Of or pertaining to location; locative.

locative, a. 3. Serving to indicate the location of anything: as, a locative object in the neighborhood.

lochage (lök'āj), n. [Gr. $\lambda o \chi a \gamma \delta c$, $\lambda o \chi n \gamma \delta c$, $\zeta o \chi o c$, lochus, + $\dot{a} \gamma \epsilon c o$, lead.] In Gr. antiq., the commander of a lochus. See *lochus.

lochioschesis ($1\bar{o}$ -ki-os'k \bar{o} -sis), n. [NL., ζ Gr. $\lambda \delta \chi u$, lochia, $+ \sigma \chi \ell \sigma u$, retention.] Arrest of the lochial flow.

lochometritis (lō "kō-mē-trī'tis), n. [NL., ζ Gr. λόχος, childbirth, + μήτρα, uterus, + -itis.] Metritis following childbirth.

lochopyra (lō-kō-pi'rā), n. [NL., \langle Gr. λόχος, childbirth, + $\pi v \rho(\varepsilon \tau v \varsigma)$, fever.] Puerperal fever.

lochus (lō'kus), n.; pl. lochi (-ki). [NL., also lochos; (Gr. γόχος, a company of men, an ambush.] In Gr. antiq., a body of infantry; in Sparta, one of the larger divisions in which able bodied men capable of bearing arms were grouped.

, n. 10. A receiver of stelen goods; also, lock the house in which such a 'fence' receives stolen goods. [Thieves' slang.]—11. A transposition or duplication of pages on the printed sheet of a book.—Builders' lock, the general name of a class of house and store-locks.—Chubb lock, a lock of a special type made by an English inventor of that name.—Cuvelier lock, a lock for safety-lamps, consisting of a curved tubular catch which can be opened by hydraulic pressure which expands the time and springs it open.—Duplex lock, a lock of the cylinder type, having two keyways and requiring two keys to open it, one of which is a master-key opening all of a series, and the other is adapted to its particular lock and no other. See *\(\frac{1}{2}\) yard-lock, 2.—Magnetic lock, in mining, a lock for safety-lamps which can only be opened by the application of a powerful magnet.—Pasquil lock, a roll-top desk lock having two long holts that engage the sides of the desk, the lock itself being in the center of the roll-top, at the middle of the desk.—Vacuum lock, a locking device operated by a vacuum; a device for utilizing the pressure of the atmosphere to hold a movable piece in position. position or duplication of pages on the printed

lock? n.—In the lock, with the tufts unopened, as wool. Also in the fleece.—Palate lock, a lock of hair over the frontal fontanelle, tied up firmly by negroes of the Southern States in cases of sore throat, because it is helieved to draw up the palate and thus to give more breathing. breathing-space.

lock-bedder (lok'bed"er), n. A machine or tool for making a recess in a gun-stock for the lock and tangs.

lock-culvert (lok'kul"vert), n. A culvert or conduit below the floor of a hydraulic lock, connecting the lock-chamber with the sections of the canal or basin both above and below the lock. The flow of water to or from the lock-chamber is regulated by two wickets placed in the culvert, one on each side of the outlet or connection from the culvert to the lock-chamber.

lock-gate, n. There are various forms of lock 10ck-gate, n. There are various forms of lock-gates, the more common of which are the miter gate and the sliding gate. In the former, the gate at each end of the lock is composed of two leaves, each turning about a vertical axis at the side wall of the lock, when open standing parallel with the side wall, and when closed abutting together at an obtuse angle, the surface of contact between the two gates forming a miter. A sliding lock-gate is one which, when the lock is to be opened, slides horizontally into a recess in the masonry.

locking (lok'ing), n. A split pin. Barrowman, Glossary.
locking-bar (lok'ing-bär), n. 1. A bar or rod

used to lock a door or mechanism. -2. In rail-roading, same as *detector-bar.

locking-bolt (lok'ing-bolt), n. Same as *lock-

locking-pin (lok'ing-pin), n. A pin that locks one piece of a mechanism to another; specifically, naut., a pin used to lock the forward rudder of a double-ended ferry-boat in a line

with the keel. Also lacking-bolt. lockless (lok'les), a. [lock1 + -less.] Without a lock or locks.

the upper surface of a gun to which the lock is secured.

lock-net (lok'net), n. A large cylindrical hoop-

for a hydraulic lock. Also lock-site.

lock-site (lok'sit), n. Same as *lock-seat, 2.

lock-turbine (lok'ter"bin), n. A hydraulic turbine placed in or near the walls of a hydraulic lock, driven by water flowing from the upper to the lower level of the basin, used for the purpose of furnishing power with which to operate the wickets and gates of a

lobulet, lobulette (lob'ū-let, lob-ū-let'), n. [lobule + dim. -etl.] An ultimate bronchial twig, with the air-cells in relation with it. Buck, Med. Handbook, V. 580.

lobulization (lob'ū-li-zā'shon), n. [lobule + lochioschesis (lō-ki-os'kō-sis), n. [NL., ⟨Gr. lochia, + -βαγα, lochia, + βαγα, lochia, + βαγα, lochia, + βαγα, lochia, hochioschesis (lō-ki-os'kō-sis), n. [NL., ⟨Gr. lock-wicket (lok'wik'et), n. A wicket, gate, or valve placed in a lock-gate or i

of water into or out of a hydranlic lock.

loco¹, n. II, a. Derived from loco-weed.—Loco
acid, a compound isolated from loco-weed, to which the
poisonous properties of the plant are attributed.

loco¹, v. t. Hence—2. To make crazy or in any
way eccentric; as, he's plumb lococd. [Slang,
western U. S.]

loco² (lō'kō), n. An abbreviated form of locomotive. [Little used in the United States.]

Locofocoism (lô-kô-fô'kô-izm), n. [locofoco + -ism.] The principles of the Locofoco party. locoism (lô'kō-izm), n. A disease of eattle in the semi-arid region of the western United States, due to eating certain weeds known as loco-weeds, and characterized by peculiar nervous symptoms which are followed by paralysis, emaciation, and finally death.

locomarine (lo kō-ma-rên'), a. [loco(motive) + marine.] Of a locomotive type, but used in a ship: as, a locomarine boiler.

locomobile (lõ-kō-mõ'bil), a, and n, cus, place, + mobilis, movable.] I, a. Having the power to change its place by its own motor, or without the aid of power or apparatus outside of itself.

II. n. A commercial name for a form of

motor-ear

locomobility (lo kō-mō-bil'i-ti), n. [locomo-bile + -ity.] The character of being locomobile + -ity.bile; the capacity or power to move from one place to another.

locomote (lō'kō-mōt), v. i.; pret. and pp. locomoted, ppr. locomoting. [A back-formation from locomotor.] 1. To move from one place to another. [Humorous.]—2. In biol., to effect a change of place: as, a medusa which locomotes toward the light.

locomotility (lō kō-mō-til'i-ti), n. [L. locuplace, + E. motility.] Same as locomotivity. [L. locus,

locomotive. I. a.—Locomotive chair. See *chair.—Locomotive crane. See railway-crane (b), under *crane2.—Locomotive-rod horing-machine. See *baring-machine.

*crane2.—Locomotive-rod horing-machine. See
*boring-machine.

III. n.—Camel-back locomotive, adouble-ended locomotive
having four cylinders, two boilers with a double fire-box
between them, and, a swiveling arrangement for the
trucks to allow it to run around curves: designed for use
on narrow-gage roads where high tractive power is called
for with small diameter of boiler.—Forney locomotive, a locomotive in which the tank and coal-bunker are
earried on an extension of the engine-frame, back of the
fire-box, supported by a swiveling-truck. These locomotives were used in suburban traffic and on the elevated
rallways in New York city before the introduction of
electricity.—Mason locomotive, and anothetruck tank-locomotive (which see, under locomotive).—
Rack-rail locomotive (which see, under locomotive).—
Rack-rail locomotive, a locomotive for use on a rackrailroad; one having a pinion, driven by engines, to
engage with a stationary rack on the road-bed instead
of depending on the adhesion of smooth wheels to rails:
used on roads which have excessive grades, as on monntaln ascents.—Single-driver locomotive, one having
only one pair of driving-wheels, and intended for high
speed with low tractive power. It avoids the use of sideor coupling-rods.—Strong locomotive, a locomotive
(named for its inventor), which had gridfron slide-valves,
separate exhaust- and steam-valves and a valve-gear by
which it could be run either forward or backward, with
only one eccentric for each side. It also had a cylindrical
fire-box, arranged to form a twin furnace, corrugated to
resist collapse, and with a combustion-chamber to secure
complete combustion before the gases entered the tubes.

locomotive-balance, n. 2. A weight placed in
the deviver-wheel of a locomotive to halance

locomotive-balance, n. 2. A weight placed in the driving-wheel of a locomotive to balance, as much as possible, the inertia of the recip rocating parts.

locomutation (lo "ko-mū-tā'shon), n. [L. locus, place, + mutatio(n-), change.] Change of place; moving from place to place. [Nonce-word.]

I should be glad to speculate also on the effect of the tendency of population towards great cities; no new thing, but intensified as never before by increased and increasing ease of locomutation.

Lowell, Latest Lit. Essays and Addresses, p. 184.

locor (lō' kor), n. [L. loc(us), place, + E. (rect) or.] A vector which has definite position, but does not indicate rotation or any rotative function.

In the review of Prof. Henrici'a "Vectors and Rotors" in NATURE of October 29 (p. 617), it was mentioned that Prof. A. Lodge had suggested the use of the word "locor" to indicate a vector which has definite position, but does not indicate rotation or any rotative function. Prof. R. I. Smith writes to say that the word "locor" is used in this way throughout his book "Graphics," published by Messrs. Longmans in 1888, "rotor" being used for retative quantities.

**Xature*, Nov. 19, 1903, p. 64.

locoto (lō-kō'tō), n. [Sp. corruption of Aymara locoti, Quichua roccoto, erroneously described by Tschudi as green pepper.] A variety of the aji or red pepper, botanically known as Capsicum pubescens (Raimondi), growing in the warmer valleys of Pern and Bolivia. It is plum-shaped and has but one large seed.

loculamentous (lok"n-la-men'tus), a. Full of loculaments, or little eells.

loculus, n. 1. In zoöl.: (c) Same as *air-cham-

ocum (lō'kum), n. [locum(-tenens).] 1. A locum-tenens (in medical practice). The Lanlocum (lō'kum), n.

cct, June 6, 1903 (advt.).—2. The temporary place occupied by a locum-tenens. The Lancet, June 6, 1903 (advt.).

locum-tenent (lo kum-te'nent), n. Same as locum tenens (which see).

I met with a serious accident . . . in consequence of which I had to engage a locum-tenent, as I was obliged to leave home for a complete rest.

**Lincet*, Aug. 19, 1899, p. 547.

locupletativet (lok-ū-plē'tā-tiv), a. [L. locupletatus, pp. of locupletare, make rich, \(\locupletas, \text{rich} : \text{see *locuplete}. \) Tending to make rich. locupletet (lok'ŭ-plet), a. [L. locuples (-plet-), rich in lands, rich, opulent, < locus, a place, + \plet- in *plere, fill, plenus, full.] Rich; wealthy; well stored. Blount.

 $locus^1$, n. 6. The words and figures, in the signature to a quotation or in a reference to a passage, which designate the particular place or division of the work (book, chapter, page, section, verse, line, etc.) where the passage in question occurs. The locus properly follows the title of the work or piece cited, and the title follows the name of the author.—7. In geom., the place of all the points, and of only those points, which satisfy a given condition.

All points in a plane which satisfy a single geometric condition make up often a single straight or a single circle, in rare cases more than one. Neglecting these rare cases, we may call such straight or circle the locus (place) of the points satisfying the given condition.

G. B. Halsted, Rational Geometry, p. 269.

Cusp-locus. Same as cuspidal locus.—Lexell's locus. Same as Lexell's *circle.—Locus communis, a commonplace.

locus2 · (lo'kus), r. t.; pret. and pp. locused or locussed, ppr. locusing or locussing. [Appar. adapted from locol, v., associated with hocus, v.] To stupefy with drink.—To locus away, to carry off while stupefied. [Slang.]

locus² (lō'kus), n. [See $\star locus^2$, v.] Something which stupefies, as liquor. [Slang.] locust¹, n.—American locust, Schistocerca americana, one of the largest of the long-winged American



American Locust (Schistocerca americana). Reduced.

grasshoppers, allied to several of the most destructive migratory locusts in other parts of the most destructive fornia devastating locust, a western American acri-



California Devastating Locust.

diid, Melanoplus devastator, which frequently does great damage to grasses and grains in California.—Carolina locust, an American acridiid, Dissosteira carolina, of wide distribution, rust-brown in color, found commonly along dusty country roads in Augnst.—Clear-winged locust, Camnula pellucida.—Clouded locust, an American acridiid, Encoptolophus sordiidus, dirty brown in color and occurring abundantly in pastures in the eastern United States in the autumn.—Differential locust, a common North American grasshopper, Melanoplus differentialis, chiefly notable from the



Differential Locust (Melanoplus differentialis). (Sanderson, U. S. D. A.)

Ganderson, U. S. D. A.)

great damage it occasionally does to cotton-plants in certain of the southern United States.—Dog-day locust, an American cicadid insect, Tibicen pruinosa. Also called harvest-fig and tyreman.—Dudley locust, a local name in England for the Dudley trilobite (which see, under trilobite).—Green-faced locust, an American acrididig frashlopper or locust, Chortophaga viridiffasciata, common in meadows and pasture-lands in many of the United States.—Hooded locust, a curious locustid of the genus Typhoptera, inhabiting the Malay Peninaula, which has a bladder-like membrane between head and thorax, which when alarmed it can throw out into a hood-like organ over the head.—Leather-colored locust, a curious locust, and the cavate lodges will be treated as a separate class. Schistocerca alutacea.—Lesser migratory locust, and American acrididid, Melanophus atlanis, occasionally injurious to crops, especially in a restricted region in sonthern New Hampshire.—Migratory locust. See Rocky Mountain locust, under locust1.—Red-legged locust,

Melanoplus femur-rubrum. See red-thighed locust, under locust!.—Sprinkled locust, Chloealtis conspersa.—Two-striped locust, Melanoplus bivittatus.

locust¹2, n.—Locust leaf-beetle. See *leaf-beetle.— Locust saw-fly. See *saw-fly.—River-locust, Amorpha fruticosa, a North American leguminous shrub with spike-like racemes of violet-purple flowers. Better known as bestard or false indigo.—Sweet locust, thorn-locust, the honey-locust.

locustal (lē-kus'tal), a. Of or pertaining to

locust-beetle (lō'kust-bē'tl), n. An American cerambycid beetle, Cyllene robiniæ, whose larva bores in the trunks and branches of loenst-trees

locust-bird, n. 2. In Sonth Africa, applied to several very different birds, specifically to one of the grackles, Creatophora carunculata.— Great locust-bird, the stork, Ciconia alba.—Little lo-cust-bird, Glareola nordmanni, a pratincole, or member



Little Locust bird (Glareola nordmanni).

of the prover ramily, which has something the appearance of a long-legged awallew.

locustid (lo-kms'tid), n. and a. I. n. A mem-

ber of the orthopterous family Locustidæ.

II. a. Having the characters of or belonging to the family Locustidæ.

locust-lobster (lō'kust-lob'ster), n. A crus-

tacean belonging to the family Scyllaridæ.

locust-mite (lō'kust-mit), n. A red mite, Trom-bidium locustarum, which destroys grasshopper eggs in the United States.

locust-moth (lō'kust-môth), n. An American tineid moth, Depressaria robiniella, whose small, green, black-headed larva defoliates locust-trees in June.

locust-tree, n. 2. In New Zealand. Sophora tetraptera. See *kowhai.—African locust-tree.

Parkia Africana. Also called nitta-tree. See Parkia.

locutory, n. II. a. Pertaining to or producing speech.

speech.

Iode 1, n.—Comstock lode, a very noted mineral lode formerly worked on a large scale at Virginia City, Nevada. It is a great fissure-vein, four miles long, through igneous rocks of Tertiary age, on the western flank of Mount Davidson. This lode has produced more than \$25,000,000 in gold and silver.—Live lode, a lode containing ore which it is profitable to work.—Peachy lode, a lode which has a binish-green color that, in some lights, presents a deep pink color.—Right-running lode, a lode which runs parallel, or nearly so, to the axis of elevation of the district.

lode-light (lod'lit), n. See the extract.

Appearances of flame above mineral veins are said to have been seen, and at all events are sufficiently well established to have received a special name 'dode lights' in Cornwall. C. Le N. Foster, Ore and Stone Mining, p. 107.

lode-mining (lod'mi"ning), n. The taking out of ore which occurs in lodes or veins.

lodge, n. 8. In Cambridge, England, the residence of the head of a college.—9. In mining, a cabin at the pit-head for workmen. Barrowman, Glossary.—Cavate lodge, a dwelling cut ont of soft rock. Such dwellings are found, for instance, in the canons of the sonthwestern United States. See

*cavate.

Cavate lodges comprise a type of atructures closely related to cliff houses and cave dwellings. The term is a comparatively new one, and the structures themselves are not widely known. They differ from the cliff houses and cave dwellings principally in the fact that the rooms are hollowed ont of cliffs and hills by human agency, being cut out of soft rock, while the former habitations are simple, ordinary structures built for various reasons within a cove or on a bench in the cliffs or within a cave. The difference is principally if not wholly the result of a different physical environment, i. e., carate lodges and cave dwellings are only different phases of the same thing; but for the present at least, the name will be used and the cavate lodges will be treated as a separate class.

Smithsonian Rep., 1892, p. 217.

lodging-money (loj'ing-mun"i), n. In the British service, a money allowance in lieu of quarters. Called commutation of quarters in the United States.

lodgment, u. 5. In mining, same as lodge, 7.

lodgment-level (loj'ment-lev#el), n. Same as *lodgement, 5, and lodge, 7.

lodhranite, lodranite (lod'ra-nit), il. [Forma-

tion not ascertained.] A type of meteoric stone or aërolite. See *meteorite.

lodja (lod-yā'), n. [Also lodia, ladia (see *ladia); ⟨ Russ. lodĭyá, lodiyá, also ladĭyá, ladiyá, = Pol. lodzia (barred l) = Bohem. lodí = Serv. ladya = Bulg. ladya = OBulg. ladiya, alūdiya = Lith. eldiya, aldiya, a ship.] A Russian boat, long, flat-bottomed, and propelled by oars, but in some forms provided

with a deck and a mast.

Thursday at 6 of the clocke in the morning there came abourd of us one of the Russe Lodiaes, rowing with twentie oares, and there were foure and twentie men in her. Steven Burroue, in Hakluyt, Voyages, I. 276.

loess, n.

loess, n.—Remodified loess, loess which has been redeposited after its first formation.

All that we know of the loess and its fossils compels us to include this accumulation as a product of the Pleistocene period. It is not of post-glacial age, even much of what one may call the "remodified loess" being of Late Glacial or Pleistocene age. What one may call the Glacial or Pleistocene age.

Smithsonian Rep., 1890, p. 227.

In geol

loessial (les'i-al), a. [loess + -ial.] In geol., belonging to or derived from loess.

loessic (les'ik), a. [locss + -ic.] Same as *loessial.

loeweite (le'vē-īt), n. [G. löweit (1847), named after A. Loewe of the Austrian mint.] A hydrated sulphate of magnesium and sodium, found at the Ischl salt-mine, Austria.

loewigite (le'vig-it), n. [G. löwigit (1861), named after K. J. Loewig, who first analyzed it.] A hydrated sulphate of aluminium and potassium, occurring in straw-yellow rounded

loft¹, n. 5. (a) A pigeon-house. (b) The flock of pigeons kept in it. loft² (lôft), v. t. [loft¹, n.] To lift; in golf, to play (the ball) into the air in making a stroke.

loft? (loft), n. In golf: (a) The act of lofting.
(b) The stroke so made. (c) The degree of slope from the vertical of the face of a club.

loft-dried (lôft'drid), a. A trade-term applied to hand-made paper air-dried, usually in lofts

lofting-iron (lôf'ting-ī'ern), n. In golf, a form loganin.
of club used in lofting a ball. See cut under loganiaceous (lō-gā-ni-ā'shius), a. Pertain-

golf-club.

log', n. 3. pl. A jail (formerly built of logs).

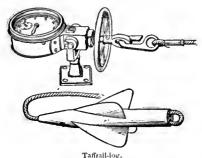
[Slang, Australia.]

In the log, before cutting into planks or boards; unhewn. One connected with lumbering operations at Bangor told me that the largest pine . . . was worth ninety dollars in the log.

Thoreau, Maine Woods, p. 148.

Prize logs, in lumbering, logs which come to the sorting-jack without marks denoting ownership.—To stock logs, to deliver logs from the stump to the mill or railroad.

log², n. 1. The taffrail-log has three main parts, namely, the register or dial, the rotator or propeller, and



the braided line. The rotator is towed astern, and owing to the pitch of its blades it revolves as the vessel moves ahead. These revolutions turn the line which connects with the horizontal bar of the register, which in turn revolves a series of cog-wheels, and these move the hands in the respective circles on the face of the register, on

regular the principle of the gas-meter. Some registers are provided with two, and some with three hands. In the latter case the first hand marks quarters, each division representing one quarter of a mile, or two furlongs; the second marks even miles, recording as high as ten miles; and the third marks ten-mile divisions and is graduated to one hundred miles. When the century point is reached, the three hands all indicate zero. Where the register has only two hands, as shown in the engraving, one of the hands marks either quarter-miles or tenths of a mile, and the other hand marks single miles extending as high and the other hand marks single miles extending as high as one hundred.

In tailoring, a document which fixes the time to be credited to journeymen for making a specified kind of garment, the men being paid nominally by the hour. N. E. D. Also attributive: as, a log shop.—Boat's log, an instruent used in surveys for measuring the distance run by a boat. It is a small copy of the taffrail-log employed generally at sen for recording the number of miles logged by a vessel.—Current-log. Same as groundlog (which see, under log?).—Harpoon log, a distance recorder named from its peculiar shape, which resembles that of a harpoom.—Patent log, one of a large variety of patented instruments for recording the speed of and distance run by a vessel.—Spring log, a speed-measurer constructed on the principle of a common spring-scale, the strain upon the spring marking the velocity of the vessel through the water. This log has a specially designed chip which is towed astern by a fine silk cord, the other end being hitched to the hook on the spring.—Submarine log. Same as submerged *log.~Submerged *log.~log with a propeller and dial in one length, both towed astern: it is necessary to hand in the entire instrument when it is required to read the distance run.—Taffrail-log. See *log2, 1.

log2, r. t. 1. (b) Naut., to enter in a log-book time to be credited to journeymen for making a

log², v. t. 1. (b) Naut., to enter in a log-book the name of a man, with his offense and the penalty attached to it; hence, to fine.

logagraphia (log-a-graf'i-ä), n. Agraphia, or loss of the power to express ideas in writing.

A logan² (lō'gan), n. [Algonkian pokologan, etc.: m, see *pokeloken.] See *pokeloken.

Bogan: A word very much used by guides and others who go into the New Brunswick woods is bogan—a still creek or bay branching from a stream—exactly the same thing the Indians call a pokologan—and I think the former is a corruption of the latter word. New curiously enough, exactly the same thing is generally called in Maine a logan—which must be another form of the same word. These words are in good local use, and occur in articles on sporting, etc.

Jour. Amer. Folk-lore, April-June, 1903, p. 128.

logan-apple (lō'gan-ap#l), n. A small Queensland tree of the rue family, Jambolifera acidula, bearing acid fruits.

bearing acid fruits.

loganberry (lō'gan-ber"i), n. [Named for Judge J. II. Logan, the originator.] A dewberry-like plant said to be a hybrid between Rubus vitifolius (the dewberry of the Western States) and R. Idæus (the European rasp-States) an to hand-made paper air-dried, usually in lofts or rooms arranged for the purpose.

lofter (lôf'ter), n. A lofting-iron.

lofting, n. 2. In mining, lagging or longitudinal timber resting on caps to support the roof of a working. [Eng.]

Lotter (lôf'ter), n. Eng.]

Lotter (lôf'ter), n. A lofting-iron.

loganetin (lô-ga-nē'tin), n. [logan(in) + -ct + -in².] A cleavage-product of the glucoside

ing to or having the characteristics of the Loganiaceæ.

loganin (lō'gan-in), n. [Appar. \(\) Logan, a person's name (?), + -in².] A colorless glucoside, C₂₅H₃₄O₁₄, contained in the pulp which embeds the seeds of Strychnos Nur-romica. It erystallizes in prisms and melts at 215° C.

loganite (lō'gan-īt), n. [Named after Sir William Logan (1798-1875), at one time director of the Geological Survey of Canada.] An altered amphibole from Calumet Falls, Quebec: akin to penninite in composition.

logaphasia (log-a-fā'ziā), n. [NL., \langle Gr. 26705, word, + NL. aphasia.] Loss, through brain-disease, of the power to express ideas by a car having two trucks which support an unarticulate speech.

logarithmetically (log "a-rith-met'i-kal-i), adv. An erroneous form for logarithmically. logarithmic, a. 2. Pertaining to the logarithmie eurve.—Logarithmie decrement, differentia-tion, paper, etc. See *decrement, etc.

II. n. A logarithmic curve. Log-cabin china. Same as Columbian star

log-deck (log'dek), n. 1. In a sawmill, the main floor, where the logs arriving by the log-slide are turned out of the slide by the flipper and assembled ready for sawing. It consists of a sloping floor down which the logs roll on rails to the log-loader, which delivers them one at a time to the saw-carriage. See *saw-carriage, *log-slide, *ftipper, 5, and riage. See ★log-loader.

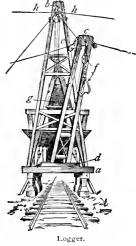
2. The platform on a loading-jack.

loge² (lozh), n. [F.: see lodge and loggia.] 1. A booth or stall.—2. The French name for a private box in a theater, used in English with the French pronunciation.

note the person concerned with the indicated science or subject ending in -logy. It is equivalent to -logue, which represents the original Greek noun, or -logist, which is more used than either. It occurs first in astrologer (which was probably formed from astrology + -erl, after astronomyer, astronomer, rather than directly from L. astrologus + E. -erl, chronologer, geologer, philologer (obsolescent), theologer. The suffix is no longer a living formative, being superseded by -logist.

log-gatherer (log'gath'ér-èr), n. A hauling-device for collecting logs into piles ready for

engines, rests upon a base which is as long as a flat-car and as wide as the whole length of a railroad-tie. Placed upon a flat-car, it can be taken to the logs ging-camp, where the logs lie upon the ground on each side of the way anywhere within a thousand feet of the track. It is then jacked up and the car removed. Guy-lines are run out on each side of the track to hold the hanling-boom in place, and lines are run out on est side and the logs are halled over the ground to the track, ready to be lifted and loaded upon flat-cars being added to the



a, temporary base or bridge over track; b, hauling-boom; c, loading-boom; boom; d, sluing-table; c, hauling-ropes; f, lifting- and loading-block, ropes and hook; g, engine-house; h, guy-ropes. About 35 feet high.

large tyrant flycatchers, Pitangus caudifasciatus, and Myiarchus crinitus.—10. The steamer-duck, Tachyeres cinereus, a flightless water-fowl of the Falkland Islands and Straits of Magellan.-11. A lever or walking-beam which connects the piston-rod of an engine to the pump-plunger. 12. eircular and very heavy. -12. A pewter inkstand,

Pewter is now chiefly used for office inkstands and public-house or other tankards. The inkstands of this large collection are most varied, and include many of the prototypes of the circular heavy inkstand, still used, and known to many under the old name of "loggerheads."

Athenæum, Feb. 27, 1904, p. 280.

13. A large, heavy head, out of proportion to the body.

Why, dear madam, did you not spare your especially? said Mr. Greville. Come, Fenwick, let us retire and lay our two loggerheads together, and live over again the past hour, and then hang ourselves.

Richardson, Grandison, I. Letter iv.

a car having two trucks which support an un-derframe but no floor or car-body. It is used on light- and standard-gage roads for logs and lumber. An-other type, for narrow-gage roads, consists of a truck supporting a pivoted bridge for carrying long logs and telegraph-poles, the load being supported between two

logging-wheels (log'ing-hwēlz), n. pl. of wheels, usually about 10 feet in diameter, for transporting logs. Also called big-wheels, katydid, and limber-wheels.

loggy (log'i), a. [Appar. log1 + -y1; but perhaps only a variant of logy.] 1; Of strong growth; rank: said of a crop.—2. Heavy; stiff; sluggish: said usually of movement.

They were beat, however, by their oars, and by their slow, loggy stroke, and by their checkiness.

Illus. London News, Aug., 1847, p. 142.

log-haul (log'hâl), n. In a sawmill, the conog-nath (log lat), ". In a sawmin, the coin veyer used to lift logs from the water on which they float into and through the mill to the saws. It consists of a V-shaped spout or guideway open at the bottom. In this slot travels an endless conveyer-chain. A log floated into the open end of the conveyer is caught by points on the chain and drawn upward in the spont until it rests on the chain, when it slides along the spont until it rests on the chain, when it slides along the spont until it rests on the chain, when it slides along the spont until it rests on the chain turns downward, leaving the log free to be rolled off sidewise upon the ruils, down which it rolls to the saw-carriage. The capacity of a log-haul is about 1,800 logs in a day.

logia, n. Plural of *logion.

logolept (log'ō-lept), n. [Gr. λόγος, word, + λομπός, taken.] One who has a mania for using some later words that form nouns of nagent αο-λομπός, taken.] One who has a mania for using green, a lake prepared in China from the

some later words that form nouns of agent going with names of sciences in -logy. Examples ing with names of sciences in logge. Examples are theologian (the first of the type), geologiou, philologian, etc.—See *-loger, *-logist.

philologian, etc. See *-loger, *-loger, to a development of logic which he call Franti supposes to have taken place in Constantinople, solely on the evidence of one book which he supposes to be written in Byzantine Greek, but which Professor E. A. Sophocles regarded as plainly belonging to a later stage of the language. It is loaded with Latinsians and appears to show plain marks of the influence of Priscian. It was possibly written in Italy after the fall of Constantinople. This work and the Latin Sammulae Logicules of Petrus Hispanus are identical; one is a literal translation of the other.

Logical aggregate, sequence. See *aggre-

gate, 4, *sequence.

logie² (lō'ji or -zhi), n. [D., < F. loge: see lodge, n.] In British Guiana, a shed or hut open at the sides.

logion (log'i-on), u.; pl. logia (-ii). [Gr. λόγιον, a saying, (>6) or, a saying, a speech, a word: see Logos.] A saying or maxim, as of a teacher, handed down traditionally: specifically used Collections of such sayings are supposed to have existed in the first century. Fragments of such a collection, ascribed to the third century or earlier, have been discovered in Egypt. ered in Egypt.

A great store of fragments of literary works, among which occur the new well-known "Logia" or "Sayings of Our Lord."

Encyc. Brit., XXXL 441.

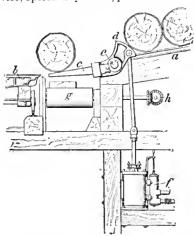
-logist. An ending forming nouns of agent nsed in connection with abstract nouns in -logy. The formation is mainly English.

logistic. I. a. 4. In math.: (a) Logarithmic. (b) Pertaining to a logarithmic curve.—Logistic language. See *language!—Logistic numbers!, ratios or fractions.

II. n. 2. A logistic curve. See cut under logistic.

log-jack (log'jak), n. Same as *gangway, 4. log-kicker (log'kik"er), n. In a sawmill, an appliance, operated by steam, for throwing the logs out of the log-slide upon the log-deck. It performs, in a different way, the same work as the flipper.

log-loader (log'lo"der), n. In a sawmill, a device, operated by steam, placed at the bottom



Log-loader,

a, inclined log-deck of samill (logs roll down on rails); b, saw-mill-carriage; c, log-loader delivering log to carriage; d, log-stop combined with loader, holding back next log; c, pivot on which loader and stop turn; f, steam-motor operating combined log-loader and stop through piston-rod and connecting-rod; descent of piston draws stop down, allowing log to roll on loader; ascent of piston lowers arm of loader, allowing log to roll down to carriage and interposing stop to check advance of next log; g, roller-conveyer removing planks from saw, plank passing under loader; h, gearing operating live roller.

Log-loader.

of the log-deck, which selects one log at a time Loja bark. Sfrom the mass of logs on the deck and delivers under bark?). it to the saw-earringe.

logodædalus (log-ō-ded'n-lus), n.; pl. logo-dæduli (-lī). [Gr. λογοδαίδαλος, ζλόγος, speech, dæduli (-ii). [Gr. λογοδαίδαλος, < λόγος, speech, + δαίδαλος, skilled.] One who is cunning in words. N. E. D.

logogrammatic (log/ō-gra-mat'ik), a. [logo-gram + -atic (cf. grammatic).] Of or relating to logograms.

logograph (log'ō-grhf), v. t. [logograph, n.] To print with logotypes.

words in extraordinary, striking senses. N.
Y. Independent, June 8, 1899 (quoted).
logology (lō-gol'ō-ji), n. [Gr. λόγος, the Logos, + -λογια, ζλέγειν, speak.] The doctrino of the

Logos.

logomach (log'ō-mak), n. A logomachist. logomachic (log-o-mak'ik), a. [logomach-y -ic.] Characterized by logomachy or verbal fencing. Biometrika, April, 1903, p. 321.

logomachical (log-ō-mak'i-kal), a. Same as *logomachic.

logomachize (lō-gom'a-kīz), v. i.; pret. and pp. logomachized, ppr. logomachizing. To engage in verbal feneing or a war of words.

logomania, n. 2. A form of mental unsoundness characterized by excessive garrulity.

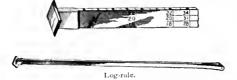
logomaniac (log-ō-mā'ni-ak), n. [Gr. λόγος, word, + E. maniac.] One who is insanely devoted to words rather than ideas.

The customs of those logo-maniacs or word-worshipers.

H. Green, Shakspeare and the Emblem Writers, p. 103. words.

logopathy (lō-gop'a-thi), n. [Gr. λόγος, word, + πάθος, disease.] A defect in speech due to cerebral disease. Baldwin, Dict. of Philos. and Psychol., II. 30.

logorrhea (log-ō-rē'ā), n. [Gr. λόγος, word, + ροία, flux.] Morbid loquacity and rapidity of speech. Baldwin, Diet. of Philos. and Psychol.,



eters of logs. The number of board-feet in logs of given diameters and lengths is shown on the stick.

log-runner (log'run"er), n. An Australian bird of the genns Orthonyx, formerly considered as related to the lyre-bird, but now placed in that heterogeneous group the Timeliidie. There are about half a dozen species, the type of the genus being O. spinicauda. They are almost as large as sparrows, and have large feet, straight claws, and a spiny tail, whence the name spine-

tail, frequently given to them
log-slide (log slid), n. In a sawmill, a long,
narrow wooden channel up which logs are
drawn by a chain. It leads from the place where the logs are floating or lying up to the log-deck.

-logue. [Also -log, -loge; ME, -loge (in cata-loge); F. -logue, < L. logus, < Gr. -λογος, -λογος, the verb stem (in some cases a separate word, $\lambda \delta \gamma \phi_S$) in composition.] An eloment in several words from the Greek, as autlogue, catalogue, decalogue, dialogue, duologue, epilogue, prologue. It occurs also (instead of *-loger* or *-logist*) in some obso-lescent designations of persons, related to abstract nouns in *-logy*, as Assyriologue, astrologue, philologue, Sinologue, theologue, etc.

logway (log'wā), n. Same as *gangway, 4. logwood, n.—Cream of logwood, a concentrated liquor extracted from logwood chips, used for blackening leather. C. T. Davis, Manuf. of Leather, p. 559.

loi (lô'ô), n. [Hawaiian.] A taro-patch; an artificial pond where taro is cultivated.

Same as Loxa bark (which see,

loka (lô'kä), n. [Skt. loka, an open space, a loka ($1\tilde{0}'$ kii), n. [Skt. toka, an open space, a place, a region, a division of the universe, a world.] In Hindu philos., a division of the universe; a world. The three-chief lokas or divisions is universe; a world. The three-chief lokas or divisions of which seem the earth, and the lower regions, of which seem old fishes found from the West Indies world.] In Huntu puttos., a division of the universe; a world. The three chief lokas or divisions are heaven, the earth, and the lower regions, of which there are seven; but the term is more particularly applied to seven superior worlds inhabited by different orders of beings, which, beginning with Bhūr-loka, the earth, rise in succession one above the other above the lower world, and enhiniate in Salya-loka, or Brahmāloka, the abode of Brahmā and the superior deities. Buddhism adopted a similar classification.

-in2.] A reddish-brown compound, C9HgO5, prepared by the action of dilute acids on lo-

lokain (lō'kä-in), n. [loka(o) + -in².] A glueoside, C₂₈H₃₄O₁₇, found in lokao, or Chinese green, a lake prepared in China from the buckthorn, Rhamaus utilis and R. chlorophorus.

lokanic (lō-kan'ik), n. [loka(o)nic.] Noting an acid, a violet-black pulverulent crystalline compound, $C_{36}H_{36}O_{21}$, prepared by the action of dilute acid on lokaonic acid. It assumes a bronzo luster when rubbed.

lokao (lo-kiro), n. [Chinese luh kao, green dye wafers prepared in the province of Chekiang: luh, green; kao, fat, grease, ointment.] A green dyestuff of Chinese origin, obtained from a decoction of the bark of Rhamnus chlorophorus and R. utilis, apparently by preeipitation as an aluminium lake. It has been used by European dyers, but is now laid aside in favor of the artificial coal-tar colors. Also called Chinese green and green indigo.

lokaonic (lō-kṣ-on'ik), a. [lokao + -n- + -ic.] Noting an aeid, a dark blue-bluek compound, C₄₉H₄₈O₂₇, constituting the coloring-matter of lokao.

lokaose ($l\bar{o}'k\ddot{a}-\bar{o}s$), n. [loka(o) + -ose.] optically inactive sugar, C₆H₁₂O₆, formed by the action of dilute acids on lokaonic acid. It ervstallizes in needles.

Lollardize (lol'ar-diz), v. i.; pret. and pp. Lollardized, ppr. Lollardizing. [Lollard + -ize.] To think or act with the Lollards.

lolling-bit (lol'ing-bit), n. A bit with a device attached at the center of the mouthpiece to prevent the horse's tongue from protruding from his mouth or getting over the bit.

[lollop, v.] A sprawl; a lollop (lol'op), n.

oll-shraub (lol-shrôb'), n. [Englishmen's Ilind. lāt shrāb, 'rod wine': see shrub².] In India, a name for claret. loll-shraub

If. 30.

log-rule (log'röl), n. 1. Same as log-scale.—

2. A graduated stick for measuring the diamloma² (lō'mä), n. [Sp., a hill, ridge, slope, < lome, loin, back, ridge, < L. lumbus, loin: see loin.] In Spanish-speaking countries, a minor hill or ridge; a foothill.

The vegetation [of Peru] diminishes and varies as soon as the coast is left behind and the foothills or lomas of the Cordillera are reached.
Nat. Geog. Mag., Aug., 1904, p. 315.

Lomanotidæ (lō-mā-not'i-dē), n. pl. [NL., < Lomanotus + -ide.] A family of nudi-branchiate gastropods having a slug-like body, the dorsum prominent, undulating or lobed, with one row of small cerata, no tentacles, and the rhinophores much foliated. It con-

tains the single European genus Lomanotus.

Lomanotus (iō-mā-nō'tus), n. [NL., < Gr. λωμα, fringe, + νωτος, baek.] The typical and only genus of the family Lomanotidæ. Vérany,

Lomatium (1ō-mā'shium), n. [NL. (Rafinesque, 1819), in allusion to the wing surrounding the fruit; $\langle Gr, \lambda \omega \mu crov$, dim. of $\lambda \tilde{\omega} \mu a$, the border of a robe, a fringe.] A genus of dicotyledonous plants belonging to the family Apiaceæ. They are nearly or quite acaulescent peremial herbs, with fusiform or tuberons roots, lobed or dissected leaves, and yellow, white, or pumple flowers. The genus differs from Peucedanum, to which it has sometimes been referred, in its acaulescent habit, usually single umbels, and in the absence of a stylopodium. About 60 species are known, all natives of the drier regions of western North America. The roots of several, called cous, coxish, or biscutt-root, were eaten by the Indians and early settlers. Soc coxish2.

Lombardesque (lom-bär-desk'), a. [Lombard] Lomatium (lo-mā'shium), n. [NL. (Rafinesque,

Lombardesque (lom-bar-desk'), a. [Lombard + -esque.] Having the characteristics of Lombardic art, especially architecture.

Lombardian (lom-bar'di-an), a. Same as Lombardie.

Lombardism (lom'bär-dizm), n. + -1sm.] An idiom characteristic of Lombardy or the Lombardic dialect.

lomentariaceous (lo-men-tā-ri-ā'shius), a. Belonging to the family of seaweeds Lomentari-

lomita (lō-mē'tā), n. [Sp., dim. of loma, a ridge.] In Spanish-American countries, a

hillock.

to Guiana.

Lonchopisthus (long-kō-pis'thus), n. [NL., $\langle \operatorname{Gr}.\lambda\delta \gamma_{\chi\eta}$, spear, $+\delta\pi i\sigma\theta c$, at the back.] A genus of fishes of the family Opisthognathidæ, known only from Cuba.

Lond. An abbreviation of London.

Londinensian (lun-di-nen'si-an), a.
Londinensis, \(\) Londinium, London.]
characteristic of London. [ML. Of or

fle feels them big; he thinks them human in their bulk; they are Londinensian.

G. Meredith, One of our Conquerors, l.

Londinian (lun-din'i-an), a. [NL. *Londinianus, (L. Londinium, London.] Of er pertaining to London: in geol., same as * Ypresian.

London-lace (lun'dun-lās), n. The reed canary-grass, Phalaris arundinacea. Also lady's-laces, bride's-laces.

London particular. See *particular. long!, I. a. 9. Having a long time to run before maturing: as, a long bill; long (commercial) paper.—10. Well- or ever-supplied: as, to be long in some commodity or stock.

as, to be long in some commodity or stock. See long of stock, under long!.—Long and short work, long odds, price, train, vacation. See *work, etc.—Long-distance telephone. See *telephone.

II. n.—Longs and shorts, cards trimmed at different lengths, so that in such games as cribbage a sharper can lift off a portion of the pack and leave a known card on the top of the cut; also used in blind hookey, so that the dealer may always get a high card.

longbeak, n. 2. Any butterfly of the family Lybytheidæ: so called from their very long, appressed, beak-like palpi.

long-butt (lông'bnt), n. The longest of four cues employed in American games nutil tables were reduced in size from 6x 12 to 5½ x 11 fect and then to 5 x 10 feet as the standard.

longe3 (lonj), n. An abbreviated form of mas-

size from 6 x 12 to 5g x 11 feet and then to 5 x to feet at the standard.

longe³ (lonj), n. An abbreviated form of maskalonge.

stretched out until its lay is lengthened.

long-legged, a. 2. Having a great draft of water: said of a vessel of great length, or

long-ell (long'el), n. A coarse woolen cloth made in long pieces.

Square acres of Yorkshire lastings and long-ells, wrecked argo spread out to dry. Geog. Jour. (R. G. S.), X. 195. cargo spread out to dry.

Longevity pay. See *pay1.
longfin (long fin), n. A common name given to Caprodon longimanus, a serraneid fish found

long-hop (lông'hop), n. Same as $\star long-hopper$. long-hopper (long'hop'er), n. In cricket, a ball bowled or thrown so that it reaches the

much short of the proper length.

longhorn, n. 4. An English breed of cattle with long, drooping horns. They are large lower elements of the Upper Trius, and rather clumsily built, but are good beef Longobardic (long-gō-bār'dik), a. Same as eattle and fair milkers. In the United States Texas eattle, now almost entirely replaced heuded. by breeds with shorter horns.—5. An old in-Long-range forecast. See *forecast.

by breeds with habitant, shrewd and knowing.

ern U. S.]

There was a big chief on the range, an old longhorn called Abraham, and his lill ole squaw Sarah. They'd a long-sleeves (lông'sieva), and long ilike me, another woman's kid, not a son, but good enough for them.

N. Y. Times, May 28, 1905.

N. Y. Times, May 28, 1905.

N. A. house of great club with a long, lofted, face and a shaft slightly longer than a baffy-spoon. See cut at *haffy-spoon.* long-house (long'hous), n. A house of great Borneo.

This paper contains a detailed account of the life in a Kayan long-house in Sarawak.

Geog. Jour. (R. G. S.), XI. 195.

longicone, a. II, n. A long straight or slightly curved cephalopod shell with a slow rate of

growth, as in Orthoceras.

longicostate (lon-ji-kos'tāt), a. [L. longus, long, + costa, rib, + -ate¹.] Having long ribs, as the wings of insects.

longilabrous (lon-ji-lā'brns), a. [L. longus, long, + labrum, lip, + -ous.] In entom., hav-

Longitude rime (naut.), a mnemonic couplet for naming the longitude when working a chronometer sight.

runs as follows:

Greenwich time best [ahead], longitude west;
Greenwich time least (behind), longitude east.

1002, n.—Domino loe, a game resembling loo, played with dominoes instead of cards.

1006a, loofah (lö'fii), n. The sponge-gourd,

Luffa Luffa. See Luffa.

Greenwich time best [ahead], longitude west; Greenwich time least [behind], longitude east.

Longitude star, a term used to denote certain bright stars which have been selected for use in determining the longitude by the method of lunar distances—now nearly obsolete.—Mean longitude. See *mean3.

longitudinal, a.—Longitudinal aberration, magnetization. See *aberration, *magnetization.

netization. See *aberration, *magnetization.

II. n. In iron ship-building, one of the foreand-aft members in the framing of a cellular double bottom, consisting of a plate, an inner double bottom, ensisting of a plate, an inner double bottom. angle-har by which it is connected to the inner bottom, and an outer angle-bar by which it is connected to the outside plating. In warships, the plate and inner bar are usually continuous; in merchant vessels the plate and both bars are more frequently worked intercostally between the frames. Also called longitudinal frame. See cuts under double *bottom.

long-jack (lông'jak), n. The Queensland yel-

low-wood, Flindersia Oxleyana. See Flindersia and yellow-wood. [Australia.]
longjaw (lông'jà), n. 1. A fish, the "lake herring," Argyrosomus prognathus, found in the Great Lakes. -2. A fish of the genus Tylosurus; a garfish.

long-jawed (long'jad), a. Extended; longdrawn: said of a long-winded person or a great talker; also (naut.), of a rope that has been

long in comparison with its beam.

long-legs, n. 2. The European stilt, Himantopus candidus.

Longmyndian (long-min'di-an), a. [Longmynd (see def.) + -ian.] In Eng. geol., noting a series of sedimentary strata, constituting Longmynd ridge in Wales, which are assumed in Australian waters.

longhead (lông'hed), n. In anthrop., one who is delichoeephalous.

to be of Cambrian age. See Longwynd group.

Longobard (long'gō-bārd), n. and a. [L. Longobardus, in pl. Longobardi: see Lombard¹.]

I. n. A Lombard.
 II. a. Of the Longobards or Lombards;

Longobardian. batsman or wicket-keeper after a long flight from the pitch.—Rank long-hopper, a ball bowled much short of the proper length.

Longobardian, a. II. n. In geol., a division of the pelagie Trias in the Mediterranean basin equivalent to the Upper Noric or the Wengen beds and constituting one of the

Lombardic

longspur, n.— Painted longspur, Smith's longspur, Culcurius pictus, a bird found in the interior of North America: so named from its black, white, and yellowish

longstone (long'ston), n. A menhir.

long-timbers (long ston), n. pl. Naut., timbers in the cant-bodies which reach from the dead-wood to the head of the second fut-

[L. longus, long-tom (long'tom), n. In Sydney, a name given to Tylosurus ferox, a species of garfish which has both jaws prolonged to form a slender beak. E. E. Morris, Austral English. longueur (long-ger'), n. [F., < long, long.] Something that is long-drawn-out and tedious,

Northrop Loom.

a, hopper with cops of yars: b, harness; e, e, picker-sticks.

by James II. Northrop and accepted as a practical success in 1895. Its advent established a new epoch in power-loom weaving. Its principal feature is its mechanism for automatically supplying weft to the running sum for automatically supplying weft to the running long palpi.

longipedate (ion-ji-ped'āt), a. [L. longipes kelninge, orig, a booth or shed, = Pg. loja = exchange, orig, a booth or shed, = Pg. loja = exchange or the French bourses often an important architectural monument.

longipedate (ion-ji-ped'āt), a. [L. longipes kelninge, orig, a booth or shed, = Pg. loja = exchange or the French bourses often an important architectural monument.

longipedate (ion-ji-ped'āt), a. [L. longipes kelninge, orig, a booth or shed, = Pg. loja = exchange or the French bourses often an important architectural monument.

longipedate (ion-ji-ped'āt), a. [L. longipes kelninge, orig, a booth or shed, = Pg. loja = exchange or attention of automatically supplying weft to the running sim for automatically supplying weft to the running of automatically supplying weft to the running sim for automatically supplying weft to the running of automatically supplying weft to the running sim for automatically supplying weft to the running and running sim for automatically supplying weft to the runn

langth Larga. See Larga.

100k¹, r. i.—To look out of wind (naut.), the act of sighting several objects with the eye to ascertain if they are in almoment, such as in the lining up of the propeller-shuft.—To look up. (a) Said of a ship when, by the shifting of the wind, it is enabled to point closer to the point of its destination. (b) To cheer up; take conrage. (c) To advance; improve: as, business is looking on. (Collon!

sees that all bets are properly taken and paid.

look-in (luk'in), n. 1. A hasty look or glance; a short stay.—2. A chance of success. [Sporting slang.] Brll's Life.
Looking-glass bush, the bush karanu, Coprosma lucida: so called from its shining leaves.—Looking-glass ore. See *are1.

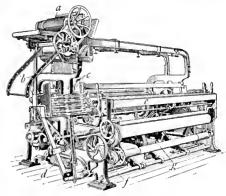
lookout, n. 6. In car-building, a glazed clearstory on the roof of a caboose, designed to enable the train-hands to obtain a clear view over the tops of the cars in a train.

lookout-platform (luk'out-plat#form), n. small platform built high up on the forward side of the foremast for the use of the lookout; a crow's-nest.

lookout's-nest (luk'outs-nest), n. Same as crow's-nest.

lool (181), n. In mining, a receptacle for orewashings.

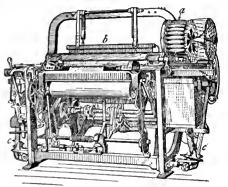
loom¹, n.—Crompton loom, a power-loom, for weaving fancy designs, having a so-called chead-motion



Crompton-Knowles Loom

a, head-motion for operating the harnesses or warp-threads; δ , rack for sustaining the warp pattern-chain; ϵ , shuttle-boxes; d, picker-sitck; ϵ , breast-beam; f, take-up; f, cloth-roller,

mechanism for raising and lowering the harnesses at mechanism for raising and lowering the increases at will by means of levers operated upon by a pattern-chain consisting of shifting rollers or pegs; invented by William (rompton in 1837.—Cross-border Jacquard 100m, a Jacquard loom built to weave handkerchiefs and other bordered fabrics with the least number of cards.—Northrop loom, an automatic loom invented



oom-weight (löm'wat). n. A weight used in primitive looms to stretch the warp; freloom-weight (löm'wāt). n. quently found in excavations.

One small tomb containing only red ware and a discoidal loom-weight. J. L. Myres, in Jour. Hellenic Studies, XVII, 143.

loon2, n. 2. A name used locally for several very different birds: in England, for some of the grebes, including the large Podiceps cristatus and the little dabehick, P. minor; by sailors often in the form loom, for the murre,

Louvia arva.

Lowvia arva.

loop!, n. 2. (j) In brachlopods: (2) The calcareous support of the brachia which assumes various loop-like forms in the *Ferebratulder*, a superfamily of the brachicols. (k) The circuit formed by the path in a centrifusal railway or loop-the-loop incline, around part of which the performer or passenger travels with head downward. See to *k-loop the loop*. (l) In archery, the eye of a howstring, which is slipped over and held by the neck when the bow is strum; (m) A recurved sand-spit which, having developed through the form of a hook, again joins the shore in a closed curve. *Chamberlin and *Salisbury*, Geol., l. 341.

7. In phys., that region, in a standing wave system, for which the amplitude of vibration is a maximum: opposed to node, which is the

is a maximum: opposed to node, which is the region of zero amplitude.—Binocular loop, an instrument consisting of two loops whose fields of twe accurately superpose, giving a magnification of about four diameters: used in the examination of specimens. Flemish loop. Same as Flemish eye (which see, under eye!)—Henle's loops, portions of the uniniferous tubules in the kidneys which are turned upon themselves, forming loops.—Hystoresis loop. See magnetic *loop.—Lenticular loop, nerve-fibers which pass between the lemiscus and lenticular nucleus.—Magnetic loop, the area inclosed between the ascending and descending arms of the curve of magnetization of a piece of iron or steel. Also called hysteresis loop. See magnetic *hysteresis.—Potential loop, the antinode of a curve showing the fluctuations of electromotive force in an alternating-current circuit.—Shelly loop, in brachiopod shells, one of the delicate calcareous ribbons, each in the form of a loop, attached by its two ends to the calcareous process on either side of the base of the latter and forming the brachial skeleton.—Trail-wheel loop, the aperture in the trail of a field-carriage into which the wheel enters. is a maximum: opposed to node, which is the

the trail of a field-carriage into which the wheel enters.

100pl. r. t.—To 100p the 100p [an imitation of the phrase to shoot the chute], to pass round the inner side of a circular path or track set vertically: originally in a car on what was known, about 1840, as the centrifugal railicay, of which such a loop formed a part. The car started at the top of an incline, and its momentum carried it at great apeed around the loop. About 1900 the feat was revived, and was performed on a bicycle. In 1904 the upper part of the loop was removed, and the rider leaped the gap of open space. In 1905 this feat was successfully performed by a woman in an automobile. Other variations of the act have followed. See *autobolide.

G. E. Mogridge ('Old Humphrey's Walks in London.

the act have followed. See **autobolide.

G. E. Mogridge ('Old Humphrey's Walks in London, ... 1s43') [says]: "First a pail of water, next a hundred-weight piece of metal, and, lastly, a human being ... passed round the circle. ... The water was unspilt, the weight unmoved, and the attendant uninjured, though he passed round the upright circle, head over hecks, performing a complete summerset, at the rate... of a hundred miles an hour." N. and Q., 9th ser., X. 366.

loop-bolt, n. 2. Naut., the bolt which passes through the loop and the lugs of the carriage when a howitzer is secured in position.

surface followed by a cross-cut so as to excise a piece. Also ealled retroscetion.

looper2 (lö'per), n. [D. looper, lit. runner (see loper).] In the plural, buck-shot of large

loopful (löp'ful), n. [loop1+-ful.] In bactoose, v. teriol., the amount of liquid which can be held loosish (lös'ish), a. [loose + -ish1.] Rather teriol., the loop of platinum wire used for loose; tending toward looseness. transferring cultures.

looping (15'ping), n. In metal., the running together or fusing of ore when heated for cal-

loop-switch.

loop-stitch (löp'stich), n. 1. In needlework, an open stitch through which the needle draws the thread and leaves a loop on its way to the next stitch.—2. A stitch with loops; a kind of fastening stitch.

loop-switch (löp'swich), n. In teleg., a switch

which introduces a loop into the main circuit or disconnects it. See switch, 2 (b).

loor (lör), n. [Also loore, lore, lure, lower, etc.; origin and normal form unknown.] Foot-rot. [Prov. Eng.]

Loor, Loo, Lo, sh. Sore on a cow's hoof.
Gloucestershire Glossary, 1890.

loose. I. a. 11. In chem., not combined with anything else: as, carbon dioxid loose in the

in this sense.—12. In geol., incoherent, as meonsolidated sands. Geikie, Text-book of Geol. (4th ed.), p. 138.—13. In coal-mining, free at the ends or sides: applied to a workingplace when the coal has been previously mined on both sides: as, loose at one end, loose at one

746

the play in which the ball travels freely from player to player, as distinguished from the serimmage. N. E. D.—6. In mining, the end of a shift. Also loosing-time. When the workmen leave, the pit is said to be 'loosed out.' [Eng.]—7. In archery: (a) The act of releasing the bow-string and discharging the arrow. (b) The mode of performing this act, which differs among different peoples. In the primary or finger-and-thumb loose the arrow is grasped by the finger and thumb and pulled back against the string to draw the bow. The secondary mid tertiary looses are similar, but the second and third fingers aid in pulling the bowstring. In the Mediterranean or finger-loose, in use by European archers, the arrow is held between the first and second fingers, and the string is pulled by the fingers, usually three, without the aid of the thumb. In the Mongotian loose the string is farawn by the thumb, usually by the aid of a drawing-ring. See **drawing-ring-**Dull or wooden loose, a sluggish, poorly executed loose.—**Pisher loose, a finger-loose with the first three fingers placed in a slanting direction on the string.—**In the loose, in bulk; not made up in any particular shape for the trade: as, tobacco in the loose.—**Keen loose, with no restraint; ready for anything; 'on a spree'; 'on a loose keel.** from player to player, as distinguished from the scrimmage. N. E. D.—6. In mining, the

loose, v. t. 5. In archery, to release (the bowstring) after the bow is drawn, thus dis-charging the arrow.—To loose for sea, to loose safts for getting under way; cast off gaskets, etc., and have the sails ready for spreading.

loose-fall (lös'fâl), n. A lost opportunity for

angled stems

harpooning a whale. loose-shaft (lös'shaft), n. A barbed harpoonhead which fits into a socket of the foreshaft

and which becomes detached when it strikes the game

the game.

loosestrife, n.—Bulh-bearing loosestrife, Lysimachia terrestris, of eastern North America, which sometimes bears no flowers, but has peculiar bulblets in the axils of the leaves.—Creeping loosestrife, the moneywort, Lysimachia Nummularia.—Fringed loosestrife, Steironema elliatum, of North America. It is closely related to the true loosestrife, and has ovate leaves and stongly elliate petioles.—Hyssop-loosestrife, Lythrum Hyssopiolia, of the Old World, naturalized in both North and South America. It is sometimes called grasspoly.—Southern loosestrife, Steironema tonsum, of the southeastern United States.—Spotted loosestrife, Lysimachia punetata, of Europe, adventive in America from Nova Scotia to New Jeraey.—Trailing loosestrife, Steironema radicans, of the southern United States. It has a more or less decumbent habit.—Whorled loosestrife, Lysimachia quadrifolia. See *five-sisters and cut under loosestrife,—Wing-angled loosestrife, Lythrum alatum, of eastern North America. It has wing-angled stems.

Surface followed by a cross-cut so as to excise the hand which looses the bowstring in discharging the arrow, ordinarily the right hand: opposed to bow-hand. Also drawing-hand, shaft-hand.

loosing-time (lö'sing-tīm), n.

lop⁵ (lop), v. i.; pret. and pp. lopped, ppr. lopping. [Vaguely imitative, and associated with chop². Hence *loppy³.] To break in short, 'loppy' waves.

short, loppy waves.

10op-lace (löp'lās), n. 1. A lace which has lop's (lop), n. [lop's, v.] A short, 'loppy' sea. a ground of very fine net.—2. A braided lop-comb (lop'kôm), n. In poultry, a comb ornament formed of loops.

The pair that helds the orra defect, according to the breed or ask. The black that turns over to one side. This may be a merit or a defect, according to the breed or ask. ornament formed of loops.

loop-pin (löp'pin), n. The pin that holds the wheel of a howitzer in place.

loop-plug (löp'plug), n. In teleg., a device for lophine (lof'in), n. [Appar. < Gr. $\lambda \delta \phi o c$, a clisconnecting a loop-circuit; a crest, + -ine².] A colorless, feebly basic

compound,

 $C_6H_5C \leqslant \frac{NHCC_6H_5}{N \quad CC_6H_5},$

prepared by the distillation of hydrobenzamide; triphenylimidazole. It crystallizes in slender needles melts at 275° C., and boils at a high temperature without decomposition.

lophioderm (lō'fi-ō-derm), n. [Gr. λόφιον, dim. Lophiophorus; the Impeyan pheasant. See of λόφος, a crest, + δέρμα, skin.] The fold cut under Impeyan. lophophorine (lō-fof'ō-rin), n. [NL. Lophophorine] in the development of fishes.

The abdominal region comprises a short stretch of body between atriopore and anus, the termination of the alimentary canal. It is characterized by the presence of a special development of the lophioderm or median fin-system, namely the ventral fin.

Encyc. Brit., XXV. 386.

blood. The word free is more commonly used lophiodermic (lo "fi-o-der'mik), a. Of or pertaining to the lophioderm.

The median "lophiodermic raphe" of the limbs constitutes a sufficient apparatus of apport to admit of the regeneration of the cord. The connective fibrons neural and aortic canals are powerless, with the organs they inclose, to supply the place of the missing cord or to regenerate it.

Jour. Roy. Micros. Soc., Feb., 1905, p. 35.

side, etc.—Loose card, a card of no value; heuce, the lophiodontous (lo*fi-ō-don'tns), a. [Gr. Nó¢or, best to discard. Hoyle.

II. n. 5. In Rugby foot-ball, that part of teeth, +-ous.] Having hairy or bristly teeth. the play in which the ball travels freely Syd. Soc. Lex.

Lophiomus (15-fi-ō'mus), n. [NL., \(\prec{Gr. \lambda \theta \text{tov}}{\text{crest}}\), + \theta \text{topo} \text{cord}, shoulder.] A genus of fishes of the family \(Lophiid\text{a}, \) found in rather deep waters of China and Japan and off Panama. It is allied to the goose-fish (Lophius), but has fewer vertebræ.

lophocaltrop (lō-fō-kal'trop), n. [Gr. λόφος, crest, + E. caltrop.] A tetraxon sponge-spicule in which all of the rays are branched.

Also lophotriæne.

Also tophocriteue.

lonhocephalic (lo fo-se-fal'ik), a. [lophoce-phalus + -ic.] In anthrop., having a high head with a sagittal crest; scaphocephalic. G. Sergi (trans.), Var. of the Human Species, p. 43. lophocephalus (1ō-fō-sef'a-lus), n. [NL., ζ Gr. λόφος, crest, + κεφαλή, head.] In anthrop., a high head or cranium with a sagittal crest.

lophocercal (lō-fō-ser'kal), a. [Gr. λόφος, crest, + κέρκος, tail, + -all.] Pertaining to or char-

acterized by lophocercy.

The accound stage of development of the median fin aystem of Ichtbyopsida is what I have called lophocercal, when it consists of continuous, or exceptionally of discontinuous folds, which do not include permanent rays, but may at about the close of this phase contain the numerous fine embryonic rays.

J. A. Ryder, in Rep. U. S. Fish Com., 1884, p. 987.

lophocercy (1ο'fō-ser-si), n. [Gr. λόφος, crest, ÷ κένκις, tail, + -y³.] A degenerate or embryonic condition of the caudal-fin elements of certain fishes.

lophocome (lo'fo-kôm), n. [NL. lophocomus.] One of the lophocomi. Deniker, Races of Man, p. 41.

iophocomi (lō-fok'ō-mī), n. pl. [NL., \langle Gr. λόφος, crest, tuft, + κόμη, hair.] In anthrop., races of man with tufted hair.

Ulotriehes (Woolly-haired): Lophocomi (Tufted): Papana: Hottentots. Lophocomi (Tufted): Papana: Hottentots. uana: Hottentots.

lophoderm (lō'fō-derm), n. [Gr. λόφος, crest, + δέρμα, skin.] In ichth., a crested or spiny back.

Lophodermium (lō-fō-der'mi-um), n. [NL. (Chevallier, 1826), ζ Gr. λόφος, crest, + δέρμα, skin.] A genus of ascomycetous fungi of the

skin.] A genus of ascomycetous rungi of the family Hypodermataceæ, which resemble Hypoderma, but have filiform uniseptate spores. L. Pinastri is a species common on pine-needles, causing casting. See **casting, II, and **Hypoderma, 4.

Lophogaster (lō-fō-gas'tér), n. [NL., < Gr. λόφος, crest, + γαστήρ, belly.] The typical genus of the family Lophogastridæ. It contains but one species, L. typicus, known only from the North Atlantic and the South Atlantic, but not from intermediate positions. M. Sars, 1856.

Lophogastridæ (1ō-fō-gas'tri-dō), n. pl. [NL., \(Lophogaster + -idæ. \)] A family of sehizoof schizogaster + -take.] A failing of schizopodous crustaceans. They have a large, more or less
calcareous carapace, loosely covering the trunk, the first
maxillipeds robust, with the exopod anall or wanting, and
the epipod large, the second maxillipeds with the terminal
joint obtuse and the six following pairs of appendages
uniform and ambulatory. The branchiæ are large and
arborescent. It contains the genera Lophogaster, Ceratelepis, Gnathophausia, and Chalaraspis.

Lophogobius (1ō-fō-gō'bi-us), n. [NL., ζ Gr. λόφος, crest, + NL. gobius, goby.] A genus of gobioid fishes found in West Indian waters, the head having a fleshy crest.

the head having a fleshy crest.

Lophophora (lō-fof'ō-rā), n. [NL. (Coulter, 1894), < Gr. 26\$\phioc, tuft of hair, + \$\phioc, bearing. A genus of plants of the family Cactaceæ. There is but one species, L. Williamsi, a native of southwestern Texas and northern Mexico, known to the Mexicans as peyote. It has a thick, fleshy subterranean stem, the part above ground appearing as a small, depressed, green, spineless cushion, growing singly or a few in a cluster and bearing pink flowers. The seedling plants bear spines, but the mature plants have none, the areolæ being occupied by tufts of soft, white hairs. The dried tops of the plant are used by several aboriginal tribes as an intoxicant. See *mescal-buttons.

lophophore, n. 2. A pheasant of the genus Lophophorus; the Impeyan pheasant. See cut under Impeyan.

phora (Coulter), a genus name of cactus, + -ine².] A colorless, oily, poisonous alkaloid, C₁₃H₁₇NO₃, contained in the cactus Lophophora (Anhalonium) Lewinii and other species of Anhalonium.

lophophyte (lō'fō-fīt), n. [Gr. λόφος, crest, + $\phi v \tau \delta v$, a plant.] In the sponges, a special appliance, such as a bundle or tuft of spicules, which serves for the attachment of the sponge

body to extraneous objects.

lophophytic (lō-fō-fit' ik), a. [lophophyte] + Characterized by or possessing lopho-

phytes.

Figure 1. Figur which inhabit the Atlantic coast of the United States; the window-panes.

Lophoseridæ (lō-fō-ser'i-dē), n. pl. [NL., ∠ Lophoseris + -idæ.] A family of madre-Lophoseridæ (lō-fō-ser'i-dē), porarian corals consisting of simple forms with the wall neither perforated nor echinulated. It contains a score or more of genera, among them Lophoscris, Agaricia, Bathyactis, and Pachyseris.

and Pachyseris.

Lophoseris (1ō-fō-sē'ris), n. [NL. (Edwards and Haime, 1849), $\langle \text{Gr. } 76\phi o c, \text{ erest}, + \sigma \bar{\eta} \rho e c \rangle$ lord-rectorship (1ôrd-rek'tor-ship), n. The office of Lord Rector of a Scottish university. See Lord *Rector.

lophospore (lô'fō-spōr), n. [Gr. λόφος, crest, plume, + σπορά, seed.] In phytogeog., a plant lorenite (lô're-nit), n. A yellow compound, whose fruit is provided with a plume, usually HÔC_Q H₄Nl. SO₂H, prepared by the action of the modified style, to assist in dissemination. F. E. Clements.

lophotriæne (lō-fō-trī'ēn), n. [Gr. λόφος, crest, + τρίαινα, trident.] Same as *lophocaltrop.

Inhotrichic (lō-fō-trik'ik), a. [Gr. $\lambda \acute{o} \rho o c$, crest, tuft (cilia), $+\theta \rho \acute{c}$ ($\tau \rho c \chi$ -), hair, + -ic.] Having polar flagella in tufts of two or more, as in Spirillum (which see).

Fischer distinguishes two types of polar flagella, i. e. monotrichic, where they occur singly as in Pseudomonas, and lophotrichic, where they occur in tufts of two or more, as in Spirillum.

Chester. Manual of Determinative Bacteriol. p. 6.

lophotrichous (lo-fot'ri-kus), a. [lophotrich-ie +-ous.] Having a tuft of several flagella at one end of the body, as certain hacteria.

Strict reliance cannot be placed on the distinction between the Monotrichous, Lophotrichous, and Amphitrichous conditions, since one and the same species may have one, two, or more clia at one or both poles.

Encyc. Brit., XXVI. 52.

loq. An abbreviation of the Latin loquitur, he (or she) speaks. See *loquitur.

(or sne) speaks. See conquitt.

loquat, n.—Native loquat, in Queensland, Rhodomyrtus macrocarpa, a shrub of the myrtle family, bearing fruits about one inch long and yielding a hard, tough wood of a light-gray color.

loque (lōk), n. [F. loque, a piece of cloth, a rag, tatter, also a disease of bees.] An infections disease of bees and local boat longer of bear agustal by a small boat.

tions disease of bees caused by a small bacil-lus found in the intestines of the diseased insects and in the honey of the hive.

insects and in the honey of the hive.

V. Lambotte finds that the Bacillus sivel, described by Watson-Cheyne and Cheshire as the cause of the "loque" disease of bees, is merely a variety of the widespread Bacillus mesentericus. The bacillus occurs in healthy hives, being found in the comb and in the intestinal contents of the bees. The characteristic appearance of the disease is brought about by the budding of the bacillus in the tissues of the larva.

Jour. Roy. Micros. Soc., Feb., 1903, p. 77.

loquent (lo'kwent), a. [L. loquens (loquent-), ppr. of loqui, speak.] Speaking; that speaks. [Rare.]

loquently (16' kwent-li), adv. By way of speech; in speech." [Rare.]

An imposed secretiveness, . . . which comes of an experience of repeated inefficiency to maintain a case in opposition, on the part of the loquently weaker of the pair.

G. Meredith, One of our Conquerors, xii.

loquitur (lok'wi-tèr). [L. 3d pers. pres. ind. of loqui, speak: see *loquent, locution.] 'He (she) speaks': in plays, a stage direction indicating that the person named enters and speaks: as, Enter Marlitt, loquitur. Abbreviated log.

Lord [Part | Part |

Loral shield. See *shield.
lorandite (lor'an-dit), n. A rare sulpharsenide of thallium, TlAsS₂, which occurs it complex monoclinic crystals of a eochineal-red color: found with realgar at Allchar, Mace-

donia.

lord, n. 8. In astrol., a planet that exercises dominion: thus, the ruler of the sign or the cusp of the first house in a nativity is termed clord of the ascendant or of the geniture. See lord of the ascendant, under ascendant, 1.—9.

In entom., same as total lord of the sign or the lorus, n. 2. In Africa, the white-crested tural to run over the leaves of the water-lilies.

In entom., same as total lord or the lotus and water-lily. Its long toes charged it to run over the leaves of the water-lilies.

In entom., same as total lord or the lotus and water-lily. Its long toes charged it to run over the leaves of the water-lilies.

In entom., same as total lord or the lotus and water-lily. Its long toes charged it to run over the leaves of the water-lilies.

In entom., same as total lord or the lotus and water-lily. Its long toes charged it to run over the leaves of the water-lilies.

In entom, n. 2. In Africa, the white-crested tural lord or the ascendant or of the geniture. See lotus for the plantain-eaters: probably so called on a ceount of its green color and high crest, which suggest a parrot. In the ascendant, under ascendant, 1.—9. The parameter of the punning use, resting upon Gr. λορδός, bent backward.] A hunchback. [Slang.]—As a lord or like a lord, in a superlative state of the condition noted; as, to live like a lord, to live in luxury; drunk as a lord, entirely drunk; to swear like a lord, to drink like a lord, etc.—Civil lord. See *civil.—Irish lord, a com-

mon name of various species of fish of the genus **Hemilepidotus* (which see), especially II. Jordani.—
Lord ordinary. See ordinary.—Lord Rector. See **rector.—Lords appellant, the five peers who superseded after a brief control of the government. *Bourier*, Lords of creation, men.—Naval Lord, one of the commissioners of the British Admiralty who is also a naval officer. See **admiralty, 1 (b).—Sea Lord. Same as *Naval **Lord.* See **admiralty, 1 (b).—Very lord, one from whom the tenant takes directly, and to whom he is very tenant. The lord paramount is not very lord to the tenants of a mesne lord.

None of the genus losophan (lō'sō-fan), n. The trade-name of a tri-iodometacresol, HÖC₆HI₃CH₃, formed by the action of iodine on metacresol. It is used in medicine as an antiseptic in certain skin-diseases.

Noval **Lord.* See **admiralty, 1 (b).—Very lord, one from whom the tenant takes directly, and to whom he is very tenant. The lord paramount is not very lord to the tenants of a mesne lord.

The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord, one of the commissioners, or other electrical apparatus, due to the visitence of hystoresis and of eddy-currents within the very tenant. The lord paramount is not very lord to the very tenant. The lord paramount is not very lord, one of the commissioners, or other electrical apparatus, due to the visitence of hystoresis, and of eddy-currents within the visitence of hystoresis,

747

lordotic (lôr-dot'ik), a. [lordosis (-ot-) + -ic.] Pertaining to or affected with lordosis; caused by lordosis: as, lordotic eurvature.

lordship, n. 5. In mining, a mineral property. lot,

HOC 9 H4N1. SO3H, prepared by the action of

enzenite (lō-ren'ze-nīt), n. [Named after Lorenzen, a mineralogist of Copenhagen.] lorenzenite (lo-ren'ze-nīt), n. A rare silicate containing titanium, zircouium, and sodium (perhaps Na₂(Ti, Zr)₂Si₂O₇), occurring in violet to brown needle-like orthorhombic crystals: from southern Greenland. loretine (lor'e-tin), n. A yellow, very stable,

erystallino compound, HOC₉H₄NI. SO₃H, prepared by the action of nodiue on 8-hy-lotio (loshio), n. [L.] A droxyquinoline-5-sulphonic acid: used as a lotion.—Lotioflava Same as yellong. substitute for iodoform.

 $\lceil lorette + ism. \rceil$ lorettism (lo-ret'izm), n. The condition or characteristics of the lorettes. The brilliant ball given by the aristocracy of the Parisian lorettes—for even torettism has its aristocracy.

Pall Mall Gazette, Sept. 9, 1865.

loppy³ (lop'i), a. $[lop^5 + -y^1]$ Short; lumpy: lorica, n. 4. An old name for a paste or lute said of the sea. See $*lop^5$. with which vessels were coated in order to 5. In bat.: (a) Same as testa, 2. [Obsolete.]
(b) The silicious covering of the frustules of diatoms.

Loricati (lor-i-kā'tī), n. pl. [NL.: see lori-cate.] A suborder of fishes characterized by the development of a bony stay from the sub-orbital bones backward across the check: eommonly known as the mail-cheeked fishes.

lorilet (lō'ri-let), n. [Dim. of lory.] Any one of several small parrots of the genus Cyclop-sittacus and allied genera, found in New Guinea, North Australia, and some of the adjacent islands.

Lorinseria (lō-rin-sē'ri-ā), n. [NL. (Presl, 1852), named for Gustav Lorinser, a Bohemian physician (1811-1863).] A genus of polypodiaceous ferns allied to Woodeardia but well disaceous terms affect to Woodtedrada but well distinguished by its dimorphous fronds and copious arcolate veuation. There is a single species, L. arcolata (Woodwardia angustifolia), of the eastern and southern United States. It grows 2 feet or less high, and has green-stemmed, deeply pinnstifid, ovate-deltoid, sterile fronds, much resembling those of the sensitive fern, and fertile fronds longer and stiffly erect, with dark castaneous stipe and rachis and much contracted pinnse. The linear sori are borne as in Woodwardia.

loro (15'rō), n. [Sp., a parrot, a parrot-fish. Cf. lory.] A Spanish name of different fishes of the genus Scarus.

lorry, n. 3. A trolley for earrying coal, ore, etc., upon an overhead railway. Also written larry.

lose-out (loz'out), n. In faro, a eard that loses the last time out of the box.

diseases.

10SS, n.—Dead loss, a loss that cannot be recovered or made good, either directly or indirectly.—Iron loss, the loss of energy in the operation of motors, generators, transformers, or other electrical apparatus, due to the existence of hysteresis and of eddy-entrents within the iron parts of the machine.—Utter loss, in marine insurance, an actual total loss, as distinguished from a constructive total loss (which see, under constructive).

tenants of a mesue lord.

lord-borough (lôrd'bur"ō), n. One who has quasi-manorial rights in certain English borquasi-manorial rights in certain English b A mineral near scorodite in form, but consist ing of lead sulphate and ferrie arseniate with water: from Laurium, Greece.

water: from Lammun, Greece.

lost, p. a.—Lost or not lost, in marine insurance, a phrase in a policy signifying that the risk is assumed whether or not the vessel insured is lost at the time the policy is made, provided that neither the insured nor the insurer has at the time any knowledge or information of the fact not equally known or available to the other.—
The lost tribes. See *tribe.

lot, n. 10. An individual person: usually with bad. [Colloq.]

L'ma had let I know—well an idle lot—I don't think

I'm a bad lot, I know,—well, an idle lot—I don't think I am a bad lot. Mrs. Humphry Ward, Marcella, iv. 5. 345.

iodine on 5-hydroxyquinoline-8-sulphonie acid. lotase (15'tās), n. [Lotus +-ase.] A ferment found in the plant Lotus arabicus. It decomposes and decomposes above 210° C. lorenzenite (15-ren'ze-nīt), n. [Named after Lotus arabicus.] Named after Lotus arabicus. It decomposes above 210° C. lorenzenite (15-ren'ze-nīt), n. [Named after Lotus arabicus.] Named after Lotase (15'tas), n. [NI dim of Lotas]

Lotella (lō-tel'ä), n. [NL., dim. of Lota.] A genus of gadoid fishes found in the deep seas.

lotiform (lo'ti-form), a. [L. lotus, lotus, + forma, form.] Similar to the lotus: noting a large class of decorative motives found in Egyptian

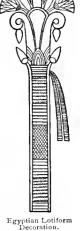
lotion.—Lotio flava. Same as yellow *lotion.—Lotio nigra. Same as black *lotion.

lotion, n. 4. Drink (humorously conceived as a 'wash' or 'remedy'). [Slang.]—
Black lotton. Same as blackwash.—Yellow lotion. Same as
yellow wash (which see, under

lotoflavin (lö'tö-flav-in). A vellow coloring-matter, $C_{15}H_{10}O_6$, obtained by the hydrolysis of the glucoside lotusin from the leaves of

Lotus arabicus.

lotophagous (lō-tof'a-gus),
a. [Gr. λωτοφάγος: see Lotophagi.] Lotus-eating; pertaining to or characteristic of the Lotophagi.



lotophagously (lo-tof'a-gus-li), adv. In the manner of lotus-eating or of the lotus-eaters. lotur (lô'tūr), n. Same as lodh-bark.

loturidine (lō-tū'ri-din), n. [lotur, a form equiv. to lodh, + -id + -ine².] A yellowishbrown amorphous alkaloid contained in Indian lotur-bark, Symplocos racemosa. Its solutions in mineral acids exhibit a strong blue-violet fluorescence.

[lotur + -ine2.] loturine (lo'tū-rin), n. colorless alkaloid contained in Indian loturbark, Symplocos racemosa. It crystallizes in lustrous prisms, melts at 234° C., and sublimes.

limes.

lotus, n.—American lotus, $Nelumbo\ lutea$. See $Nelumbo\ .$ —Egyptianlotus. (b) The sacred lotus, $Nelumbo\ Nelumbo\ .$ —European lotus, the lotus-tree, $Zizynhus\ Lotus\ .$ —Indian Lotus, the sacred lotus.—Lotus capital or column. See ** $xapital^3$.—Sacred lotus. (c) See * $xacred\$ and lotus, I. (b) $Nelumbo\ Nelumbo\$ a native of the warmer parts of Asia and of Australia, apparently not of Egypt, though long cultivated there and often called Egyptian lotus. It is a superb plant with large, showy pink or sometimes white flowers. It is very common in cultivation, and figures extensively in Indian mythology.—Lotus ware. See * $xacre^2$.

lotus-bird (15^{\prime} tus-berd), n. The Australian incana. $Parra\ (Hudrulector)\ gallinacca$, a small

jacana, Parra (Hydralector) gallinacca, a small water-bird with enormously long toes, related

eyanic acid, d-glucose, and lotoflavin when hydrolyzed.

lotus-lily (lō'tus-lil"i), n. See *lil".

[Chin.] In China, a twolou (lö or lou), n. story house, or the upper story of such a house; also, a tower, of square or oblong sec-tion and one, two, or three stories in height,

which surmounts a city gateway or ornaments the angles of a city wall.

Among the later representatives of the tai are the towers of the great wall, which are built of stone with arched doors and windows—the Chines would seem always to have employed the arch in stone architecture—the storied buildings dominating the gateways and angles of the city walls. Great used to store arms, and the observatory of Peking, which is also a square tower mounted upon the city walls. When the tower is planned of olong section, broader than it is deep, it is technically ealled a "lou." S. W. Bushell, in Smithsonian Rep., 1904, p. 670.

Lou. An abbreviation of Louisiana.

Louing the later representatives of the tai are the towers of the great wall, which are built of stone with short and erumpled funnels. It ranges from the Lower Silurian to the Carboniferous. 10x0dograph (lok-sod'ō-grāf), n. [Gr. \lambda\tilde{o}\til

Lou. An abbreviation of Louisiana.

louhra, n. Same as *lubra.

louche (lösh). a. [F. louche, OF. lousche, < L. lusca, fem. of luscus, one-eyed.] Squinting; not straightforward; sinister.

There is something louche about him, which does not accord with the abandon of careless intimate intercourse.

Lady Morgan, Autobiography, p. 31s. N. E. D.

louden (lou'dn), r. [loud + -en1.] I. intrans.
To become loud or louder: also figuratively.

The reflexed stoneerop, Sedum reflexum.

II. trans. To make loud or louder: as, to louden one's voice.

lougheen (loch'ēn), n. [loug dim. suffix.] A small lough. [lough1 + -een, Ir. -in,

Louisianian area. Same as austroriparian *area.

Louis Philippe porcelain. See *porcelain1. loukoum (lö-köm'), n. [A French spelling of Turk. luqūm, a namo for various kinds of small cake and confections, lit. mouthfuls, pl. of logma, a mouthful.] Fig-paste.

lound (lound), a. Same as $low n^2$.

loup³, n. 2. A sort of grapple used in ancient love's-test (luvz'test), n. The plantain-leaved everlasting, Antennaria plantaginifolia. and lift a battering-ram and thus prevent its love-vine (luv'vīn), n. Any species of dodder

loupe, n. 2. A lens or magnifying-glass. love-worthiness (luv'wer"THi-ues), n. Optical Jour., Sept., 1903, p. 384.

Loup Fork beds. See *bed1.

loupthu (loup'thö), n. pl. [Samoyed?] Stockings made of fawn-skins, worn by the Samoveds.

As the result of his experience, Mr. Jackson fitted out his party for Franz Josef Land with furs cut in London on the Samoyede pattern. These models have evidently come to stay, for one of the London equipment stores now advertises soviks, malitzas, loupthu and pimmles.

**Jour. Franklin Inst., May, 1904, p. 323.

loutron (lö'tron), n.; pl. loutra (-trā). [Gr. Δοντρών), ⟨λοίτεν, wash, bathe.] lowan (lö'an), n. The Australian brush-turkey or mallee-bird, Leipoa occilata, one of the discovered at Salamis in Cyprus in 1890; more often a large shallow terra-cotta basin with oversithents converted to the convenient of the more often a large shallow terra-cotta basin with oversithents converted to the convenient of the

with or without a support. loutrophoros (lö-trof'ō-ros), n.; pl. loutrophoroi (-roi). [Gr. λουτροφόρος, bringing water, ζ λουτρόν, o both a bath, water for a bath, + -φορος, ζ φέρειν, bear.] In Gr. antiq., a vase used to carry water to a bath, especially the nuptial especially the nuptial bath. It is an amphora of a special form, both body and neck being much elongated. The subjects found upon black-figured loutrophoro are usually funereal; those upon red-figured loutrophoro have reference to marriage. A loutrophoros, sometimes carved in marble, was frequently placed upon the grave of a young person who died unmarried.

louver-work (lö'verwerk), n. Same as louver. 3.

lovably (luv'a-bli), adv. In a lovable way.

He imagined her coming towards him in her radiant runerary Loutron majestly, made so breably mor- (From "Die Attisch tal by her Boft hazel eyes.

George Eliot, Romola, xvii.

lovanenty (luv-a-nen'ti), interj. [Also love-

Funerary Loutrophoros.

'good gracious!'] prise. [Scotch.]

Lovenenty me! but she'll hae gi'en ye anither kind o' a kiss than an auld wife like me. Crockett, Raiders, xxi. which surmounts a city gateway or ornaments love1, n. 12. In Tasmania, the blue-creeper,

1 shall make no more dark things; after three months

black silk is worn with love hood.

Mrs. Delany, to Mrs. Dewes, in Life, p. 478. N. E. D.

flexed stoneerop, Sedum reflexum. love-in-winter (luv'in-win'ter), n. The pip-I can recall, nay, they are present still, Parts of myself, the perfume of my mind, Days that seem further off than Homer's now Ere yet the child had loudened to the boy.

Lowell, The Cathedral, 1. 17.

To make loud or louder: as to discovered the control of th

quality of being worthiness of human nature.

Daily News (London), May 27, 1899.

L. P. S. An abbreviation of Loyd's Register. See Lloyd's n. Received to the Royal College of Physicians.

L. R. C. P. An abbreviation of Licentiate of the Royal College of Physicians, Edinburgh.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians, Edinburgh.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians, Edinburgh.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Physicians, Edinburgh.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Surgeons.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Surgeons.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Surgeons.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Surgeons.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Surgeons.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Surgeons.

L. R. C. S. An abbreviation of Licentiate of the Royal College of Physicians, Edinburgh.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Surgeons.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians, Edinburgh.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviation of Licentiate of the Royal College of Physicians.

L. R. C. P. E. An abbreviatio

low-doors (lo'dorz), n. pl. In mining, the lowest of two or more landings in a shaft.

Society of Apouncearies.

L. S. B. An abbreviation of London School-hourd. Barrowman, Glossary. [Seoteh.]

löweite, n. See *locweite.

Lower Helderberg group. See $\star group^1$. Lowestoft decoration, porcelain. See *decoration, armorial *porcelain.

löwigite, n. See *loewigite.

Lowitz, arcs of. In meteor., two short oblique bands of rainbow colors attached to the parhelia of the halo of 22° and inclined to the large of the halo of 22° and inclined to the large of the halo of 22° and inclined to the large of the halo of 22° and inclined to the large of horizontal parhelie circle: due to sunlight norizontal parnelle elecie: due to sunlight through ice prisms whose axes are L. Th. An abbreviation of Licentiate in Theoseillating about a normal vertical position, ology.

First observed by Lowitz at St. Petersburg in Lu. The symbol for *lutecium.

low-pitched (15'pieht), a. 1. Pitched in a (b) of Liberat-Umomst. low key, as a voice.—2. Of a low or degraded luau (15-ä'ö), n. [Hawaiian luau, boiled herbs nature: as, low-pitched desires.—3. Having (kalo-leaves), the leaf of the kalo, the petal of a plant.] In the Hawaiian Islands, a dish Having a low ceiling, as a room.

lowrie, n. Another form of lory (which see). Loxian² (lok'si-an), n. [Gr. Λοξίας, an epithet of Apollo, commonly supposed (perhaps wrongly) to be connected with λοξός, oblique, ambiguous.] An epithet of Apollo.

nenty, toreanendic; an extension of love an-loxic (lok'sik), a. [Gr. 2056s, slanting, oblique, end (see an-end, 3), that is, 'almighty love!' +-ic.] Distorted; drawn to one side.

An exclamation of sur-Loxoceras (lok-sos'e-ras), n. [NL., < Gr.

λοξος, slanting, + κερας, horn.] A genus of
fossil nautiloid cephalopods of the family
Loxoceraticle (suborder Cyrtochoanites), ineluding orthoceracones and cyrtoceracones

Loxomma (lok-som'a), n. [NL., < Gr. λοξός, slanting, oblique, + δμμα, eye.] A genus of stegocephalian Amphibia from the coal-meas-

Mrs. Delany, to Mrs. Dewes, in Life, p. 478. A. E. D.

2. A light hood made of silk and gauze, worn in colonial days in New York. A. M. Earle, Costume of Colonial Times, p. 133. love-in-a-chain (luv'in-a-chān'), n. The reflexed stonecrop, Sedum reflexum.

In the Carle white of the first and a long aperture. It ranges from the Silusissewa or prince's-pine, Chimaphila umbellata.

Same as anti-slareru ★china. ures. See *Gastrolepidotidæ.

in the Carboniferous. Loveliness; the loxonemoid (lok-sō-nē'moid), a. [Loxonema The forget-me-not, loxophthalmus (lok-sof-thal'mus), n. [Gr. $\lambda \delta \delta \delta \phi$, oblique, $+ \delta \phi \theta a \lambda \mu \delta \phi$, eye.] Same as

er: as to quality of being lovely.

love-me (luv'mē), n. The forget-me-not, Myosotis palustris.

lovenite (lov'e-nīt), n. See *lâvenite.

love-pea (luv'pē), n. The Indian licoriee or rosary-pea, Abrus Abrus.

loverliness (luv'ér-li-nes), n. The condition and quality of a lover; loverhood. G. Meredith, The Ēgoist, I. 154.

kinds of lover's-pride (luv'érz-prīd"), n. The heart's-thfuls, pl. ease or lady's-thumb, Polygonum Persicaria.

love-shell (luv'shel), n. A species of Cy præa.

+-oid.] Resembling or related to Loxonema.

| loksoft hal'mus), n. [Gr. λοξότ, oblique, + 'οφθαλμός, eye.] Same as *guint.

| lovetic (lok-sot'ik), a. [Gr. λοξότης, obliquity (⟨λοξός, oblique), + -ie.] Same as *loxic.

| lovetiness (luv'érz-prīd"), n. The heart's-thfuls, pl. ease or lady's-thumb, Polygonum Persicaria.

| lovetine (lov'e-nīt), n. See *lâvenite.
| lovetic (lok-sot'ik), a. [Gr. λοξότης, obliquity (⟨λοξός, oblique), + -ie.] Same as *loxic.

| lovetiness (luv'érz-prīd"), n. The heart's-thfuls, pl. ease or lady's-thumb, Polygonum Persicaria.

| lovetiness (luv'e-nīt), n. See *lâvenite.
| lovetiness (luv'e-nīt), n. The loadition and quality of a lover; loverhood. G. Mere-thfuls, pl. ease or lady's-thumb, Polygonum Persicaria.

| lovetiness (luv'e-nīt), n. The loadition and quality of a lover; loverhood. G. Mere-thfuls, pl. ease or lady's-thumb, Polygonum Persicaria.

| lovetiness (luv'e-nīt), n. The loadition and quality of a lover; loverhood. G. Mere-thfuls, pl. ease or lady's-thumb, Polygonum Persicaria.

| lovetiness (luv'e-nīt), n. The leant's-thfuls, n. [Gr. λοξός, oblique, + 'οḍe λοξός, oblique, + 'οḍe λοξός, oblique, + 'οḍe λοξός, oblique, + 'οḍe.] Same as *guint.

| lovetiness (luv'e-nīt), n. The leant's-thfuls, n. [Gr. λοξότης, oblique, + 'οḍe λοξός, oblique, + 'οḍe λοξός, oblique, + 'οḍe.] Same as *guint.

| lovetiness (luv'e-nīt), n. The leant's-thfuls, n. 2. [cap.] Specifically, in the dath the location and quality of a lover; loverhood. G. Mere-thfuls, n. 2. [cap.] Specifically, in the loverhood and quality of American Revolution, a Tory.

lozenge, n.—Spherical lozenge, in geom., an equilaterial of the cerebral lozenge, in geom., an equilaterial of the cerebral cortex between the cruciate and precruciate fissures in certain carnivora, especially the bear.

Lp, Ldp. Contractions (a) of Ladyship; (b) of Lordship.

L. P., l. p. An abbreviation of low-pressure.

Tho L-piece (el'pēs), n. A piece of metal tubing bent to a sharp turn; an elbow.

L. P. M. An abbreviation of long particular meter.

L. S. A. An abbreviation of Licentiate of the Society of Apotheearies.

board. L. T. An abbreviation (a) of lira Turca, the Turkish pound; (b) [l. c.] of long ton.

Lt. Batt. An abbreviation of light battery. Lt.-Col. An abbreviation of Lieutenant-Col-

Lt.-Gen. An abbreviation of Lieutenant-Gen-

L. U. An abbreviation (a) of Liberal Union;

of a plant.] In the Hawaiian Islands, a or dinner of boiled herbs with additions.

A luau is a square meal with roast pig and poi in it.

Hartford (Conn.) Courant, quoted in
[N. Y. Times, April 27, 1905.

Lubber's mark. Same as lubber-line. lubber-fiend (lub'er-fiend), n. In folk-lore, a The coffer-lid house-elf or brownie who repays tolerance or kindness by doing the harder part of the housework, in the night, for his benefactors.

Browning, Sordello, i. 80. (lok'sik), a. [Gr. Assoc, slanting, oblique, lok'sik] britanted above the lower of lubbers: a kind of nautical purgatory.

lubber-lift (lub'ér-lift), v. t. In lumbering, to raise the end of a log by means of a pry, and by the use of weight instead of strength.

Lubber-lift (lub'ér-lift), v. t. In lumbering, lucigraph (lū'si-gráf), n. [L. lux (luc-), light, to raise the end of a log by means of a pry, and by the use of weight instead of strength. Lubish (lö'bish), a. [G. lübisch, < Lübeck.] Of or pertaining to Lübeck (Lubeck), one of

the Hanse towns of North Germany: applied particularly to certain moneys of account in mercantile use there: as, the mark Lubish;

the shilling Lubish.

lubra (lö'brä), n. [Also loubra, leubra; native Australian, but prob. orig. Tasmaniau, from Australian, but produced in Tasmania, but later adopted in Australia south of the Murray. North of the Murray the term gin was in use. Both terms are now used without geographical restriction. II. Kingsley, Geoffrey Hamlyn, xxxix. E. E. Morris.

Morris.

The texture is pandon...

Unine the same as materiae...

Income term of a bright and a blackened glass bulb connected by a glass tube and partly filled with water. The higher temperature of the black bulb causes the liquid within it to evaporate more rapidly than that in the bright bulb, where the surplus is condensed.

Income the texture is pandon...

Unine texture is pandon...

Income terms of dorite.

Income terms of dorite.

Income terms of a bright and a blackened glass bulb connected by a glass tube and partly filled with water. The higher temperature of the black bulb causes the liquid within it to evaporate more rapidly than that in the bright bulb, where the surplus is condensed.

Income terms of dorite.

Income terms of dorite.

Income terms of dorite.

Income terms of dorite.

Income terms of a bright and a blackened glass bulb connected by a glass tube and partly filled with water. The higher temperature of the black bulb causes the liquid within it to evaporate more rapidly than that in the bright bulb, where the surplus is condensed.

Income terms of the texture is pandon...

Income terms

 lubrication, n. - Forced lubrication, lubrication in which oft is furnished to the bearings under pressure. splash lubrication, a method of supplying oil to the splash funrication, a method of supplying oil to the bearings of an engine-mechanism, by inclosing the crank and connecting-rod in an oil-tight case filled with oil to such a level that the crank dips into it and spatters the oil upward over the surfaces to be lubricated: much used in small high-speed motors, and especially in engines for motors are:

lubricator, n.—Displacement lubricator, a device for feeding oil in which the difference in specific gravity of the oil and water is utilized to regulate the feed.

Lucan (lū'kan), a. [Also Lukan; \(\) L. Lucas, Luke, \(+ -an \)] Of or pertaining to Luke the

Evangelist.

Lucania (lū-kā'ni-ā), n. [NL., a meaningless term.] A genus of fishes of the family Paccilida, found in the coastwise swamps of the eastern United States.

lucanid (lū-kan'id), n. and a. I. n. An ber of the coleopterous family Lucanidæ.

II. a. Having the characters of or belonging to the family Lucanidæ.

Lucasian (lu-kā'zi-an), a. founded by Henry Lucas (d. 1663). See the

extract.

The opportunity which gave to the world the 'Philosophis Naturalis Principia' was not due to the state subvention of the deputy mastership of the mint, but to the modest provision of a professorship by one Henry Lucas, of whose pions benefaction Cambridge has made such wonderful use in her Lucasian professors.

Science, Oct. 16, 1903, p. 490.

Lucullian (lū-kul'i-an), a. [L. Lucullianus, d. Lucullianus, a. [L. Lucullianus, d. Lucull

lucently (lū'seut-li), adv. eently; luminously.

eently; luminously.

lucerne, n.—Native lucerne, in Australia, Sida retusa, a weed of the mallow family, which yields a fiber somewhat like jute. Also called paddy-lucerne. See Sida, 1.—Paddy-lucerne, Same as native *klucerne.—Sand-lucerne, Medicago media, a deep-noted perennial forage-plant, closely related to lucerne, of which it is sometimes regarded as a variety. It is less stiff in habit, its flowers are sometimes yellow, and its pods less colled. In Michigan it has proved to possess the great advantage of enduring the winters.—Tree-lucerne, Medicago arborea, a shrubhy alfalfa cultivated in the Old World from ancient times, now wild in Greece. It serves for forage and as a bee-plant—Yellow lucerne, Medicago faleata, botanically close to alfalfa and sand-lucerne, but valued only on dry and barren soils.

lucerne-dodder (lū-sern'dod'er), n.

Lucianic, Lucianical (lū-shi-an'ik, -i-kal), a. Of or pertaining to Lucian, a Greek satirist of the second century, or characteristic of his writings and style.

Lucianist² (lū'shian-ist), n. An imitator of Lucian, the Greek satirist.

lucible (lū'si-bl), a. [LL. lucibilis, < lucere, be light: see lucent.] Emitting light; lucent. luciferase (lū-sif'e-rās), n. [L. lucifer, light-ludibundt (lū'di-bund), a. [L. ludibundus, bringing, +-ase.] One of the two special (ludus, play, sport.] Playful; sportive. substances by the reactions of which light is N. E. D. supposed to be produced by fireflies. It is supposed to be of the nature of an enzym and to exist in the form of minute granules only in the luminous organs. The other substance, luciferine, exists in the blood, and light is produced as the blood enters the luminous area.

It is affirmed by Dubois that luminescence is due to the reactions of two special substances, luciferase and luciferine.

Encyc. Brit., XXIX. 499.

luciferine (lū-sif'e-riu), n. [L. lucifer, light-bringing, + -ine².] See *luciferase.

luciferose (lū-sif'e-rōs), n. [L. lucifer, light-bringing, + -ose.] Same as *luciferasc.

Lucifuga (lū-sif'ū-gā), n. [NL., fem. of L. lucifugus, shunning light: see lucifugous.] A genus of blind brotuloid fishes inhabiting cave streams in Cuba. These fishes are not related to the blind cave-fishes of the United States, but are derived from marine types,

lucifugal (lu-sif'u-gal), a. Same as lucifugous.

playing the letters and numbers of the international maritime code: used in signaling. It consists of a powerful electric light, the rays of which are focused by suitable lenses, and of a series of steneils, manipulated by a keyboard, placed in the path of the rays. The letters and numbers are projected on a screen. Electricity, XV. 226.

lucite (lö'si-it), n. [G. luciit (Chelius, 1892), < Luci(bcry), Hesse, Germany, + -it, E. -ite².]

In petrog., a fine-grained phaneric, igueous

Luciocharax (lū-si-ok'a-raks), n. [NL., < L. Lucius, a pike, + Gr. χάραξ, a sea-fish (see Characinus).] A genus of fishes of the family Characinidæ, found in streams near Panama. lucium (lū'si-um), n. [NL., < L. lux (luc-), light.] The name given by Barrière to a supposed new chemical element obtained from the yttria of monazite. Its existence has not been confirmed.

lucivee (lū-si-vē'), n. [Also lucifee; a corruption (simulating Lucifer) of loup-eerrier, q. v.] The Canada lynx, Lynx canadensis. q. v.J. The Ca. See *loup-eervier*.

The lucifee's eyes snapped fire, and she advanced right along the log to within fifteen feet of the sitter.

Forest and Stream, Jan. 24, 1903, p. 67.

Pertaining to or Lucullan (lū-kul'an), a. [L. Lucullanus, lujaurite (lö'you-rīt), n. d. 1663). See the (Lucullus (see def.).] Of or pertaining to L. Kola Peninsula, Finland, Licinius Lucullus (110-57 B.C.), a Roman, a variety of nephelite-syer

[Modern.]

It [Santa Tarsilla] was a dreary place at the best of times; antiquaries said that the sea had receded nearly a mile since the days when the Etruscan pirates had sailed from that bay, and Etruscan Lucomonies had had their fortresses and their tombs away yonder where the shoreline grew dusky with thickets of bay and rosemary and the prickly marneca, or holy thorn, so common here.

Ouida, In Maremma, ii.

Ouida, in Maremma, n. easks.

luderick (lū'de-rik), u. [Also ludrick; aboriginal Australian (Gippsland in Victoria).] A lulliloo (lul-i-lö'), v. t. and i. [Imitative; ef. local variety of the Australian blackfish, Incisidens simplex. E. E. Morris, Austral Engwith vibrations made by hitting the month ginal Australian (Gippsland in Victoria).] A local variety of the Australian blackfish, Incisidens simplex. E. E. Morris, Austral English.

Ludian (lö'di-an), n. [Named from Ludes, in the Montague de Rheims, France.] In gcol., the uppermost division of the Eocene Tertiary in the Paris basin, consisting of gypsum and marls, and containing mammalian remains in great abundance (dormiee, opossums, paehyderms, and various earnivora which partly have marsupial characters). Also called Priabonian and Paris gypsum.

ludicrosity (lū-di-kros'i-ti), n. Ludicrous-

Ludisia (lū-dis'i-ä), n. [NL. (A. Richard, 1825), of unknown significance.] A genus of monocotyledonous plants of the family Orchidaecæ. See Hæmaria.

Ludolf number, π . Same as Ludolphian number (which see, under number).

ludrick (lö'drik), n. See *luderiek.

1. u. e. An abbreviation of left upper entrance. **luf**, n, and v. A simplified spelling of luff.

shivering.—Rigging-luffs, a tackle used for setting up lower rigging.—To choke the luff. See *choke!.—To hold a good luff, to steer so as to keep a vessel's sails trembling along the leeches, or along the luffs.

luff², r. I. trans. 2. To lift (the boom of a

II. intrans.—To luff and lie, to inff and remain close to the wind.—To luff and touch her, to inff until the saits shake.

luff-cringle (luf'kring"gl), n. Au iron ring

spliced into the bolt-rope of a gaff-sail at the junction of the head and luff.

luffing-match (luf'ing-maeh), n. racing, a struggle to get to the windward of a competitor.

lug¹, n.— Standing lug, a lug-sail that does not require the yard to be lowered and shifted to leeward of the mast in tacking.

lug², n.— Eccentric lug, a seat or projection on an eccentric-strap to which the eccentric-rod is attached. lug-chair (lug'char), n.—A high-backed easy-ehair with side-pieces for the head.

luge² (lö'ge), n.; pl. lugen (-gen). [Swiss (Grisons).] A Swiss form of coasting-sled of (Grisons).] A Swiss form of coasting-sled of small size, steered by short iron-pointed sticks. Two of these ligen are often combined into a bob-sled with steel frames of tubular construction and fitted with a wheel steering apparatus.

a wheel steering apparatus.

The 'luge' is a small sled peculiar to the Grisons (Switzerland), which recalls the schlittes of the Vosges, and which up to the present has been steered by hand through the intermedium of short, iron-pointed sticks.

Sci. Amer. Sup., April 15, 1905, p. 24488.

luggar, luggur, n. Same as lugger². lug-hooks (lug'húks), n. pl. in lumbering, a pair of tongs, attached to the middle of a short bar, used to carry small logs.



lug-pole (lug' $p\bar{o}l$), n. A pole on which a kettle is hung over a fire.

ujaurite (lö'you-rit), n. [Lujaur mountain, Kola Peninsula, Finland, + -ite².] In petrog., a variety of nephelite-syenite composed of tabular alkali-feldspars in parallel arrangement, with nephelite, abundant ægirite in thin needles, and variable amounts of endialyte. Ramsay, 1894.

lul, v. and n. A simplified spelling of lull.

lulab (lö-läb'), n. [Syr. lulaba.] A green palm-Lucullus.] Same as *Lucullun.

lucullite (lū-kul'īt), n. [L. Lucullus + -ite².]

Same as *Lucullean marble or lumachelle.

lucumony (lū'kū-mō-ni), n. The domain of a Lucumo, or ancient Etruscan prince.

Lucumo, or ancient Etruscan prince.

lucumo, n. Hence—3†. Good night; good-by.

Duke. You can fool no more money out of me at this hrow: if you will let your lady know 1 am here to speak ith her, . . . it may awake my bounty further. throw: if with her,

Clo. Marry, sir, lullaby to your bounty till I come shak., T. N. v. 1.

lull-bag (lul'bag), n. A canvas chute used on whale-ships for guiding the blubber iuto easks.

with the hand: used in reference to African aborigines.

The women [of a tribe in northwestern Rhodesia]. when saluting an important stranger, do so by tultilooing, a word coincd by Livingstone to express a peculiar shrill scream, the sound being made to vibrate by hitting the mouth with the hand. Geog. Jour. (R. G. S.), XVIII. 74.

lulu (15'15), n. [W. African.] A cyprinoid fish, Labeo longipinnis, which roaches a large size: found in the Kongo river.

 lumbago, n. 2. Same as *chine-gall.
 lumbago (lum-bā'gō), v. l.; pret, and pp. lumbagoed, ppr. lumbagoing. To affliet with lumbagoing. bago.

lumbang (lum'bäng), n. [Tagalog lumbang, Bisaya lumbang.] In the Philippine Islands, the candlenut-tree, Alcurites Moluceana. See *knkni.

lumbang-oil (lum'bäng-oil), n. Same as *canallenut-oil

Lumbar index, puncture. Seo *index, *punc-

ture.

lumber³ (lum'bér), r. t. [lumber³, n.] To put in pawn; hence, to put in prison. N. E. D. lumberer² (lum'bér-ér), n. [lumber¹ + -cr¹.]

1. One who lumbers clumsily about.—2. A swindling tipster. Barrère and Leland. lumberer³ (lum'bér-ér), n. [lumber³ + -er².]

A pawnbroker.

lumbering1 (lum'ber-ing), p. a. 1. Awkward; eumbrous; heavy in action; encumbering. - 21. Rumbling.

lumbering $2 \pmod{\text{her-ing}}$, n. The business of cutting timber in a forest and preparing it for market.

rumperjack (lum'ber-jak), n. One who
works in a logging-eamp. [Eastern U. S.]
lumber-piet (lum'ber-pi), n. Same as lumbard-pie.

[lumber1 +lumbersome (lum'ber-sum). a. -some, l Cumbrous; lumbering.

lumboabdominal (lum bō-ab-dom'i-nal), a. [L. lumbus, loin, + abdomen, abdomen, + -all.] Relating to both the lumbar and the abdominal

lumbodorsal (lum-bō-dòr'sal), a. [L. lumbus, loin, + dorsum, back, + -all.] Relating to both the lumbar and the dorsal regions of the spine.

lumbovertebral (lum-bō-vèr'tē-bral), a. Relating to the lumbar vertebræ.-Lumbovertsbral See $\bigstar index$.

lumbricaria (lum-bri-kā'ri-ii), n. pl. [NL., < L. lumbricas, au earthworm.] In paleon., a name under which are included certain obscure remains from the Jurassic Lithographic slates, which may best be regarded as the exerements of Annelida. They occur as irregularly contorted bands or strings, and are usually of considerable length.

Lumbriconereidæ (lum/bri-kō-nē-rē'i-dē), n. pl. [NL. \(\sum Lumbrieonereis + id. \epsilon \) A family of phanerocephalous Polyehæta, without branchiæ or tentacles and with the cirri reduced or wanting. It includes the genera Lumbricone-rcis, Arabella, Irilonereis, Notoeirrus, Laranda, and Ophryotrocha.

Lumbriconereis (lum/bri-kō-nē/rē-is), n. [NL., \(Lumbrieus + Nereis. \)] The typical genus of the family Lumbriconereidæ: a marine group,

though one species has been found in fresh water in Trinidad. Grube, 1840.

lumbrous (lum'brus), a. [lumber1 + -ous.]

Lumbering. [Rare.]

Six hours after Hommy-beg had set out on his six-mile journey, a lumbrons, jolting sound of heavy wheels came from the road below the Curragh, and soon afterwards the Archdeacon entered the room.

Hall Caine, The Deemster, ii. lumen, n. 3. The unit of flux of light; the flux of light in a beam subtending unit solid angle where the source has an intensity of one hef-ner. See *illumination, 1, and light *flux.—4. The hollow tube of an operating-needle or of

a hypodermic syringe. In all such operations the difficulty is the tendency the paraffin has to solidify in the *lumen* of the needle.

**Lancet, Aug. 29, 1903, p. 611.

Lumen philosophicum, an early name for the flame of a jet of hydrogen gas allowed to burn in the air as the hydrogen is generated by the interaction of zinc and dilute sulphuric acid.

lumen-hour (lû'men-our), n. A compound unit, one lumeu of light flux for one hour. See ±lumen, 3.

Lumière process. See color-*photography.

luminal (lū'mi-nal), a. [L. lumen (lumin-), a light, air-hole, + -all.] Relating to the lumen of any tubular organ or cell.

luminance (lū'mi-nans), n. [luminan(t) + -ce.] Luminousness: as, the luminance of -ce.] Li

luminarious (lū-mi-nā'ri-us), a. Same as lu-

luminative (lū'mi-nā-tiv), a. [luminate + -ire.] Il! iminating; illuminative.
Cat fear is more readily understandable [than mouse

fear], for in the peculiar formation and Iuminative quality of the cat's eye there is, as in the eye of the tiger, a species of fascination.

N. Y. Com. Advertiser, May 7, 1903, p. 7.

luminator (lū'mi-nā-tor), n. [L. luminator (cf. OF. luminier), an official who kept the accounts of expenditure for the lighting of a ehnrch, < L. luminare, lighten: see luminate.]

In St. Andrews University, a student (one in each class) who was privileged to attend the professor's lectures without payment, and to receive certain dues from the other students, in return for services rendered by him. N. E. D.

luminesce (lū-mi-nes'), r. i.; pret. and pp. luminesced, ppr. luminescing. [L. lumin-are, shine, + -esce.] To emit light other than that due to ordinary incandescence. See *luminescence. Smithsonian Rep., 1899, p. 147.

 $\begin{array}{cccc} \textbf{luminescence} & \text{(lii-mi-nes'ens), } n. & \textbf{[lumines-een(t) + -ce.]} & \text{The emission of light from} \end{array}$ een(t) + -ce.] The emission of light from causes other than that which produces incandescence. Radiation is emitted by all bodies at all temperatures; but below a certain temperature, that of the red heat, the wave-lengths emitted do not affect the eye. At that temperature (about 450°C) wave-lengths of

the visible spectrum begin to have sufficient intensity to produce luminous effects. The body is then said to be inconferent. An internal content of the production of the purpose of the competency and the luminous intensity may be a sufficient to the production of the internal tenter and the content of the internal the total radiation being proportional to the fourth power of the temperature, and the luminous intensity may be a sufficient to the content of the internal internal content in the production of the production of their internal content in the production of the internal content in the production of the production of their in the case of the production of the production of their in the content in the production of the production of the production of the internal content in the production of the production escence and lyoluminescence in the case of lithium chlorid; and thermoluminescence and triboluminescence in the case of potassium bromide. The salts had in all cases been previously exposed to the cathode rays. Many substances, when exposed to the cettric discharge within a vacuum-tube, emit light. Such luminescence, which is sometimes spoken of as electroluminescence, which is sometimes spoken of as electroluminescence, is, however, due either to the ultra-violet or visible rays from the discharge (in which case it is to be classed as photoluminescence) or to the action of cathode rays (in which case it is cathodoluminescence). Röntgen rays are also capable of exciting luminescence (X-luminescence) in many substances, such as calcium tangstate, platinocyanide of barium, and Sidot-blende, from which the screens of fluoroscopes are made. The glow of radium, and other radioactive substances, which appears to be independent of excitation from without, is termed autoluminescence. The term chemiluminescence is applied to all cases in which chemical changes accompany the emission of light by a luminescent body. When, for example, sodium chlorid is exposed to cathode rays, unstable subchlorids, giving the surface a brown or blue color, are formed. Heating or friction restores the substance to its original color and composition, and the thermoluminescence or triboluminescence, respectively, which accompanies the reaction is classed as chemiluminescence. Whether all luminescence is of the nature of chemiluminescence has not, as yet, been definitely determined.

luminist (lū'mi-nist), n. [L. lumen (lumin-), light, + -ist.] A painter who affects brilliancy of light in plein-air effects.

His (Compet's) canvases hang more harmoniously on a wall with Rousseau and Diaz than with the high-keyed productions of the luminists, impressionists, and other eccentrics of to-day.

J. C. Van Dyke, Mod. French Masters, p. 200.

lung-sac

lung, n.—Black lung, anthracosis.—Grinders', masons', or 'millers' lung, pneumonoconiosis.—Lung suction mask, a mask-like apparatus, fitting over the mouth and nose, provided with valves by means of which respiration is slightly impeded; this causes a negative air-pressure in the lungs and consequent congestion: used in the application of Bier's hyperemic method to the treatment of pulmonary tuberculosis. Med. Record, Nov. 9, 1907, p. 757.—Miners' lung, anthracosis.

lung-book (lung'buk), n. Same as lung, 2.

lunge¹, n. 3. A long rope used to train a horse; also, the circular track or ring where horses are trained by cantering them around the edge of the ring in one direction with the aid of a lunge.

lungee, n. See loonghee. lunger² (lung'èr), n. One who comes to a climatic resort on account of his lungs; a consumptive. [Slang.] lung-juice (lung'jös), n. Serous fluid ob-

tained from the lung.

lungoti, n. Same as *langoti.

lung-plague (lung'plag), n. Contagious pleuropneumonia or lung-sickness. See pleuropneumonia, 1. It is a highly fatal, epizoötic disease which affects bovine animals only and is characterized by an extensive inflammation of the lungs and pleura. It was eradicated from the United States in 1892.

lung-sac (lung'sak), n. One of the paired respiratory organs of a spider: as, "the lung-sacs on the epigastric region," Proc. Zool. Soc. London, 1903, I. 49.

lung-sick (lung'sik), a. Noting eattle suffering from contagious pleuropneumonia, an extremely contagious and deadly disease of these

animals.

lung-sickness (lung'sik-nes), n. Contagions pleuropneumonia of cattle. See *lung-plague. lunicurrent (lū'ni-kur-ent), a. Changing periodically with the position of the moon.

luniclatry (lū-ni-ol'a-tri), n. [Irreg. ⟨ 1. luna, moon, + Gr. λατρεία, worship.] Moon-worship. Amer. Jour. Psychol., XIII. 314.

lunkah (lung'kä), n. [Hindi lañka, 'islands,' the loeal term for the islands of the Godavery delta. where the tobacco is grown (Fule, Hob-

delta, where the tobacco is grown (Yule, Hob-

son-Jobson).] A kind of strong cheroot. N, E, D

If you can say . . . that some murder has been done by a man who was smoking an Indian lunkah, it obviously narrows your field of search. Doyle, Sign of the Four, i.

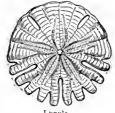
lunker (lung'ker), n. Same as *luncart. lunn (lnn), n. A tea-cake: short for sally-lunn. lunoid (lū'neid), a. [L. luna, meon, + -oid.] Shaped like the new moon; somewhat resembling the new moon; erescentiform.

lunula, n. (g) In enton., a small depression on the frons of a dipterous insect.—Lunulæ Hippocratis, the lunes of Hippocrates.

lunular, a. 2. In conch., pertaining to the

lunule of peleeypods.

lunule, n. (c) One of the perforations formed by
the union of digitate
processes of the test of



Rotula Augusti, with posterior digi-tations and a pair of anterior lunules, (From Lankester's "Zoology.")

NL. Cardium, a

and carries a very large byssal opening. It occurs in the Silurian and Devonian forma-

lunuliform (lū'nū-li-fôrm), a. [L. lunula, lunule, + forma, form.] Having the form of a lunule.

Lunz sandstones. See *sandstone.

lupamaric (lū-pa-mar'ik), a. [lup(ulus) + amaric.] Noting a white crystalline acid contained in lupulin.

lupanar (lū-pā'när), n. lupanar (lū-pā'nār), n. [L., \(lupa, \) a prostitute, a she-wolf, fem. of lupus, a wolf: see wolf.] In Rom. antiq., a brothel.

lupanarian (lū-pa-nā'ri-an), a. [Lupanaris, Lupanar, a brothel: see *lupanar.] Of or pertaining to a brothel; fit for the surroundings of a brothel.

lupanine (lu'pa-nin), n. [L. lup(inus), lupine, + -an + $-ine^2$.] A pale-yellow syrupy alkaloid, $C_{15}H_{24}ON_2$, contained in the seeds of blue lupines, Lupinus angustifolius. It has an extremely bitter taste and exhibits a blue fluorescence.

lnpeol (lñ'pē-ol), n. [L. lup(inus), lupine, + -e- + -ol.] A crystallizable substance, analogous to cholesterol or cholesterin, extracted from the husk of the seed of the yellow lupine, Lupinus luteus.

Inpeose (lū'pē-ōs), n. [L. lup(inus), lupine, + -ose.] An amorphous sugar, C₁₂H₂₂O₁₁, from the seeds of Lupinus luteus. It is not changed by Fehling's solution or by diastase. Dilute acids hydrolyze it togalactose and fructose. Also called B-galactan.

stitute for piperazin. Also called dipropylene-diamine and dimethyl-diethylene-diamine.

lupiform (lū'pi-fôrm), a. [l. lupus, lupus, + forma, form.] Resembling lupus.

lupigenin (lū-pij'e-nin), n. [lupi(nin) + -gen + -in².] A yellow crystalline compound, C₁₇H₁₂O₆, formed by the action of dilute mineral acids on the glucoside lupinin.

lupine², n.—False lupine, any plant of the leguminous genus Thermopsis: the bush-pea. The plants of this genus are perennial herbs, unlike lupines in having but three leaflets to the leaf. The prairie false lupine, T. rhombifolia (known in Montana as yellow pea), is often

so abundant as to give a yellow hue to large areas during its flowering time. It is suspected of being poisonous to stock. See *bush-pea.

lupinidine (lū-pin'i-din), n. [lupine + -id + -inc².] A viseid, oily, intensely bitter alkaloid, $C_8H_{15}N$, contained in the yellow lupine. It has an odor of hemlock.

lupinosis (lū-pi-nō'sis), n. [lupine 2 + -osis.] luster2, n. A disease of eattle, supposed to be caused by poisoning with one of the lupines, usually the white lupine. It is probable that the symptoms (fever, weakness, and distention of the abdomen) are due to the poisouous action of a fungus on the plants, rather than to any

principle in the lupine itself.

lupoid (lū'poid), a. [lupus¹ + -oid.] Resembling lupus.

The sphere of x-ray treatment should be limited to the treatment of lupoid growths.

Med. Record, Feb. 7, 1903, p. 234.

 $\begin{array}{l} \textbf{lupoma} \ (\text{ln-po'mii}), n.; \ \text{pl. } lupomatu \ (\text{-ma-ta}). \\ [lup-us + -oma.] \end{array}$ The initial lesion of lupus vulgaris, consisting of a discolored elevation above the surface,

lupuus, a. 2. Relating to lupus. lupulic (lū-pū'lik), a. [Lupul-us + -ic.] Same as lupulinic.

as upname. Lupulinie aeld, a bitter crystalline compound, $C_{25}II_{36}O_4$, contained in the bitter principle of hops. lupus I_1 , κ . 3. (c) Lupus excdeus, a form of lupus in which there is ulceration of the affected the union of digitate processes of the test of certain thin forms of echinoids, as Rotult Augusti.

Lunulicardium (liñ "nū-li-kär 'di-likar' di-likar' di-li

um), n. [NL., < L. | lureful (lūr'fūl), a. lunula, lunula, + allnring. Full of entieement;

lurefully (lūr'fhl-i), adr. In an alluring way. genus of shells.] A luresome (lūr'sum), a. [lureI + -some.] En-

genus of extinct tieing; alluring.

prionodesmaeeous lurk, n. 2. The act of lurking or prowling.

On the lurk, on a swindling or fraudulent prowl.

[Siang.]

pelecypods with triangular shells in which the anterior surface is flattened surface is flattened surface is flattened by seed opening. It

F. Lusace, G. Lausitz.] I. a. Of or pertaining to Lusatia (G. Lausitz), a district, or two districts (Upper and Lower Lausitz), in Germany, belonging in part to Prussia and in part to

Saxony.

II. n. 1. An inhabitant of Lusatia. native language of Lusatia. Same as Sorbian, 2. lush-crib (lush'krib), n. [lush³ + crib.] A low public-house or bar-room. [Slang.]

lush-ken (lush'ken), n. Same as *lush-crib. lushy, n. 2. Luxuriant; tender; soft. Also lustrative (lus'tra-tiv), a. [lustrateI + -ive.] Pertaining to purification by lustration; perlushy, a. 2. Lux used figuratively.

used figuratively.

lusingando (lö-sin-gän'dŏ), a. [It., ppr. of lusingare, flatter, wheedle, < lusinga, flattery, = OF. loseuge, flattery; see lozenge.] Flattering; coaxing; in music, noting passages to be used or coaxing style.

lustrify (lus'tri-fi), v. t.; pret. and pp. lustrified, ppr. lustrifying. [luster² + -i-fy.] To give luster to: as, to lustrify the complexion.

Lusitano-American (lū-si-tā'nō-a-mer'i-kan), a. and u. I. a. Of mixed Portuguese and American Indian descent, as the Portuguese-Lute-music. N. E. D.

Lusitano-American (lū-si-tā'nō-a-mer'i-kan), composed of mud.

lutany (lū'ta-ni), n. [ML. lutana, lnte, +-y³.]

Lute-music. N. E. D.

speaking people of Brazil.

II. n. A person of mixed Portuguese and American Indian descent; a Brazilian.

The present inhabitants of Central and South America, the immense majority of whom are confessedly mixed peoples—Lusitano-Americans with a considerable strain of Negro blood in Brazil.

Keane, Ethnology, p. 151.

lusong (lö-song'), n. [Also losong. Tagalog and Bisaya losong.] A wooden mortar for pounding or husking rice. [Philippine Is.]

The grain is separated from the straw by thrashing, or by use of wind whenever possible, and is finally separated from the husk by pounding two or three times in a wooden mortar, called a 'through or by making use of a sort of hand-mill, called 'guilingan.'

Gaz, Philippine Is., 1902, p. 71.

lussatite (lö-sä'tīt), n. [F. lussatite (1890), < Lussat, Puy-de-Dome, France, + -ite².] A peculiar form of quartz which resembles chalcedony but differs from it in optical character: it has been referred to tridymite.

The lookers now at me, poore wretch, be mocking, With mowes and nodds they stand about me flocking: Let God help him, say they, whom He did trust; Let God sane him in whom was all his linst.

Sir P. Sidney, Psalmes of David, xxii. 5.

7. A material applied to the surface of something in order to produce a lustrous of something in order to produce a Justrous appearance.—Brianchon luster, in ceram., a nacreous luster formed of salts of bismuth mixed with resin and oil of lavender, colored with metallic oxids: patented by J. J. H. Brianchon, a French potter, in 1857. A similar luster is used on Belleck ware.—Copper luster, in ceram., a coating of copper applied to a red pottery body.—Gold luster. (a) See gold. (b) In ceram., a metallic glaze containing gold applied to pottery or porcelain.—Marbled luster, a pink-and-white mottled luster often seen on old Sunderland (Eng-



Marbled Luster. Candlestick, Sunderland, about 800. In the Pennsylvania Mu-seum, Philadelphia.

mottfed fuster often seen on old Sunderland (English) earthenware. The ground is a clouded instrous pink, and the white spots are surrounded by heavy outlines of metallic luster.—Mexican luster, an iridescent, lustrous glaze, usually of a green color, found on some of the pottery of the native tribes of Mexico.—Pearl luster, in ceram., an iridescent luster imparted to the glaze by applying salts of bismuth colored with metallic oxids and firing in the enamel-kiln, as seen in Belleek china and some of the so-called majolica ware made at Phoenix-ville, Pennsylvania. See Brianchon *Luster, under luster?.—Pink luster, in ceram., a thin wash of gold, of a pink color, on old Engorcelain. Also called rose mottled luster often seen on old Sunderland (Eng-

ceram., a thin wash of gold, of a pink color, on old English cream-colored ware and porcelain. Also called rose luster, Sanderland luster, and purple luster.—Purple luster, a metallic glaze of a purplish color, darker than gold luster, on English pottery.—Rose luster. Same as pink *luster.—Spotted luster. Same as marbled *luster.—Steel luster. Same as platinum luster (which see, under luster?).—Sunderland luster. See marbled *luster.

luster-mottlings (lus'ter-mot"lings), n. pl. The mottling of the eleavage-surface of a mineral produced by numerous inclusions of other minerals: compare pacilitic.

lust-house (lust'hous), n. [G. lusthaus.] 1. A pleasure-house; a country-house; a summerhouse in a garden.—2. A tavern with a beergarden. N. E. D.

lustracellulose (lus-tra-sel'ū-lōs), n. [lustr-(ous) + cellulose.] A peculiar derivative of

lusingato (lö-sin-gä'tō), a. [It., pp.: see *lu- lutaceous (lū-tā'shius), a. [NL. *lutaceus, < singando.] Same as *lusingando. L. lutum, mud: see lutc².] Pertaining to or Lusitano-American (lū-si-tā'nō-a-mer'i-kan), composed of mud.

[Minstrels] without end Reel your shrill lutany. F. Thompson, New Poems, p. 41. F. Thompson, New Poems, p. 41.

lute², n.— Linseed-meal lute, linseed-meal nade into a paste with water, milk, glue, or line-water.— Lute d'ane, a mixture of recently slaked lime with strong glue and a subsequent addition of white of egg.—Willis's lute, a paste made with slaked lime and a solution of two ounces of borax in one pint of water. This paste is applied to earthenware with a brush, and, when dry, is covered with a pasty mixture of slaked lime and linseed-oil.

"The original of the strong of myd. It is not the property of the

Fehling's solution or by diastase. Dilute acids hydrolyze it to galactose and fructose. Also called \$B\$-galactose and processes and the solution of the soluti characters. Also called quartzinc.

lutecite (lū'tē-sīt), n. Same as *lutecine. lutecium (lö-tē'sium), n. [L. Lutetia, Roman name of Paris.] See the extract.

name of Paris.] See the extract.

A New Element, Lulecium.—By means of a long series of fractional recrystallizations of the nitrate of Marignae's ytterbirm, using nitric acid of density 13 as a solvent, G. Urbain has succeeded in separating the material into two distinct substances, one of which gives a characteristic spark spectrum. This new element he calls lutecium, Lu, from an ancient name for Paris, and he finds that its atomic weight is not much greater than 174. The other element present be calls neo-ytterbium, Ny, in order that it may not be confused with Marignae's ytterbium. Its atomic weight cannot differ much from 170. Two spec-

trum bands obtained by Lecoq de Boisbaudran's method are probably characteristic of neo-ytterbium, while a third band appears to belong to lutecium.

Am. Jour. Sci., Feb., 1908, p. 146.

Lecond Bacehus.

lycaconitin (li-ka-kon'i-tin), n. [(g)lyc(erol)(?)]

Noting an acid, a yellow compound, $C_{20}H_{20}$. Noting an acid, a yellow compound, $C_{20}H_{20}$. $O_{12}(?)$, resembling luteoleine, contained in the flowers of Euphorbia cyparissias. It crystallizes in slender needles, sublimes at 220° C., and melts at 273-274° C.

lutein (lū'tē-in), n. [(corpus) lute (um) (see def.) +-in².] A yellow pigment contained in the yolk of eggs, in the tissue of the corpus luteum, in blood-serum, etc. It forms orange crystals. luten (lu'ten), n. Same as *lutein.

luteocobaltic (lū"tē-ō-kō-bâl'tik), a. In chem.

luteofilin (lū-tē-of'i-lin), n. [L. luteus, of mud, + filum, thread, + in².] A compound said to occur in monocotyledons and in Lobeliaceæ.

Lutetian, a. II. n. In geol., the Middle Eocene Tertiary of the Paris basin, which takes its name from Lutetia, the Roman name of Paris. This stage is regarded as the probable service of the Lower Boschot and Broadle. equivalent of the Lewer Bagshot and Bracklesham beds of England.

Luth. An abbreviation of Lutheran.

Same as Lutheranic (lū - thèr - an 'ik), a. Lutheran.

Lutheranize (lū'thèr-an-īz), v.; pret. and pp. Lutheranized, ppr. Lutheranizing. I. trans. To render Lutheran in character; convert to Lutheranism.

To become Lutheran; faver II. intrans.

Lutheranism.

Lutianidæ (lū-ti-an'i-dē), n. pl. [NL., < Lu-tianus +-idæ.] A family of fishes related to the perceids and commonly known as snap-

Lutianidæ.

lutidine (lū'ti-din), n. [L. lutum, mud, + -id¹+-ine².] The collective name of the various isomeric dimethylpyridines, (CH₃)₂C₅H₃N. They are present in coal-tar oil and in animalbone-oil, and resemble pyridine in general properties.

utite (lū'tīt), n. [L. lutum, mud, + -ite².] In petrog., a term introduced by Grabau (1904) lutite (lū'tīt), n. for an indurated rock of any composition or origin.

lutjang (lö'chang), n. [A D. spelling of Malay luchang in ikan lūtjang (luchang), appar. lit.
'bell-fish.'] A Malayan name (ikan lutjang) of the fish Lutianus lutianus.

Muddiness; turbidity.

luv, v. and n. An amended spelling of love.

luvar (lö-vär'), n. Same as *luvaro.

luvaro (lö-vär'ō), n. [Sp.] A pelagic scombroid fish, Luvarus imperialis. See Luvarus.

luvly, a. and adv. An amended spelling of lovely.

lux3, n. 2. The unit of illumination; the illumination received by a surface at a distance of one meter from a light-source the intensity of which is one hefner. See *illumination, 1.

luxograph (luk'sō-graf), n. [A trade-name; irreg. \langle L. lux, light, + Gr. $\gamma p \dot{a} \phi \epsilon \nu \nu$, write.] In photog., a large lantern-like device with a sea nsnes found in North Pacific waters, which includes one genus and four known species.

If a. Having the characters of or belonging to the family Lycosidæ.

Lycodapus (lī-kod'a-pus), n. [NL., \ Lycodasus (lī-kot'rō-pus), a. Same as lycot-population of more nitrogenous food-material than is necessary to sea nsnes found in North Pacific waters, which includes one genus and four known species.

Lycodapus (lī-kod'a-pus), n. [NL., \ Lycodasus (lī-kot'rō-pus), a. Same as lycot-fishes of the family Lycosidæ.

Lycotapus (lī-ker'gan), a. [Lycurg-us + -an.]

North Pacific.

in physiol., the consumption of more nitrogenous food-material than is necessary to maintain nitrogenous equilibrium, that is, to maintain nitrogenous equilibrium, that is, to of the family Murænidæ, found in shallow of the family Murænidæ, found in shallow about rocks and reefs: properly called luxus (luk'sus), n. [L. luxus, excess: see lux2.] such an event the term 'luxus consumption' is nsed.

luzonite, n. This supposed independent species has been shown to be only a variety of energite.

A contraction (a) of leave; (b) of livres. The Roman numeral for 'seventy'; hence, the 'Seventy' (L. Septuaginta) who, according to tradition, translated the Hebrew Scriptures into Greek; also the translation-the Septuagint itself. See Septuagint.

Lyæan (lī-ē'an), n. See ★Lyæus.

Lyæus (lī-ē'us), n. [L., & Gr. Avaios, appar.

ζ λύειν, release.] The an epithet of Bacchus. The looser or deliverer:

+ aconite + -in².] An amorphous alkaloid of undetermined composition, obtained from the tuberous roots of Aconitum lycoctonum and A. sententrionale.

lycænid (lī-sē'nid), n. and a. I. n. A member of the dipterous family Lyewnidæ.

II. a. Having the characters of er belonging to the family Lyewnide.

lyceal (li-se'al), a. [lyce-um + -al1.] Pertaining to a lyceum, in any sense.

Marro tabulated the conduct of 3012 boys in gymnaaial and *lyceal* classes in Italy from 11 to 18 years of age.

* G. S. Hall, Adolescence, I. 345.

containing a cobalt-hexammine constituent: Lycenchelys (lī-seng'kē-lis), n. [NL., ⟨Gr. as. a luteocobaltie salt.

Lycenchelys (lī-seng'kē-lis), n. [NL., ⟨Gr. lycopin (lī'kē-pin), n. [Lycop-us + -in².] A genus of fishes of the family Zoarcidæ, found in deep water on both coasts of North America.

Lycenchelys (lī-seng'kē-lis), n. [NL., ⟨Gr. lycopin (lī'kē-pin), n. [Lycop-us + -in².] A genus of fishes of the family Zoarcidæ, found in deep water on both coasts of North America.

Lycenchelys (lī-seng'kē-lis), n. [NL., ⟨Gr. lycopin (lī'kē-pin), n. [Lycop-us + -in².] A genus of fishes of the family Zoarcidæ, found in deep water on both coasts of North America.

Lycengraulis (lī-seng-grâ'lis), n. [NL., < Gr. Auroc, wolf, + NL. Engraulis.] A genus of fishes of the family Engraulididæ, found on both coasts of tropical America.

lycetol ($l\bar{i}'s\bar{e}$ -tol), n. [(g)lyc(crol) + -et- + -ol.]The trade-name for dimethylpiperazin tartrate,

NH\(\text{CH2.CH(CH3}\)\)NH.H2C4H4O6, which is prepared from glycerol. It is a white odorless powder and is used in medicine to effect the elimination of uric acid, with which it forms a readily soluble compound.

yceum, n.—United States Naval Lyceum, an association organized in 1833, at the Brooklyn navy-yard, by naval and marine officers. lyceum, n.

lychnisk (lik'nisk), n. [Gr. λυχνίσκος, applied to a kind of fish, dim. of λύχνος, a lamp.] One of the swollen nodes formed at the junction of the rays in the skeletal structure of the dictyonine hexactinellid sponges, especially when these nodes are hollow and inclose an octahedral space.

ly-chow (li'chou), n. [Origin not ascertained.] Roasted potato starch, similar to crommelin and leio gum, used as a thickener in calicoprinting. Georgievics (trans.), Chem. Technol. of Textile Fibres, p. 251.

Lycian² (lis'i-an), α. [Gr. λύκειος, of a wolf, λύκος, wolf. Also taken as Lycian¹.] Wel slaying: an epithet applied to Apolle.

lycine (li'sin), n. $[(g)lyc(erol) + -ine^2$.] A colorless compound, HON(CH₃)₃CH₂COOH, or, in the anhydrous form, $(CH_3)_3N < {0 \atop CH_2} > CO$,

contained in sugar-beet juice, cetten-seeds, and other vegetable products, and in urine. It forms large crystals which become anhydrous at 100° C. and attract moisture from the air, and is of considerable importance in plant

Intrin (lū'trin), n. [F.: see leetern.] Same as lectern.

lutulence (lū' tū-lens), n. [lutulent + -ec.]

Muddiness; turbidity.

luvar (lö-vär'), n. Same as *luvaro.

luvaro (lö-vär'ō), n. [Sp.] A pelagic scombroid fish, Luvarus imperiatis. See Luvarus.

luvly, a. and adv. An amended spelling of love.

luvly, a. and adv. An amended spelling of love.

luvaro (lō-vār'ō), n. [Sp.] A pelagic scombroid fish, Luvarus imperiatis. See Luvarus.

luvly, a. and adv. An amended spelling of love. is possibly a mixture, and not a chemical individual.

Lycodalepis (lī-kṣ̄-dal'ē-pis), n. [NL., < Ly-codes + Gr. ἀλεπις, without scales.] A genus of fishes of the family Zoarcidæ, found in the

Gymnothorax.



fishes, found in the deep sea off the New England coast. Lycodopsis (lī-kō-dop'sis), n. [NL., \langle Ly-

of fishes of the family Zoarcidæ, found on the Pacific coast of the United States.

Lyconectes (lī-kō-nek'tēz), n. [NL., ⟨ Gr. λικος, wolf, + νήκτης, swimmer.] A genus of fishes of the family Cryptacanthodidæ, found in rather deep water on the Alaska coast.

Lyconema (lī-kō-nē'mä), n. [NL., < Gr. λύκος, welf (see Lycodes), + νημα, thread.] A genus of zoarcoid fishes, found in rather deep water on the coast of Alaska.

Lycoperdales (lī'kṣ̄-per-dā'lēz), n. pl. [NL., ∠ Lycoperdon + -ales.] An order of gastero-mycetous fungi, including the single family Lycoperdaceæ. See Lycoperdaceæ.

lycoperdoid (lī-kō-per'doid), a. [Lycoperdon + -oid.] Resembling the fungus Lycoperdon.

bugleweed, Lycopus. It has styptic, and sedative properties.

Lycopodiales (li-kē-pō-di-ā'lēz), n. pl. [NL. (Engler, 1892), < Lycopodium + -ales.] An erder of vascular cryptogamic plants of the erder of vascular cryptogamic plants of the phylum Pteridophyta, coördinate with the Filicales and Equisetales. It is divided into two groups, according to the presence or absence of the ligule in the leaves. It contains four families of living and two of fossil or extinct plants. The Lycopodiaces and Psilotaces are destitute of the ligule (Lycopodiales eligulate of Engler). The Selaginellaces and Isoètaces are ligulate (Lycopodiales ligulates and Isoètaces are ligulate (Lycopodiales ligulates and Sigillariaces, are placed by Engler in the ligulate group.

lycopodine (li-kop'ō-din), n. [Lycopod-ium + -ine².] A colorless bitter alkaloid, C₃₂H₅₂O₃N₂, contained in club-moss, Lycopodium complanatum. It crystallizes in long, monoclinic prisms and melts at 114-115° C.

Lycopodium, n. 2. [l.c.] A fine powder consisting of the spores of Lycopodium clavatum and other species, used in pharmacy as a dusting-powder on the skin and on exceriated

a dusting-powder on the skin and on excoriated surfaces, and in other ways. On the application of a flame, it hurns with a flash, and does not become wet ln contact with water. It is used in physical experiments, especially with sound.

Property of the state of the s excessive hunger.

lycorine (lik'ō-rin), n. [Lycoris + -ine².]
A colorless crystalline alkaloid, C₃₂H₃₂O₈N₂,
contained in Lycoris radiata (Nerine japonica), melting at 250° C. It affects the central nervons system.

Lycoris (li-kō'ris), n. [NL. (Herbert, 1821), \(\langle \) Lycoris, a Roman actress celebrated in Vergil.] A small genus of bulbous plants of Japan and China, of the family Amaryllidacere distinguished from Hippeastrum by its turgid distinguished from Hippedstrum by its turgio seeds, few in a compartment. Four species are known ingardens, naually as greenhouse subjects, but in mild climates as border plants. The flowers are lift-like, red, lilac, or orange, in umbels on long scapes, appearing without the leaves. In the United States they bloom in summer or autumn. L. sanguinea, L. radiata, L. aurea, and L. squamigera are grown, the last being sometimes known to florists as Amaryllis Hallii.

Lycosaurus (li-kō-sā'rus), n. [NL., < Gr. ½ίκος, wolf, + σαΐρος, lizard.] A genus of fossil theromorphous reptiles belonging to the family

morphous reptiles belonging to the family Galeosauridæ. Only the skull is known, and this shows, like that of other reptilian genera from the Karoo formation in South Africa, a remarkable similarity to the carnivorous mammals. In this genus the molariform teeth are all in single cones, though more or less compressed and with finely serrated edges.

lycosid (li-kos'id), n. and a. I. n. A member of the araneid family Lycosidæ.

the Spartan lawgiver, or to his laws, which are proverbial for their severity.

lyddite (lid'it), n. [So called from Lydd, in Kent, England.] An explosive, consisting of pieric acid melted and cast into a shell. It is

Gymnothorax.

Lycodonus (lī-kod'ō-nus), n. [NL., < Lycodes + Gr. ōvos, a kind of fish.] A genus of zoarcoid lydine (lī'din), n. A violet compound, prepared by the action of potassium ferricyanide on aniline hydrochlorid. Also called mauvein. lydite (lid'ît), n. [L. Lydia, \langle Gr. Avôia, an ancient country of Asia Minor, + -ite².] In petrog., Lydian stone, a black or dark-colored compact, hard rock composed of minute grains of quartz with carbonaceous matter. It was used by the ancients as a touchstone for testing gold. eodes + Gr. δψις, view, appearance.] A genus

with soluble solid matter by contact with a mixture of solid substances, partly soluble, lymph, n. 3. Any antitoxic serum, as vacpartly insoluble.—Concentrated lye, the tradename in the United States for caustic soda, sold for scouring.—Solid lye, a trade-name for a very impure caustic soda (two-thirds common salt), sold for domestic use in scouring, etc.

lye-boil (lî'boil), n. The boiling of cotten cleth in a dilnte solution of soda-ash, preparatory to bleaching.

Lyellian (li-el'i-an), a. Of er pertaining to Sir Charles Lyell (1797-1875) er to his geo-logical theories and investigations.

The old Luellian theory of the marine origin of the boulder clay thus finds confirmation. Geog. Jour. (R. G. S.), XV. 173.

Lyellism (lī-el'izm), n. [Sir Charles Lyell, a distinguished geologist, + -ism.] In geol., uniformitarianism (which see) or the general dectrine, advecated by Lyell, that the events of the past are to be explained by the pre-lymphagogue (lim'fa-gog), n. [L. lympha, cesses of the present, and that the course of water (lymph), + Gr. $a_1 \omega_1 \delta_2$, leading.] A nature has been essentially uniform.

Indeed, Lyellism, with its essential doctrine of the alternate elevation and subsidence of the land under the agency of local causes, seemed inconsistent with the existence of any general cause governing the geographical evolution of the globe as a whole.

Geog. Jour. (R. G. S.), XIII. 226.

II. a. Having the characters of or belonging to the family Lygwidw.

Lygeum (lī-jē'um), n. [NL. (Linnæus, 1753, adopted from Löfling), ζ Gr. λυγόειν, bend, tie fast.] A genus of grasses, eentaining but one species, L. Spartum, found on steny soils in the Mediterranean region, particularly in Spain and Algeria. It is often called esparto because of confusion with the true esparto, Stipa tenacissima, but its proper name is albardin. Its tough, slender leaves are used in making baskets and fer other coarse textile purposes. See *albardin.

Lygodesmia (lī-gē-des'mi-ā), n. [NL. (Don, 1829), ζ Gr. λίγος, withe, + δέσμη, bundle; in allusion to the fastigiate, naked stems of the type species, L. juneea.] A genus of plants of the family Cichoriaceæ, perennial or annual herbs with usually rush-like stems, inconspicuous linear or scale-like leaves, and mostly terminal, narrow, erect heads of pink flowers.
There are about six species, all North American. The best-known is L. juneea (often ealled skeleton-weed and germ-weed), a native of the Great Plains, which new occurs as a weed in the cultivated fields of that region.

lygosinate (li'gō-sin-āt), n. [lygosin + -atel.] The trade-name for an antiseptic compound of lygosin.

lygosin (lī'gō-sin), n. The trade-name of diorthocumaketone.

lying-time (lī'ing-tīm), n. Same as *lie-time. lying-wall (li'ing-wal), n. Same as foot-wall. lymph-gland (limf'gland), n. Same as lymlymantriid (lī-man'tri-id), n. and a. I. n. An insect of the lepidopterous family Lymantriidæ.

II. a. Having the characteristics of, or be-lymph-node (limf'nod), n. One of numerous longing to, the Lymantriidæ.

Lymantriidæ (lī-man-trī'i-dē), n. pl. [NL., Lymantria + -idæ.] A family of lepidopter-ous insects founded on the type genus Lymantria and its allies.

lyme-grass, n. 2. In entom., a British celectors' name for a noctuid moth, Tapinostola lectors' name for a noctind moth, Iapinostoia clymi.— Great lyme-grass, Elymus robustus, a coarse species of the interior, without special value.— Sea lyme-grass, a stout species, Elymus arenarius, found northward on the shores of Europe and on both coast of North America. It is nseful as a sand-hinder, especially in conjunction with beach-grass (maram), making fast the sand which the latter arrests. Its seeds yielded food to the Indians of Northwestern America, and, springing up about deserted lodges, it has been called by the settlers rancheria grass. Also upright, or upright sea, lyme-grass. The soft sea lyme-grass is E. innovatus, a similar species, downy helow the spike, found along the Great Lakes and northward on both American coasts.

lymeavylonid (i.meck.si-len'id), n, and d. I. n.

lymexylonid (lī-mek-si-len'id), n. and a. I. n. A member of the coleopterons family Lymexy-

Having the characters of or belong- Π . a. ing to the family Lymexylonidæ. S.-48

lymphatic.

ymph, n. 3. Any altitexic scrum, as vac-eine virus.—Glycerinated lymph. See *glycerinated lymph.—Kech's lymph, same as *glycerinated lymph.—Kech's lymph, essentially a solution for the metabolic products of the tubercle bacillus grown for from 4 to 6 weeks in nutrient bouillon containing 5-6 per cent. of glycerin. The bacilli are removed by filtration through porcelain filters. Inoculation with this fluid constitutes an attempt at active immunization. The material is extensively utilized in the diagnosis of tuber-culosis, and is of great value in the recognition of the disease in cattle. Same as tubergulin 1.—Plastic. culosis, and is of great value in the recognition of the disease in cattle. Same as tuberculin, 1.—Plastic lymph, lymph, exuded during inflammation, which shows a tendency to become organized.

lymphadenia (lim-fa-dē'ni-ii), n. [NL., \ L. lympha, water (lymph), + Gr. ἀάψ, gland.] Enlargement of the lymphatic glands in general: a symptom of Hodgkin's disease.

lymphadenosis (lim-fad-e-no'sis), n. ⟨ L. lympha, water (lymph).] Same as ★lymphadenia.

therapeutic agent which promotes the formatien of lymph.

It seems highly probable that the reparative lymph exudation which follows exercise is produced by the agency of chemical substances generated by muscular contraction, just as the digestive lymph flow is caused by exogenous lymphagogues. Creatin and lactate of ammonium produce the double curve of arterial pressure induced by exercise and rest.

Nature, May 26, 1904, p. 92.

lymphangiomatous (lim-fan-ji-om'a-tus), a. lymphangioma(t-) + -ous.] Relating to or er of the nature of lymphoeytes.

lymphangiotomy (lim-fan-ji-et'ō-mi), n. [L. lympha, water (lymph), + Gr. ἀγγεῖον, vessel, + rομὸ, section.] Dissection of the lymphatic vessels.

lymphatic¹, a.—Waring. See *throat-ring. a. - Waldeyer's lymphatic throat-

lymphatism (lim'fa-tizm), n. [lymphat-ie + -ism.] 1. A depressed physical condition, marked by lew vitality, associated with the lymphatic temperament. Buck, Med. Handbook, VII. 446.—2. Serefula.

lymphatolysin (lim-fa-tol'i-sin). n. [lymphatic + lysin.] A cytotexin directed against lymphatic tissue.

lymphatolytic (lim-fa-tō-lit'ik), a. [lymphatolysin (-lyt-) + -ic.] Relating to the action of a lymphatelysin.

lymphedema (lim-fē-dē'mā), n. [L. lympha, water (lymph), + Gr. oldiqua, swelling. | A dropsical condition of the tissues due to obstruction to the flow of lymph.

lymph-gill (limf'gil), n. In certain worms, as the Capitellidæ and the Glyceridæ, one of the parapodial respiratory processes containing continuations of the body-cavity, and carrying hemolymph: in starfishes, the dermal branchia or papulæ.

phatic gland.—Marrow-lymph glands, a form of hemolymph glands found in the retroperitoneal adipose tissue near the brim of the pelvis and in relation with the great vessels.

roundish, somewhat resistant bodies found along the course of the lymphatic vessels and composed of a mass of round cells in a delicate fibrous network.

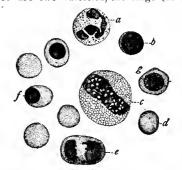
lymphoblast (\lim' fē - blast), n. [L. lympha, water (lymph), + Gr. $\beta\lambda a\sigma\tau\delta\varsigma$, germ.] A leucocyte of lymph-gland origin, which leueocyte of lymph-gland origin, which possesses feeble phagocytic properties: distinguished from the *myeloblast.

lymphoblastic (lim-fō-blas'fik), a. [lympho-blast + -ic.] Relating to a lymphoblast; giving origin to lymphocytes. Jour. Med. Research, Dec. 1907, p. 261.

lymphocele (lim'fē-sēl), n. [L. lympha, water (lymph), + Gr. κή/η, tumer.] A cystic tumer centaining lymph.

lymphocyte (lim fō-sīt), n. [L. lympha, water (lymph), + κίτος, a hollow (a cell).] A type of leucocyto found in the blood of all vertebrate animals. It is colored blue or purple with Ehrlieh's triple stain, and occurs, in man, normally in the proportion of about 30 per cent.

lye3, n. 2. In a general sense, water charged lymf, lymfatic. Amended spellings of lymph, of the entire number of white blood-cells. There are two varieties, the large (11 to 14



Lymphocyte.

Cover-glass preparation from the bone-marrow of a dog, highly magnified (from preparation of H. F. Müller). a, mast-cell; b, lymphocyte; c, eosinophil cell; d, red blood-cell; b, erythroblast. (From Huber's trans. of Böhm-Davidoff, "Histology.")

microns in diameter), and the small (7.5 microns in diameter), the latter being the more numerous.

Abscess of some variety was suspected, but later a differential count of the white blood cells showed the lymphocytes in a proportion of 93 per cent; the second case was that of a young woman who had been delivered of a child a short time before, in whom the lencoytes ranged between 260,000 and 400,000, the lymphocytes were later found to be in a proportion of 98 per cent.

Med. Record, May 30, 1903, p. 810.

lymphocythemia ($\lim f_{\bar{0}} - s_{\bar{1}} - th_{\bar{e}} m_{\bar{1}} - g_{\bar{0}}$), n. [NL., ζ L. lympha, water (lymph), + Gr. κύτος, a hollow (a cell), + αίμα, blood.] Same as *lymphocytosis.

[lymphangioma(t-) + -ous.] Relating to or of the nature of lymphocytes. affected with lymphangioma. Buek, Med. Handbook, I. 227.

[lymphangiotomy (lim-fan-ji-et'ō-mi), n. [L. lympha, water (lymph), + Gr. άγρεῖον, vessel, lymph-cells; specifically, increase, actual or relative, in the number of lymphocytes in the

There may be an increase in the proportions present in the blood of lymphocytes (lymphocytosis).

Eucyc. Brit., XXXI. 558.

lymphocytotic (lim'fē-sī-tet'ik), a. Relating to lymphocytesis, or the formation of lymphcells

lymphocytotoxin (lim-fō-sī-tō-tok'sin), n. [lymphocyte + toxin.] A cytetoxin directed against lymphocytes.

lymphædema, n. [NL.] Same as *lymph-

lymphogenic (lim-fō-jen'ik), a. [L. lympha, water (lymph), + Gr. -γενης, -producing.] Producing lymph or lymphocytes.

lymphogenous (lim-fej'e-nus), a. Same as lymphogenic.

lymphogonion (lim-fō-gō'ni-en), n.; pl. lymphogonia (-ā). [L. lympha, water (lymph), + Gr. γόνος, generation.] A more or less hyperthetical ancestral cell of the lymphoeytes. Lymphoid tuberculosis. See *tuberculosis.

lymphopenia (lim-fō-pē'ni-ä), n. [L. lympha, water (lymph), + Gr. πενία, poverty.] A diminution in the number of the lymphocytes of the blood.

lymphorrhagia (lim -fō -rā' ji -ä), n. [L. lymphu, water (lymph), + Gr. -ραγία, ζρηγνίται, break.] Discharge of lymph from a wounded lymphatic vessel.

lymphorrhea, lymphorrhea (lim-fō-rō'ā), n. [L. lympha, water (lymph), + Gr. poia, flow.] Same as ★lymphorrhagia.

lymphostasis (lim-fes'ta-sis), n. [L. lympha, water (lymph), + Gr. στόσις, standing.] Arrest of the flow of lymph. lymphous (lim'fus), a. [lymph + -ous.] Con-

ymphous (lim'fus), a. [lymph + -ous.] Containing lymph; of or relating to lymph.

lymph-scrotum (limf'skrö"tum), n. Elephantiasis of the scretum.

lymphuria (lim-fū'ri-ä), n. [L. lympha, water (lymph), + Gr. ovpov, nrine.] The presence of lymph in the urine when voided.

lymph-vascular (limf'vas#kū-lär), a. Relating to or containing lymphatic vessels.

Lynceidæ (lin-sē'i-dē), n. pl. [NL., < Lynceus -idæ.] A family of cladecerous phyllopod crustaceans, having 3-jointed antennal branches and a convoluted intestine. It includes the genera Lynceus and Eur recreus.

Lynceus, n. 2. The typical genus of the family Lynceidæ. Müller, 1785.

lynch-court (linch'kort), n. A so-called 'court' hastily but illegally organized by an enraged mob for the trial and summary punishment, according to lynch-law, of some obnoxious person.

[lynch2, v., + -er1.] lyncher (lin'elièr). n. One who lynches or takes part in a lynching. lynching (lin'ching), n. [lynch², v., + -ing¹.] The act of executing lynch-law upon a person; the killing of a person by a mob under pretense of summary justice.

Lynton group. See *group1.

lynx, n.—Isabelline or Tibet lynx, Lynx isabellina, the Tibet wildcat, of a pale-yellowish color.—Pardine lynx, Felis (Lynx) pardina, of southern Europe. It is rufous above, white below, with black spots on the body, limbs,

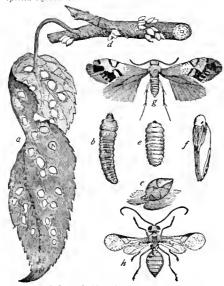
and tall.

lyoluminescence (li ō-lū-mi-nes'ens), n.

[lrreg. (tr. zew., dissolve, + E. luminescence.]

The emission of light by certain substances when in process of solution. See *luminescence.

Lyonetia, n.—Apple lyonetia, a tineoid moth of the family Elachistidæ, Coptodisca splendoriferella (formerly known as Lyonetia saccatella), whose larva lives on apple-leaves, forming a sac-like case which it carries about with it. Also formerly referred to as Aspidisca splendoriferella.



Apple Lyonetia (Coptodisca splendoriferella). a, work on apple leaf; b, summer larva; c, larva in case traveling; d, cases tied to twig for hibernation; e, hibernating larva; f, chrysalis; g, moth; h, parasite; all much enlarged except a nad d, which are slightly reduced. (Coinstock, U. S. D. A.)

lyonetiid (li-ō-net'i-id), n. and a. member of the lepidopterons family Lyonetiidæ.

II. a. Having the characters of or belonging

to the family Lyonetiidæ.

Lyonsia (lī-on'si-ā), n. [NL., (Turton, 1822).]

The typical genus of the family Lyonsiidæ.

Lyonsiidæ (lī-on-sī'i-dō), n. pl. [NL., < Lyonsia + -idæ.] A family of anatinacean bivalve sia + -idw.] A family of anatinacean bivalve mollusks having a cylindrical byssiferous foot and short siphons. It contains the genus Lyonsia. Lyonomi (liono'formi) we at [NL irrog (Gr.

Lyopomi (lī-op'ō-mi), n, pl. [NL., irreg. \langle Gr. $\lambda \nu e \nu$, loosen, $+ \pi \check{o} \mu a$, lid (operculum).] An order of deep-sea fishes, containing the single

family Halosawridæ.

Lyopsetta (li-op-set'ii), n. [NL., ζ Gr. λίνευ, loosen, + ψήττα, flounder.] A genus of flounder.] ders found on the west coast of the United States.

Lyosphæra (lī-ō-sfē'rā), n. [NL., irreg. ⟨Gr. λνειν, loosen, + σφαίρα, ball, sphere.] A genus of fishes of the family Diodontidæ, found on the Atlantic coast of the United States.

lypemania (li-pē-mā/ni-ā), n. [NL., irreg. ζ Gr. λύπη, grief, + μανία, madness.] Insanity marked by an extreme degree of melancholy. lypothymia (lī-pō-thim'i-ā), n. [NL., ζ Gr. λυπη, grief, + θυμός, spirit, mind.] Extreme depression of spirits.

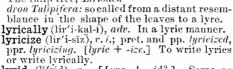
lyr. An abbreviation of lyric.

lyrachord (li ri-kōrd), n. [Irreg. < Gr. 2νρα, μ-methylglyoxalidine.
lyre, + χορδή, string.] A form of pianoforte lysimeter, n. 2. An instrument for determininvented in England about 1850, in which the ling the quantity of matter held in solution in lyre1, n. t. (e) In pianoforte-making, the lyre-

The posterior portion of the under surface of the fornix of the brain, marked by a number of lines bearing a fancied resemblance to a lyre. Also called lyre of David or lyra Davidis. lyre-backed (lir'bakt), a. In old English fur-niture, said of a chair in which the center-piece of the back has the form of a lyre.

piece of the back has the lyre-fish (lir'fish), n. A gurnard, Trigla lyra, of the family Triglida, found in the Mediterranean and on the coasts of England and France. lyre-flower (lir'flou er), n. A handsome, hardy perennial plant, Biku-kulla spectabilis, with rosy-crimson flowers arranged in graceful ra-cemes. See Dicentra and

bleeding-heart, 2.
lyre-tree (līr 'trē), n.
The tulip-tree, Lirioden-



lyrid (li'rid), n. [Lyra + -id².] Same as lyraid, and now the more usual form of the

name. Nature, April 23, 1903, p. 584.

Lyrodesma (li-rō-des mā), n. [NL., ζ Gr. λίγρα, a lyre, + δέσμα, band, hinge.] A genus of fossil prionodesmaceous pelecypods having an oval shell with narrow cardinal border and a hinge-armature which radiates like a fan from

lyrula (lir'ū-lä), n. [NL. dim. of lyra, lyre.] In polyzoans, a tooth-like process behind the avicularium. Annals and Mag. Nat. Hist.,

In polyzonals, a contains μ avicularium. Annals and Mag. Nat. Hist., July, 1903, p. 120. lysactinic (lis-ak-tin'ik), a. [Gr. $\lambda i \sigma(\iota \varsigma)$, solution, + $\dot{\alpha} \kappa \tau i \varsigma$ ($\dot{\alpha} \kappa \tau u \tau$), ray, + - $\dot{\iota} c$.] In echinoderms, as the starfishes, having the podia limited to the lower surface of the body. Also, erroneously, lissactinic. Compare *desmactinic. lysalbic (h-sal'bik), a. [Gr. hro(v), solution, + alb(umen) + -ic.] Noting an acid, a compound prepared by the action of caustic alkali (alkali hydroxid) on egg-albumin. With compounds of the heavy metals it gives precipitates which are soluble in alkali, the metal passing into the colloidal state.

Lysarete (li-sar'e-tē), n. [NL., ζ Gr. Λυσαρέτη, a feminine personal name.] The typical genus

of the family Lysaretidæ.

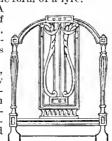
Lysaretidæ (lis-a-ret'i-dē), n. pl. [NL., <
Lysarete + -idæ.] A family of polychætous annelids having a prestomium with three tenannelids having a prestomium with three tentacles and four eyes, the first two segments lyssi (lis'i), n. pl. [NL., \(\crit \) lyssa, q. v.] Little without appendages, the naranodia uniramous blisters on the tongue, occurring in the early without appendages, the parapodia uniramous with one set of sette, and the dorsal cirri foliaceous and branchial. It includes the genera lyssic (lis'ik), a. Relating to lyssa or rabies;

of stannous chlorid and hydrochloric acid on albuminous compounds. It is said to yield urea when decomposed, and it may be a mixture of arginin and lysin.

lysatinine (li-sat'i-nin), n. [lysatine + -ine².] A colorless basic compound, C₆H₁₁ON₃, obtained, together with lysatine, by the action of stannous chlorid and hydrochloric acid on albuminus compounds. lysatinine (li-sat'i-nin), n. albuminous compounds.

ysidine (lis'i-din), n. [ys(in) + -in] NHCH₂
A bright red basic compound, CH₃C \leqslant N $\stackrel{\cdot}{\sim}$ \stackrel lysidine (lis'i-din), n. $[lys(in) + -id^1 + -inc^2]$

prepared by the action of ethylenediamine hydrochlorid on sodium acotate. It melts at 105° C., boils at 195–198° C., and is used medicinally in cases of gout to remove uric acid, its salt with which is extremely readily soluble. Also called *ethylenc ethenyldiamine* and



A Sheraton Lyre-back.

amines. It is the mother-substance of the ptomaine eadaverin.—2. A substance, found in blood serum, which, when injected into the body of an animal, will cause the dissolution or destruction of cellular elements. Such lysins may be produced artificially by immunization with various cells in animals of different species, and are then lytic for the corresponding cells. Such bodies are the hemolysins, the leucolysius, endotheliolysius,

lysine (lī'sin), n. [Gr. λίσ-ις, loesening, solution, dissolution, + -ine².] A colorless compound, CH₂ (NH₂) CH₂CH₂CH₂CH (NH₂)-COOH, formed by the action of cilute acids or of trypsiu on albuminous substances of both vegetable and animal origin. It crystallizes in slender needles and forms salts with both acids and bases. Also called a- ϵ -diaminocapric acid.

lysis, n. 3. The dissolution of various cells by means of lysins.

That complete agglutination has no effect upon subsequent solution (*lysis*) of the corpuscles will be shown when treating of the latter phenomena.

*Jour. Exper. Med., March 17, 1902, p. 4.

lysoform (lī'sō-fôrm), n. [lyso(l) + form-(aldehyde).] A clear, yellowish, odorless, soapy liquid containing formaldehyde and lysol: used as an antiseptic.

lysogenesis (li-sō-jen'e-sis), n. [lys(in) + Gr. $\gamma \ell \nu \epsilon \sigma \iota \varsigma$, production.] The production of a lysin, or the initiation of the process of lysis.

It has been completely established that in this phenomenon of lysogenesis there are two substances concerned, one specially developed or developed in excess, and the other present in normal serum.

Encyc. Brit., XXVI. 68.

below the umbones. It is restricted to the lysogenetic ($i\bar{i}$ *sō-jē-net'ik), a. [lysogenesis Silurian of Europe and America. (-ct-) + -ic.] Of or pertaining to lysogenesis.

(-ct-) + -ic.] Of or pertaining to lysogenesis. Sera from those bacteria which produce, so far as we know, no soluble poison, are not antitoxic, having no effect upon the toxines already formed in the system in case of disease, but bactericidal acting directly upon the hacteria causing their disintegration and complete solution, to which the term bacteriolysis or lysogenetic action has been applied, and to this really marvellous property we have no analogy in the whole domain of chemicals, antiseptics or disinfectants.

Columbus Med. Jour., Jan., 1903, p. 14.

lysogenic (lī-sō-jen'ik), a. [lys(in) + Gr. -γενης, -producing, + -ic.] Same as *lysogenetic.

The first of these is the *lysogenic* action, which consists in the production of a change in the corresponding bacterium whereby it becomes granular, swells up, and ultimately may undergo dissolution.

Encyc. Brit.*, XXVI. 68.

[Gr. λύσ-ις, solution, + -ol.] lysol (lī'sol), n. A 50 per cent. solution of the cresols of tar-oil in neutral soap: used as an antiseptic, in 0.25 to 2 per cent. aqueous solution, and also in histological work, as a macerating and isolating medium.

stage of rabies.

hydrophobic; rabic.

lysulfol (li-sul'fol), n. [ly(sol) + sulf(ur), sulph(ur), +-ol.] A thick, black, viscous liquid containing lysol and sulphur. It is miscible with water and is used externally in certain skin diseases.

lysuric (lī-sū'rik), a. [lys-in + uric.] Noting an acid, $C_6H_{12}(COC_6H_5)N_2O_2$, a derivative of

lysin.

Lythrulon (lith-rö'lon), n. [NL., < Gr. λύθρον, gore, + οὐλον, gum (of the mouth).] A genus of fishes of the family Hæmulidæ, found on the

Pacific coast of tropical America.

lytic (lit'ik), a. [Gr. λυτικός, adj., < λύσις, loosening, λυτός, loosed; see lysis.] Relating to lysis or the destruction of the cells of a part; producing lysis.

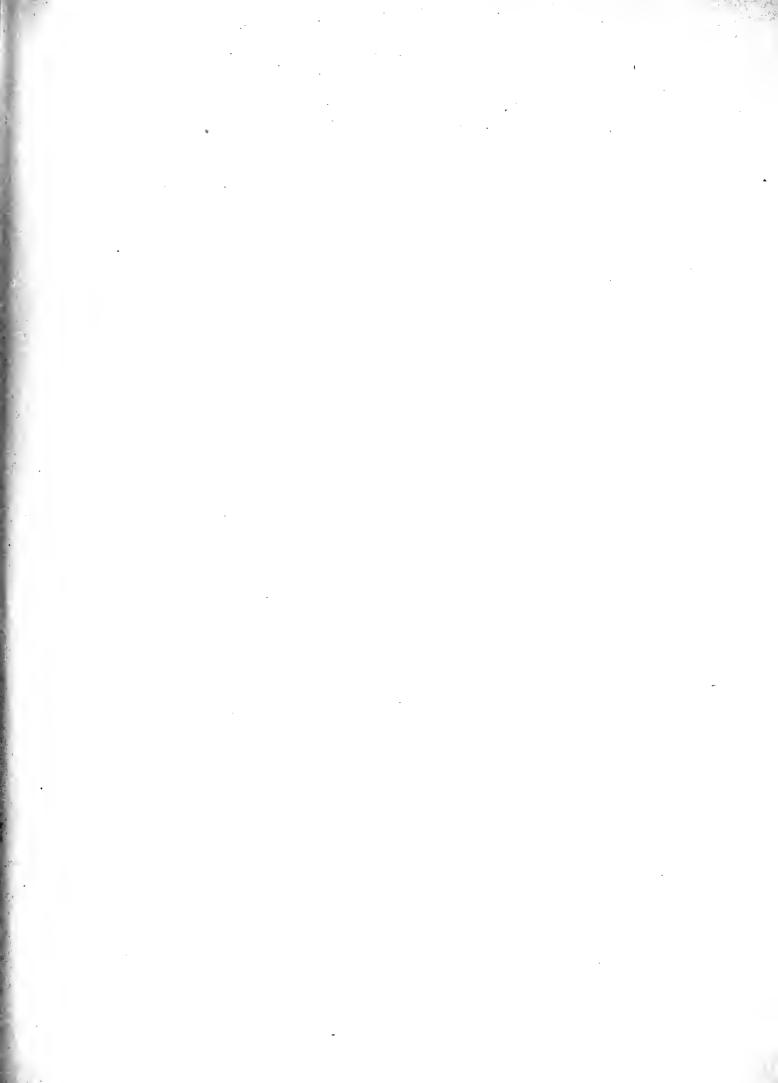
The factors required for producing solution of cells are similar to those for causing solution of bacteria under like conditions. Only when the lytic serum is very fresh will solution be effected; the addition, however, of peritoneal exudate or fresh normal serum to immune serum which has lost the solvent property, suffices to restore it.

Jour. Exper. Med., March 17, 1902, p. 281.

Lyttonia (li-tō'ni-ā), n. [Nl., from the surname Lytton.] A genus of very peculiar brachiopods of the family Thecidudæ, occurring in the Carboniferous formation of China and invented in Eugland about 1850, in which the hammers were directed against the middle point of the strings. Compare \star cembalo point of the strings. Compare \star cembalo \star compare, which may have suggested the idea. lysin (li'sin), n. [Gr. $\lambda i\sigma$ -ig, loosening, solution, \star lindia. It possessed very large and highly inequivalve, irregular shells, with broad lateral expansion and number of the hamber of the hamber of the hamber of the hamber of the heaven bases; a diamino acid of the shaped frame to which the pedals are attached and through which the pedal-rods work.—6.

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	•		•	
	•			
		•		-
			+	
Fig.				
₹				
710				
And when when we want to the second				
No. of the second secon				
e _k				
The second second				
A g.				
		•		
) 				
·				
·				
9				
X <u>:</u>		•		
				ŕ
·				
÷ 3:				
		,		
S.				
2				

	4			
			:	
				A .
d ag				
			•	
		,		
				•
				•
				2
			•	**



			٠,
			-
			,
			.*
			=
			4
			· ·
			•,
			,
	·		
			•
			*
			-

		-
		•
	,	



PE 1625 04 1901 v.11 The Century dictionary and cyclopedia

PLEASE DO NOT REMOVE
CARDS OR SLIPS FROM THIS POCKET

UNIVERSITY OF TORONTO LIBRARY